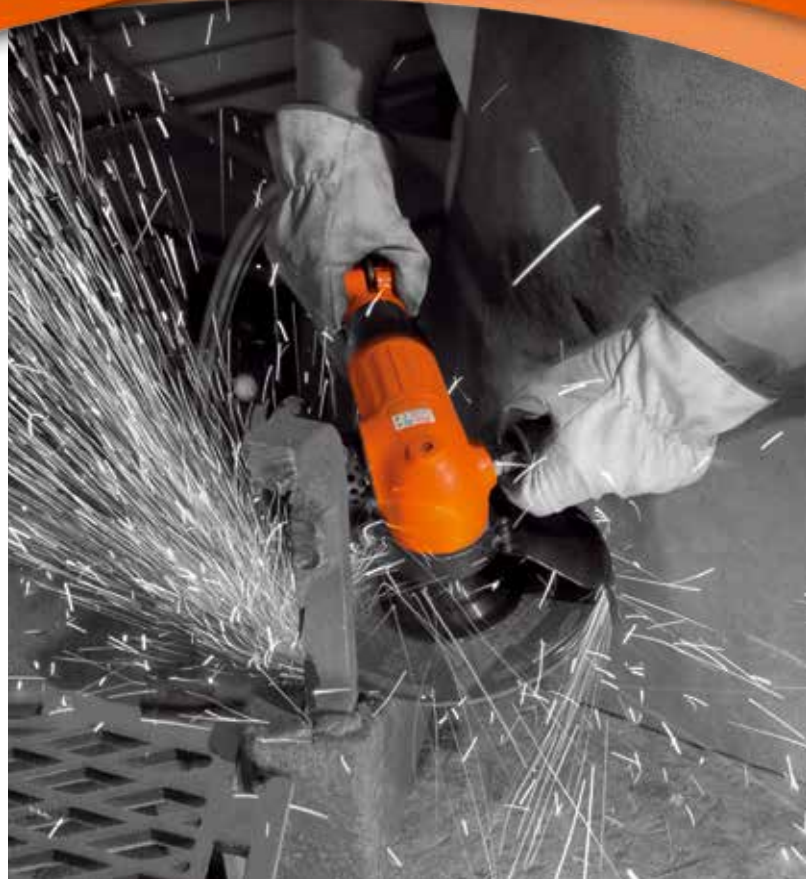


fujii

POWER
AND PRECISION
IN PERFECT
HARMONY

INDUSTRIAL TOOLS



J A P A N E S E Q U A L I T Y S I N C E 1 9 4 3



FUJI TOOLS

Power and Precision in Perfect Harmony



**INDUSTRIAL TOOLS.
JAPANESE QUALITY
SINCE 1943**

A DEEP JAPANESE HERITAGE



From the beginning, Fuji has manufactured tools for some of the toughest and most demanding industrial environments in Japan and on the planet. This has resulted in a wide range of robust and long lasting material removal tools that is the preferred choice for metalworking in Japan and many places overseas. Our range of assembly tools and error proofing solutions was born from the needs of the Japanese manufacturing industry and delivers quality and safety together with speed of operation and ergonomic handling.

COMMITMENT TO QUALITY AND TECHNOLOGY



Every Fuji tool, from the simplest to the most sophisticated, is built to the same exacting standards. "Monozukuri", Japanese craftsmanship, is a core value in both manufacturing and design. Over 60 years of non-stop investment in R&D and kaizen manufacturing ensures that our products are built using proven, advanced technologies and provide superior ergonomics, safety and handling. Moreover, our commitment extends beyond our products to include the world we live in. Our production facilities are compliant with both the ISO 9001 and ISO 14001 standards.



**QUALITY
GUARANTEED**

**OUR COMPANY
IS CERTIFIED ISO 9001
QUALITY MANAGEMENT
AND ISO 14001
ENVIRONMENTAL
MANAGEMENT
STANDARDS.**



WIDE RANGE OF STANDARD AND SPECIAL PRODUCT

With a catalogue of over 1,400 references, we have one of the most extensive, most cost effective ranges of industrial tools available today. Our engineering team also has a long history of collaborating with customers to design solutions for special needs, both large and small.



COMMITTED TO LONG TERM CUSTOMER SATISFACTION

Fuji Tools are available through our network of authorized distributors that provide highly reactive after-sales service. They ensure that after years of service our products perform just as well as on day one. We support this network through both a dedicated international team in Japan and local market representatives in over 20 countries.



Need to know more?

> www.fujitools.com

SELECTION GUIDE

How to understand Fuji model numbers

The model number of Fuji tools is formed by three elements of a combination of letters and numbers indicating the various properties and characteristics of tools concerned.

The first combination of letters indicates the group category that the model belongs to. "FRD" of the model FRD-6PH-3, for example, indicates that this model belongs to the group of "Fuji Rotary Drill".

The second part "6PH" shows the capacity in numbers like wheel size, bolt size, horse power etc. and also shows the types of throttle handle, exhaust direction and housing etc. in letters. In this case, "6" indicates drilling capacity and "PH" indicates pistol handle and rear exhaust.

The third part "3" shows the generation of models in numbers and types of handle, length of anvil and driver bit etc. in letters.

TORQUE TESTERS

FDM	Fuji Digital Tachometer
FDT	Fuji Digital Torque Tester
FFA	Fuji Fastening Adapter
FFC	Fuji Fastening Controller
FJT	Fuji Hydraulic Torque Tester
FMC	Fuji Multiple Fastening Controller
TT	Torque Transducer

WRENCHES, SCREWDRIVERS

CA	Corner Attachments for Impact Wrenches
FD	Fuji Screwdrivers
FET	Fuji Electronic Torque Control Pulse Wrenches
FOW	Fuji Open Ratchet Wrenches
FLT/FPT	Fuji Mechanical Shut-off Pulse Wrenches
FL/FPW	Fuji Pulse Wrenches
FRW	Fuji Ratchet Wrenches
FW	Fuji Impact Wrenches

GRINDERS - SANDERS

FA	Fuji Angle Grinders
FBS	Fuji Belt Sanders
FG	Fuji Die Grinders or Straight Grinders
FOS	Fuji Orbital Sanders
FOR	Fuji Orbital Sanders (Random)
FV	Fuji Vertical Grinders
TURBO	Turbo Ginder

DRILLS - TAPPERS

FCD	Fuji Corner Drills
FRD	Fuji Rotary Drills
FT	Fuji Tappers

HAMMERS - CHIPPERS - RAMMERS

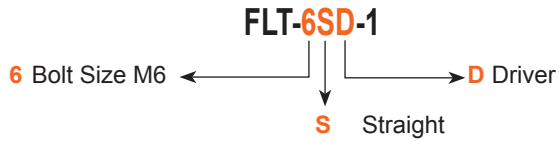
FC	Fuji Calking Hammers
FCH	Fuji Chipping Hammers
FNS	Fuji Needle Scalers
FR	Fuji Rammers
FRH	Fuji Riveting Hammers
FS	Fuji Scaling Hammers

OTHER PRODUCTS

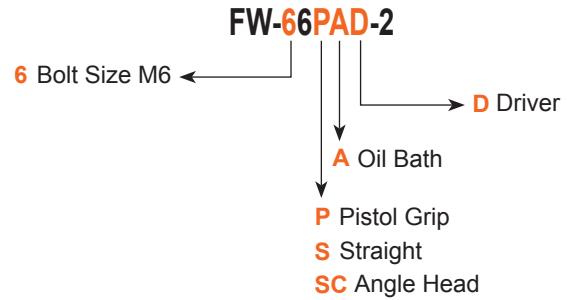
FBM	Fuji Pipe Beveling Machines / Chamfering Machines
FJP	Fuji Jet Pumps
FM	Fuji Air Motor
FP	Fuji Pumps
FRF/FRS	Fuji Reciprocating File & Saw
FTD	Fuji Tip Dressers

SELECTION GUIDE

PULSE WRENCHES



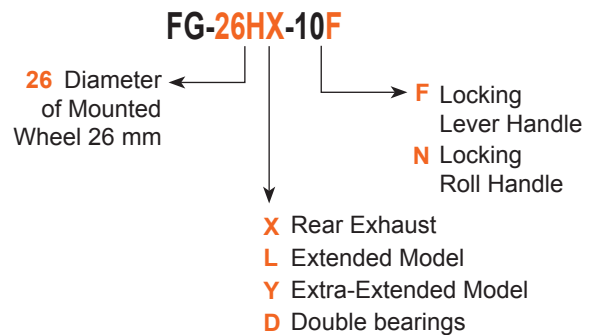
IMPACT WRENCHES



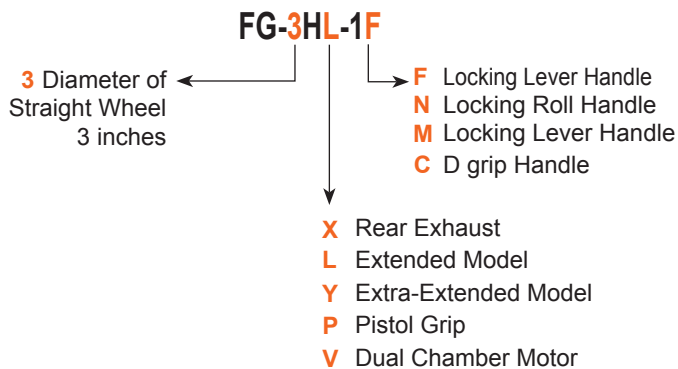
RATCHET WRENCHES



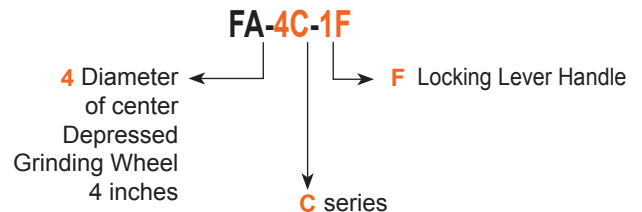
DIE GRINDERS



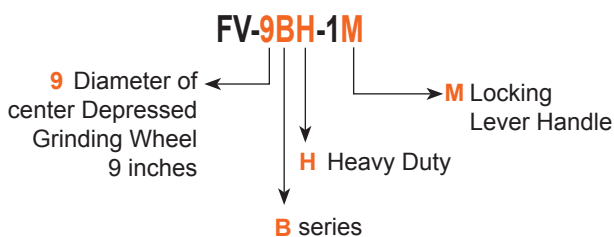
STRAIGHT - EXTENDED GRINDERS



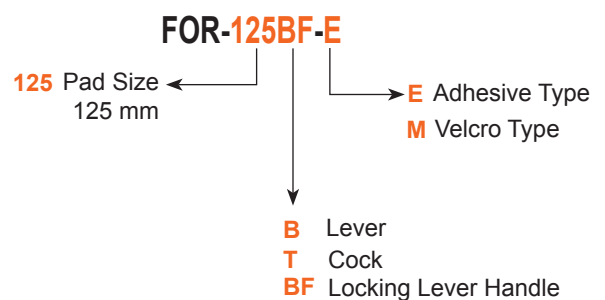
ANGLE GRINDERS - SANDERS



VERTICAL GRINDERS

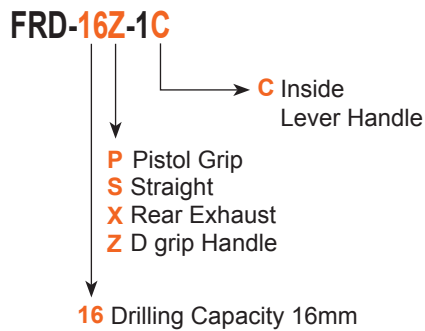


ORBITAL SANDERS

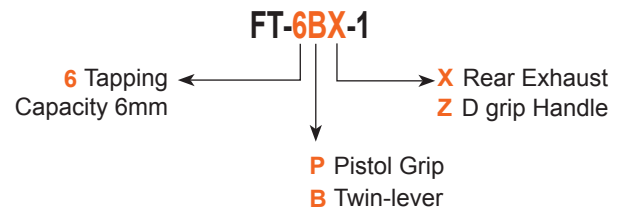


SELECTION GUIDE

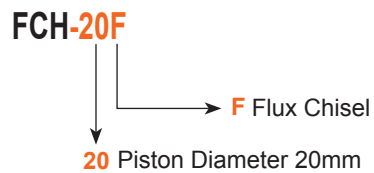
DRILLS



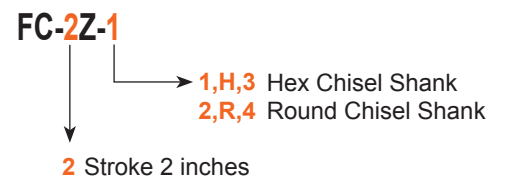
TAPPERS



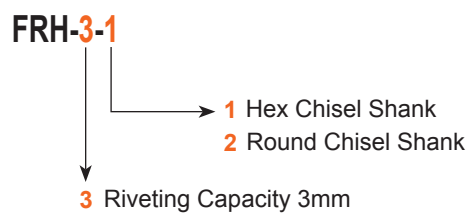
CHIPPING HAMMERS



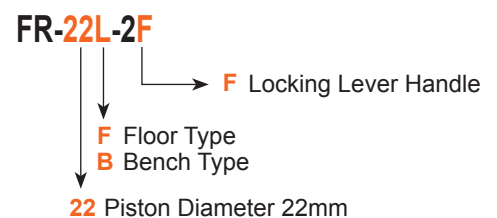
CALKING HAMMERS



LIGHT HAMMERS



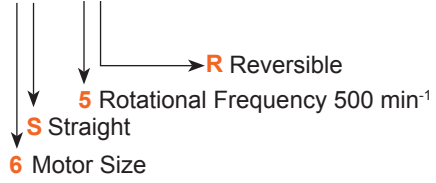
RAMMERS



SELECTION GUIDE

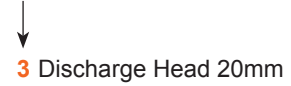
AIR MOTORS

F-6SM-5R



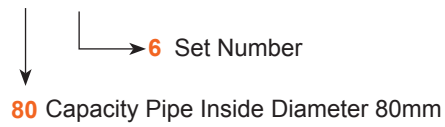
PUMPS

FP-20-1



PIPE BEVELLING MACHINES

FBM-80A-6



SELECTION GUIDE

About The Specifications on Our Catalogue

- 1) **Model Number**
Use this model number when ordering.
- 2) **Bolt Size, Capacity**
Shows the capacity, which the tool can handle, as guidance for a tool selection. The bolt size of a fastening tool is a bolt size which the tool may fasten.
The capacities shown on this catalogue - tapping capacity, riveting capacity, etc. show the size which the tool may handle. Be aware, that the capacity may vary depending on such conditions as the tension, joint rate, material, etc. of the work.
- 3) **Recommended Torque Range, Max Torque**
Shows recommended torque range or max torque of the model. Torque figures in the specifications must be used as guidance only, as final output depends on type and size of fastener, joint rate and air pressure etc.
- 4) **Rotational Frequency**
Rotational frequency is indicated in revolutions per minute, min-1 at which the tool runs at no load at the working air pressure of 0.63MPa, 6.3bar, 90psi if not otherwise specified.
- 5) **Overall Length**
Shows the longest part of the tool without accessories attached. Refer to the last part of this catalogue «Dimensions» if the details of dimensions are necessary.
- 6) **Mass**
Shows the mass of the tool without accessories.
- 7) **Square Drive Size, Bit Shank Size**
Square drive size shows the square size of the spindle or anvil of pulse wrenches and impact wrenches. Bit shank size indicates the bit shank size of the driver anvil of screw drivers.
- 8) **Hex. Socket Size**
Shows standard hexagonal size of the socket of the ratchet wrenches.
- 9) **Air Inlet Thread Size**
Female threaded PT (Pipe Threads) and NPT (National Pipe Threads) are available.
- 10) **Air Hose Size**
The air hose size indicates recommended minimum hose inside diameter which is necessary to supply enough volume of air to the tool for designed performance.
- 11) **Air Consumption**
The air consumption of the tools is stated in m³/min, cubic meters per minute. It indicates the maximum air consumption at the working air pressure 0.63MPa, 6.3bar, 90psi if not otherwise stated.
Maximum air consumption is valid for the tool without a speed governor when the tool is running at no load.

Conversion Factors

Length	1 m	=1000 mm	=39.4 in	=3.28 ft
Diameter, Width, Depth, Height	1 in	=25.4 mm	=0.0254 m	=0.0833 ft
Thickness, Lift, Size	1 cm	=10 mm	=0.394 in	
Side to Center	1 ft	=12 in	=0.3048 m	=304.8 mm
Capacity				
Stroke				
Mass	1 kg	=1000 g	=2.20462 lb	
	1 lb	=0.45359237 kg		
Torque	1 N • m	=0.7375 ft • lb	=0.102 kgf • m	
Recommended Torque Range	1 kgf • m	=9.807 N • m	=7.233 ft • lb	
Max. Torque, Measuring Range	1 ft • lb	=1.3558 N • m	=0.138 kgf • m	
Stall Torque, Starting Torque				
Force	1 N	=0.102 kgf	=0.225 lbf	
Lifting Capacity	1 kgf	=9.807 N	=0.205 lbf	
	1 lbf	=4.448 N	=0.454 kgf	
	1 kN	=1000 N	=102 kgf	
Pressure	1 Pa	=1 N/m ²		
Air Pressure	1 bar	=100 kPa	=0.1 MPa	=1.0197 kgf/cm ²
Vacuum Degree	1 MPa	=10.2kgf/cm ²	=10 bar	
	1 kPa	=0.01 bar	=0.0102 kp/cm ²	=7.5 mmHg
	1 kp/cm ²	=98.07 kPa		
Power	1 W	=0.102 kgf • m/s	=0.738 ft • lb/s	
Power Consumption	1 W	=1 J/s	=1 N • m/s	=1VA
Motor Output, Horse Power	1kgf • m/s	=9.807 W	=0.0133 PS	=7.233 ft • lb/s
	1 PS	=75 kgf • m/s	=0.7355 kW	
	1 kW	=1000 W		
Volume	1 m ³	=35.3 ft ³		
	1 m ³	=1000 l	=1 k	
	1 l	=1000 cm ³	=0.001 m ³	
	1 ft ³	=28.3		
Flow Rate	1 m ³ /s	=60 m ³ /min		
Max. Air Consumption	1 m ³ /min	=35.3 ft ³ /min		
Discharge Volume	1 m ³ /h	=16.667 l/min	=0.2778 l/s	
Discharge Capacity	1 m ³ /min	=16.667 l/s		
	1 l/s	=2.1189 cfm		
	1 cfm	=0.4719 l/s		
Velocity	1 m/s	=3.28 ft/s	=3.6km/h	=60 m/min
Rope Speed, Lifting Speed	1 ft/s	=0.3048 m/s	=1.0973 km/h	
Propelling Speed	1 km/h	=0.278 m/s	=0.911 ft/s	
Rotational Frequency	1 s ⁻¹	=60 rpm		
Free Speed, Pinion Speed	1 min ⁻¹	=1 rpm	=Peripheral Speed (m/min) x 1000 π x Wheel Diameter (mm)	(π =3.14)
Measuring Range				
Frequency	1 Hz	=60 bpm	=60 spm	
Blow, Stroke per minute	1 kHz	=1000 Hz		

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SELECTION GUIDE

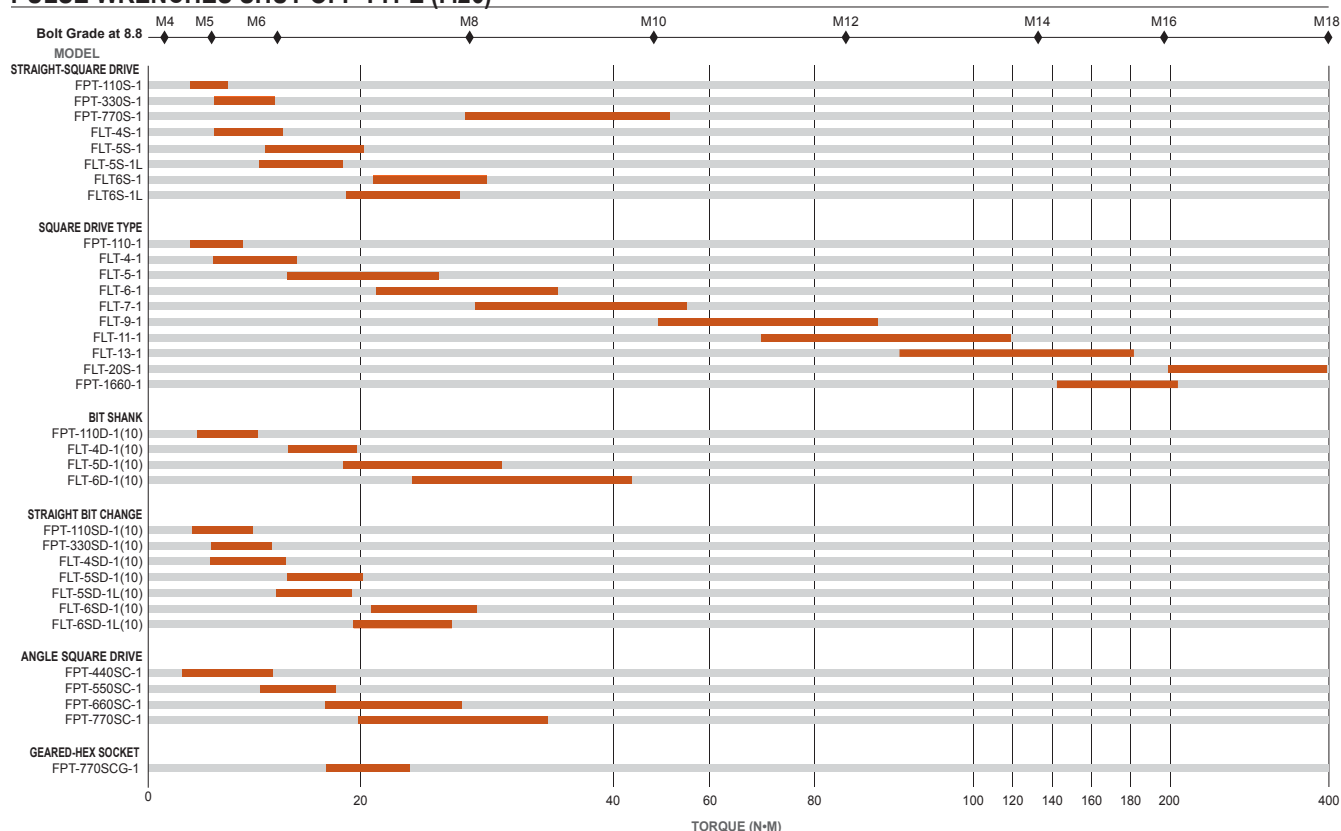
TIGHTENING TORQUE (N.m)

This table shows the recommended tightening torque for common bolt size M2 to M48.

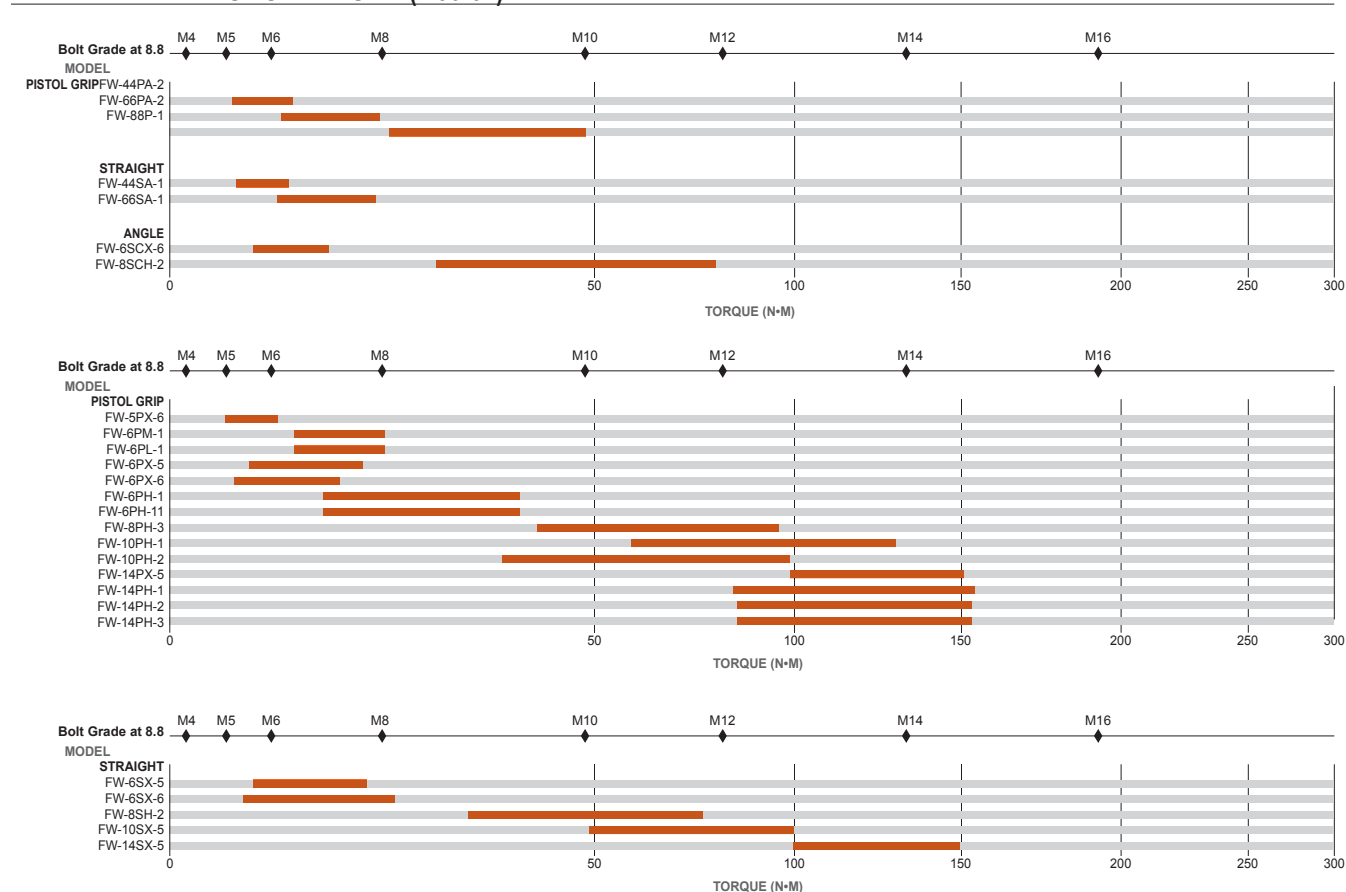
Bolt Size	Bolt Grade							Bolt Size	Bolt Grade					
mm	3.0	4.6	4.8	5.8	8.8	10.9	12.9	mm	4.6	4.8	5.8	8.8	10.9	12.9
M2	0.10	0.13	0.17	0.22	0.35	0.49	0.58	M18	103	121	172	275	386	463
M3	0.35	0.46	0.61	0.77	1.20	1.70	2.10	M20	144	170	240	385	541	649
M4	0.81	1.10	1.40	1.80	2.90	4.00	4.90	M22	194	230	324	518	728	874
M5	0.60	2.20	2.95	3.60	5.70	8.10	9.70	M24	249	295	416	665	935	1120
M6	2.80	3.70	4.90	6.10	9.80	14.0	17.0	M27	360	435	600	961	1350	1620
M8		8.9	10.5	15	24	33	40	M30	492	590	819	1310	1840	2210
M10		17	21	29	47	65	79	M36	855	1030	1420	2280	3210	3850
M12		30	36	51	81	114	136	M42	1360		2270	3640	5110	6140
M14		48	58	80	128	181	217	M45	1690		2820	4510	6340	7610
M16		74	88	123	197	277	333	M48	2040		3400	5450	7660	9190

SELECTION GUIDE

PULSE WRENCHES SHUT-OFF TYPE (P.26)

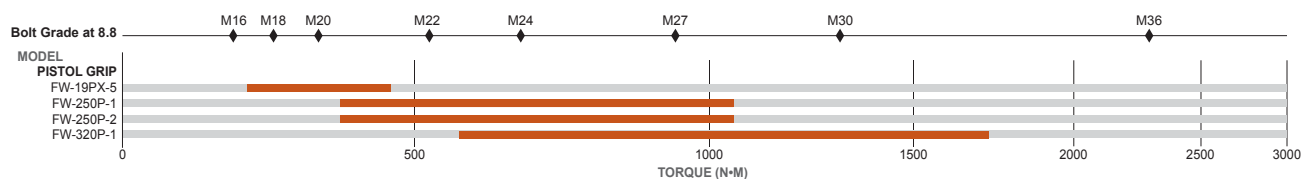
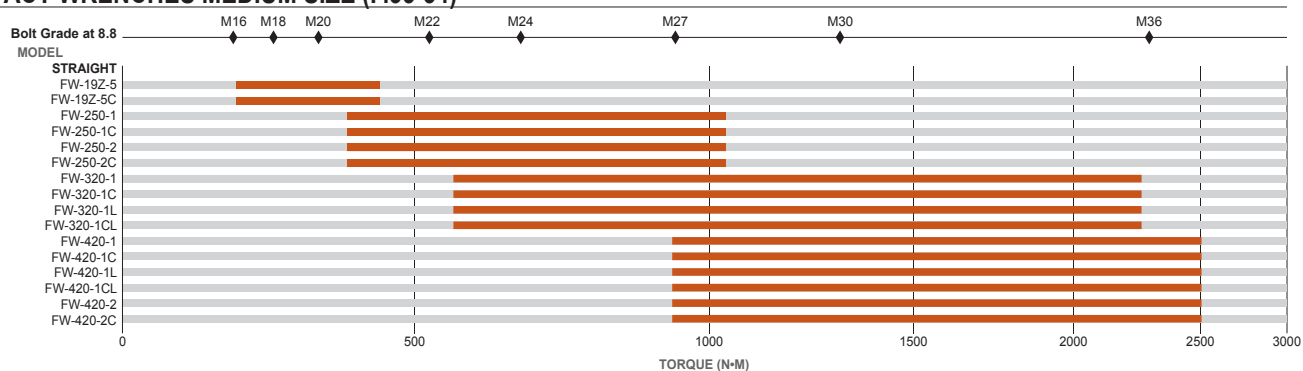


IMPACT WRENCHES - SMALL SIZE (P.30-32)

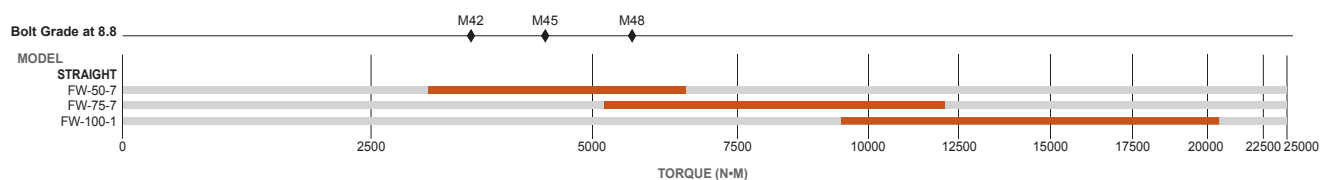


SELECTION GUIDE

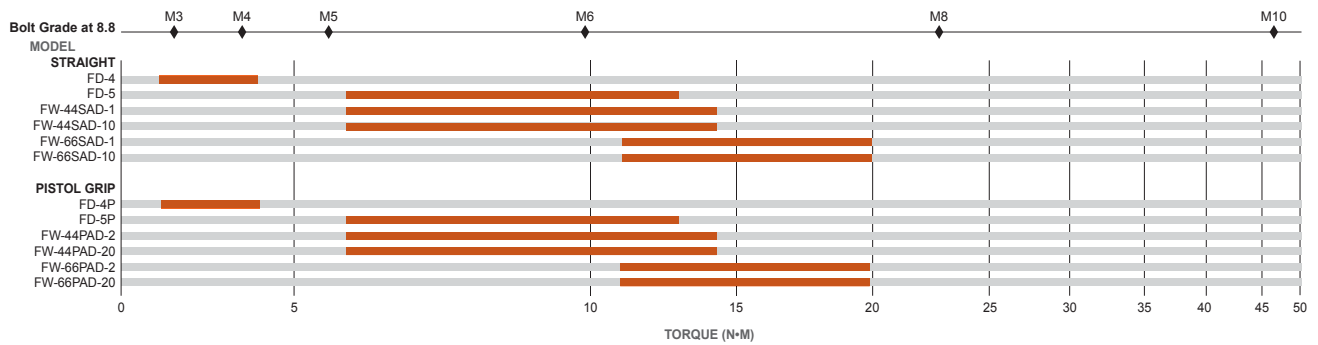
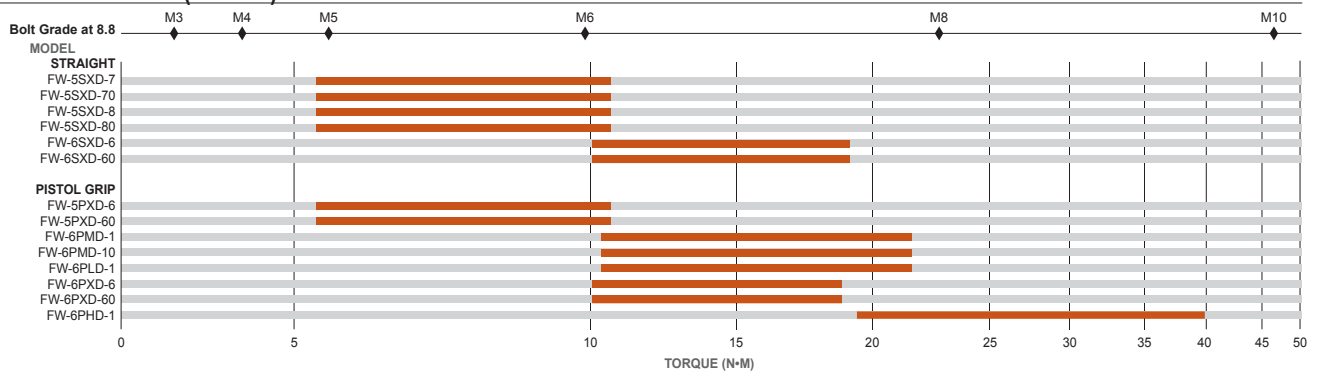
IMPACT WRENCHES MEDIUM SIZE (P.33-34)



IMPACT WRENCHES LARGE SIZE (P.34)



SCREWDRIVERS (P.35-36)



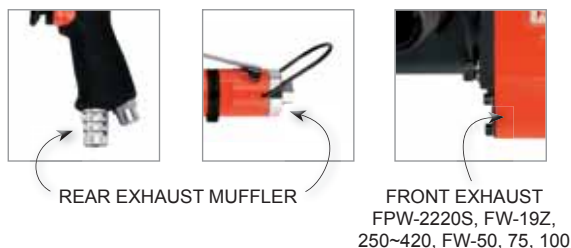
Torque range should be used for guidance only as final torque may vary depending on the type and size of fastener, the joint rate, air pressure etc.
Optimum performance is achieved at the mid range of the tool's torque capability

ASSEMBLY TOOLS FEATURES

EXHAUST WITH A MUFFLER

Our original built-in, swivel type, exhaust muffler is designed to reduce the noise level of the tool. The operator can also select a suitable direction of the exhaust air to minimise the risk of blowing any dust or debris in to the local work environment.

ALL WRENCHES EXCEPT FW-6PL, 6PLD, 5SXD-8, 80, FD-4, 5, 4P, 5P



TWO STAGE - SQUEEZING TYPE THROTTLE VALVE MECHANISM

The two stage / squeeze type throttle enables the operator to start the tool slowly and increase to full speed to aid location of the fastening at the start of the cycle.



REVERSE VALVE LEVER

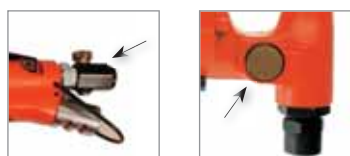
All models feature a reversible motor. The operator can easily and quickly select the direction of rotation simply by turning or sliding the reverse actuator.

ALL WRENCHES EXCEPT FOW, FRW



AIR REGULATOR

To accommodate torque adjustment, the built in air regulator is used to regulate the air flow.



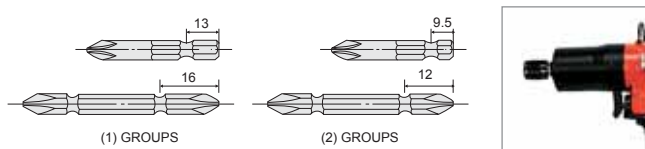
SQUARE DRIVE ANVIL

Two types of square drive anvils are available. As our standard for overseas, the models larger than 25.4 mm (1 inch) square drive are supplied with P anvil (Pin hole retainer type) and the models smaller than 19 mm (3/4 inch) square drive are supplied with BF anvil (Flat button retainer type). Small models can be supplied with P anvil on your request.



BIT SHANK TYPE ANVIL FOR SCREW DRIVERS

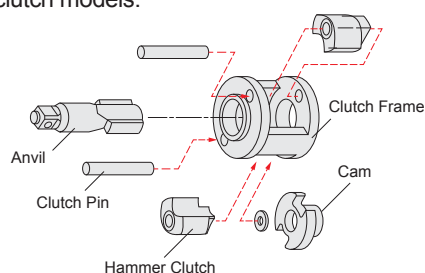
Two types of quick-change bit shank type anvils are available. Both are for 6.35 mm (1/4 inch) hex driver bit, but divided into two model groups according to the bit neck size. **ALL SCREW DRIVERS**



CLUTCH MECHANISM-IMPACT WRENCHES AND DRIVERS

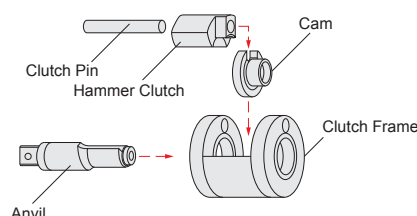
n DOUBLE CLUTCH TYPE

The impact force is balanced with less torque reaction due to two impacts made per revolution. The double clutch type impact wrenches and drivers benefit from less vibration and longer service life than conventional single clutch models.



n SINGLE CLUTCH TYPE

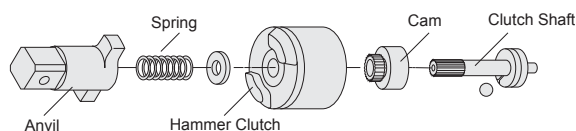
The impact force is harder and torque/weight ratio is better than the double clutch type. Single clutch type models are suitable for hard «pull-up» fastening operations for maintenance & service applications.



ASSEMBLY TOOLS FEATURES

n 2-JAW ONE-DOG CLUTCH TYPE

The Fuji 2-Jaw clutch impact wrenches generate very high torque/weight. These types of tool are most suited for tightening prevailing torque bolts and for removing corroded fasteners.



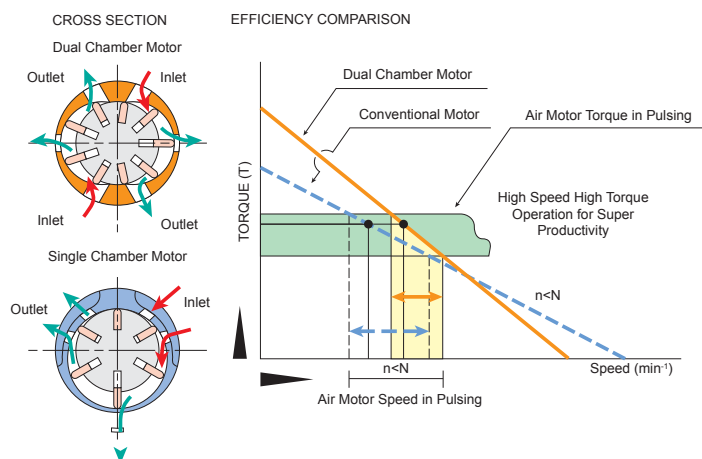
HANDLE PROTECTOR

Ergonomically designed handle protectors provide reduced vibration, increased operator comfort and insulate the hand from the cold temperature generated by compressed air.



DUAL CHAMBER MOTOR

All Fuji pulse wrench models (FET, FLT, FPT, FL, FPW) and the series of impact wrenches (FW-44~88) are built with a 9 blade, dual chamber motor. This motor is designed to provide high torque at low speed, giving the best characteristics for fast reliable and accurate tightening.

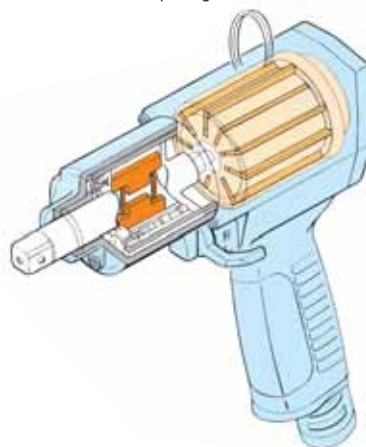
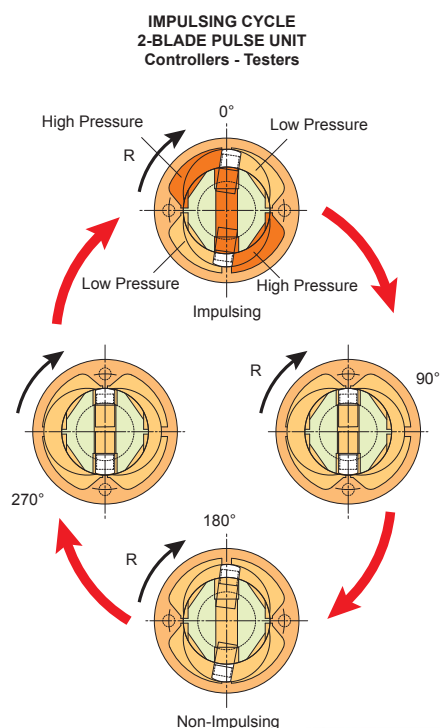


2-BLADE PULSE UNIT

As the pulsing cycle is very short, there is almost no torque reaction in the handle grip (low motor torque only is felt by the operator). Unlike an impact wrench, the pulse tool has no «metal to metal» contact and consequently the pulse wrenches provide softer and stable «impulsing».

The benefits from this are less vibration, lower noise levels and longer service life when compared with conventional impact wrenches.

All pulse wrenches models (FET, FLT, FPT, FL, FPW) utilise the Fuji patented 2 blade pulse unit combined with the dual chamber motor. This combination provides 50% higher power to weight ratio than comparable fastening tools. For productivity, this design reaches torque faster, is excellent for soft joint or prevailing torque applications with reduced noise and vibration levels.



TESTERS

HYDRAULIC TORQUE TESTERS



The hydraulic torque testers are designed to satisfy the need for accurate torque checking and adjustment of shut-off type pulse wrenches and screwdrivers.

Features

- n Bright LED digital display for easy reading in poor light conditions.
- n Easy operation and high precision.
- n Joint rate setting (soft joint to hard joint) is applicable

MODEL	Power Sources	Weight		Testing Bolt Size	Measuring Range	
		Kg	lb		N.m	kgf.m
FJT-5-1	AC100V	10.0	22.0	M4	1.6~3.2	0.16~0.32
FJT-5B-1	AC220V			M5	3.2~5.4	0.32~0.54
FJT-5C-1	AC240V					
FJT-10-1	AC100V	11.5	25.3	M6	5.4~14.7	0.54~1.47
FJT-10B-1	AC220V			M10	31.4~53.9	3.14~5.39
FJT-10C-1	AC240V					
FJT-16-1	AC100V	21.7	47.7	M12	53.9~88.2	5.39~8.82
FJT-16B-1	AC220V			M16	149.0~190.0	14.90~19.00
FJT-16C-1	AC240V					

DIGITAL TORQUE TESTER

FDT-2-1 is the ideal Digital Torque Tester for initial setting, periodical torque checking and adjustment of pulse wrenches, angle nutrunners, and hand torque wrenches. Equipped with interfaces and terminals, the FDT-2-1 can communicate with personal computers, printers, data recorders and other peripheral instruments. The Fuji FDT-2-1 is ideal technical assistant in your laboratory and tool-control facility.



Features

- n High accuracy within more or less 0.5 per cent of full scale
- n Wide measuring range up to 9 900 N.m, 1 000 kgf.m, 7 230 ft.lb
- n Bright LED Display for quick and accurate reading
- n Built-in Blow Counter for easy blow number adjustment
- n 3 measuring units : N.m, kgf.m and ft.lb can be selected
- n Easy Calibration check for circuitry function check of the transducer
- n RS232C port is available for communication with PC
- n 2 types of printer port (Bit parallel and Centronics) are equipped.
- n 2 types of Auto Pulse Analysis are equipped.
 - AVL Average torque
 - PEAK Peak torque

DIGITAL TORQUE TESTER

MODEL	Dimensions						Weight		Power Sources	Power Consumption
	Width		Height		Depth					
	mm	in	mm	in	mm	in	kg	lb	V	W
FDT-2-1	258	10 11/64	116	4 37/64	243	9 37/64	3.7	8.1	AC100~240	12

ACCESSORIES (DIGITAL TORQUE TESTER)

SOCKET



N°	Size in x in	MODEL
1333	F3/8 x M1/2	TT-150

HEX DRIVER BIT



Part N°	Size in x in	MODEL
Y-004558-01	1/2 x 6.35	TT-150
Y-003558-00	3/8 x 6.35	TT-20, 50

TORQUE TRANSDUCERS

MODEL	Measuring Range		Square Size		Applicable models
	N.M	Kgf.m	mm	in	
TT-20	2.0~20.0	0.2~2.0	9.5	3/8	FPW-110, 110S FPW-110SD, 330SD, FL-4SD use with driver adapter, Y-003558-00
TT-50	5.0~50.0	0.5~5.0	9.5	3/8	FL-4-5, FL-4S-6S, FPW-330S FL-4SD-6SD use with driver adapter, Y-003558-00
TT-150	10.0~150.0	1.0~15.0	9.5	3/8	FPW-660~770, 660S~770S use with adapter 3/8 SQ, 1333
			12.7	1/2	FPW-770SD, FL-6SD use with driver adapter, Y-004558-01
TT-300	20.0~300.0	2.0~30.0	12.7	1/2	FL-9-1
TT-500	200.0~500.0	20.0~50.0	19.0	3/4	FL-11~13
TT-1000	400.0~1000	40.0~100.0	19.0	3/4	FPW-1660-1
			25.4	1	FPW-2220S-1 Large tools in torque range up to 1000 N.m

PORTABLE DIGITAL TACHOMETER

The Fuji digital tachometer is ideal for the strict quality control of rotary tools. Accurate rotational speed tests are measured easily by utilising magnetism allowing the sensor to determine the rotational speed.



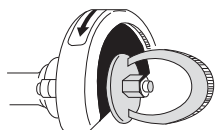
Features

- n Bright LED digital indication eliminates operator's errors.
- n Non-contact measuring for safe and easy measurement.
- n Wide measuring range.
- n Quick response for quick measurement.

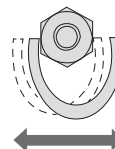
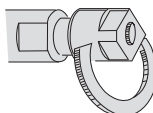
MODEL	Dimensions						Weight		Measuring Range	Response	Measuring Method	Indication	Power Sources	
	Width		Height		Depth								V	Hz
	mm	in	mm	in	mm	in	kg	lb	min-1	seconds				
FDM-202	150	5 29/32	60	2 23/64	212	8 11/32	1.1	2.4	10-999,900	6	Non-Contact Type Magnetic Sensor	LED	AC100~240	50/60

HOW TO MAGNETIZE

Magnetic Induction method is used for this tachometer. Be sure to magnetize the revolving part of a tool with the magnet provided so that a pair of N and S poles may be made.

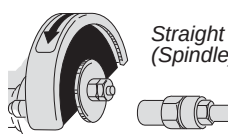


When magnetizing a flat part, be sure to magnetize so that N and S poles may be made at the same time.

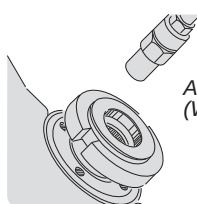


When magnetizing a hexagonal part, a square part, a round part, etc., be sure to magnetize so that N and S poles may be made proportionally.

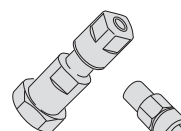
HOW TO MEASURE



Straight Grinder
(Spindle)



Angle Grinder
(Wheel Flange A)



Die Grinder
(Collet Chuck)

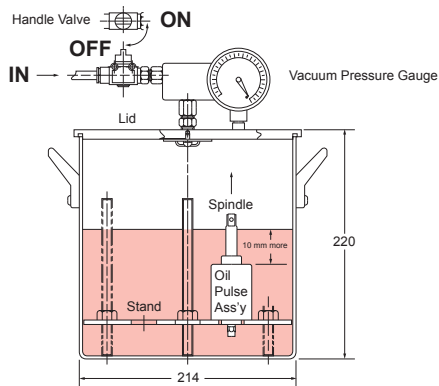
OIL FILLER - TESTERS

OIL FILLER

The Fuji oil filler is the ideal, and indispensable, equipment required for maintenance and repair of pulse wrenches. By connecting a conventional air supply to the handle valve, the oil filler makes re-filling the pulse unit assembly quick and easy.



FVT-1



COUNTDOWN ADAPTER

The Fuji FFA-2-2 Countdown Adapter counts the number of bolts tightened. It is used together with FLT & FPT Shut-off Pulse Wrenches (CD type) and FL & FPW Pulse Wrenches and lifts the error proofing capabilities of these tools. Optional devices like Buzzer or Light tower can be connected for quick notice of countdown error, or a signal can be output to the line control system. With its compact size, the FFA-2-2 is easily integrated into the assembly station.



Model	Dimensions						Weight		Power Sources	Power Consumption
	Width		Height		Depth		kg	lb	V	W
FFA-2-2	125	4 59/64	62	2 29/64	25	63/64	0.3	0.7	DC24	3

TORQUE CONTROL SYSTEM

To accommodate the various requirements of torque control and assembly application, Fuji offers a complete range of fastening tools and reliable torque controllers designed to enhance quality and increase productivity. The following table shows various combinations of fastening tools and controllers. Choose the correct combination to meet your production requirements.

TOOLS		FW FOW FRW	FL FPW	FLT FPT	FET	FW	FL FPW	FLT FPT	FET
CONTROLLER		-	-	-	FET-100	-	-	-	FET-100
COUNTDOWN ADAPTERS		-	-	-	-	FFA	FFA	FFA	FFA
TORQUE ADJUSTMENT				X	X			X	X
SHUT-OFF				M	T	TI	TI	M	T
DISPLAY	FASTENING OK/NOK				X	X	X	X	X
	FASTENING OK/NOK				X				X
DISPLAY INPUT/OUTPUT	OK/NOK				X	X	X	X	X
	LINE INTEGRATION				X	X	X	X	X
	NOK REASON				X				X
ERROR PROOFING	BOLT COUNTING				X	X	X	X	X
	TIME LIMITS				X	X	X	X	X
	PULSE COUNTING				X				X
	TORQUE JUDGEMENT				X				X
DATA MEMORY					X				X
DATA OUTPUT	RS232				X				X
	ETHERNET				X				X

M - Mechanical shut-off - Torque Transducer based shut-off - TI Time based shut off

FET Series

CONTROLLING DYNAMIC TORQUE BY OIL PRESSURE

The Fuji F1 shut off type system wrench is equipped with a torque transducer which enables torque control and monitoring on critical applications.

MINIMIZE TIGHTENING TORQUE SCATTER

Tightening torque tends to scatter in the soft joint application due to the relaxation of the work.

As a solution of scattering Fuji new F1 system continues to tighten 3 more pulses after torque reaches lower limit to make sure the tightening in all conditions.

FET-6-1 TOOL



TAKE THE
SIGNAL FROM
TRANSDUCER
BUILT IN TOOL

SHUT OFF
THE TOOL

CONVERT
SIGNAL
TO TORQUE
VALUE

FET-100-1
CONTROLLER



TORQUE
CONTROL

BATCH
COUNTING

FET SERIES

FET-200-1 COMMANDER



Square drive type

Model	Capacity (Bolt size)	Recommended Torque Range				Square Drive Size		Free Speed @0.63MPa	Air Consumption @0.63MPa	Weight	Overall Length	Air Hose Size
	mm	Nm	kfg.m	ft.lb	mm	in	rpm	@Load (m³/min)	kg	mm	mm	
FET-4-1	M5 to 6	5~12	0.5~1.2	3.6~8.8	9.5	3/8	6,700	0.36	0.96	162	6.3	
FET-5-1	M6 to 8	11~24	1.1~2.4	8~18	9.5	3/8	6,300	0.40	0.96	162	6.3	
FET-6-1	M8 to 10	22~35	2.2~3.6	16~26	9.5	3/8	6,700	0.42	1.0	174	9.5	
FET-7-1	M8 to 10	30~55	3.1~5.6	22~40	9.5	3/8	6,100	0.60	1.2	177	9.5	
FET-9-1	M10	50~85	5.1~8.7	50~85	9.5	3/8	4,600	0.65	1.6	195	9.5	
FET-11-1	M10 to 12	70~120	7.1~12.2	52~89	12.7	1/2	5,000	0.80	2.0	207	9.5	
FET-13-1	M12 to 14	90~155	9.2~15.8	66~115	12.7	1/2	3,800	0.85	2.3	217	9.5	
FET-16-1	M16 to 18	150~210	15.3~21.4	111~155	19	3/4	3,000	1.20	4.1	262	9.5	

Air Inlet Thread Size: PT or NPT 3/8" except FET-4-1/-5-1: 1/4"

Driver bit type

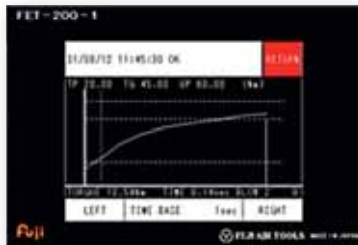
Model	Capacity (Bolt size)	Recommended Torque Range				Bit Shank Size		Free Speed @0.63MPa	Air Consumption @0.63MPa	Weight	Overall Length	Air Hose Size
	mm	Nm	kfg.m	ft.lb	mm	in	rpm	@Load (m³/min)	kg	mm	mm	
FET-4D-1	M5 to 6	5-12	0.5-1.2	3.6-8.8	6.35	1/4	6,700	0.36	0.96	162	6.3	
FET-5D-1	M6 to 8	11-22	1.1-2.2	8-16	6.35	1/4	6,300	0.40	0.96	162	6.3	
FET-6D-1	M8 to 10	19-28	1.9-2.9	14-21	6.35	1/4	6,700	0.42	1.0	174	9.5	

Air Inlet Thread Size: PT or NPT 1/4" except FET-6D-1: 3/8"

FET SERIES SYSTEM

UNIQUE FEATURES OF FET SERIES

- n **Monitor tightening by torque value, time and pulses.**
(Improve detection of tightening error)



- n **Tightening graph display.**
(Possible to check pulses, torque and tightening time visually.)



- n **Bolts and blows counting function.**
Clarify the maintenance time by setting warning by bolts or pulses.



- n **Channel.**
1 controller has 7 channels for flexible application.



- n **Small footprint.**

- n **Strong Cables.**
Kevlar reinforced cables ensure durability in tough operation



FET SERIES SYSTEM

FET SERIES KIT



FET-3-001V / FET-4-001V



FET-100-1



FET-003-3K



FET-006-3K



M-P02SS



FET-200-1

FET-4, 5, 6, 7

Model	Quantity	Description
FET-6-1	1	Tool
FET-006-3K	1	Junction Cable
FET-003-3K	1	Junction Cable
FET-3-001V	1	Solenoid Valve (FET-4~7)
FET-100-1	1	FET Control Unit
FET-200-1	1	FET Commander Unit
F-701-1	1	Hex Wrench 1.5 M/M
F-704	1	Hex Wrench 4HEX
M-P02SS	1	Anti-rotational fitting

FET-9, 11, 13, 16

Model	Quantity	Description
FET-9-1	1	Tool
FET-006-3K	1	Junction Cable
FET-003-3K	1	Junction Cable
FET-4-001V	1	Solenoid Valve (FET-9~16)
FET-100-1	1	FET Control Unit
FET-200-1	1	FET Commander Unit
F-701-1	1	Hex Wrench 1.5 M/M
F-704	1	Hex Wrench 4HEX
M-P02SS	1	Anti-rotational fitting

PULSE WRENCHES NON SHUT-OFF TYPE

FL Series**F E A T U R E S**

1

ACCUMULATOR MECHANISM

The accumulator functions to compensate against the sudden rise of oil pressure when tightening a hard joint. Torque scatter and error is minimised.

As the oil temperature increases during consecutive tightening, the accumulator takes in the expanded volume of oil to maintain a consistent oil volume in the pulse unit. This ensures high tightening torque accuracy.

2

ENVIRONMENTALLY FRIENDLY DESIGN

To reduce effects on the environment and environmental energy during the life cycle of the tool, no paints is applied to the body of the tool. Consequently, the effect of paint peeling is eliminated. The fully cover protector is designed as standard.

3

ERGONOMIC DESIGN

Compared with conventional tools, weight is kept to a minimum. The grip handle size is optimised to provide enhanced levels of operator comfort. This special grip also absorbs vibration more effectively.

Furthermore, reduced noise and vibration levels are standard with the FL series due to the optimised dimensions.



PULSE WRENCHES NON SHUT-OFF TYPE

Recommended Torque Range, Max Torque

Shows recommended torque range or max torque of the model. Torque figures in the specifications must be used as guidance only, as final output depends on type and size of bolts and nuts, joint rate and air pressure etc.

PISTOL GRIP MODELS (SQUARE DRIVE - BIT SHANK)

Sq. 6.35 mm (1/4") ~ 9.5 mm (3/8") ~ 12.7 mm (1/2")



FL-4-1



FL-7-1



FL-11-1



FL-4D-1

Model	Bolt Size	Recommended Torque Range				Free Speed	Square Drive Size Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FL-4-1	M6	16-24	1.6-2.4	11.8-17.7	6,700	9.5	3/8	139.5	5 31/64	0.79	1.7	0.36	12.7	6.3	1/4	
FL-5-1	M6-M8	20-40	2.0-4.0	14.7-29.5	6,300	9.5	3/8	139.5	5 31/64	0.79	1.7	0.40	14.1	6.3	1/4	
FL-6-1	M8	28-56	2.8-5.6	20.6-41.3	6,700	9.5	3/8	151.5	5 31/32	0.83	1.8	0.42	14.8	9.5	3/8	
FL-7-1	M8-M10	34-60	3.4-6.1	25.0-44.2	6,100	9.5	3/8	155	6 7/64	1.02	2.2	0.60	21.1	9.5	3/8	
FL-9-1	M10	52-96	5.3-9.7	38.3-70.8	5,000	12.7	1/2	173	6 13/16	1.45	3.2	0.65	22.9	9.5	3/8	
FL-11-1	M10-M12	80-136	8.1-13.8	59.0-100.3	5,000	12.7	1/2	184	7 15/64	1.80	4.0	0.80	28.2	9.5	3/8	
FL-13-1	M12-M14	120-172	12.2-17.5	88.5-126.8	3,800	12.7	1/2	192	7 9/16	2.10	4.6	0.85	30.0	9.5	3/8	
FL-4D-1(10)	M6	14-20	1.4-2.0	10.3-14.7	6,700	6.35	1/4	140	5 3/64	0.79	1.7	0.36	12.7	6.3	1/4	
FL-5D-1(10)	M6-M8	18-32	1.8-3.2	13.2-23.6	6,300	6.35	1/4	140	5 3/64	0.79	1.7	0.40	14.1	6.3	1/4	
FL-6D-1(10)	M8	25-42	2.5-4.2	18.4-30.9	6,700	6.35	1/4	152	5 63/64	0.83	1.8	0.42	14.8	6.3	1/4	

Air Inlet Thread Size: PT or NPT 1/4".

Figures in () can be obtained at the position of "L" mark on the regulator knob, but for another, at "H" mark.

STRAIGHT MODELS (SQUARE DRIVE)

Sq. 9.5 mm (3/8")



FL-4S-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FL-4S-1	M6	6-14	0.6-1.4	4.4-10	5,600	9.5	3/8	209	8 15/64	0.85	1.8	0.36	12.7	6.3	1/4
FL-5S-1	M6-M8	11-24	1.1-2.4	8-18	6,300	9.5	3/8	209	8 15/64	0.85	1.8	0.40	14.1	6.3	1/4
FL-6S-1	M8	21-32	2.1-3.3	16-24	5,600	9.5	3/8	221	8 45/64	0.90	2.0	0.42	14.8	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

STRAIGHT MODELS (BIT SHANK)

Hex. 6.35 mm (1/4")



FL-4SD-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FL-4SD-1(10)	M4-M6	15-25	1.5-2.6	11.1~18.4	5,500	6.35	1/4	226	8 57/64	0.88	1.9	0.35	12.4	6.3	1/4
FL-5SD-1(10)	M4-M6	20-34	2.0-3.5	14.8-25.1	5,700	6.35	1/4	226	8 57/64	0.88	1.9	0.37	13.1	6.3	1/4
FL-6SD-1(10)	M6-M8	25-37	2.6-3.8	18.4-27.3	5,800	6.35	1/4	238	9 3/8	0.95	2.1	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

Bit Size		FL-***SD-1, FL-***D-1 A:9.5mm B:12mm
		FL-***SD-10, FL-***D-10 A:13mm B:16mm

PULSE WRENCHES NON SHUT-OFF TYPE

PISTOL GRIP MODELS (SQUARE DRIVE)

Sq. 6.35 mm (1/4") ~ 9.5 mm (3/8") ~ 19 mm (3/4")

FPW-110-1



FPW-1100~1660



Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FPW-110-1	M4~M5	7.5-13 (2~7.5)	0.8~1.3 (0.2~0.8)	5.5~9.6 (1.4~5.5)	4,500	9.5	3/8	143	5 41/64	0.75	1.7	0.20	7.1	6.3	1/4
FPW-110D-1	M4~M5	7~11 (2~7)	0.7~1.1 (0.2~0.7)	5.2~8.1 (1.4~5.1)	4,500	6.35	1/4	149	5 7/8	0.76	1.7	0.20	7.1	6.3	1/4
FPW-110D-10	M4~M5	7~11	0.7~1.1	5.2~8.1	4,500	6.35	1/4	149	5 7/8	0.76	1.7	0.20	7.1	6.3	1/4
FPW-1660-1	M16~M18	160~270	16.3~27.5	118~199.1	3,000	19.0	3/4	243	9 37/64	3.80	8.4	1.20	42.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

Figures in () can be obtained at the position of "L" mark on the regulator knob, but for another, at "H" mark.

STRAIGHT MODELS (BIT SHANK)

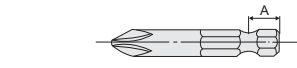
Hex. 6.35 mm (1/4")



FPW-110SD

Model	Bolt Size	Recommended Torque Range			Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FPW-110SD-1(10)	M4	2~7	0.2~0.7	1.5~5.2	3,200	6.35	1/4	224	8 53/64	0.65	1.4	0.20	7.1	6.3	1/4
FPW-330SD-1 (10)	M5	12~17	1.2~1.7	8.9~12.5	4,400	6.35	1/4	226	8 57/64	0.88	1.9	0.30	10.6	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4".

Bit Size		FPW-***SD-1, FPW-***D-1 A:9.5mm B:12mm
		FPW-***SD-10, FPW-***D-10 A:13mm B:16mm

STRAIGHT MODELS (SQUARE DRIVE)

Sq. 9.5 mm (3/8") ~ 19 mm (3/4")



FPW-2220S-1

Model	Bolt Size	Recommended Torque Range				Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FPW-110S-1	M4	2-7.5	0.2-0.8	1.5-5.5	3,200	9.5	3/8	218	8 19/32	0.65	1.4	0.20	7.1	6.3	1/4	
FPW-330S-1	M5	13-22	1.3-2.2	9.6-16.2	4,400	9.5	3/8	226	8 57/64	0.87	1.9	0.30	10.6	6.3	1/4	
FPW-770S-1	M8	44-76	4.5-7.8	32.5-56.1	6,300	9.5	3/8	240	9 7/16	0.90	2.0	0.50	17.7	9.5	1/4	
FPW-2220S-1	M18-M20	300-500	30.6-51.0	221.3-368.8	2,500	19.0	3/4	350	10 13/16	7.00	15.4	1.30	45.9	12.7	1/2	

Air Inlet Thread Size: PT or NPT 1/4", (FPW-2220S) PT or NPT 1/2".

PULSE WRENCHES NON SHUT-OFF TYPE

ANGLE HEAD SQUARE DRIVE TYPE

Sq. 9.5 mm (3/8")



FPW-440SC~660SC



FPW-770SC-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FPW-440SC-1	M4-M6	13-24	1.3-2.4	9.6-17.7	5,000	9.5	3/8	255	10 3/64	1.28	2.8	0.39	13.8	6.3	1/4
FPW-550SC-1	M6-M8	22-35	2.2-3.6	16.2-25.8	5,500	9.5	3/8	255	10 3/64	1.29	2.8	0.39	13.8	6.3	1/4
FPW-660SC-1	M6-M8	25-43	2.6-4.4	18.4-31.7	5,500	9.5	3/8	267	10 33/64	1.40	3.1	0.48	16.9	9.5	3/8
FPW-770SC-1	M8	33-50	3.4-5.1	24.3-36.9	6,300	9.5	3/8	271	10 43/64	1.70	3.7	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

GEARED PULSE WRENCHES

The Fuji Geared Pulse Wrenches Shut-Off type provides high power in combination with low noise and vibration through the Dual Chamber Air Motor & Gear-drive angle head.

The ergonomic design reduces the reaction forces experienced by the operator throughout the torque range.



FPW-770SCG-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FPW-770SCG-1	M4-M6	21-30	2.1-3.1	15.5-22.1	7,000	12	15/32	343	13 33/64	2.0	4.4	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

PULSE WRENCHES SHUT-OFF TYPE

FLT Series

FEATURES



1 SHUT-OFF VALVE MECHANISM (PATENT PENDING)

The New Shutoff Valve Mechanism (Patent pending) provides the benefit of Operation at Low Pressure.

The new design shut off valve utilize a "total pressure" mechanism to maintain the balance of the shut off valve. The new valve design operates over a range of 0,5-0.63 MPa (5-6.3 bar, 58-90psi) air pressure.

Compared to the conventional designed differential pressure valves (which require the use of a spring to maintain the balance of force against the shut off valve, and often a spring change to accomodate different air pressure levels), the "total pressure" design provides a superior efficiency operation and improve productivity levels.

2 PLUNGER MECHANISM (PATENT PENDING)

Plunger Mechanism (Patent pending) provides the benefit of improved Torque Accuracy.

For control of low torque, the oil pressure applied to the piston is maintained at a low level and improves torque control. To ensure high accuracy control of low torque, the plunger mechanism is utilised to deliver troque accurately. Oil leakage is prevented within the mechanism via a passage in the plunger which is designed to accommodate changes in oil pressure when the pulse is generated. Consequently, torque and tightening accuracy stability are maintained.

3 PISTON DATUM RETURN MECHANISM (PATENT PENDING)

Torque control is influenced by the movement of the piston as oil pressure changes during pulse generation. The operation of the shut off valve ensures the mechanism for returning the piston to datum position is activated after detecting the change in oil pressure.

The next tightening operation can be applied quickly and fastening torque scatter is improved due to this behaviour of the piston.

4 ACCUMULATOR MECHANISM

The Accumulator functions to compensate against the sudden rise of oil pressure when tightening a hard joint. Torque scatter and error is minimised.

As the oil temperature increases during consecutive tightening, the accumulator takes in the expanded volume of oil to maintain a consistent oil volume in the pulse unit. This ensures high tightening torque accuracy.

5 ENVIRONMENT FRIENDLY DESIGN

To reduce effects on the environment and environmental energy during the life cycle of the tool, no paint is applied to the body of the tool. Consequently, the effect of paint peeling is eliminated. The full cover protector is designed as standard.

6 ERGONOMIC DESIGN

Compared with conventionnal tools, weight is kept to a minimum. The grip handle size is optimised to provide enhanced levels of operator comfort. This special grip also absorbs vibration more effectively. Furthermor, reduced noise and vibration levels are standard with the FLT series due to the optimised dimensions.



PULSE WRENCHES SHUT-OFF TYPE

PISTOL GRIP MODELS (SQUARE DRIVE - BIT SHANK)

Sq. 9.5 mm (3/8") ~ 12.7 mm (1/2") - Hex. 6.35 (1/4")



FLT-4-1



FLT-9-1



FLT-4D-1

Model	Bolt Size	Recommended Torque Range				Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FLT-4-1	M5-M6	5-12	0.5-1.2	3.6-8.8	6,200	9.5	3/8	181	7 1/8	0.97	2.1	0.40	14.1	6.3	1/4	
FLT-4-1L*	M5-M6	4-8	0.4-0.8	3-6	5,300	9.5	3/8	181	7 1/8	0.97	2.1	0.25	8.8	6.3	1/4	
FLT-5-1	M6-M8	11-24	1.1-2.4	8.1-17.7	6,500	9.5	3/8	181	7 1/8	0.97	2.1	0.45	15.8	6.3	1/4	
FLT-5-1L*	M6-M8	8-18	0.8-1.8	6-13	5,500	9.5	3/8	181	7 1/8	0.97	2.1	0.30	10.5	6.3	1/4	
FLT-6-1	M8-M10	22-35	2.2-3.5	16.2-25.8	6,300	9.5	3/8	192	7 19/32	1.00	2.2	0.55	19.4	9.5	3/8	
FLT-6-1L*	M8	15-26	1.5-2.6	11-19	5,700	9.5	3/8	192	7 19/32	1.00	2.2	0.37	13.0	9.5	3/8	
FLT-7-1	M8-M10	30-55	3.0-6.1	22.1-44.2	6,100	9.5	3/8	189.5	7 29/64	1.10	2.4	0.60	21.1	9.5	3/8	
FLT-7-1L*	M8-M10	24-45	2.4-4.6	18-33	5,400	9.5	3/8	189.5	7 29/64	1.10	2.4	0.38	13.4	9.5	3/8	
FLT-9-1	M10	50-85	5.1-8.6	36.8-62.6	4,800	12.7	1/2	209	8 15/64	1.60	3.5	0.68	24.0	9.5	3/8	
FLT-9-1L*	M10	45-70	4.6-7.1	33-52	4,500	12.7	1/2	209	8 15/64	1.60	3.5	0.40	14.1	9.5	3/8	
FLT-11-1	M10-M12	70-120	7.1-13.2	51.6-95.8	4,500	12.7	1/2	217.5	8 9/16	1.85	4.1	0.80	28.2	9.5	3/8	
FLT-11-1L*	M10-M12	65-110	6.6-11.2	48-81	4,400	12.7	1/2	217.5	8 9/16	1.85	4.1	0.43	15.1	9.5	3/8	
FLT-13-1	M12-M14	90-155	9.1-16.3	66.3-118	3,400	12.7	1/2	227.5	8 61/64	2.10	4.6	0.85	30.0	9.5	3/8	
FLT-13-1L*	M12	80-125	8.1-12.5	59-93	3,100	12.7	1/2	227.5	8 61/64	2.10	4.6	0.45	15.8	12.7	1/2	
FLT-4D-1(10)	M6	5-12	0.5-1.2	3.6-8.8	6,700	6.35	1/4	140	5 3/64	0.79	1.7	0.36	12.7	6.3	1/4	
FLT-4D-1(10)L*	M5	5-8	0.4-0.8	4-6	5,300	6.35	1/4	140	5 3/64	0.79	1.7	0.25	8.8	6.3	1/4	
FLT-5D-1(10)	M6-M8	11-22	1.1-2.2	8.1-16.2	6,300	6.35	1/4	140	5 3/64	0.79	1.7	0.40	14.1	6.3	1/4	
FLT-5D-1(10)L*	M6-M8	8-16	0.8-1.6	6-12	5,500	6.35	1/4	140	5 3/64	0.79	1.7	0.30	10.5	6.3	1/4	
FLT-6D-1(10)	M8	19-28	1.9-2.8	14-20.6	6,700	6.35	1/4	152	5 63/64	0.83	1.8	0.42	14.8	9.5	3/8	
FLT-6D-1(10)L*	M8	14-22	1.4-2.2	10-16	5,700	6.35	1/4	152	5 63/64	0.83	1.8	0.37	13.0	9.5	3/8	

Use all above models at 0.5-0.63 MPa (5.0 to 6.3 bar) air pressure except L* at 0.4-0.5MPa (4.0 to 5.0 bar)
Performance figures are at 0.63 MPa (6.3 bar) air pressure. Air Inlet Thread Size: PT or NPT: 1/4".
CD type tools available for use with FFA-2-2 countdown adapter

STRAIGHT MODELS (SQUARE DRIVE)

Sq. 9.5 mm (3/8") ~ 19 mm (3/4")



FLT-4S-1



FLT-20S-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FLT-4S-1	M5-M6	6~11	0.6~1.1	4.4~8	5,500	9.5	3/8	221	8 45/64	0.88	1.9	0.33	11.7	6.3	1/4
FLT-5S-1	M6-M8	11~20	1.1~2.0	8~15	6,400	9.5	3/8	221	8 45/64	0.88	1.9	0.36	12.7	6.3	1/4
FLT-5S-1L*	M6-M8	10~18	1.0~1.8	7.3~13.2	5,300	9.5	3/8	222	8 47/64	0.88	1.9	0.22	7.7	9.5	3/8
FLT-6S-1	M6-M8	21~30	2.1~3.1	16~22	5,800	9.5	3/8	233.5	9 3/16	0.95	2.1	0.45	15.9	9.5	3/8
FLT-6S-1L*	M6-M8	19~27	1.9~2.7	14.5~20.5	5,000	9.5	3/8	234	9 7/32	0.94	2.07	0.28	9.9	9.5	3/8
FLT-20S-1	M18-M20	200~400	20.4~40.8	147.5~295	2,500	19.0	3/4	405	15 3/32	8.80	19.4	1.3	45.8	12.7	1/2

Use all above models at 0.5-0.63 MPa (5.0 to 6.3 bar) air pressure except L* at 0.4-0.5MPa (4.0 to 5.0 bar)
Air Inlet Thread Size: PT or NPT: 1/4", except FLT-20S-1: 1/2"

PULSE WRENCHES SHUT-OFF TYPE

STRAIGHT MODELS (BIT SHANK)

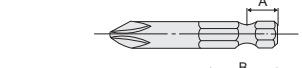
Hex. 6.35 mm (1/4")



FLT-4SD-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FLT-4SD-1(10)	M5-M6	5.5~11	0.5~1.1	3.8~8.4	4,300	6.35	1/4	222	8 47/64	0.88	1.94	0.33	11.6	6.3	1/4
FLT-5SD-1(10)	M6-M8	11~20	1.1~2.0	8.3~15.2	6,400	6.35	1/4	222	8 47/64	0.88	1.94	0.36	12.7	6.3	1/4
FLT-5SD-1(10)L*	M6-M8	10~18	1.0~1.8	7.6~13.7	5,300	6.35	1/4	222	8 47/64	0.88	1.94	0.22	7.7	6.3	1/4
FLT-6SD-1(10)	M8	21~30	2.1~3.0	22.8~13.7	5,800	6.35	1/4	234	9 7/32	0.94	2.07	0.42	14.8	9.5	3/8
FLT-6SD-1(10)L*	M6-M8	19~27	1.9~2.7	14.4~20	5,000	6.35	1/4	234	9 7/32	0.94	2.07	0.28	9.9	9.5	3/8

Use all above models at 0.5-0.63 MPa (5.0 to 6.3 bar) air pressure except L* at 0.4-0.5MPa (4.0 to 5.0)
Air Inlet Thread Size: PT or NPT 1/4"

Bit Size		FLT-***SD-1, FLT-***D-1 A:9.5mm B:12mm
		FLT-***SD-10, FLT-***D-10 A:13mm B:16mm

PISTOL GRIP MODELS (SQUARE DRIVE - BIT SHANK)

Hex. 6.35 mm (1/4") ~ Sq. 9.5 mm (3/8") ~ 19 mm (3/4")



FPT-110D-1



FPT-1660-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
FPT-110-1	M5-M6	4-7	0.4-0.7	3.0-5.2	6,000	9.5	3/8	194.5	7 21/32	0.95	2.1	0.20	7.1	6.3	1/4
FPT-110D-1(10)	M5-M6	4-7	0.4-0.7	3.0-5.2	6,000	6.35	1/4	197.5	7 25/32	0.95	2.1	0.20	7.1	6.3	1/4
FPT-1660-1	M16-M18	150-210	15.3-21.4	110.6-154.9	2,800	19.0	3/4	266	10 31/64	4.4	9.7	1.2	42.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4" except FPT-1660-1: 3/8"

STRAIGHT MODELS (SQUARE DRIVE)

Sq. 9.5 mm (3/8")



FPT-770S



FPT-110S-1

Model	Bolt Size	Recommended Torque Range				Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FPT-110S-1	M4~M5	4~7	0.4~0.7	3.0~5.2	4,500	9.5	3/8	236.5	9 5/16	0.85	1.9	0.20	7.1	6.3	1/4	
FPT-330S-1	M5~M6	6~10	0.6~1.0	4.4~7.4	4,400	9.5	3/8	249	9 13/16	1.1	2.4	0.35	12.3	6.3	1/4	
FPT-770S-1	M8~M10	30~45	3.1~4.6	22.1~33.2	5,500	9.5	3/8	273.5	10 49/64	1.6	3.5	0.45	15.9	9.5	3/8	

Air Inlet Thread Size: PT or NPT 1/4"

PULSE WRENCHES SHUT-OFF TYPE

STRAIGHT MODELS (BIT SHANK)

Sq. 6.35 mm (1/4")

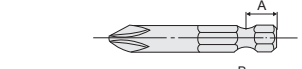
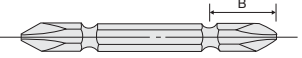


FPT-110SD-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FPT-110SD-1(10)	M4-M5	4~7	0.4~0.7	3.0~5.2	4,500	6.35	1/4	240	9 29/64	0.85	1.9	0.20	7.1	6.3	1/4
FPT-330SD-1(10)	M5-M6	6~10	0.6~1.0	4.4~7.4	4,400	6.35	1/4	249	9 13/16	1.1	2.4	0.35	12.3	6.3	1/4

*Use all above models at 0.5-0.63 MPa (5.0 to 6.3 bar) air pressure but FPT-110 series at 0.4-0.63 MPa (4.0-6.3 bar) air pressure.

*Performance figures are at 0.63 MPa (6.3 bar) air pressure. *Air Inlet Thread Size: PT or NPT 1/4".

Bit Size		FPT-***SD-1, FPT-***D-1 A:9.5mm B:12mm
		FPT-***SD-10, FPT-***D-10 A:13mm B:16mm

ANGLE HEAD SQUARE DRIVE

Sq. 9.5 mm (3/8")



FPT-440SC-1



FPT-770SC-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FPT-440SC-1	M5-M6	6~11	0.6~1.1	4.4~8.1	4,500	9.5	3/8	280	11 1/32	1.46	3.2	0.35	12.4	6.3	1/4
FPT-550SC-1	M6	10~17	1.0~1.7	7.4~12.5	4,800	9.5	3/8	280	11 1/32	1.46	3.2	0.35	12.4	6.3	1/4
FPT-660SC-1	M6-M8	15~25	1.5~2.6	11.1~18.4	4,700	9.5	3/8	292	11 1/2	1.54	3.4	0.5	17.7	9.5	3/8
FPT-770SC-1	M8	20~35	2.0~3.6	14.8~25.8	5,500	9.5	3/8	306	12 3/64	2.3	5.1	0.45	15.9	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

GEARED PULSE WRENCHES SHUT-OFF TYPE

The Fuji Geared Pulse Wrenches Shut-Off type provides high power in combination with low noise and vibration through the Dual Chamber Air Motor & Gear-drive angle head.

The ergonomic design reduces the reaction forces experienced by the operator throughout the torque range.



FPT-770SCG-1

Model	Bolt Size	Recommended Torque Range			Free Speed	Socket Hex. Size		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FPT-770SCG-1	M6	17~24	1.7~2.4	12.5~17.7	6,400	12	15/32	378	14 7/8	2.6	5.7	0.45	15.9	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

IMPACT WRENCHES

Fuji Impact Wrenches FW-44~88 have 9-blade dual chamber motor and double clutch type impact mechanism.

They are designed for giving high torque at low speed, which give the best characteristics for fast reliable and accurate tightening. These models are provided with two types of lubricant in clutch part, FW-44PA~66PA and FW-44SA~66SA series are with oil (Oil Bath type) which features long service life and FW-44P~88P and FW-44S~66S are with conventional grease.

Both series are suitable for self tapping type soft joint.

PISTOL GRIP MODELS

Sq. 9.5 mm (3/8") ~ 12.7 mm (1/2")

FW-44PA~66PA



FW-88P-1



Model	Bolt Size	Recommended Torque Range				Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N.m	kgf.m	ft.lb			mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
•FW-44PA-2	M5	8~16	0.8~1.6	5.9~11.8	20	6,500	min-1	9.5	3/8	131	5 5/32	0.78	1.7	0.60	21.2	6.3	1/4
•FW-66PA-2	M6	14~26	1.4~2.7	10.3~19.2	32	5,000		9.5	3/8	137	5 25/64	0.88	1.9	0.48	16.9	6.3	1/4
FW-88P-1	M8	27~50	2.8~5.1	19.9~36.9	70	5,300		12.7	1/2	163	6 27/64	1.40	3.1	0.64	22.5	9.5	3/8

*Marked • are oil bath types. *All Models are double clutch types.
*Air Inlet Thread Size: PT or NPT 1/4".

STRAIGHT MODEL

Sq. 9.5 mm (3/8")



FW-44SA~66SA

Model	Bolt Size	Recommended Torque Range				Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N.m	kgf.m	ft.lb			mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
•FW-44SA-1	M5	8~16	0.8~1.6	5.9~11.8	20	5,700	min-1	9.5	3/8	207	8 5/32	0.66	1.4	0.35	12.4	6.3	1/4
•FW-66SA-1	M6	14~26	1.4~2.7	10.3~19.2	32	5,000		9.5	3/8	212	8 11/32	0.78	1.7	0.37	13.1	6.3	1/4

*Marked • are oil bath types. *All Models are double clutch types.
*Air Inlet Thread Size: PT or NPT 1/4".

IMPACT WRENCHES

Fuji Impact Wrenches are suitable for various fastening and unfastening operations. The combination of high torque and fast run down minimise operator fatigue.

PISTOL GRIP MODELS

Sq. 9.5 mm (3/8") ~ 12.7 mm (1/2") ~ 15.9 mm (5/8")



FW-5PX-6



FW-6PM-1



FW-6PL-1



FW-6PX-5~6



FW-6PH-1~11



FW-8PH-3



FW-10PH-1~2



FW-14PX-5



FW-14PH-1~2



FW-14PH-3

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N.m	kgf.m	ft.lb				mm	in	kg	lb	m³/min	ft³/min	mm	in
•FW-5PX-6	M5	8~13	0.8~1.3	5.9~9.6	18	12,000	9.5	3/8	150	5 29/32	0.80	1.8	0.20	7.1	6.3	1/4
•FW-6PM-1	M6	14~26	1.4~2.7	10.3~19.2	32	8,500	9.5	3/8	140	5 33/64	0.92	2.0	0.53	18.7	9.5	3/8
•FW-6PL-1	M6	14~26	1.4~2.7	10.3~19.2	32	10,000	9.5	3/8	175	6 57/64	0.90	2.0	0.20	7.1	9.5	3/8
•FW-6PX-5	M6	11~23	1.1~2.3	8.1~17.0	30	10,000	9.5	3/8	156	6 9/64	1.20	2.6	0.28	9.9	9.5	3/8
•FW-6PX-6	M6	10~18	1.0~1.8	7.4~13.3	25	10,000	9.5	3/8	156	6 9/64	1.20	2.6	0.28	9.9	9.5	3/8
•FW-6PH-1	M8	27~40	2.8~4.1	19.9~29.5	60	9,000	9.5	3/8	147	5 25/32	1.35	3.0	0.35	12.4	9.5	3/8
•FW-6PH-11	M8	27~40	2.8~4.1	19.9~29.5	60	9,000	12.7	1/2	152	6	1.40	3.1	0.35	12.4	9.5	3/8
•FW-8PH-3	M10	42~80	4.3~8.2	31.0~59.0	130	7,500	12.7	1/2	162	6 3/8	1.50	3.3	0.40	14.1	9.5	3/8
•FW-10PH-1	M10	63~120	6.4~12.2	46.5~88.5	160	7,500	12.7	1/2	179	7 3/64	2.00	4.4	0.45	15.8	9.5	3/8
•FW-10PH-2	M10	47~93	4.8~9.5	34.7~68.6	113	7,500	12.7	1/2	179	7 3/64	2.00	4.4	0.45	15.8	9.5	3/8
•FW-14PX-5	M14	100~150	10.2~15.3	73.8~110.6	190	6,500	12.7	1/2	197	7 3/4	3.00	6.6	0.40	14.1	9.5	3/8
•FW-14PH-1	M14	85~140	8.7~14.3	62.7~103.3	180	7,500	12.7	1/2	202	7 15/16	2.56	5.7	0.60	21.2	9.5	3/8
•FW-14PH-2	M14	85~140	8.7~14.3	62.7~103.3	180	7,500	12.7	1/2	202	7 15/16	2.56	5.7	0.60	21.2	9.5	3/8
•FW-14PH-3	M14	85~140	8.7~14.3	62.7~103.3	180	7,500	15.9	5/8	202	7 15/16	2.56	5.7	0.60	21.2	9.5	3/8

*Marked • are oil bath types. *All Models are double clutch types.

*Air Inlet Thread Size: PT or NPT 1/4".

IMPACT WRENCHES

SMALL SIZE STRAIGHT MODELS

Sq. 9.5 mm (3/8") ~ 12.7 mm (1/2")



FW-6SX-5~6



FW-10SX-5



FW-8SH-2



FW-14SX-5

Model	Bolt Size	Recommended Torque Range				Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FW-6SX-5	M6	11-23	1.1-2.3	8.1~17.0	30	10,000	9.5	3/8	223	8 25/32	1.10	2.4	0.30	10.6	9.5	3/8	
•FW-6SX-6	M6	10-18	1.0-1.8	7.4-13.3	25	10,000	9.5	3/8	223	8 25/32	1.10	2.4	0.30	10.6	9.5	3/8	
•FW-8SH-2	M10	35-67	3.6-6.8	25.8-49.4	93	8,000	12.7	1/2	306	12 3/64	1.70	3.7	0.40	14.1	9.5	3/8	
•FW-10SX-5	M10	50-100	5.1-10.2	36.9-73.8	150	8,000	12.7	1/2	317	12 31/64	2.20	4.8	0.40	14.1	9.5	3/8	
•FW-14SX-5	M14	100-150	10.2-15.3	73.8~110.6	190	6,500	12.7	1/2	356	14 1/64	3.00	6.6	0.50	17.7	9.5	3/8	

*Marked • are oil bath types. *All Models are double clutch types.

*Air Inlet Thread Size: PT or NPT 1/4".

ANGLE HEAD MODELS

Sq. 9.5 mm (3/8") ~ 12.7 mm (1/2")



FW-6SCX-6



FW-8SCH-2

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
•FW-6SCX-6	M6	9~18	0.9~1.8	6.6~13.3	20	8,000	9.5	3/8	261	10 9/32	1.60	3.5	0.30	10.5	9.5	3/8
•FW-8SCH-2	M10	33~67	3.4~6.8	24.3~49.4	87	7,500	12.7	1/2	347	13 21/32	2.70	5.9	0.40	14.1	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

ACCESSORIES

CORNER ATTACHMENT (ANGLE HEAD)

The Corner Attachment CA-14A can be mounted on straight or pistol grip type impact wrenches FW-14PX, 14SX to access fastening in confined spaces.



CA-14A



CA-14A + FW-14SX-5



IMPACT WRENCHES + CORNER ATTACHMENT

Model	Side to Center		Square Drive Size		Angle Head Height		Overall Length		Weight (without socket)		Models
	mm	in	mm	in	mm	in	mm	in	kg	lb	
CA-14A	24.5	31/32	12.7	1/2	84	3 5/16	146	5 3/4	1.4	3.0	FW-14PX, 14SX Series

IMPACT WRENCHES

MEDIUM SIZE STRAIGHT MODELS

Sq. 19 mm (3/4") ~ 25.4 mm (1") ~ 31.8 mm (1 1/4")



FW-19Z-5



FW-250-1~2



FW-320-1



FW-420-1C~2C



FW-320-1CL
(Long Anvil Type)
Inside Lever type



FW-420-1L
(Long Anvil Type)
Outside Lever type



FW-420-1CL
Inside Lever type

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N.m	kgf.m			ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min
FW-19Z-5	18	235~450	24.0~45.9	174~333	560	5,000	19.0	3/4	322.0	12 43/64	5.20	0.60	0.6	21.2	9.5	3/8"
•FW-19Z-5C	18	235~450	24.0~45.9	174~333	560	5,000	19.0	3/4	322.0	12 43/64	5.20	0.60	0.6	21.2	9.5	3/8"
FW-250-1	24	380~1,040	38.8~106.1	281~720	1,200	5,000	25.4	1	302.0	11 57/64	6.00	0.70	0.7	24.7	12.7	1/2"
FW-250-1C	24	380~1,040	38.8~106.1	281~720	1,200	5,000	25.4	1	302.0	11 57/64	6.00	0.70	0.7	24.7	12.7	1/2"
FW-250-2	24	380~1,040	38.8~106.1	281~720	1,200	5,000	19.0	3/4	302.0	11 57/64	6.00	0.70	0.7	24.7	12.7	1/2"
FW-250-2C	24	380~1,040	38.8~106.1	281~720	1,200	5,000	19.0	3/4	302.0	11 57/64	6.00	0.70	0.7	24.7	12.7	1/2"
FW-320-1	30~33	600~1,800	61.2~183.6	444~1333	2,300	4,800	25.4	1	353.0	13 29/32	8.70	1.00	1.0	35.3	12.7	1/2"
FW-320-1C	30~33	600~1,800	61.2~183.6	444~1333	2,300	4,800	25.4	1	353.0	13 29/32	8.70	1.00	1.0	35.3	12.7	1/2"
FW-320-1L	30~33	600~1,800	61.2~183.6	444~1333	2,300	4,800	25.4	1	484.0	19 1/16	10.00	1.00	1.0	35.3	12.7	1/2"
FW-320-1CL	30~33	600~1,800	61.2~183.6	444~1333	2,300	4,800	25.4	1	484.0	19 1/16	10.00	1.00	1.0	35.3	12.7	1/2"
•FW-420-1	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	25.4	1	349.0	13 3/7	10.80	1.20	1.2	42.4	19.0	3/4"
•FW-420-1C	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	25.4	1	349.0	13 3/7	10.80	1.20	1.2	42.4	19.0	3/4"
•FW-420-1L	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	25.4	1	501.0	19 3/4	12.50	1.20	1.2	42.4	19.0	3/4"
•FW-420-1CL	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	25.4	1	501.0	19 3/4	12.50	1.20	1.2	42.4	19.0	3/4"
•FW-420-2	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	31.8	1 1/4	351.0	13.81887	10.80	1.20	1.2	42.4	19.0	3/4"
•FW-420-2C	36~42	900~2,500	91.8~255.0	666~1852	2,800	4,500	31.8	1 1/4	351.0	13.81887	10.80	1.20	1.2	42.4	19.0	3/4"

*Air Inlet Thread Size: PT 1/2" except FW-19Z-5/5C : 3/8"

*Marked • are long anvil types. *Models with C are Inside Lever types.

*FW-19Z-5 is single clutch type. Other Models are 2-Jaw clutch types.

IMPACT WRENCHES

MEDIUM SIZE STRAIGHT MODELS

Sq. 19 mm (3/4") ~ 25.4 mm (1")



FW-19PX-5



FW-250P-1~2



FW-320P-1

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
•FW-19PX-5	M18	235~450	24.0~45.9	173.3~331.9	560	5,000	19.0	3/4	239	9 13/32	4.4	9.7	0.6	21.2	9.5	3/8
•FW-250P-1	M24	380~1040	38.8~106.1	280.3~767.0	1200	5,000	25.4	1	228	8 31/32	5.3	11.7	0.7	24.7	12.7	1/2
•FW-250P-2	M24	380~1040	38.8~106.1	280.3~767.0	1200	5,000	19.0	3/4	228	8 31/32	5.3	11.7	0.7	24.7	12.7	1/2
•FW-320P-1	M30-M33	600~1800	61.2~183.6	442.5~1327.5	2300	4,800	25.4	1	268	10 36/64	8.0	17.6	1.0	35.3	12.7	1/2

*Air Inlet Thread Size: PT or NPT 3/8" except FW-19PX-5 1/4".

*FW-19PX-5 is single clutch type. Other Models are 2-Jaw clutch types.

HIGH TORQUE SUPER HEAVY DUTY MODELS

Sq. 38.1 mm (1 1/2") ~ 63.5 mm (2 1/2")



FW-50-7



FW-100-1

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
•FW-50-7	M50	3300~7050	336.6~719.1	2433.8~5199.4	8400	4,000	38.1	1 1/2	500	19 11/16	33.0	72.6	1.9	67.3	19.0	3/4
•FW-75-7	M68	5100~12400	520.2~1264.8	3761.3~9145.0	14000	3,000	63.5	2 1/2	610	24 1/64	60.0	132.0	2.1	74.9	19.0	3/4
•FW-100-1	M76	9250~20800	943.5~2121.6	6821.9~15340.0	22000	2,500	63.5	2 1/2	700	27 9/16	85.0	188.7	3.2	114.1	25.4	1

Air Inlet Thread Size: PT or NPT 1".

All Models are double clutch types.

SCREWDRIVERS

Fuji screwdrivers are suitable for a wide range of screw fastening and disassembly applications.

The compact and lightweight design provides operator comfort. All models are reversible via a reverse lever or push button. Impact clutch type models are all of double clutch design and their high torque and fast run-down minimise operator fatigue. Slip clutch type models are suitable for sheet metal screws and the torque setting can be adjusted easily.

IMPACT CLUTCH TYPE - STRAIGHT MODELS

Hex. 6.35 mm (1/4")



FW-5SXD-7(70)



FW-5SXD-8(80)



FW-6SXD-6(60)

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N.m	kgf.m			ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min
FW-5SXD-7	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	223	8 25/32	0.70	1.5	0.20	7.1	6.3	1/4
FW-5SXD-70	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	223	8 25/32	0.70	1.5	0.20	7.1	6.3	1/4
FW-5SXD-8	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	193	7 19/32	0.65	1.4	0.20	7.1	6.3	1/4
FW-5SXD-80	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	193	7 19/32	0.65	1.4	0.20	7.1	6.3	1/4
FW-6SXD-6	M6	10~18	1.0~1.8	7.4~13.3	25	10,000	6.35	1/4	235	9 1/4	1.10	2.4	0.30	10.6	9.5	3/8
FW-6SXD-60	M6	10~18	1.0~1.8	7.4~13.3	25	10,000	6.35	1/4	235	9 1/4	1.10	2.4	0.30	10.6	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

PISTOL GRIP MODELS

Hex. 6.35 mm (1/4")



FW-5PXD-6(60)



FW-6PLD-1



FW-6PXD-6(60)



FW-6PHD-1



FW-6PMD-1(10)

Model	Bolt Size	Recommended Torque Range				Max Torque	Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
FW-5PXD-6	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	160	6 19/64	0.80	1.8	0.30	10.6	6.3	1/4	
FW-5PXD-60	M5	6~11	0.6~1.1	4.4~8.1	20	12,000	6.35	1/4	160	6 19/64	0.80	1.8	0.30	10.6	6.3	1/4	
FW-6PMD-1	M6	11~22	1.1~2.2	8.1~16.2	34	12,000	6.35	1/4	160	6 19/64	0.80	1.8	0.30	10.6	6.3	1/4	
FW-6PMD-10	M6	11~22	1.1~2.2	8.1~16.2	34	8,500	6.35	1/4	146	5 3/4	0.92	2.0	0.53	18.7	9.5	3/8	
FW-6PLD-1	M6	11~22	1.1~2.2	8.1~16.2	34	10,000	6.35	1/4	182	7 11/64	0.90	2.0	0.20	7.1	9.5	3/8	
FW-6PXD-6	M6	10~18	1.0~1.8	7.4~13.3	25	10,000	6.35	1/4	168	6 5/8	1.20	2.6	0.28	9.9	9.5	3/8	
FW-6PXD-60	M6	10~18	1.0~1.8	7.4~13.3	25	10,000	6.35	1/4	168	6 5/8	1.20	2.6	0.28	9.9	9.5	3/8	
FW-6PHD-1	M8	19~40	1.9~4.1	14.0~29.5	60	9,000	6.35	1/4	154	6 1/6	1.35	3.0	0.35	12.4	9.5	3/8	

Air Inlet Thread Size: PT or NPT 1/4".

Bit Size		FW-*SXD-6, 7, 8, *PXD-6, *PLD-1, *PHD-1 A: 9.5 mm B: 12 mm
		FW-*SXD-60, 70, 80, *PXD-60, *PMD-10 A: 13 mm B: 16 mm

SCREWDRIVERS

IMPACT CLUTCH TYPE

Hex. 6.35 mm (1/4")



FW-44SAD-66SAD



FW-44PAD-66PAD

Model	Bolt Size	Recommended Torque Range			Max Torque	Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	N.m	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
Straight Models																
•FW-44SAD-1	M5	6~13	0.6~1.3	4.4~9.6	20	5,700	6.35	1/4	207	8 5/32	0.66	1.4	0.35	12.4	6.3	1/4
•FW-44SAD-10	M5	6~13	0.6~1.3	4.4~9.6	20	5,700	6.35	1/4	207	8 5/32	0.66	1.4	0.35	12.4	6.3	1/4
•FW-66SAD-1	M6	11~20	1.1~2.0	8.1~14.8	28	5,000	6.35	1/4	218	8 19/32	0.78	1.7	0.37	13.1	6.3	1/4
•FW-66SAD-10	M6	11~20	1.1~2.0	8.1~14.8	28	5,000	6.35	1/4	218	8 19/32	0.78	1.7	0.37	13.1	6.3	1/4
Pistol Grip Models																
•FW-44PAD-2	M5	6~13	0.6~1.3	4.4~9.6	20	6,500	6.35	1/4	132	5 3/16	0.78	1.7	0.60	21.2	6.3	1/4
•FW-44PAD-20	M5	6~13	0.6~1.3	4.4~9.6	20	6,500	6.35	1/4	132	5 3/16	0.78	1.7	0.60	21.2	6.3	1/4
•FW-66PAD-2	M6	11~20	1.1~2.0	8.1~14.8	28	5,000	6.35	1/4	143	5 5/8	0.88	1.9	0.48	16.9	6.3	1/4
•FW-66PAD-20	M6	11~20	1.1~2.0	8.1~14.8	28	5,000	6.35	1/4	143	5 5/8	0.88	1.9	0.48	16.9	6.3	1/4

*Marked • are oil bath types.

Air Inlet Thread Size: PT or NPT 1/4".

SLIP CLUTCH TYPE

Hex. 6.35 mm (1/4")



FD-4
FD-5



FD-4P
FD-5P

Model	Bolt Size	Recommended Torque Range				Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
	mm	N.m	kgf.m	ft.lb	min-1	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in	
Straight Models																
FD-4	M4	1~4	0.1~0.4	0.7~3.0	2,000	6.35	1/4	174	6 27/32	0.6	1.3	0.20	7.1	6.3	1/4	
•FD-5	M5	6~12	0.6~1.2	4.4~8.9	1,600	6.35	1/4	233	9 11/64	1.0	2.2	0.30	10.6	6.3	1/4	
Pistol Grip Models																
FD-4P	M4	1~4	0.1~0.4	0.7~3.0	2,000	6.35	1/4	173	6 13/16	0.8	1.7	0.20	7.1	6.3	1/4	
•FD-5P	M5	6~12	0.6~1.2	4.4~8.9	1,600	6.35	1/4	216	8 1/2	1.2	2.6	0.30	10.6	6.3	1/4	

*Marked • are oil bath types.

Air Inlet Thread Size: PT or NPT 1/4"..

Bit Size		FW-**SAD-1, FD-4, 4P, 5, 5P FW-, **PAD-2 A:9.5mm B:12mm
		FW-**SAD-10 FW-**PAD-20 A:13mm B:16mm

RATCHET WRENCHES

Ratchet Wrenches are used for fastening operations in confined spaces where angle impact tools and nutrunners cannot reach. Reverse operation can be accomplished by simply turning the wrench over.



FRW-6NX-3, ~4(A)



FRW-8NX-2, ~2(A)

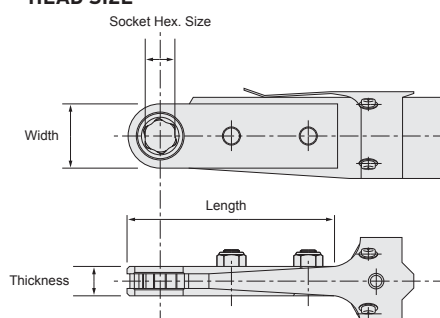


FRW-10N-2



FRW-13N-3, ~4

HEAD SIZE



SOCKET SIZE

Model	Socket Hexagone Size (mm)	
	Standard	Other Sizes
FRW-6NX-3	10	8 • 8W • 10W
FRW-6NX-3A	10	8
FRW-6NX-4	13	12 • 12W • 13W
FRW-6NX-4A	13	12
FRW-8NX-2	14	10 • 12 • 13 • 1/2" • 9/16" • 10W • 12W • 13W • 14W
FRW-8NX-2A	14	10 • 12 • 13
FRW-10N-2	17	13 • 14 • 16 • 9/16" • 5/8" • 14W • 17W
FRW-13N-3	21	18 • 19 • 19W • 21W
FRW-13N-4	24	22 • 26 • 27 • 22W • 24W • 26W • 27W

*Specify the socket size in ordering the tool.

Model	Bolt Size	Max Torque			Free Speed	Hex. Socket Size	Head Size						Overall Length	Weight		Air Consumption (at Load)		Air Hose Size		
							Thickness		Width		Length									
	mm	N.m	kgf.m	ft.lb	min ⁻¹	mm	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRW-6NX-3	M6	10.8	1.1	8.1	200	10	13	33/64	20	25/32	88	3 15/32	316	12 7/16	1.2	2.6	0.25	8.8	9.5	3/8
FRW-6NX-3A	M6	10.8	1.1	8.1	200	10	10	25/64	20	25/32	88	3 15/32	316	12 7/16	1.2	2.6	0.25	8.8	9.5	3/8
FRW-6NX-4	M6	12.7	1.3	9.4	170	13	13	33/64	24	61/64	93	3 21/32	320	12 9/16	1.2	2.6	0.25	8.8	9.5	3/8
FRW-6NX-4A	M6	12.7	1.3	9.4	170	13	10	25/64	24	61/64	93	3 21/32	320	12 9/16	1.2	2.6	0.25	8.8	9.5	3/8
FRW-8NX-2	M8	29.4	3.0	22.1	200	14	18	45/64	25	63/64	108	4 1/4	378	14 57/64	2.2	4.9	0.43	15.2	9.5	3/8
FRW-8NX-2A	M8	29.4	3.0	22.1	200	14	10	25/64	25	63/64	108	4 1/4	378	14 57/64	2.1	4.6	0.43	15.2	9.5	3/8
FRW-10N-2	M10	44.1	4.5	33.1	140	17	18	45/64	33	1 19/64	115	4 17/32	417	16 13/32	2.7	6.0	0.58	20.5	9.5	3/8
FRW-13N-3	M12	58.8	6.0	44.1	130	21	18	45/64	36	1 27/64	116	4 9/16	419	16 1/2	2.7	6.0	0.58	20.5	9.5	3/8
FRW-13N-4	M12	78.4	8.0	58.8	100	24	18	45/64	46	1 13/64	129	4 5/64	431	16 31/32	3.0	6.6	0.58	20.5	9.5	3/8

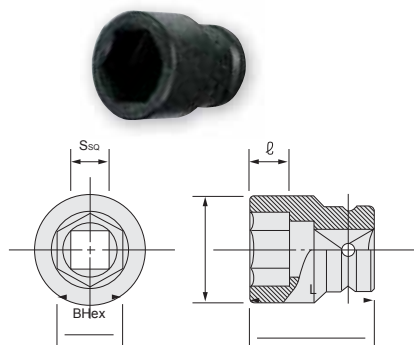
Air Inlet Thread Size: PT or NPT 1/4".

NX models have silencer

ASSEMBLY TOOLS

ACCESSORIES

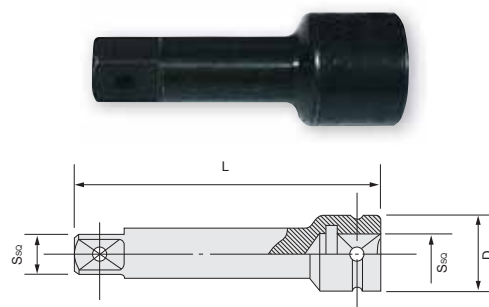
HEXAGONAL SOCKETS



AC N°	Bolt Size		Size					Models
	M	W	S (SQ) mm (in)	B (Hex) mm	L mm	ℓ mm	D mm	
1101	4	-	9.53 (3/8)	7	20	4	13	FET-4~7, FL4~7, FLT-4~7, FL 4S-6S, FLT-4S-6S, FW-5 FW-6, 44~66
1102	5	-		8	25	5	13	
1103	6	1/4		10	25	7	16	
1104	7	-		11	25	7	18	
1133	8	-		12	25	8	19	
1105	8	-		13	27	8	20	
1106	-	5/16	12.7 (1/2)	14	27	8	22	FET9~13 FL9~13 FLT9~20S FW-6PH-11 FW-8 FW-88, 10, 14 except for FW-14PH-3
2101	6	1/4		10	35	7	18	
2118	8	-		12	35	8	21	
2102	8	-		13	35	8	21	
2103	-	5/16		14	38	9	23	
2104	10	3/8		17	38	10	27	
2105	12	7/16	19.0 (3/4)	19	40	12	30	FET-16 FPT-1660 FPW-1660, 2220 FW-19 FW-250-2, 2C FW-250P-2
2106	-	1/2		21	40	14	33	
2107	14	-		22	43	14	34	
4102	-	1/2		21	50	13	33	
4103	14	-		22	50	14	35	
4104	16	-		24	53	14	38	
4105	-	5/8	25.4 (1)	26	53	15	40	FW-250-1, 1C FW-250P-1 FW-320 FW-420
4106	18	-		27	53	15	42	
4107	20	-		30	55	16	46	
4108	22	3/4		32	55	18	49	
5104	-	7/8		35	62	19	55	
5105	24	-		36	62	19	56	
5106	27	1	31.8 (1 1/4)	41	68	26	63	FW-420-2, 2C
5107	30	1-1/8		46	72	26	69	
5108	33	1-1/4		50	75	28	73	
5109	-	1-3/8		54	80	28	78	
5110	36	-		55	80	28	80	
5111	-	1-1/2		58	80	31	83	
5112	39	-	38.1 (1 1/2)	60	80	32	86	FW-50-7
6105	36	-		55	82	27	83	
6106	-	1-1/2		58	85	28	87	
6107	39	-		60	88	30	89	
7107	-	1-5/8		63	100	30	96	
7108	42	-		65	100	32	98	
7109	-	1-3/4	63.5 (2 1/2)	67	100	33	101	FW-75-7 FW-100-1
7110	45	-		70	100	34	104	
7112	48	-		75	105	36	109	
7113	-	2		77	105	38	112	
8110	-	2		77	128	38	122	
8112	56	2-1/4		85	132	43	130	
8114	64	2-1/2	63.5 (2 1/2)	95	140	49	145	FW-75-7 FW-100-1
8115	68	-		100	152	52	150	
8116	72	-		105	154	54	168	
8117	-	3		110	160	60	168	
8120	90	3-1/2		130	170	70	192	
8122	100	4		145	180	79	213	

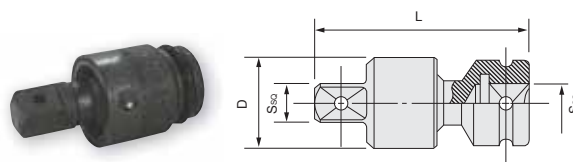
* Other socket sizes are available on request.
FPT-110~770
FLT-4-1~5-1.

EXTENSION BARS



AC N°	Size			Models
	S (SQ) mm (in)	L mm	D mm	
201	9.53 (3/8)	50	19	FET-4~7, FL4~7, FLT-4~7, FL 4S-6S, FLT-4S-6S, FW-5 FW-6, 44~66
1202		75		
1203		100		
1204		150		
2201	12.7 (1/2)	50	25	FET9~13, FL9~13 FLT9~20S, FW-6PH-11, FW-8, FW-88, 10, 14 except for FW-14PH-3
2202		75		
2203		100		
2204		150		
4201	19.0 (3/4)	75	37	FET-16, FPT-1660, FPW-1660, 2220 FW-19, FW-250-2, 2C, FW-250P-2
4202		100		
4203		150		
4204		200		
5201	25.4 (1)	100	49	FW-250-1, 1C FW-250P-1 FW-320 FW-420
5202		160		
5203		200		
5204		300		
6201	31.8 (1 1/4)	150	62	FW-420-2, 2C
6202		200		
6203		250		
6204		300		
7204	38.1 (1 1/2)	200	69	FW-50-7
7201		300		
8201	63.5 (2 1/2)	300	130	FW-75-7 FW-100-1
8202		457		

UNIVERSAL JOINTS



AC N°	Size			Models
	S (SQ) mm (in)	L mm	D mm	
1501	9.53 (3/8)	48	24	FET-4~7, FL4~7, FLT-4~7, FL 4S-6S, FLT-4S-6S, FW-5, FW-6, 44~66
2502	12.7 (1/2)	68	32	FET9~13, FL9~13 FLT9~20S, FW-6PH-11, FW-8, FW-88, 10, 14 except for FW-14PH-3
4502	19.0 (3/4)	112	52	FET-16, FPT-1660, FPW-1660, 2220 FW-19, FW-250-2, 2C, FW-250P-2
5502	25.4 (1)	128	61	FW-250-420
6502	31.8 (1 1/4)	151	74	FW-420-2, 2C
7503	38.1 (1 1/2)	202	102	FW-50-7

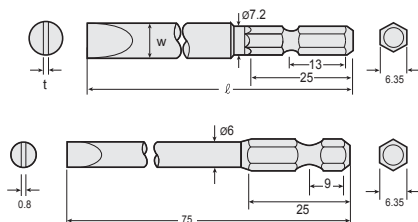
ACCESSORIES

BITS SELECTION GUIDE

Fuji offers two types of screwdriver bits according to their neck length. Select suitable models or bits using the following table. Our screwdriver bits are available in three different categories of hardness to cover almost all applications: H (hard), G (standard), E (soft). The most common hardness bit are listed. Other hardness's are available on request.

Group	Models
(1)	FPT-110D-10, 110SD-10, 330SD-10, FLT-4D-10-6D-10, 4SD-10-6SD-10
	FPW-110D-10, 110SD-10, 330SD-10, FL-4D-10-6D-10, 4SD-10-6SD-10
	FW-5SXD-70, 80, 6SXD-60, 5PXD-60, 6PMD-10, 6PLD-10, 6PXD-60, 6PHD-10, 44SAD-10, 66SAD-10, 44PAD-20, 66PAD-20
(2)	FET-4D-1-6D-1, FPT-110D-1, 110SD-1, 330SD-1, FLT-4D-1-6D-1, 4SD-1-6SD-1
	FPW-110D-1, 110SD-1, 330SD-1, FL-4D-1-6D-1, 4SD-1-6SD-1
	FW-5SXD-7, 8, 6SXD-6, 5PXD-6, 6PMD-1, 6PLD-1, 6PXD-6, 6PHD-1, 44SAD-1, 66SAD-1, 44PAD-2, 66PAD-2, FD-4, 5, 4P, 5P

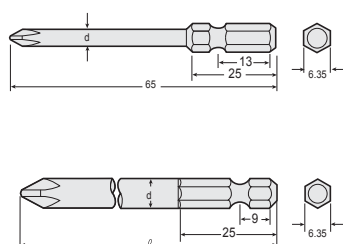
SLOTTED BITS



Thickness mm	Width mm	Length mm	Hardness	AC N°	Model Group
0.8	6	45	G	A166045	(1)
0.8	6	70	G	A166070	(1)
1.0	8	45	G	A168045	(1)
1.0	8	70	G	A168070	(1)
1.2	10	52	G	A161052	(1)
1.2	10	70	G	A161070	(1)
0.8	6	75	E	B356075	(2)

*Minimum order required : 100pcs. per item.

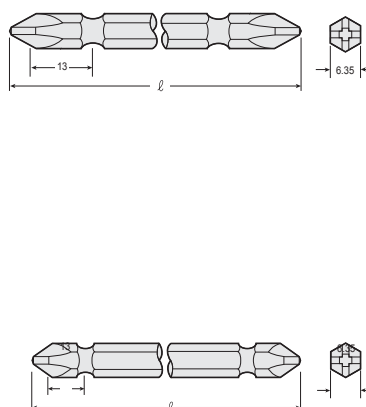
CROSS RECESSED BITS SINGLE-ENDED



Diameter mm	Point Size	Length mm	Hardness	AC N°	Model Group
3	1	65	H	A161065	(1)
4.5	2	65	H	A162065	(1)
7	1	50	H	B351050	(2)
7	1	75	H	B351075	(2)
4.5	1	100	H	B351100	(2)
7	2	50	G	B352050	(2)
7	2	75	G	B352075	(2)
7	2	100	G	B352100	(2)
7	2	150	G	B352150	(2)
4.5	2	100	H	B252100	(2)
7	3	75	E	B353075	(2)
7	3	100	E	B353100	(2)
7	3	150	G	B353150	(2)

*Minimum order required : 100pcs. per item.

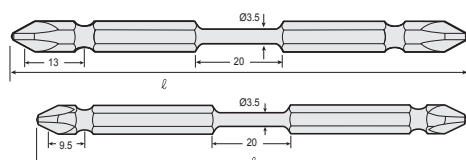
CROSS RECESSED BITS DOUBLE-ENDED



Point Size	Length mm	Hardness	AC N°	Model Group
1	45	H	A141045	(1)
1	65	H	A141065	(1)
1	110	H	A141110	(1)
2	45	G	A142045	(1)
2	65	G	A142065	(1)
2	110	G	A142110	(1)
2	150	G	A142150	(1)
2	200	G	A142200	(1)
2	300	G	A142300	(1)
3	45	E	A143045	(1)
3	65	E	A143065	(1)
3	110	E	A143110	(1)
1	75	H	B431075	(2)
2	50	H	B432050	(2)
2	75	G	B432075	(2)
2	100	G	B432100	(2)
2	150	G	B432150	(2)
2	200	G	B432200	(2)
3	75	E	B433075	(2)
3	100	E	B433100	(2)

*Minimum order required : 100pcs. per item.

CROSS RECESSED BITS DOUBLE-ENDED TORSION TYPE



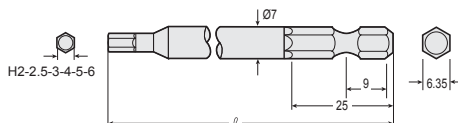
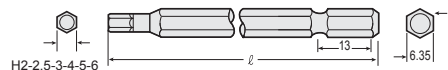
Diameter mm	Point Size	Length mm	Hardness	AC N°	Model Group
3.5	2	65	H	AT142065	(1)
3.5	2	110	H	AT142110	(1)
3.5	2	75	H	BT432075	(2)
3.5	2	100	H	BT432100	(2)

*Minimum order required : 100pcs. per item.

ASSEMBLY TOOLS

ACCESSORIES

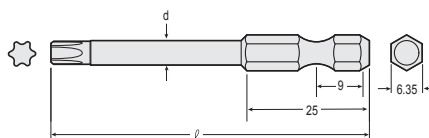
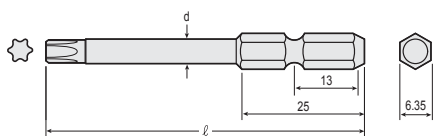
ALLEN BITS



Point Size	Length	Hardness	AC N°	Model Group
	mm			
2	65	H	A16H2065	(1)
2	110	H	A16H2110	(1)
2.5	65	H	A16H25065	(1)
2.5	110	H	A16H25110	(1)
3	65	H	A16H3065	(1)
3	110	H	A16H3110	(1)
4	65	H	A16H4065	(1)
4	110	H	A16H4110	(1)
5	65	G	A16H5065	(1)
5	110	G	A16H5110	(1)
6	65	G	A16H6065	(1)
6	110	G	A16H6110	(1)
2	75	H	B35H2075	(2)
2	100	H	B35H2100	(2)
2.5	75	H	B35H25075	(2)
2.5	100	H	B35H25100	(2)
3	75	H	B35H3075	(2)
3	100	H	B35H3100	(2)
4	75	H	B35H4075	(2)
4	100	H	B35H4100	(2)
5	75	G	B35H5075	(2)
5	100	G	B35H5100	(2)
6	75	G	B35H6075	(2)
6	100	G	B35H6100	(2)

*Minimum order required : 100pcs. per item.

TORX® BITS

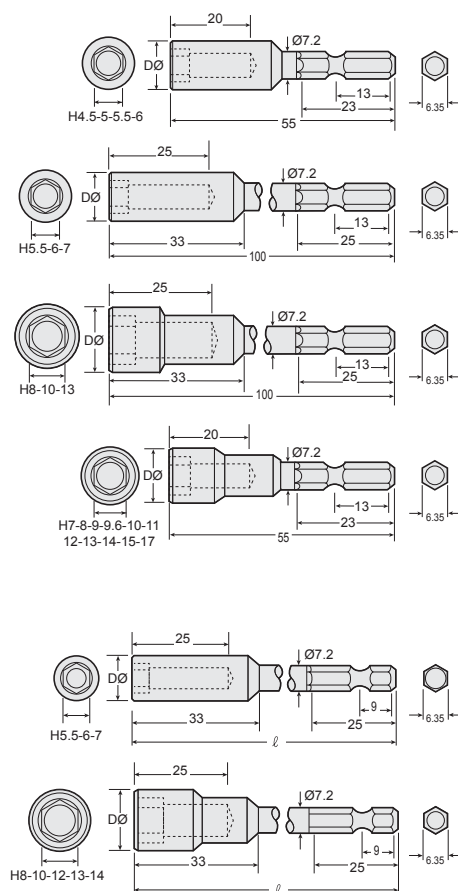


Point Size	Length	Body Diameter	AC N°	Model Group
	mm	mm		
T6	65	4.0	VT6065	(1)
T8	65	4.5	VT8065	(1)
T8	110	4.5	VT8110	(1)
T10	65	4.5	VT10065	(1)
T10	110	4.5	VT10110	(1)
T15	65	4.5	VT15065	(1)
T15	110	4.5	VT15110	(1)
T20	65	5.0	VT20065	(1)
T20	110	5.0	VT20110	(1)
T25	65	5.0	VT25065	(1)
T25	110	5.0	VT25110	(1)
T27	65	5.5	VT27065	(1)
T27	110	5.5	VT27110	(1)
T30	65	6.0	VT30065	(1)
T30	110	6.0	VT30110	(1)
T40	65	H6.35	VT40065	(1)
T40	110	H6.35	VT40110	(1)
T6	75	4.0	JT6075	(2)
T6	100	4.0	JT6100	(2)
T8	75	4.5	JT8075	(2)
T8	100	4.5	JT8100	(2)
T10	75	4.5	JT10075	(2)
T10	100	4.5	JT10100	(2)
T15	75	4.5	JT15075	(2)
T15	100	4.5	JT15100	(2)
T20	75	5.0	JT20075	(2)
T20	100	5.0	JT20100	(2)
T25	75	5.0	JT25075	(2)
T25	100	5.0	JT25100	(2)
T27	75	5.5	JT27075	(2)
T27	100	5.5	JT27100	(2)
T30	75	6.0	JT30075	(2)
T30	100	6.0	JT30100	(2)
T40	75	7.0	JT40075	(2)
T40	100	7.0	JT40100	(2)
T45	75	8.0	JT45075	(2)
T45	100	8.0	JT45100	(2)

*Minimum order required : 100pcs. per item.

ACCESSORIES

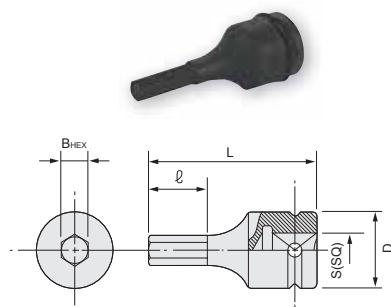
SOCKET HEAD BITS



Point Size	Length mm	Body Diameter mm	AC N°	Model Group
4.5	55	7.5	A2045055	(1)
5	55	8.5	A205055	(1)
5.5	55	10	A2055055	(1)
5.5	100	10	A2055100	(1)
6	55	10	A206055	(1)
6	100	10	A206100	(1)
7	55	13	A207055	(1)
7	100	13	A207100	(1)
8	55	13	A208055	(1)
8	100	13	A208100	(1)
9	55	16	A209055	(1)
10	55	16	A2010055	(1)
10	100	16	A2010100	(1)
11	55	16	A2011055	(1)
12	55	19	A2012055	(1)
12	100	19	A2012100	(1)
13	55	19	A2013055	(1)
13	100	19	A2013100	(1)
14	55	20	A2014055	(1)
15	55	22	A2015055	(1)
17	55	23	A2017055	(1)
5.5	75	10	B4555075	(2)
5.5	100	10	B4555100	(2)
6	100	10	B456100	(2)
7	75	13	B457075	(2)
7	100	13	B457100	(2)
8	75	13	B458075	(2)
8	100	13	B458100	(2)
8	150	13	B458150	(2)
10	75	16	B4510075	(2)
10	100	16	B4510100	(2)
10	150	16	B4510150	(2)
12	100	18	B4512100	(2)
13	75	19	B4513075	(2)
13	100	19	B4513100	(2)
14	100	20	B4514100	(2)

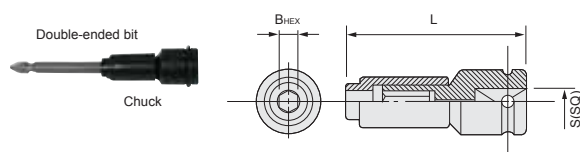
*Minimum order required : 100pcs./item.

ALLEN SOCKETS



AC N°	Size					Models
	S (SQ) mm (in)	B(HEX) mm	L mm	ℓ mm	D mm	
HG-3-4	9.53 (3/8)	4	50	15	19	FPT-110~770
HG-3-5		5	50	17	19	FLT-4-1~9-1
HG-3-6		6	50	18	19	FL-4-1~9-1
HG-3-8		8	60	23	20	FPW-110~770
HG-3-10		10	60	27	20	FW-5, FW-6, 44~66
HG-4-6	12.7 (1/2)	6	60	18	25	FLT-11-1~20S-1
HG-4-8		8	60	23	25	FL-11-1~13-1
HG-4-10		10	68	27	27	FW-6PH-11, 8, 88
HG-4-12		12	68	30	27	FW-10, 14 except for FW-14PH-3
HG-4-14		14	78	40	28	

CHUCKS FOR WRENCHES FOR USE OF BITS



AC N°	Size			Models
	S (SQ) mm (in)	B (Hex) mm (in)	L mm	
DC-1	9.53 (3/8)	6.35 (1/4)	51	FPT-110, FLT-4-1~9-1 FPW-110, FL-4-1~9-1, FW-5, 6, 44~66
DC-2	12.7 (1/4)	8.00 (5/16)	56	FLT-11-1~20S-1 - FL-11-1~13-1 FW-6PH-11, 8, 88, 10, 14 except for FW-14PH-3

TOOL COVER FOR FPW SERIES



AC N°	Models
TCV-1	FL-5-1~6-1
TCV-2	FL-7-1

NOTES



ABRASIVE TOOLS

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INSTRUCTION AND WARNING FOR SAFETY USE

GRINDERS AND SANDERS

INTENDED USE

The tool is designed to be used with abrasive product for grinding, cutting and sanding materials. Do not use the tool for any other purpose.

PROTECTIVE EQUIPMENT

Always wear necessary protective equipment such as an eye protector, an ear protector, a face shield, a safety apron, a helmet, gloves and other necessary protective clothing. Use protective barriers where necessary



MAXIMUM SPEEDS OF ABRASIVE PRODUCT AND TOOL

Always check the spindle speed of the tool when mounting the abrasive product. Ensure that the maximum free speed rating of the abrasive product is above that of the tool in use.

WHEEL SIZES OF ABRASIVE PRODUCT AND PERIPHERAL SPEED

The following is a reference of Grinding wheel size / Peripheral speed / Maximum free speed. When using abrasive product, on which the peripheral speed is shown instead of the maximum allowable free speed, refer to the reference.

CORRECT WHEEL GUARD AND FLANGES FOR GRINDER

Always use the wheel guard and wheel flanges supplied with the tool and ensure that they are mounted correctly with the appropriate tightness when mounting the abrasive product. Only trained & qualified personnel should mount the abrasive product. Do not use a wheel guard or the flanges if they are damaged or worn. Do not modify or repair a wheel guard or flanges.

CORRECT ABRASIVE PRODUCT TO CORRECT TOOL

Make sure the dimensions of the abrasive product are compatible with the tool and that the abrasive product fits the spindle of the tool.

MOUNTING AND DISMOUNTING ABRASIVE PRODUCT

When mounting and dismounting the abrasive product, make sure to disconnect tool. Make sure the dimensions of the abrasive product are compatible with the tool and that the abrasive product fits the spindle of the tool.

TOOL WITH SPEED GOVERNOR

For the grinder with a speed governor, check the maximum free speed regularly.

Make it a rule to check the maximum free speed, whenever before use.

Wheel diameter - Peripheral speed - Maximum free speed

Grinding Wheel diameter	Peripheral Speed (m/s)														
	10	15	20	25	28	30	33	35	40	45	48	50	60	70	80
mm	Maximum free speed (min ⁻¹)														
25	7639	11459	15279	19099	21390	22918	25210	26738	30558	34377	36669	38197	45837	53476	61115
40	4775	7162	9549	11937	13369	14324	15756	16711	19099	21486	22918	23873	28648	33423	38197
50	3820	5730	7639	9549	10695	11459	12605	13369	15279	17189	18335	19099	22918	26738	30558
63	3032	4547	6063	7579	8488	9095	10004	10610	12126	13642	14551	15158	18189	21221	24252
80	2387	3581	4775	5968	6685	7162	7878	8356	9549	10743	11459	11937	14324	16711	19099
100	1910	2865	3820	4775	5348	5730	6303	6685	7639	8594	9167	9549	11459	13369	15279
115	1661	2491	3321	4152	4650	4982	5480	5813	6643	7473	7972	8304	9964	11625	13286
125	1528	2292	3056	3820	4278	4584	5042	5348	6112	6875	7334	7639	9167	10695	12223
150	1273	1910	2546	3183	3565	3820	4202	4456	5093	5730	6112	6366	7639	8913	10186
180	1061	1592	2122	2653	2971	3183	3501	3714	4244	4775	5093	5305	6366	7427	8488
200	955	1432	1910	2387	2674	2865	3151	3342	3820	4297	4584	4775	5730	6685	7639
230	830	1246	1661	2076	2325	2491	2740	2906	3321	3737	3986	4152	4982	5813	6643
250	764	1146	1528	1910	2139	2292	2521	2674	3056	3438	3667	3820	4584	5348	6112
300	637	955	1273	1592	1783	1910	2101	2228	2546	2865	3056	3183	3820	4456	5093

ABRASIVE TOOLS FEATURES

REAR EXHAUST

The rear exhaust reduces the risk of scattering debris such as grindings, shavings, etc. due to the exhaust air direction.

In addition, when using the inlet and exhaust hoses supplied with the tools, this helps to reduce the sound level.



LOCKING LEVER HANDLE

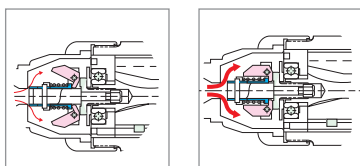
The locking lever helps to reduce the risk of inadvertent starting of the tool. The operator needs to push the locking lever, or the locking button, to start operation of the tool. When the lever is released, the tool automatically reverts to the locked condition.



CENTRIFUGAL SPEED GOVERNOR

The speed governor maintains the working speed of the tool to a better degree than a conventional tool without a governor. Consequently, the abrasive life is improved due to the stability of the cutting speed. It is less susceptible to changes in air pressure and wear of the governor parts.

ANGLE, STRAIGHT, VERTICAL GRINDERS



ACCURATE COLLET ALIGNMENT

The collet is mounted in the spindle in order to provide minimal deflection.

Furthermore, the compact collet nut enables finishing operations in confined spaces.



ANTI-FREEZING SWIVEL SILENCER

The anti-freezing swivel silencer minimises the effect of freezing during operation of the tool. In addition, it also enables the operator to direct the exhaust air to provide maximum operator comfort.

ANGLE GRINDERS EXCEPT FA-2C, 3CX, 150K SERIES



STURDY STEEL HOUSING

Die Grinders feature a compact and durable steel housing for longer service life.



GEAR COOLING DEVICE

The patented gear cooling device helps to minimise wearing of the bevel gear and pinion by metering some exhaust air through them and providing a cooling effect.

ANGLE GRINDERS



PENCIL GRINDER / TURBO GRINDERS

PENCIL GRINDER

Pencil Grinders are excellent tools for deburring, contouring and light grinding when used with a rotary burr. The small compact diameter, and light weight, aid precise application.



FG-06-1



FG-06-S-1



Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FG-06-1	3	1/8	10	3/8	6	1/4	60,000	100	0.14	153	6 1/32	0.2	0.4	0.17	6.0	4.0	5/32
FG-06-S-1	3	1/8	10	3/8	6	1/4	60,000	107	0.15	166	6 17/32	0.13	0.28	0.17	6.0	4.0	5/32

Air Inlet Thread Size: PT or NPT 1/4"

TURBO GRINDERS

Super high speed operation provides a more precise finish. Ø3mm or Ø1/8" and Ø6mm or Ø1/4" collet sizes are available to suit the application.



TURBO-100



TURBO-100A

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
TURBO-100	3	-	8	5/16	6	1/4	80,000~100,000	50	0.07	153	6 1/32	0.2	0.4	0.28	9.8	4.0	5/32
TURBO-100A	6	1/4	8	5/16	8	5/16	80,000~100,000	50	0.07	155	6 7/64	0.2	0.4	0.28	9.8	4.0	5/32

Air Inlet Thread Size: PT or NPT 1/8"

Accessories Provided for Turbo Series

- F-101** Open-End Wrench (1)
- F-301** Hex Wrench (1)
- IH-4B** Inlet Hose (1)
- AL3000-1/4** Oiler (1)
- F-501** Pin Wrench (1)
- BB-SF0011** Ball Bearing (2)

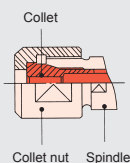


DIE GRINDERS

REAR EXHAUST MODEL (WITH HOSE)

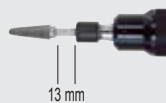


COLLET CHUCK FOR U, D, UX, DX MODEL



- n Great accuracy
- n Strong fastening
- n Great durability

DIAMETER AND OVERHANG



Please use correct diameter of burrs for the speed. Available speed is limited by diameter and overhang of burrs applied. We show the maximum diameter in the table with overhang 13 mm.

ROLL THROTTLE MODELS



FG-13-2



FG-13-20



FG-13X-2



FG-13X-20

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front Exhaust Type																	
FG-13-2	3	1/8	13	1/2	10	3/8	30,000	150	0.21	150	5 29/32	0.3	0.3	2.5	8.8	6.3	1/4
FG-13-20	3	1/8	13	1/2	10	3/8	30,000	150	0.21	150	5 29/32	0.4	0.9	2.5	8.8	6.3	1/4
Rear Exhaust Type																	
FG-13X-2	3	-	13	1/2	10	3/8	30,000	130	0.17	179	7 3/64	0.4	0.9	0.21	7.4	6.3	1/4
FG-13X-20	3	1/8	13	1/2	10	3/8	30,000	130	0.17	179	7 3/64	0.4	0.9	0.21	7.4	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4"

LEVER HANDLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-13-1



FG-13-10

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front Exhaust Type																	
FG-13-1	3	1/8	13	1/2	10	3/8	30,000	150	0.21	158	6 7/32	0.3	0.3	2.5	8.8	6.3	1/4
FG-13-10	3	-	13	1/2	10	3/8	30,000	150	0.21	158	6 7/32	0.4	0.9	2.5	8.8	6.3	1/4
Rear Exhaust Type																	
FG-13X-1	3	1/8	13	1/2	10	3/8	30,000	150	0.17	183	7 13/64	0.4	0.9	0.21	7.4	6.3	1/4
FG-13X-10	3	-	13	1/2	10	3/8	30,000	150	0.17	183	7 13/64	0.4	0.9	0.21	7.4	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER HANDLE MODELS



FG-13X-1F



FG-13X-10F

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front Exhaust Type																	
FG-13-1F	3	1/8	13	1/2	10	3/8	30,000	150	0.21	158	67/32	0,3	0,3	2,5	8,8	6,3	1/4
FG-13-10F	3	1/8	13	1/2	10	3/8	30,000	150	0.21	158	67/32	0,4	0,9	2,5	8,8	6,3	1/4
Rear Exhaust Type																	
FG-13X-1F	3	1/8	13	1/2	10	3/8	30,000	130	0.17	183	7 13/64	0,4	0,9	0,21	7,4	6,3	1/4
FG-13X-10F	3	-	13	1/2	10	3/8	30,000	130	0.17	183	7 13/64	0,4	0,9	0,21	7,4	6,3	1/4

Air Inlet Thread Size: PT or NPT 1/4"

DIE GRINDERS

FG-12U SERIES, FG-25D SERIES AND FG-50D SERIES DIE GRINDER

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-12U-2



FG-25D-2



FG-25DX-2



FG-50K-1

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Side Exhaust Type																	
FG-12U-2	3, 6	1/4	13	1/2	8	5/16	43,000	130	0.18	190	7 31/64	0.6	1.3	0.30	10.6	6.3	1/4
FG-25D-2	3, 6	-	25	1	13	1/2	24,000	250	0.34	202	7 61/64	0.8	1.8	0.40	14.1	9.5	3/8
FG-50D-2	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	213	8 25/64	0.9	2.0	0.45	15.9	9.5	3/8
FG-50K-1	6	-	20		20	7/8	19,000	320	0.43	236	9 19/64	0.8	1.8	0.42	15.9	9.5	3/8
Rear Exhaust Type																	
FG-12UX-2	3, 6	1/4	13	1/2	8	5/16	43,000	130	0.18	211	8 5/16	0.6	1.3	0.30	10.6	6.3	1/4
FG-25DX-2	6	-	25	1	13	1/2	24,000	250	0.34	227	8 15/16	0.7	1.8	0.40	14.1	9.5	3/8
FG-50DX-2	6	-	32	1 1/4	22	7/8	18,000	340	0.46	237	9 21/64	0.9	2.0	0.45	15.9	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LEVER HANDLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-12U-1



FG-12UX-1



FG-25D-1

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front Exhaust Type																	
FG-12U-1	3,6	-	13	1/2	8	5/16	43,000	130	0.18	188	7 13/32	0.6	1.3	0.30	10.6	6.3	1/4
FG-25D-1	6	1/4	25	1	13	1/2	24,000	250	0.34	198	7 51/64	0.7	1.8	0.40	14.1	9.5	3/8
FG-50D-1	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	210	7 17/64	0.9	2.0	0.45	15.9	9.5	3/8
Rear Exhaust Type																	
FG-12UX-1	3,6	1/4	13	1/2	8	5/16	43,000	130	0.18	213	8 25/64	0.7	1.5	0.30	10.6	6.3	1/4
FG-25DX-1	6	1/4	25	1	13	1/2	24,000	250	0.34	230	9 1/16	0.8	1.8	0.40	14.1	9.5	3/8
FG-50DX-1	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	243	9 9/16	0.9	2.0	0.45	15.9	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER HANDLE MODELS



FG-25D-1F



FG-25DX-1F

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Front Exhaust Type																	
FG-12U-1F	3,6	-	13	1/2	8	5/16	43,000	130	0.18	188	7 13/32	0,6	1,3	0,30	10,6	6,3	1/4
FG-25D-1F	6	1/4	25	1	13	1/2	24,000	250	0.34	198	7 51/64	0.7	1.8	0.40	14,1	9,5	3/8
FG-50D-1F	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	210	7 17/64	0.9	2.0	0.45	15.9	9,5	3/8
Rear Exhaust Type																	
FG-12UX-1F	6	1/4	13	1/2	8	5/16	43,000	130	0.18	213	8 25/64	0.7	1.5	0.30	10,6	6,3	1/4
FG-25DX-1F	6	1/4	25	1	13	1/2	24,000	250	0.34	230	9 1/16	0.8	1.8	0.40	14,1	9,5	3/8
FG-50DX-1F	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	243	9 9/16	0.9	2.0	0.45	15.9	9,5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

DIE GRINDERS FOR MOUNTED POINT

REAR EXHAUST MODEL (WITH HOSE)



COLLET BUSH (OPTION FOR 6MM COLLETS)



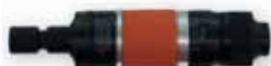
Please use it as an adapter when using 3 mm diameter mounted points

DIAMETER AND OVERHANG



Please use correct diameter of mounted points for the speed. Available speed is limited by diameter and overhang of mounted points applied. We show the max. dia in the table with overhang 13 mm.

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-26H-2



FG-26HX-2



FG-50H-2



FG-50HX-2

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front/Side Exhaust Type																	
FG-26H-2	6	1/4	25	1	13	1/2	24,000	250	0.34	152	5 63/64	0.5	1.2	0.5	17.7	9.5	3/8
FG-50H-2	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	180	7 3/32	0.8	1.8	0.43	15.2	9.5	3/8
Rear Exhaust Type																	
FG-26HX-2	6	-	13	1/2	10	3/8	24,000	250	0.34	188	7 13/32	0.4	0.9	0.21	7.4	9.5	3/8
FG-50HX-2	6	-	13	1/2	10	3/8	18,000	340	0.46	214	8 27/64	0.4	0.9	0.21	7.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LEVER HANDLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-26H-1



FG-26HX-1



FG-50H-1



FG-50HX-1

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Front/Side Exhaust Type																	
FG-26H-1	6	1/4	25	1	13	1/2	24,000	250	0.34	152	5 63/64	0.5	1.2	0.5	17.7	9.5	3/8
FG-50H-1	6	-	32	1 1/4	22	7/8	18,000	340	0.46	180	7 3/32	0.8	1.8	0.43	15.2	9.5	3/8
Rear Exhaust Type																	
FG-26HX-1	6	1/4	13	1/2	10	3/8	24,000	250	0.34	188	7 13/32	0.5	1.2	0.5	17.7	9.5	3/8
FG-50HX-1	6	-	13	1/2	10	3/8	18,000	340	0.46	214	8 27/64	0.8	1.8	0.43	15.2	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER HANDLE MODELS



FG-26HX-1F



FG-50HX-1F

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Front/Side Exhaust Type																	
FG-26H-1F	6	1/4	25	1	13	1/2	24,000	250	0.34	152	5 63/64	0.5	1.2	0.5	17.7	9.5	3/8
FG-50H-1F	6	1/4	32	1 1/4	22	7/8	18,000	340	0.46	180	7 3/32	0.8	1.8	0.43	15.2	9.5	3/8
Rear Exhaust Type																	
FG-26HX-1F	6	1/4	13	1/2	10	3/8	24,000	250	0.34	188	7 13/32	0.5	1.2	0.5	17.7	9.5	3/8
FG-50HX-1F	6	1/4	13	1/2	10	3/8	18,000	340	0.46	214	8 27/64	0.8	1.8	0.43	15.2	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"



FG-25T

NOT AVAILABLE FOR CE AND ANSI/NA MARKETS

Model	Collet Size		Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			Mounted Wheel		Burr Head												
	mm	in	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FG-25T	6	-	25	1	13	1/2	20 000	250	0.34	152	5 63/64	0.5	1.2	0.5	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

NOT AVAILABLE FOR CE AND ANSI/NA MARKETS



FG-50-25

Model	Max. Dia. (Grinding Wheel)	Max. Dia.				Free Speed	Power			Overall Length		Weight		Max. Air Consumption		Air Hose Size	
		Mounted Wheel		Burr Head													
		mm	in	mm	in												
FG-50-25	40 x - x -	-	25	1	13	1/2	18,000	250	0.34	152	5 63/64	0.5	1.2	0.5	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LOW SPEED GRINDERS

These powerful Grinders are designed with a gear reduction mechanism and speed control governor to maintain the power and rotational speed. Their light weight and compact design make them excellent for polishing, grinding, paint removal and can be used with non-woven cloth, brushes, flap wheels and buffs.

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-3H-6

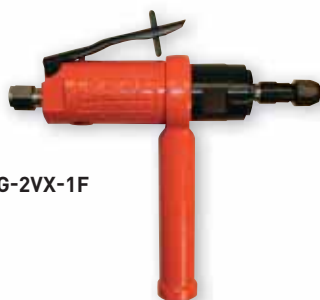


FG-4VA-1, 2

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
Roll Throttle Models														
FG-3H-6	65 x 25 x 9.53	2-1/2 x 1 x 3/8	9,700	W3/8-16	520	0.9	329	12 61/64	1.6	3.52	0.55	19.4	9.5	3/8
FG-4VA-1	75 x 13 x 9.53	3 x 1/2 x 3/8	7,500	W3/8-16	490	0.63	385	15 5/32	2.3	5.07	0.90	31.8	12.7	1/2
FG-4VA-2	100 x 19 x 12.7	4 x 3/4 x 1/2	6,300	W1/2-12	490	0.63	391	15 25/64	2.3	5.07	0.90	31.8	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8"

LOCKING LEVER HANDLE MODELS



FG-2VX-1F



FG-3VX-1F, 6F

Model	Collet Size		Free Speed min ⁻¹	Spindle Thread Size in	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Locking Lever Handle - Rear Exhaust Models														
FG-2VX-1F	6	1/4	4,300	3/8-24UNF	290	0.39	216	8 1/2	0.9	2.0	0.34	12.0	9.5	3/8
FG-3VX-1F	6	-	7,600	W3/8-16	280	0.37	331	13 1/32	1.4	3.1	0.45	15.9	9.5	3/8
FG-3VX-6F	6	-	12,000	W3/8-16	310	0.41	331	13 1/32	1.4	3.1	0.47	16.6	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"



FG-3VX-2F, 3F

Model	Max. Dia. (Grinding Wheel)		Free Speed min ⁻¹	Spindle Thread Size in	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Locking Lever Handle - Rear Exhaust Models														
FG-3VX-2F	75 x 19 x 9.53	3 x 3/4 x 3/8	9,500	W3/8-16	290	0.39	316	12 7/16	• 1.4	• 3.1	0.47	16.6	9.5	3/8
FG-3VX-3F	125 x 19 x 9.53	5 x 3/4 x 3/8	7,600	W3/8-16	280	0.37	316	12 7/16	• 1.4	• 3.1	0.45	15.9	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4" - Model marked • are without wheel guard

STRAIGHT GRINDERS

All Fuji grinders are designed and produced using Fuji's latest grinder technology. Fuji straight grinders are equipped with centrifugal speed control governors, noise reducing design. These standard features assure high performance and smooth operation.

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-3H-1, 2



FG-4H-1, 2



FG-5H-1, 2, 3 6H-1



FG-8H-1

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
Roll Throttle Models														
FG-3H-1	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	14,600	W3/8-16	520	0.7	317	12 31/64	1.5	3.3	0.55	19.4	9.5	3/8
FG-3H-2	75 x 13 x 9.53	3 x 1/2 x 3/8	12,700	W3/8-16	520	0.7	317	12 31/64	1.5	3.3	0.55	19.4	9.5	3/8
FG-4H-1	100 x 19 x 9.53	4 x 3/4 x 3/8	9,500	W3/8-16	700	0.9	385	15 5/32	2.2	4.8	0.80	28.2	12.7	1/2
FG-4H-2	100 x 19 x 12.7	4 x 3/4 x 1/2	9,500	W1/2-12	700	0.9	391	15 25/64	2.2	4.8	0.80	28.2	12.7	1/2
FG-5H-1	125 x 19 x 12.7	5 x 3/4 x 1/2	7,600	W1/2-12	960	1.3	405	15 15/16	2.7	5.9	1.00	35.3	12.7	1/2
FG-5H-2	125 x 19 x 15.88	5 x 3/4 x 5/8	7,600	5/8-11UNF	960	1.3	410	16 9/64	2.8	6.2	1.00	35.3	12.7	1/2
FG-5H-3	150 x 25 x 15.88	6 x 1 x 5/8	6,300	5/8-11UNF	960	1.3	421	16 37/64	2.8	6.2	0.90	31.8	12.7	1/2
FG-6H-1	150 x 25 x 15.88	6 x 1 x 5/8	6,300	5/8-11UNF	1000	1.4	434	17 3/32	3.5	7.7	1.20	42.3	12.7	1/2
FG-8H-1	205 x 25 x 15.88	8 x 1 x 5/8	4,600	5/8-11UNF	1470	2	472	18 37/64	5.4	11.9	1.60	56.5	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8" except FG-8H-1: 1/2"

LOCKING LEVER HANDLE MODELS



FG-3H-1F, 2F



FG-4H-1F, 2F



FG-5H-1M, 2M, 6H-1M



FG-8H-1M, 2M



FG-8H-1C

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Locking Lever Handle Models														
FG-3H-1F	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	14,600	W3/8-16	480	0.64	342	13 15/32	1.7	3.7	0.55	19.4	9.5	3/8
FG-3H-2F	75 x 13 x 9.53	3 x 1/2 x 3/8	12,700	W3/8-16	480	0.64	342	13 15/32	1.7	3.7	0.55	19.4	9.5	3/8
FG-4H-1F	100 x 19 x 9.53	4 x 3/4 x 3/8	9,500	W3/8-16	700	0.94	408	16 1/16	2.3	5.1	0.80	28.2	12.7	1/2
FG-4H-2F	100 x 19 x 12.7	4 x 3/4 x 1/2	9,500	W1/2-12	700	0.94	414	16 19/64	2.3	5.1	0.80	28.2	12.7	1/2
FG-5H-1M	125 x 19 x 12.7	5 x 3/4 x 1/2	7,600	W1/2-12	960	1.28	506	19 59/64	2.5	5.5	1.00	35.3	12.7	1/2
FG-5H-2M	125 x 19 x 15.88	5 x 3/4 x 5/8	7,600	5/8-11UNF	960	1.28	511	20 7/64	2.5	5.5	1.00	35.3	12.7	1/2
FG-6H-1M	150 x 25 x 15.88	6 x 1 x 5/8	6,300	5/8-11UNF	1000	1.38	531	20 29/32	3.4	7.5	1.20	42.4	12.7	1/2
FG-8H-1M	205 x 25 x 15.88	8 x 1 x 5/8	4,600	5/8-11UNF	1470	1.97	556	21 57/64	5.5	12.1	1.60	56.5	12.7	1/2
FG-8H-2M	180 x 25 x 15.88	7 x 1 x 5/8	5,300	5/8-11UNF	1620	2.17	556	21 57/64	5.4	11.8	1.80	63.5	12.7	1/2
Grip Handle Models														
FG-8H-1C	205 x 25 x 15.88	8 x 1 x 5/8	4,600	5/8-11UNF	1470	1.97	538	21 3/16	5.6	12.3	1.60	56.5	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8" except FG-8H-1M/2M - FG-8H-1C: 1/2"

STRAIGHT GRINDERS

ROLL HANDLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-26L-1, 1N



FG-26-HL-2, 2N

Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed min ⁻¹	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in		W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FG-26L-1	6	1/4	25 x 13 x -	1 x 1/2 x -	24,000	240	0.3	297	11 11/16	0.9	2	0.40	14.12	9.5	3/8
FG-26L-1N	6	-	25 x 13 x -	1 x 1/2 x -	24,000	240	0.3	307	12 3/32	0.9	2	0.40	14.12	9.5	3/8
FG-26HL-2	6	1/4	25 x 13 x -	1 x 1/2 x -	24,000	240	0.3	263	10 23/64	0.7	1.54	0.55	19.42	9.5	3/8
FG-26HL-2N	6	-	25 x 13 x -	1 x 1/2 x -	24,000	240	0.3	273	10 3/4	0.7	1.54	0.55	19.42	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"



FG-3HA-1, 2

FOR MOUNTED POINT

Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed min ⁻¹	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in		W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Roll Throttle Models															
FG-3HA-1	6	-	45 x 13 x 6	1 25/32 x 1/2 x 1/4	14,000	450	0.6	316	12 7/16	1.3	2.8	0.50	17.6	9.5	3/8

Air Inlet Thread Size: PT or NPT 3/8"

FOR SHANK BRUSH

Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in	min ⁻¹	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Roll Throttle Models															
FG-3HA-2	6	-	15 x 50 x 6	19/32 x 2 x 1/4	12,000	450	0.6	316	12 7/16	1.3	2.8	0.45	17.6	9.5	3/8

Air Inlet Thread Size: PT or NPT 3/8"

LOCKING LEVER HANDLE MODELS



FG-26L-1BF



FG-26HL-1F



FG-3H-5F

Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in		W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Locking Lever Handle Models															
FG-26L-1BF	6	1/4	25 x 13 x –	1 x 1/2 x –	24,000	220	0.30	306	12 3/64	0.9	2.0	0.40	14.1	9.5	3/8
FG-26HL-1F	6	1/4	45 x 13 x –	1 25/32 x 1/2 x –	24,000	220	0.30	273	10 3/4	0.7	3.3	0.55	19.4	9.5	3/8
FG-3H-5F	6	1/4	45 x 13 x –	1 25/32 x 1/2 x –	14,600	480	0.64	367	14 29/64	1.5	3.3	0.55	19.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4", FG-3H-5, 5F: PT or NPT 3/8".

EXTENDED GRINDERS

Fuji extended grinders are ideal for grinding operations in confined spaces or inside pipes. A wide range of Grinders is offered to cover various grinding operations.

ROLL HANDLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-50L-1



FG-50Y-1



FG-3HL-1



FG-3HY-1



FG-4HL-1



FG-5HL-1~13

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
Roll Throttle Models														
FG-50L-1	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	290	0.4	307	12 3/32	1.4	3.1	0.43	15.2	9.5	3/8
FG-50Y-1	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	290	0.4	523	20 19/32	2.0	4.4	0.43	15.2	9.5	3/8
FG-3HL-1	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	12,000	W3/8-16	520	0.7	522	20 35/64	1.9	4.2	0.55	19.4	9.5	3/8
FG-3HY-1	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	12,000	W3/8-16	520	0.7	702	27 41/64	2.3	5.1	0.55	19.4	9.5	3/8
FG-4HL-1	75 x 19 x 9.53	3 x 3/4 x 3/8	12,000	W3/8-16	690	0.9	585	23 1/32	2.7	5.9	0.80	28.2	12.7	1/2
FG-5HL-1	75 x 19 x 12.7	3 x 3/4 x 1/2	12,000	W1/2-12	960	1.3	953	37 33/64	5.3	11.7	1.00	35.3	12.7	1/2
FG-5HL-2	100 x 19 x 12.7	4 x 3/4 x 1/2	9,000	W1/2-12	960	1.3	953	37 33/64	5.3	11.7	1.00	35.3	12.7	1/2
FG-5HL-11	75 x 19 x 9.53	3 x 3/4 x 3/8	12,000	W3/8-16	960	1.3	599	23 37/64	3.3	7.3	1.00	35.3	12.7	1/2
FG-5HL-13	100 x 16 x 12.7	4 x 5/8 x 1/2	9,000	W3/8-16	960	1.3	599	23 37/64	3.3	7.3	1.00	35.3	12.7	1/2

Air Inlet Thread Size: 3/8" except FG-50L-1, FG-50Y-1: 1/4"

LOCKING LEVER HANDLE MODELS



FG-50L-1BF



FG-3HL-1F



FG-50Y-1BF



FG-4HL-1F



FG-5HL-2M

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Locking Lever Handle Models														
FG-50L-1BF	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	290	0.39	316	12 7/16	1.4	3.1	0.43	15.2	9.5	3/8
FG-50Y-1BF	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	290	0.39	532	20 15/16	2.0	4.4	0.43	15.2	9.5	3/8
FG-3HL-1F	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	12,000	W3/8-16	480	0.64	547	21 17/32	1.9	4.2	0.55	19.4	9.5	3/8
FG-4HL-1F	75 x 19 x 9.53	3 x 3/4 x 3/8	12,000	W3/8-16	740	0.99	615	24 7/32	2.6	5.7	0.80	28.2	12.7	1/2
FG-5HL-2M	100 x 19 x 12.7	4 x 3/4 x 1/2	9,000	W1/2-12	960	1.28	1,050	41 11/32	5.4	11.9	1.00	35.3	12.7	1/2

*FG-50L, 50Y series: 1/4" Air Inlet. FG-3HL, 4HL, 5HL series: 3/8" Air Inlet.



EXTENDED GRINDERS

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FG-3HL-1



FG-50Y-1A



FG-3HL-1A



FG-3HY-1A



FG-4HL-1A



FG-5HL-1A~13A

FOR INNER GRINDING

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	kg	lb	m³/min	ft³/min
Roll Throttle Models														
FG-50L-1A	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	294	0.4	307	16 3/32	1.3	2.9	0.43	15.2	9.5	3/8
FG-50Y-1A	50 x 13 x 9.53	2 x 1/2 x 3/8	18,000	W3/8-16	294	0.4	523	20 19/32	1.9	4.2	0.43	15.2	9.5	3/8
FG-3HL-1A	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	12,000	W3/8-16	520	0.7	522	20 35/64	1.8	3.9	0.55	19.4	9.5	3/8
FG-3HY-1A	65 x 13 x 9.53	2 1/2 x 1/2 x 3/8	12,000	W3/8-16	520	0.7	702	27 41/64	2.2	4.8	0.55	19.4	9.5	3/8
FG-4HL-1A	75 x 19 x 9.53	3 x 3/4 x 3/8	12,000	W3/8-16	690	0.9	585	23 1/32	2.5	5.5	0.80	28.2	12.7	3/8
FG-5HL-1A	75 x 19 x 12.7	3 x 3/4 x 1/2	12,000	W1/2-12	960	1.3	953	37 33/64	5.0	11.0	1.00	35.3	12.7	1
FG-5HL-2A	100 x 19 x 12.7	4 x 3/4 x 1	9,000	W1/2-12	960	1.3	953	37 33/64	5.0	11.0	1.00	35.3	12.7	1
FG-5HL-11A	75 x 19 x 9.53	3 x 3/4 x 3/8	12,000	W3/8-16	960	1.3	599	23 37/64	3.0	6.6	1.00	35.3	12.7	1
FG-5HL-13A	100 x 16 x 12.7	4 x 5/8 x 1/2	9,000	W3/8-16	960	1.3	599	23 37/64	3.0	6.6	1.00	35.3	12.7	1

Air Inlet Thread Size: PT or NPT 3/8" except FG-50L-1A, FG-50Y-1A: 1/4"



FG-5HL-14

FOR TYPE 27

Model	Max. Dia. (Grinding Wheel)		Free Speed	Spindle Thread Size	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min
Roll Throttle Models														
FG-5HL-14	180 x 6 x 22	-	7,600	W3/8-16	960	1.3	599	23 37/64	3.3	7.3	1.00	35.3	12.7	1

Air Inlet Thread Size: PT or NPT 3/8"

ANGLE GRINDERS - SMALL

Fuji offers a wide variety of angle grinders for use in any grinding operation. Many models have features of machined bevel gears, speed control governor, built-in exhaust and a patented gear cooling design. Fuji has more models and variations than any other manufacturer.

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed	Spindle Thread Size	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in			W	hp	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
Side Exhaust Type																		
FA-2C-1	-	-	50 x 4 x 9.53	2 x 5/32 x 3/8	15,000	1/4-28UNF	265	0.36	48	1 57/64	157	6,18	0,6	1,3	0,4	14,1	9,5	3/8
FA-2C-2	6	1/4	-	-	15,000	3/8-24UNF	265	0.36	90	3 35/64	157	6,18	0,6	1,3	0,4	14,1	9,5	3/8
FA-2C-30	6	-	-	-	15,000	W3/8-16	265	0.36	80	3 5/32					0,4	14,1	9,5	3/8
FA-3C-1	-	-	75 x 4 x 9.53 (15)	3 x 5/32 x 3/8	15,000	M8-P1.25(F)	330	0.44	64	2 33/64	180	73/32	1,1	2,4	0,4	14,1	9,5	3/8
FA-3C-2	-	-	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	330	0.44	64	2 33/64	180	73/32	1,1	2,4	0,4	14,1	9,5	3/8
Rear Exhaust Type																		
FA-2CX-1	-	-	50 x 4 x 9.53	2 x 5/32 x 3/8	15,000	1/4-28UNF	265	0.36	48	1 57/64	197	7,76	0,7	1,5	0,4	14,1	9,5	3/8
FA-2CX-2	6	-	-	-	15,000	3/8-24UNF	265	0.36	90	3 35/64	197	7,76	0,7	1,5	0,4	14,1	9,5	3/8
FA-2CX-30	6	-	-	-	15,000	W3/8-16	265	0.36	80	3 5/32					0,4	14,1	9,5	3/8
FA-3CX-1	-	-	75 x 4 x 9.53 (15)	3 x 5/32 x 3/8	15,000	M8-P1.25(F)	330	0.44	64	2 33/64	217	8.54	1,2	2,6	0,4	14,1	9,5	3/8
FA-3CX-2	-	-	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	330	0.44	64	2 33/64	217	8.54	1,2	2,6	0,4	14,1	9,5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER HANDLE MODELS



Model	Collet Size		Max. Dia. (Mounted Wheel)		Free Speed	Spindle Thread Size	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in			W	hp	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
Side Exhaust Type																		
FA-2C-1BF	-	-	50 x 4 x 9.53	2 x 5/32 x 3/8	15,000	1/4-28UNF	265	0.36	48	1 57/64	188	7.40	0.7	1.5	0.4	14.1	9.5	3/8
FA-2C-2BF	6	1/4	-	-	15,000	3/8-24UNF	265	0.36	90	3 35/64	188	7.40	0.7	1.5	0.4	14.1	9.5	3/8
FA-2C-30F	6	-	-	-	15,000	W3/8-16	265	0.36	80	3 5/32	188	7.40	0.7	1.5	0.4	14.1	9.5	3/8
FA-3C-1F	-	-	75 x 4 x 9.53 (15)	3 x 5/32 x 3/8	15,000	M8-P1.25(F)	330	0.44	64	2 33/64	190	7.48	1.2	2.6	0.4	14.1	9.5	3/8
FA-3C-2F	-	-	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	330	0.44	64	2 33/64	190	7.48	1.2	2.6	0.4	14.1	9.5	3/8
Rear Exhaust Type																		
FA-2CX-1BF	-	-	50 x 4 x 9.53	2 x 5/32 x 3/8	15,000	1/4-28UNF	265	0.36	48	1 57/64	226	8.90	1.0	2.2	0.4	14.1	9.5	3/8
FA-2CX-2BF	6	1/4	-	-	15,000	3/8-24UNF	265	0.36	90	3 35/64	188	7.40	0.7	1.5	0.4	14.1	9.5	3/8
FA-2CX-30F	6	-	-	-	15,000	W3/8-16	265	0.36	80	3 5/32	188	7.40	0.7	1.5	0.4	14.1	9.5	3/8
FA-3CX-1F	-	-	75 x 4 x 9.53	3 x 5/32 x 3/8	15,000	M8-P1.25(F)	330	0.44	64	2 33/64	247	9.72	1.2	2.6	0.4	14.1	9.5	3/8
FA-3CX-2F	-	-	100 x 6 x 15.88	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	330	0.44	64	2 33/64	247	9.72	1.2	2.6	0.4	14.1	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

FUJI TOOLS - NEED TO KNOW MORE ? : WWW.FUJITOOLS.COM

ANGLE GRINDERS - MEDIUM TO LARGE

ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FA-4C-1,3



FA-40-1



FA-5E-1V, 3V, 11V



FA-6C-1



FA-7C-1



FA-7E-2V

Model	Max. Dia. (Mounted Wheel)		Free Speed min ⁻¹	Spindle Thread Size in	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Roll Throttle Models																
FA-4C-1	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	550	0.74	77	3.0	210	8.27	1.8	4.0	0.55	19.4	9.5	3/8
FA-4C-3	100 x 6 x 15	-	13,500	M8-P1.25(F)	550	0.74	77	3.0	210	8.27	1.8	4.0	0.55	19.4	9.5	3/8
FA-40-1	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	1000	1.36	74	2.9	208	8.19	1.9	4.2	1.0	35.3	9.5	3/8
FA-5C-1	125 x 6 x 22	-	10,900	M8-P1.25(F)	790	1.06	84	3.3	226	8.90	2.3	5.14	0.80	28.3	9.5	3/8
FA-5C-4	125 x 6 x 22	-	12,000	M8-P1.25(F)	790	1.06	84	3.3	226	8.90	2.3	5.1	0.80	28.3	9.5	3/8
FA-5E-1V	125 x 6 x 22	-	10,900	M8-P1.25(F)	960	1.30	70	2.8	225	8.90	2.0	4.4	0.95	33.5	9.5	3/8
FA-5E-3V	100 x 6 x 15	-	13,500	M8-P1.25(F)	960	1.30	70	2.8	225	8.90	2.0	4.4	0.95	33.5	9.5	3/8
FA-5E-11V	180 x 6 x 22	-	7,600	M8-P1.25(F)	960	1.30	70	2.8	225	8.90	2.0	4.4	0.95	33.5	9.5	3/8
FA-6C-1	180 x 6 x 22	-	7,600	W1/2-16(F)	1180	1.58	89	3.5	252	9.90	2.9	6.3	1.15	40.6	12.7	1/2
FA-6C-7	150 x 6 x 22	-	9,100	W1/2-16(F)	1180	1.58	89	3.5	252	9.90	2.7	5.9	1.15	40.6	12.7	1/2
FA-6C-10	150 x 6 x 22.2	6 x 1/4 x 7/8	9,000	W1/2-16(F)	1180	1.58	89	3.5	252	9.90	2.7	5.9	1.15	40.6	12.7	1/2
FA-6C-12	180 x 6 x 22.2	7 x 1/4 x 7/8	7,600	W1/2-16(F)	1180	1.58	89	3.5	252	9.90	2.9	6.3	1.15	40.6	12.7	1/2
FA-7C-1	180 x 6 x 22	-	7,600	W1/2-16(F)	960	1.30	89	3.5	264	10.4	3.4	7.5	1.40	49.4	12.7	1/2
FA-7E-1V	180 x 6 x 22.2	7 x 1/4 x 7/8	7,000	W1/2-16(F)	1500	2.0	89	3.5	272	10.7	3.4	7.5	1.40	49.4	12.7	1/2
FA-7E-2V	180 x 6 x 22	-	7,600	W1/2-16(F)	1500	2.0	89	3.5	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-7E-3V	180 x 6 x 22.2	7 x 1/4 x 7/8	8,400	W1/2-16(F)	1590	2.15	87	3.4	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-7E-4V	180 x 6 x 22.2	7 x 1/4 x 7/8	8,400	W1/2-16(F)	1590	2.15	92	3.6	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-7E-5V	180 x 6 x 22.2	7 x 1/4 x 7/8	7,600	W1/2-16(F)	960	1.30	100	3.9	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-9C-1	205 x 6 x 22	-	6,600	W1/2-16(F)	1700	2.28	89	3.5	309	121/6	4.2	9.2	1.65	58.3	12.7	1/2
FA-9C-2	230 x 9.5 x 22.2	9 x 3/8 x 7/8	5,900	W1/2-16(F)	1620	2.17	95	3.7	309	121/6	4.4	9.7	1.65	58.3	12.7	1/2
FA-9C-4	230 x 9.5 x 22	-	5,900	5/8-11UNC	1620	2.17	116	4.6	309	121/6	4.8	10.6	1.65	58.3	12.7	1/2
FA-9C-6	230 x 9.5 x 22	-	5,900	W1/2-16(F)	1620	2.17	95	3.7	309	121/6	4.3	9.5	1.65	58.3	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8" except FA-9C series 1/2"

FA-4C-3 does not have support handle. (F): Female thread

LOCKING LEVER HANDLE MODELS



FA-40-1F



FA-6C-8M



FA-7E-8VF

Model	Max. Dia. (Mounted Wheel)		Free Speed	Spindle Thread Size	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			min ⁻¹	in	W	hp	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min
Locking Lever Handle Models																
FA-4C-1F	-	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	550	0.74	77	3.0	210	8.27	1.8	4.0	0.55	19.4	9.5	3/8
FA-40-1F	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-P1.25(F)	1000	1.36	74	2.9	208	8.19	1.9	4.2	1.0	35.3	9.5	3/8
FA-5E-2F	125 x 6 x 22.2	5 x 1/4 x 7/8	12,000	M8-P1.25(F)	960	1.30	70	2.8	282	11.1	2.1	4.6	0.95	33.5	9.5	3/8
FA-5E-2VF	125 x 6 x 22.2	5 x 1/4 x 7/8	12,000	M8-P1.25(F)	960	1.30	70	2.8	262	10.6	2.0	4.4	0.95	33.5	9.5	3/8
FA-5E-13F	125 x 6 x 22.2	5 x 1/4 x 7/8	12,000	3/8-24 UNF	960	1.30	70	2.8	282	11.1	2.2	4.8	0.95	33.5	9.5	3/8
FA-5E-13VF	125 x 6 x 22.2	5 x 1/4 x 7/8	12,000	3/8-24 UNF	960	1.30	70	2.8	262	10.6	2.2	4.8	0.95	33.5	9.5	3/8
FA-6C-6M	180 x 6 x 22	-	7,600	W1/2-16(F)	1180	1.58	89	3.5	252	9.9	2.9	6.3	1.15	40.6	12.7	1/2
FA-6C-8M	150 x 6 x 22	-	9,100	W1/2-16(F)	1180	1.58	89	3.5	252	9.9	2.7	5.9	1.15	40.6	12.7	1/2
FA-6C-9M	180 x 6 x 22	-	7,600	W1/2-16(F)	1180	1.58	89	3.5	252	9.9	2.9	6.3	1.15	40.6	12.7	1/2
FA-6C-12M	180 x 6 x 22.2	7 x 1/4 x 7/8	7,600	W1/2-16(F)	1180	1.58	89	3.5	252	9.9	2.9	6.3	1.15	40.6	12.7	1/2
FA-7E-5VF	180 x 6 x 22.2	7 x 1/4 x 7/8	7,000	W1/2-16(F)	1500	2.0	89	3.5	272	10.7	3.4	7.5	1.40	49.4	12.7	1/2
FA-7E-6VF	180 x 6 x 22.2	7 x 1/4 x 7/8	7,600	W1/2-16(F)	1500	2.0	89	3.5	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-7E-8VF	180 x 6 x 22.2	7 x 1/4 x 7/8	8,400	W1/2-16(F)	1590	2.15	87	3.4	272	10.7	3.1	6.8	1.40	49.4	12.7	1/2
FA-9C-2M	230 x 9.5 x 22.2	9 x 3/8 x 7/8	5,900	W1/2-16(F)	1620	2.17	95	3.7	385	15.2	4.5	9.9	1.40	49.4	12.7	1/2
FA-9C-4M	230 x 9.5 x 22	-	5,900	5/8-11UNC	1620	2.17	116	4.6	385	15.2	4.5	9.9	1.65	58.3	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8" except FA-9C-2M/-4M: 1/2"

ANGLE GRINDERS - SANDERS

ANGLE GRINDER - ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FA-3CK-2
(120°)



FA-150KG-5
(120°)

Model	Max. Dia. (Mounted Wheel)		Free Speed min ⁻¹	Spindle Thread Size in	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Roll Throttle Models																
FA-3CK-2	100 x 6 x 15.88 (15)	4 x 1/4 x 5/8	13,500	M8-1.25P(F)	340	0.4	78	3 5/64	164	6 1/2	1.2	2.6	0.40	14.1	9.5	3/8
FA-150KG-5	180 x 6 x 22	-	7,600	W1/2-16(F)	900	1.2	98	4	245	9 5/8	1.8	3.9	1.15	40.6	12.7	1/2

Air Inlet Thread Size: PT or NPT FA-3CK-2: 1/4", FA-150KG-5: 3/8"
FA-3CK-2 has roll throttle, does not have support handle.
(F): Female thread

ANGLE SANDER - ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FA-5C-5
(90°)



FA-5E-7V
(90°)



FA-3CK-1
(120°)



FA-150KG-7
(120°)



FA-150K-20
(120°)

Model	Max. Dia.				Free Speed	Spindle Thread Size	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	Sanding Disc		Wire Brush															
	mm	in	mm	in														
Roll Throttle Models																		
FA-5C-5	180 x - x 22.2	7 x - x 7/8	-	-	7,000	W1/2-16(F)	670	0.8	85	3 11/32	230	9	2.1	4.6	0.58	20.5	9.5	3/8
FA-5E-7V	180 x - x 22.2	7 x - x 7/8	-	-	7,000	M8-1.25P(F)	960	1.3	70	2 3/4	212	8 11/32	1.9	4.2	0.95	33.5	9.5	3/8
FA-3CK-1	100 x - x 15.9	4 x - x 7/8	-	-	11,000	3/8-24UNF(M)	340	0.4	79	3 7/64	164	6 29/64	1.1	2.2	0.40	14.1	9.5	3/8
FA-150KG-7	180 x - x 22.2	7 x - x 7/8	125 x - x 15.9	5 x - x 5/8	5,500	W1/2-16(F)	900	1.2	87	3 27/64	245	9 41/64	1.8	4.0	1.15	40.6	12.7	1/2
FA-150K-20	150 x - x 22.2	7 x - x 7/8	125 x - x 15.9	5 x - x 5/8	8,400	W1/2-16(F)	900	1.2	80	3 5/32	210	8 17/64	1.6	4.0	1.00	35.3	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8" except FA-3CK-1: 1/4"
FA-150KG-7 has a flange for Shank brush. In case of paper sanding you needs flange for paper sanding.
• Models do not have support handle. (F): Female thread (M): Male thread

ANGLE SANDERS / ANGLE CUTTERS

ANGLE SANDERS - LOCKING LEVER HANDLE MODELS



FA-5E-6VF



FA-7E-5VF

Model	Max. Dia.				Free Speed	Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	Sanding Disc		Wire Brush												
	mm	in	mm	in											
3/8-24UNF Thread Male Spindle Type															
FA-5E-6VF	180 x-x 22.2	7 x-x 7/8	-	-	6,000	960	1.29	262	10 5/16	2.0	4.4	0.95	33.5	9.5	3/8
5/8-11UNC Thread Male Spindle Type															
FA-7E-5VF	180 x-x 22.2	7 x-x 7/8	-	-	7,000	1620	2.17	307	12 3/32	3.1	6.8	1.40	49.4	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8". *Specify Sanding Discs or Wire Brushes when ordering.

ANGLE SANDERS - DISC TYPE

This Sander features rear exhaust, low noise, high speed and comfortable design. It is useful for various sanding work.



FG-5PX-1

Model	Max Dia. (Sanding Disc)		Free Speed	Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in										
FG-5PX-1	125 x - x 22.2	5 x - x 7/8	12,000	170	6 11/16	370	0.49	108	4 1/4	1.0	2.2	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

ANGLE CUTTERS - ROLL THROTTLE MODELS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

FOR DIAMOND CUTTER



FA-5E-8V



FA-7C-21

Model	Max. Dia.		Free Speed	Spindle Thread Size	Power		Angle Head Height		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in			W	hp	mm	in	mm	in	kg	lb	m³/min	ft³/min	mm	in
Side Exhaust Type																
FA-5E-8V	125 x 2 x 20	-	10,900	M8-1.25(F)	960	1.3	74	3	213	8 25/64	2.0	4.4	0.95	33.2	9.5	3/8
FA-7C-21	180 x 2 x 25.5	-	7,600	W1/2-16(F)	1280	1.7	91	3 37/64	264	10 25/64	3.4	7.5	1.40	49.0	12.7	1/2

Air Inlet Thread Size: PT or NPT 3/8". (F): Female thread

VERTICAL GRINDERS - VERTICAL SANDERS

LOCKING LEVER HANDLE MODELS

Fuji Vertical Grinders are very powerful due to their direct drive shafts. All vertical grinders feature a centrifugal speed control governor that maintains rotational frequency even under a heavy grinding load. All Models are 5/8"-11UNC male spindle type with locking lever handle.

VERTICAL GRINDERS STANDARD TYPE



FV-7-1M,4M



FV-9BH-1M

Model	Max. Dia. (Grinding Wheel)		Free Speed	Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FV-7-1M	180 x 6 x 22.23 (22)	7 x 1/4 x 7/8	6,000	192	7 9/16	1400	1.87	247	9 23/32	4.0	8.8	1.40	49.4	12.7	1/2
FV-7-4M	180 x 6 x 22.23 (22)	7 x 1/4 x 7/8	8,400	192	7 9/16	1760	2.37	247	9 23/32	4.0	8.8	1.70	60.0	12.7	1/2
FV-9BH-1M	230 x 8 x 22.23 (22)	9 x 5/16 x 7/8	5,900	222	8 47/64	2900	3.88	278	10 61/64	5.8	12.7	2.80	98.9	19.0	3/4

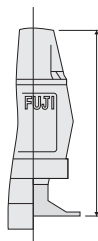
Air Inlet Thread Size: PT or NPT 3/8", FV-9BH Series: PT or NPT 1/2".

VERTICAL GRINDERS CUP WHEEL TYPE

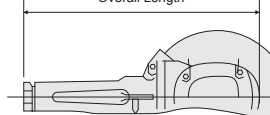


FV-9BH-4M

Height
(Height is a distance from wheel flange to top)



Overall Length



Model	Max Dia. (Cup Wheel)		Free Speed	Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FV-9BH-4M	150 x 50 x 22.2	6 x 2 x 7/8	4,500	204	8 1/32	2900	3.88	278	10 61/64	6.1	13.4	2.40	84.7	19.0	3/4

Air Inlet Thread Size: PT or NPT 1/2".

SANDING DISC TYPE



FV-7-2M

Model	Max Dia. (Sanding Disc)		Free Speed	Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FV-7-2M	180 x - x 22.2	7 x - x 7/8	7,000	192	7 9/16	1540	2.07	247	9 23/32	4.0	8.8	1.60	56.5	12.7	1/2v

Air Inlet Thread Size: PT or NPT 3/8".

BELT SANDERS

Fuji Belt Sanders are ideal for precise and efficient sanding of confined areas such as spherical surfaces and tubes which are difficult to access with conventional grinders. They are also the ideal tool for de-burring applications. 360 degree head rotation provides versatile solution for almost any application.

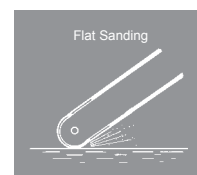


FBS-1-1,3



FBS-1-2,4

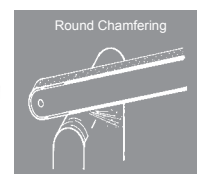
ANGLE
ADJUSTMENT
(UP TO 360 DEGREES)



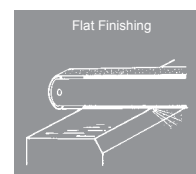
Flat Sanding



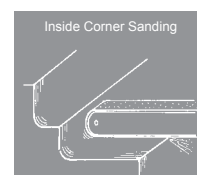
Grinding of Welding Beads



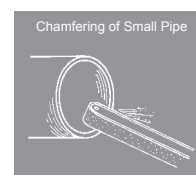
Round Chamfering



Flat Finishing



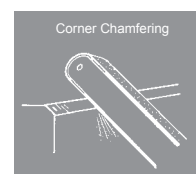
Inside Corner Sanding



Chamfering of Small Pipe



Sanding in Narrow Space



Corner Chamfering

Model	Belt Size		Free Speed	Belt Speed	Power		Overall Length		Height		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	min ⁻¹	m/min	W	hp	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FBS-1-1	10 x 330	13/32 x 12 1/64	20,000	1,200	280	0.37	281	11 5/64	124	4 57/64	1.1	2.4	0.57	20.1	9.5	3/8
FBS-1-2	20 x 520	51/64 x 19 1/2	20,000	1,200	280	0.37	375	14 25/32	124	4 57/64	1.2	2.6	0.57	20.1	9.5	3/8
FBS-1-3	13 x 460	33/64 x 18 1/8	20,000	1,200	280	0.37	345	13 19/32	124	4 57/64	1.2	2.6	0.57	20.1	9.5	3/8
FBS-1-4	20 x 460	51/64 x 18 1/8	20,000	1,200	280	0.37	345	13 19/32	124	4 57/64	1.2	2.6	0.57	20.1	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

ACCESSORIES

SANDING BELTS

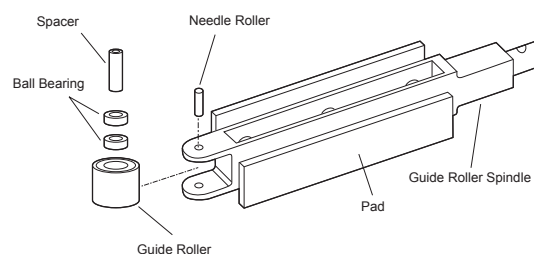


Sanding Belts in different size are able to be mounted to the tool by replacing Contact Arm Ass'y.

Applicable Model	Belt Size (mm)	Grit #40	Grit #60	Grit #80	Grit #100	Grit #120
FBS-1-1	10 x 330	DSB-271	DSB-273	•DSB-274	DSB-275	DSB-276
FBS-1-2	20 x 520	DSB-261	DSB-263	•DSB-264	DSB-265	DSB-266
FBS-1-3	13 x 460	DSB-221	DSB-223	•DSB-224	DSB-225	DSB-226
FBS-1-4	20 x 460	DSB-241	DSB-243	•DSB-244	DSB-245	DSB-246

*Marked • are Standard Accessories.

CONTACT ARM ASSEMBLY



Contact Arm Ass'y	Size	Model
FBS-1-1	10 x 330	DSB-271
FBS-1-2	20 x 520	DSB-261
FBS-1-3	13 x 460	DSB-221
FBS-1-4	20 x 460	DSB-241

ORBITAL SANDERS

Fuji Orbital Sanders are compact, lightweight & manoeuvrable, yet powerful enough for finishing lacquered and metal surfaces prior to re-painting. The effective dust extraction with rear exhaust helps keep the working environment clean.

Features

- n Powerful sanding, high stability and low vibration.
- n Excellent dust extraction ability to help keep the work area clean
- n Available to suit variations of sandpapers; self-adhesive type, Velcro (Nylon Strip Fastener) Type and standard Clip-on Type.

DISC TYPE



DA-125C



FOR-125B, 150B



FOR-125BF, 150BF

Model	Capacity (Sanding Disc)		Free Speed	Angle Head Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Lever Handle Models															
DA-125L-E(M)	ø125	5	8,500	94	3 45/64	60	0.079	158	6 7/32	1.2	2.6	0.26	9.1	6.3	1/4
DA-125C-E(M)	ø125	5	8,500	107	4 7/32	60	0.079	158	6 7/32	1.4	3.0	0.26	9.1	6.3	1/4
FOR-125B-E(M)	ø125	5	8,000	124	4 7/8	118	0.158	243	9 9/16	2.0	4.4	0.36	12.7	6.3	1/4
FOR-150B-E(M)	ø150	6	8,000	124	4 7/8	118	0.158	256	10 5/64	2.1	4.6	0.36	12.7	6.3	1/4
Locking Lever Handle Models															
FOR-125BF-E(M)	ø125	5	8,000	124	4 7/8	118	0.158	243	9 9/16	2.0	4.4	0.36	12.7	6.3	1/4
FOR-150BF-E(M)	ø150	6	8,000	124	4 7/8	118	0.158	256	10 5/64	2.1	4.6	0.36	12.7	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4".

*Adhesive paper type: (E). *Velcro paper type: (M).

*DA-125 Series, Orbit 5mm (3/16")- FOR-125/-150 Series, Orbit 9mm (11/32")

RECTANGLE SHEET TYPE



OB-75L, 90L



FOS-175B

Model	Capacity (Sanding Pad Size)		Free Speed	Angle Head Height		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in		mm	in	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Lever Handle Models															
OB-75L-E(M)	75 x 100	3 x 4	7,000	91	3 37/64	60	0.079	145	5 45/64	1.2	2.6	0.26	9.1	6.3	1/4
OB-90L-E(M)	90 x 100	3.5 x 4	7,000	91	3 37/64	60	0.079	145	5 45/64	1.3	2.8	0.26	9.1	6.3	1/4
FOS-175B-E(M)	100 x 175	4 x 7	6,500	130	5 1/8	118	0.158	268	10 9/16	2.4	5.2	0.34	11.9	6.3	1/4
FOS-230B-E	100 x 230	4 x 9	6,000	130	5 1/8	118	0.158	291	11 29/64	2.6	5.7	0.34	11.9	6.3	1/4
Locking Lever Handle Models															
FOS-175BF-E(M)	100 x 175	4 x 7	6,500	130	5 1/8	118	0.158	268	10 9/16	2.4	5.2	0.34	11.9	6.3	1/4
FOS-230BF-E	100 x 230	4 x 9	6,000	130	5 1/8	118	0.158	291	11 29/64	2.6	5.7	0.34	11.9	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4".

*Adhesive paper type: (E). *Velcro paper type: (M).

*OB-75/-90 Series, Orbit 3mm (1/8") - FOS-175/-230/-400 Series, Orbit 5mm (3/16")

ABRASIVE TOOLS

ACCESSORIES

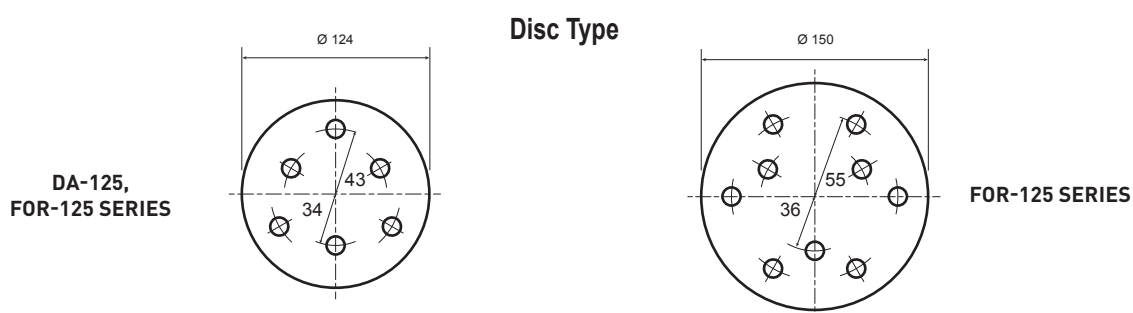
ACCESSORIES PROVIDED



Model	Exhaust Hose	Dust Bag	Spanner	Punching Tool/Rod	Sanding Disc
FOR-125(T, B)	*	*	*	Rod	* 2pcs.
FOR-150(T, B)	*	*	*	Rod	* 2pcs.
OB-75(T, L)	*	*	-	*	-
OB-90L	*	*	-	-	-
FOS-175(T, B)	*	*	-	-	* 2pcs.
FOS-230(T, B)	*	*	-	*	* 2pcs.
FOS-400(T, B)	*	*	-	*	* 2pcs.

* = provided, - = not provided

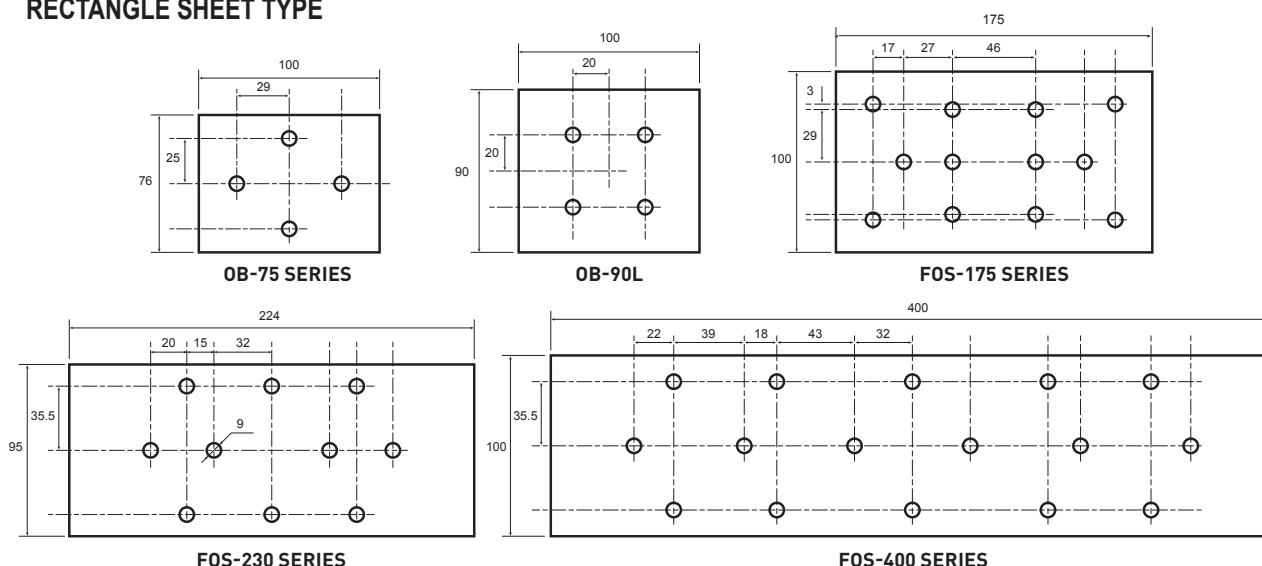
HOLE PATTERN AND DIMENSIONS OF SANDING PAPERS AND PADS



Model	Adhesive Paper Type		Velcro Paper Type	
	Paper	Pad	Paper	Pad
DA-125	FOR-125-#40-#150	PAD-125E	FOR-125-M40-M600	PAD-125M
FOR-125	FOR-125-#40-#150	PAD-125E	FOR-125-M40-M600	PAD-125M
FOR-150	FOR-150-#40-#150	PAD-150E	FOR-150-M40-M600	PAD-150M

* Specify the grit when ordering sanding papers.

RECTANGLE SHEET TYPE



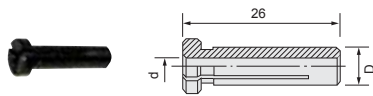
Model	Adhesive Paper Type		Velcro Paper Type		Roll Paper (Clip-on type)	
	Paper	Pad	Paper	Pad		
OB-75	OB-75-#40-#240	PAD-75E	OB-75-M40-M600	PAD-75M	-	-
OB-90	OB-90-#40-#240	PAD-90E	OB-90-M40-M600	PAD-90M	-	-
FOS-175	FOS-175-#40-#240	PAD-175E	FOS-175-M40-M600	PAD-175M	-	-
FOS-230	FOS-230-#40-#240	PAD-230E	-	-	FOS-230-C40-C240	-
FOS-400	FOS-400-#40-#240	PAD-400E	-	-	FOS-400-C40-C240	-

* Roll Paper Size: 100mm x 15m (Dimension: FOS-230(100 x 300)mm, FOS-400(100 x 470)mm.)

* Specify the grit when ordering sanding papers.

ACCESSORIES

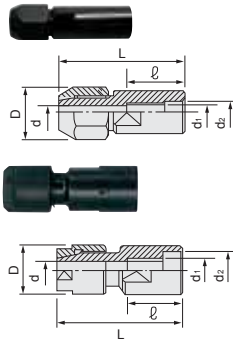
COLLET BUSHES



Part N°	Size				Models
	D		d		
	mm	in	mm	in	
G-032347-00	6.0	-	3.0	-	FG-26H, 26HX, 26L, 26HL, 50, 50L, 50Y Series
G-032347-02	6.0	-	-	1/8	FG-3H, 3HL, 4H, 4HL Series
G-032347-03	-	1/4	-	1/8	FA-2C-2, 2BF, 3, 3BF, 2CX-2, 2BF, 3, 3BF

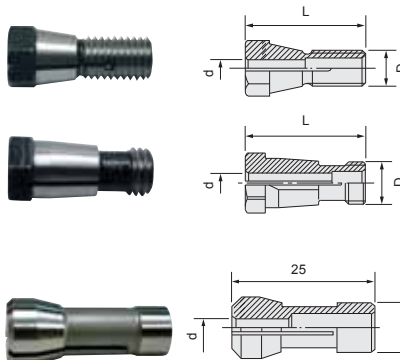
*These collet bushes are used for collet chucks.

COLLET CHUCKS



AC N°	Collet	Collet nut	Size							Models		
			d		d ₁	d ₂		D	L		e	
			mm	in		mm	in					mm
CN-1210	G-101342-00	G-162343-00	6	-	3/8-24UNF	-	3/8	17Hex	57	32	FG-50L-2, 2BF, 50Y-2, 2BF, 3HL-2, 2F, FG-4HL-2, 2F, 3H-5, 5F	
CN-1207	G-041342-00		-	1/4		-	3/8	17Hex	57	32		
CN-1402	G-017342-00		6	-	W3/8-16	-	3/8	17Hex	57	32	FG-50L-1, 1BF, 50Y-1, 1BF, 3HL-1, 1F, 4HL-1, 1F, 4H-1, 1F, FG-3VX-1F, 2F, 3F, 6F, 3H-1, 1F, 2, 2F, 6, 4VA-1, 50DX-5F	
CN-1404	G-017342-01		-	1/4		-	3/8	17Hex	57	32		
CN-1202	G-011342-00		6	-	3/8-24UNF	-	3/8	17Hex	42	17	FG-2VX-1F, FA-2C-2, 2BF, 2CX-2, 2BF	
CN-1208	G-028342-00		-	1/4		-	3/8	17Hex	42	17		
CN-1406	A-122342-01	G-144343-02	6	-	W3/8-16	-	3/8	17Hex	42	17	FA-2C-30, 30BF, 2CX-30, 30BF	
CN-1407	A-122342-02		-	1/4		-	3/8	17Hex	42	17		
CN-1114	G-144342-03	G-144343-02	3	-	5/16-24UNF	12	-	14	44	21	FG-26H, 26HX, 26L, 26HL, FG-50, 50X Series	
CN-1115	G-144342-04		-	1/8								
CN-1112	G-144342-00	G-144343-00	6	-				16	44	21		
CN-1113	G-144342-01		-	1/4								

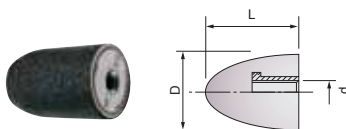
COLLET



Part N°	Size				Models	
	d		D	Taper		L
	mm	in				mm
G-001342-01	3.0	-	1/4-28UNF	3/10	20	TURBO-100
G-001342-02	-	1/8				
G-002342-00	6.0	-	W11-24	2/5	23	TURBO-100A
G-002342-01	-	1/4				
G-185342-00	3.0	-	1/4-28UNF	-	18	FG-06-1 FG-13Series, 13XSeries
G-185342-01	-	1/8				

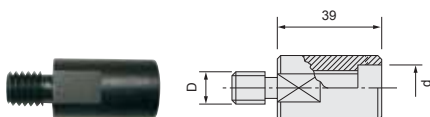
Part N°	Size		Models
	d		
	mm	in	
G-028342-08	3.0	-	FG-12U, 12UX FG-25D, 25DX FG-50D, 50DX
G-028342-04	-	1/8	
G-028342-07	6.0	-	
G-028342-06	-	1/4	

CONE WHEEL



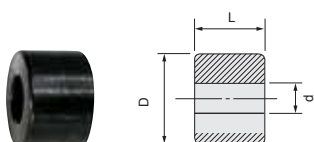
AC N°	Size			Material
	D	L	d	
	mm	mm		
124	38	65	W3/8-16	A-36P

ADAPTER FOR CONE WHEEL



Part N°	Size	
	D	d
	mm	mm
G-158309-00	W3/8-16	5/16-24UNF

SPACER FOR CONE WHEEL



Part N°	Size			
	d		D	L
	mm	in	mm	
G-013308-00	9.53	3/8	20	13.5

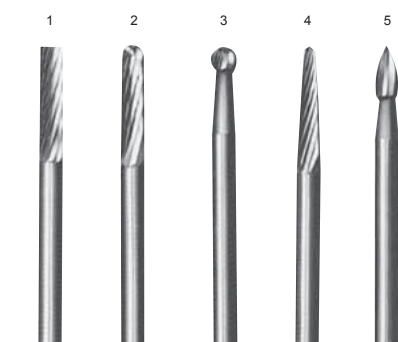
CONE WHEEL APPLICATIONS



ABRASIVE TOOLS

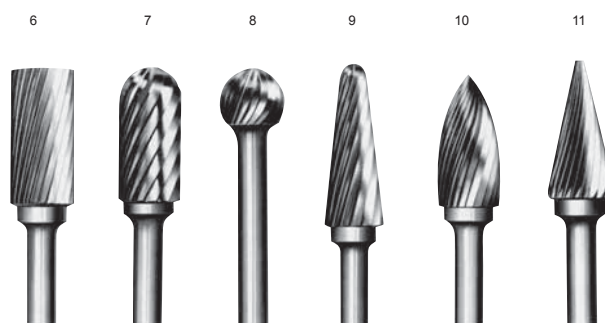
ACCESSORIES

TUNGSTEN CARBIDE BURRS



3mm Shank Dia

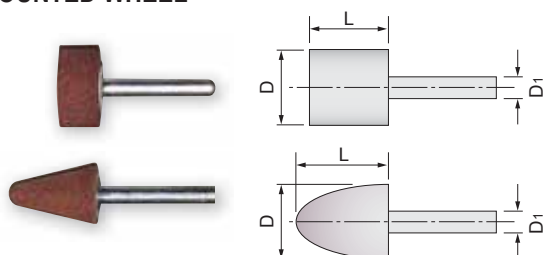
Index N°	AC N°	Size		Model
		Head Dia mm	Length in	
1	A03	3	38	FG-06-1 TURBO-100 FG-13-1F, 2 FG-13X-1F, 2
2	B03	3	38	
3	C03	3	38	
4	E03	3	38	
5	F03	3	38	



6mm Shank Dia

Index N°	AC N°	Size		Model
		Head Dia mm	Length in	
6	A08(A13)	8(13)	55(70)	TURBO-100A FG-12U, 25D, 50D Series FG-12UX, 25DX Series FG-50DX Series (except FG-50DX-5F)
7	B08(B13)	8(13)	55(75)	
8	C08(C13)	8(13)	55(60)	
9	E08(E13)	8(13)	55(84)	
10	F08(F13)	8(13)	55(75)	
11	H08(H13)	8(13)	55(70)	

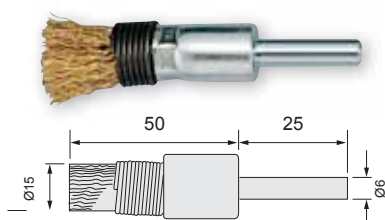
MOUNTED WHEEL



Type	AC N°	Size			Material	Model
		D mm	L mm	D1 mm		
Straight	103	10	10	3	WA-60	FG-13, 13X Series FG-12U, 12UX Series FG-25, 25DX, 50D, 50DX Series FG-12U, 12UX, 26H, 26L, 26HX, 50H, 50HX Series
	105	25	13	6		
Cone	111	10	16	3	WA-60	FG-13, 13X Series FG-12U, 12UX Series FG-25, 25DX, 50D, 50DX Series FG-12U, 12UX, 26H, 26L, 26HX, 50H, 50HX Series FG-25D, 25DX, 50D, 50DX Series, 3H-5, 5F FG-3VX-6F, FA-2C-2, 30, 2CX-2, 30 Series
	113	19	25	6		

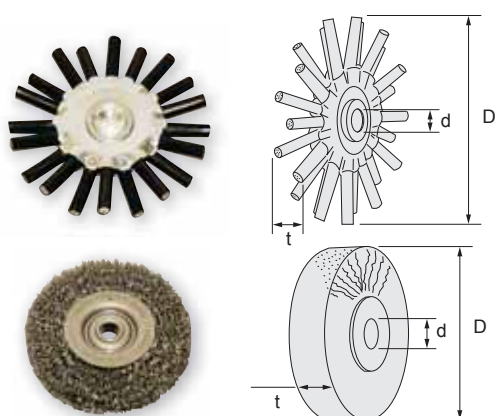
*Minimum order required : 100pcs. per item.

SHANK BRUSH



AC N°	Free Speed	Model
	min ⁻¹	
170	15,000	FG-3VX-6F, 3H-5, 5F FA-2C-2, 2BF, 30, 30BF FA2CX-2, 2BF, 30, 30BF

RADIAL WIRE BRUSHES



AC N°	Size			Maximum Free Speed min ⁻¹	Model
	D mm	t mm	d mm		
KWH-100WK5	100	13	10	12,000	FG-4H-1, 1F
KWH-123WK5	125	14	16	9,500	FG-5H-2, FA-150K-2,3, 150KG-7
KWH-156WK5	150	17	16	7,500	FG-6H-1, 1M

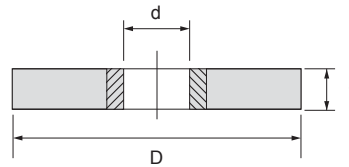
*Minimum order required : 10pcs. / item.

AC N°	Size			Maximum Free Speed min ⁻¹	Model
	D mm	t mm	d mm		
181	50	13	10	18,000	FG-50L, 50Y
182	65	13	10	15,000	FG-3H-1, 1F, 3HL-1, 1F
183	75	13	10	13,000	FG-3H-2, 2F, 4HL-1, 1F
184	100	13	10	9,500	FG-4H-1, 1F
184-2	100	13	13	9,500	FG-4H-2, 2F, 5HL-2, 2M
185	125	19	16	7,600	FG-5H-2, 2M
185-2	125	19	13	7,600	FG-5H-1, 1M
186	150	25	16	6,300	FG-6H-1, 1M
187	205	25	16	4,600	FG-8H-1, 1C, 1M

*Minimum order required : 10pcs. / item.

ACCESSORIES

STRAIGHT GRINDING WHEELS FOR STRAIGHT AND EXTENSION GRINDERS



AC N°	Size						Material	Maximum Free Speed	Models
	D		t		d				
	mm	in	mm	in	mm	in		min ¹	
*131	50	2	13	1/2	9.53	3/8	A-36Q	18,000	FG-50L, -50Y Series
*132	65	2 1/2	13	1/2	9.53	3/8	A-30R	14,000	FG-3H-1, 1F, 3HL-1, 1F, 2, 2F
*133	75	3	13	1/2	9.53	3/8	A-24P	12,000	FG-3H-2, 2F, 4HL-1, 1F, 2, 2F
*133-1	75	3	19	3/4	9.53	3/8	A-24P	12,000	FG-4HL-1, 1F, 2, 2F
*134	100	4	19	3/4	9.53	3/8	A-24P	9,000	FG-4H-1, 1F
*136-2	125	5	19	3/4	12.70	1/2	A-24P	7,600	FG-5H-1, 1M
*137	125	5	19	3/4	15.88	5/8	A-24P	7,600	FG-5H-2, 2M
*138	150	6	25	1	15.88	5/8	A-24P	6,300	FG-6H-1, 1M
*139	180	7	25	1	15.88	5/8	A-24P	5,300	FG-8H-2 Series
*140	205	8	25	1	15.88	5/8	A-24P	4,600	FG-8H-1 Series

* = Minimum order required : 100pcs. / item, others = Minimum order required : 50pcs. / item.

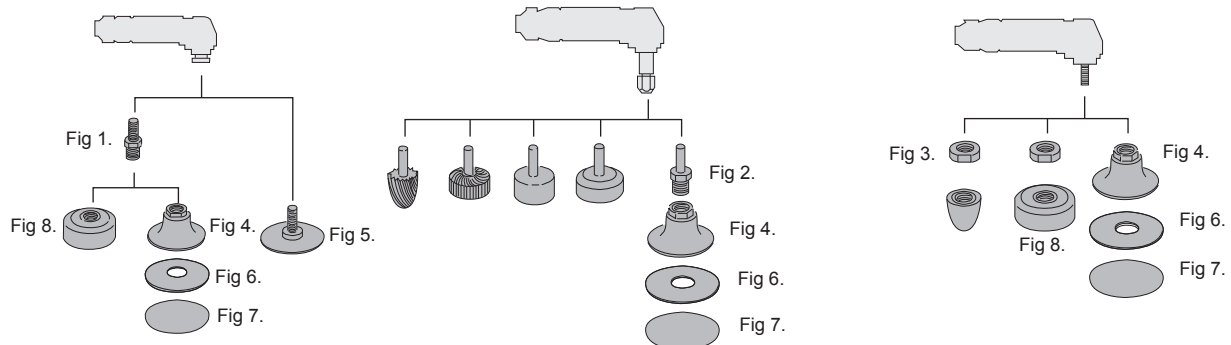
HEAT SHRINK-TUBES FOR EXTENSION GRINDERS



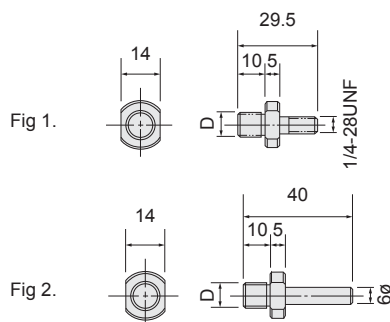
- n Comfort grip to soften application vibration and warm to touch.
- n Tube diameter will shrink to half size when heated to 120°C.
- n Cut to suitable size to fit the tool.

AC N°	Length m	Before	After		Object Size mm	Models
		Inside Dia. mm	Inside Dia. mm	Thickness mm		
M20-10-1	5	20	10	1	12-17	FG-06
M20-10-2	5	20	10	2	12-17	
M30-15-1	5	30	15	1	18-27	FG-26L
M30-15-2	5	30	15	2	18-27	
M40-20-1	5	40	20	1	23-35	FG-50, 3HL
M40-20-2	5	40	20	2	23-35	
M50-25-2	5	50	25	2	28-45	FG-4HL
M50-25-3	5	50	25	3	28-45	
M60-30-2	5	60	30	2	35-55	FG-5HL
M60-30-3	5	60	30	3	35-55	

ACCESSORIES FOR FA-2C, -2CX SERIES



ATTACHMENTS



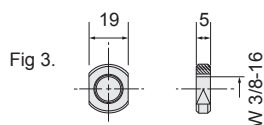
Parts N°	Size	Models
	D	
A-122693-01	W3/8-16	FA-2CX-1, 1BF

Parts N°	Size	Models
	D	
A-122693-03	W3/8-16	FA-2CX-2, FA-2CX-30

ABRASIVE TOOLS

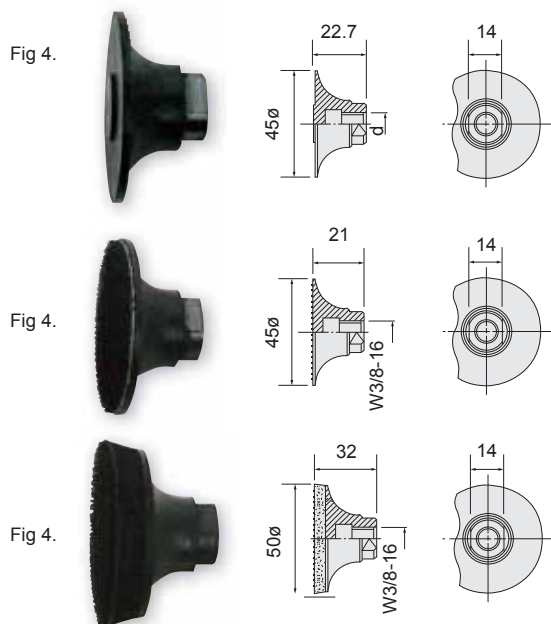
ACCESSORIES

SPACER



Part N°	Models
A-122308-01	FA-2C-30, 30BF, 2CX-30, 30BF

RUBBER BACKING PADS FIG 4.



ADHESIVE TYPE

AC N°	Size d
RP-2-2	W3/8-16

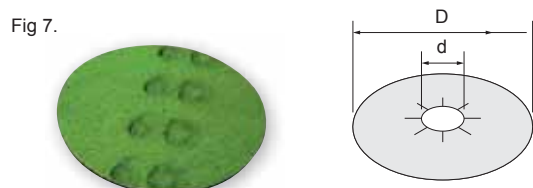
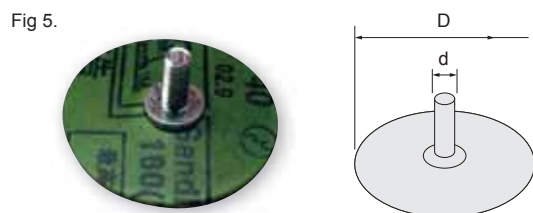
VELCRO TYPE

AC N°
MP-2-1

VELCRO WITH SPONGE TYPE

AC N°
MP-2-1S

SANDING DISC



SHAFT TYPE

AC N°	Size		Grit #	Models
	D	d		
MD-1	50	1/4-28 UNF	40	FA-2C-1, 1BF FA-2CX-1, 1BF
MD-2			60	
MD-3			80	
MD-4			100	
MD-5			120	

*Minimum order required : 50pcs. / item.

ADHESIVE TYPE

AC N°	Size		Grit #	Models
	D	d		
DP-2-1	50	16	40	FA-2C-2, 30 FA-2CX-2, 30 Series
DP-2-2			60	
DP-2-3			80	
DP-2-4			100	
DP-2-5			120	
DP-2-6			150	
DP-2-7			240	
DP-2-8			320	
DP-2-9			180	
DP-2-10			400	

*Minimum order required : 100pcs. per item.

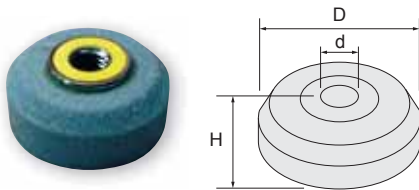
VELCRO TYPE

AC N°	Size D	Grit #	Models
	mm		
MP-2-10	50	40	FA-2C-2, 30 FA-2CX-2, 30 Series
MP-2-2		60	
MP-2-3		80	
MP-2-4		100	
MP-2-5		120	
MP-2-6		150	
MP-2-7		240	
MP-2-8		320	

*Minimum order required : 100pcs. per item.

ACCESSORIES

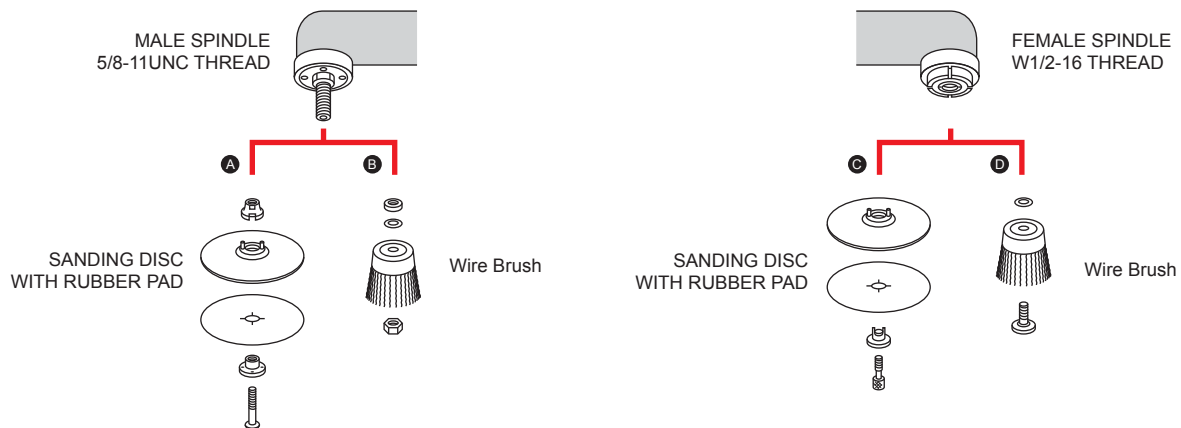
SPACER



AC N°	Size			Grit #	Models
	D mm	H mm	d mm		
MC-2-16	40	18	W3/8-16	60	FA-2C-2, 2BF, 2CX-30, 30BF

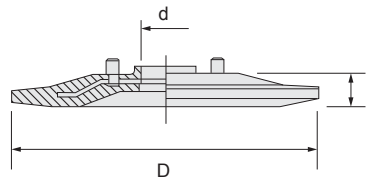
*Minimum order required : 10pcs. / item

RUBBER PAD AND WIRE BRUSH COMBINATION FOR ANGLE SANDERS



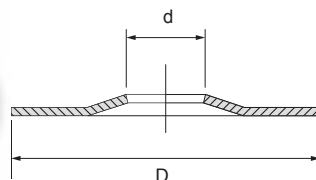
*Male Spindle 3/8-24UNF Thread type is applicable to A type (A)

RUBBER BACKING PADS FOR ANGLE AND VERTICAL SANDERS



AC N°	Size								Maximum Free Speed	Models
	D		t		d		Pin Space			
	mm	in	mm	in	mm	in	mm	in		
RP-2-2	45	1 49/64	22.7	57/64	-	W3/8-16	*		15,000	FA-2C-1, 1BF, 2CX-1, 1BF *(A-122693-01) FA-2C-2, 2CX-2, 2C-30, 2CX-30 Series *(A-122693-03)
RP-3-2	75	3	10.5	13/32	15.8	5/8			13,500	FA-3CK-1
RP-5-3	125	5	17.0	43/64	22.2	7/8	44	1 47/64	8,500	FA-150K-2, 3
RP-5-5	125	5	17.0	43/64	22.2	7/8	46	1 13/16	8,500	FA-5C-5, 150KG-7, 5E-7 Series
RP-5-6	125	5	14.0	35/64	22.2	7/8	46	1 13/16	8,500	FA-5E-4 Series
RP-7	180	7	15.0	19/32	22.2	7/8	46	1 13/16	7,000	FA-150KG-7, 5C-5, 6C-9, 10, FA-5E-6 Series, 5E-7V, 7E-1, 5 Series, FV-7-1M, 2M
RP-9-1	230	9	15.0	19/32	22.2	7/8	46	1 13/16	5,900	FA-9C-2, 2M, 4, 4M, FV-9BH-1M

DISC BACKING PADS FOR FG-5PX-1

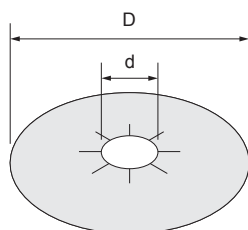


AC N°	Size				Models
	D		d		
	mm	mm	mm	in	
FP-3-1	75	3	22.2	7/8	FG-5PX-1
FP-5-1	125	5	22.2	7/8	

ABRASIVE TOOLS

ACCESSORIES

SANDING DISCS FOR ANGLE AND VERTICAL SANDERS

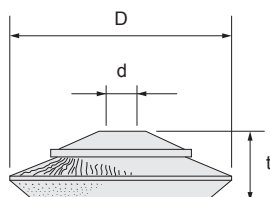


AC N°	Size				Grit #	Models
	D		d			
	mm	in	mm	in		
DP-5**	125	5	22.2	7/8	14-60	FG-5PX-1
DP-6**	150	6	22.2	7/8	14-60	FA-150K-2, 3
DP-7	180	7	22.2	7/8	14-60	FA-6C-9, 9M FA-7E-1, 5 Series, 150KG-7 FV-7-1M, 2M
DP-9	230	9	22.2	7/8	14-50	FA-9C-2

**Minimum order required : 500pcs. / item

*Minimum order required : 100pcs. per item.

BEVEL WIRE BRUSHES

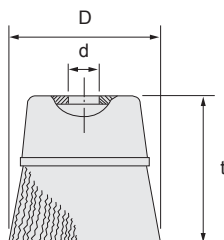


AC N°	Size			Maximum Free Speed min ⁻¹	Models
	D	t	d		
	mm	in	mm		
195	125	35	16	8,400	FA-150K-2, 3
195S	125	35	16	8,400	

*S - Stainless Steel

*Minimum order required : 10pcs. / item.

CUP WIRE BRUSHES

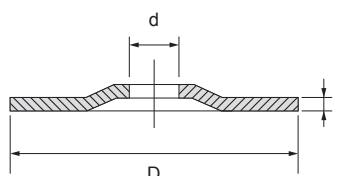


AC N°	Size			Maximum Free Speed min ⁻¹	Models
	D	t	d		
	mm	in	mm		
192	75	47	16	8,400	FA-150K-2, 3, 4CHK-3, 3F
193	100	55	16	8,400	FA-150K-2, 3, 4CHK-3, 3F
192S	75	47	16	7,000	FA-6C-9, 10, 9M, 5C-5
193S	100	55	16	7,000	FA-6C-9, 10, 9M, 5C-5
194	120	65	16	6,000	FA-150KG-7

*S - Stainless Steel

*Minimum order required : 10pcs. / item.

DEPRESSED CENTER GRINDING WHEELS



AC N°	Size						Material	Maximum Free Speed	Models
	D		t		d				
	mm	in	mm	in	mm	in		min*	
161	50	2	4	5/32	9.53	3/8	A-36P	15,000	FA-2C-1, 1BF, 2CX-1, 1BF
161-1S	50	2	2	5/64	9.53	3/8	A-46P		
162	75	3	4	5/32	9.53	3/8	A-36S	15,000	FA-3C-1, 1F, 3CX-1, 1F
169	125	5	6	1/4	22.00	7/8	A-36P	12,000	FA-5E-1, 2, 13 Series
165	180	7	6	1/4	22.00	7/8	A-36P	8,400	FA-150KG-5, 6C-1, 1M, 6, 6M, 8, 8M, 9, 9M, 12, 12M FA-7E-1, 2, 3, 5, 6, 8 Series, FV-7-1M, 2M, 4M
168	230	9	6	1/4	22.00	7/8	A-36P	5,900	FA-9C-2, 2M, 4, 4M, FV-9BH-1M

*Minimum order required : 25pcs. / item. (162 = Minimum order required : 500pcs. / item, 168 = Minimum order required : 10pcs. / item.)



DRILLS / TAPPERS

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INSTRUCTIONS

DRILL SIZE, CUTTING SPEED AND MATERIAL

When selecting a suitable model of drill for your application, it should be chosen on the basis of drill bit size and suitable cutting speed for the material to be drilled. The table below shows the recommended drill bit sizes for different speeds when drilling some common materials.

The figures in the table are based on drill speeds at normal pressure and the minimum torque in conjunction with drill breakthrough. The table only shows which drill bit sizes give the cutting speeds within the ranges stated. Note that it is quite possible to drill with smaller diameter drill bits, i.e. at lower cutting speeds.

Longer drill bits than those indicated may also be used for occasional drilling work. However, in the case of drill bit sizes larger than the standard chuck capacity of the machine, the torque may be insufficient for the high cutting forces occurring in conjunction with drill breakthrough.

In order to obtain a sufficient cutting force when applying feed pressure by hand, pre-drilling is recommended for drill bit sizes above 8 mm when drilling in mild steel, soft cast iron, malleable iron as well as for holes larger than 6 mm in forged steel and stainless steel.

Suggested Cutting Speed (min⁻¹) for Drilling

Material	Stainless Steel	Forged Steel	Mild Steel	Soft Cast Iron	Malleable Iron	Brass or Bronze	Aluminum	Magnesium	Plastic	Wood	Titanium
Cutting speed (m/min)	9-12	12-15	24-33	30-45	24-27	60-90	60-90	75-120	30-45	90-120	15-18
Drill bit size											
3 mm	1100	1400	3000	4000	2700	8000	8000	10400	4000	11000	1750
4 mm	840	1100	2200	3000	2000	6000	6000	7800	3000	8400	1300
5 mm	660	860	1800	2400	1600	4800	4800	6200	2400	6700	1050
6 mm	550	700	1500	2000	1350	4000	4000	5200	2000	5600	880
8 mm	420	540	1100	1500	1000	3000	3000	3900	1500	4200	660
10 mm	330	430	900	1200	800	2400	2400	3100	1200	3300	630
12 mm	280	350	750	1000	700	2000	2000	2600	1000	2800	440
13 mm	260	330	700	920	630	1800	1800	2400	920	2550	400
14 mm	240	300	640	850	580	1700	1700	2200	850	2400	370
16 mm	210	270	560	750	500	1500	1500	1950	750	2100	330
19 mm	180	230	480	630	430	1250	1250	1600	630	1800	280
22 mm	150	200	410	540	370	1100	1100	1400	540	1500	240
23 mm	140	190	390	520	350	1000	1000	1350	520	1450	230
25 mm	130	170	360	480	320	960	960	1250	480	1330	210
28 mm	120	150	320	420	290	850	850	1100	420	1200	190
32 mm	100	130	280	380	250	750	750	980	380	1050	160
44 mm	75	100	210	270	180	550	550	700	270	750	120
50 mm	65	85	180	240	160	480	480	620	240	670	110
75 mm	44	57	120	160	110	320	320	420	160	450	70
100 mm	33	43	90	120	80	240	240	310	120	330	55

DRILLS FEATURES

REAR EXHAUST

Fuji offer some reversible drills. The reverse action is selected by simply turning the reverse lever.



TWO-STAGE THROTTLE ACTUATION

This mechanism allows slow start smooth operation to full speed allowing the drill bit to be centralised prior to drilling at full speed.



SWIVEL TYPE EXHAUST COVER

The exhaust cover can be rotated to enable the operator to choose a convenient direction of the exhaust air.



REAR EXHAUST WITH BUILT-IN MUFFLER

The noise level is minimised via the muffler built into the exhaust cover.



LOCKING HANDLE

The locking handle is designed to reduce the risk of inadvertent starting of the drill. The handle reverts automatically to the locked position when released.



PLASTIC COVER

The plastic cover softens the effect of vibration during the drilling application and creates a "warm to touch" feeling to improve operator comfort.



DEAD HANDLE

The dead handle helps to soften the breakthrough reaction force experienced when drilling "tough holes".



SELF-RETURN ROLL HANDLE

When the operator releases the handle, it automatically returns to the "OFF" position and the air supply is switched off. When ordering, add "S" to the end of the model name.



SWIVEL TYPE AIR EXHAUST HOSE JOINT (OPTION)

Connecting an air exhaust hose, with the optional swivel type air exhaust hose joint, provides improved operator comfort by directing the exhaust air away and reducing the noise level.



DRILLS

STRAIGHT/SIDE EXHAUST TYPE (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji Drills are light weight with a sturdy construction. Their practical design represents Fuji's latest developments in drills technology. Fuji offers a complete line of drills with a drilling capacity range from 2 mm to 100 mm.

FRD-5S



Model		Drilling Capacity		Stall Torque			Free Speed	Type and Size of Spindle		Chuck Capacity		Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
Thread Type	Taper type	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	Thread	Taper	Thread	Taper	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRD-5S-1		5	3/16	0.2	0.20	0.15	3,200	3/8-24	-	6.5	-	18.5	47/64	180	0.24	175	6 57/64	0.6	1.3	0.60	21.2	6.35	1/4
	FRD-5S-2T	2	5/64	0.3	0.03	0.22	24,000	-	J.T#D	-	5.0	18.5	47/64	180	0.24	164	6 15/32	0.6	1.3	0.60	21.2	6.35	1/4
	FRD-6S-1T	3	1/4	0.6	0.06	0.44	21,000	-	J.T#1	-	6.5	21.0	53/64	290	0.39	177	6 31/32	0.7	1.5	0.68	24.0	9.5	3/8
FRD-6S-2		5	3/16	2.5	0.25	1.84	4,300	3/8-24	-	6.5	-	21.0	53/64	290	0.39	209	8 15/64	0.9	1.9	0.68	24.0	9.5	3/8
FRD-6S-3		8	5/16	2.9	0.30	2.13	2,800	3/8-24	-	8.0	-	21.0	53/64	290	0.39	212	8 23/64	1.0	2.2	0.68	24.0	9.5	3/8
FRD-6S-5		10	7/16	6.9	0.70	5.08	1,300	3/8-24	-	10.0	-	23.0	29/32	290	0.39	233	9 3/16	1.0	2.2	0.68	24.0	9.5	3/8
FRD-6S-7		13	1/2	15.7	1.60	11.6	600	1/2-20	-	13.0	-	21.0	53/64	290	0.39	261	10 9/32	1.5	3.3	0.68	24.0	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING STRAIGHT/SIDE EXHAUST TYPE

FRD-6S



Model		Drilling Capacity		Stall Torque			Free Speed	Type and Size of Spindle		Chuck Capacity		Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
Thread Type	Taper type	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	Thread	Taper	Thread	Taper	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
•FRD-5S-1F		5	3/16	2.0	0.20	1.4	3,200	3/8-24	-	6.5	-	18.5	47/64	180	0.24	175	6 57/64	0.6	1.3	0.60	21.2	6.35	1/4
	FRD-5S-2TF	2	5/64	0.3	0.03	0.2	24,000	-	J.T#D	-	5.0	18.5	47/64	180	0.24	164	6 15/32	0.6	1.3	0.60	21.2	6.35	1/4
•FRD-6S-2F		5	3/16	2.5	0.25	1.8	4,300	3/8-24	-	6.5	-	21.0	53/64	290	0.39	209	8 15/64	0.9	1.9	0.68	24.0	9.5	3/8
•FRD-6S-3F		8	5/16	2.9	0.30	2.1	2,800	3/8-24	-	8.0	-	21.0	53/64	290	0.39	212	8 23/64	1.0	2.2	0.68	24.0	9.5	3/8
•FRD-6S-5F		10	7/16	6.9	0.70	5.0	1,300	3/8-24	-	10.0	-	23.0	29/32	290	0.39	233	9 3/16	1.0	2.2	0.68	24.0	9.5	3/8
•FRD-6S-7F		13	1/2	15.7	1.60	11.5	600	1/2-20	-	13.0	-	21.0	53/64	290	0.39	261	10 9/32	1.5	3.3	0.68	24.0	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

*Marked • are furnished with Dead Handle.

PISTOL/REAR EXHAUST TYPE

FRD-6PH-3



FRD-6PH-7



FRD-8PX



Model		Drilling Capacity		Stall Torque			Free Speed	Type and Size of Spindle		Chuck Capacity		Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
Thread Type	Taper type	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	Thread	Taper	Thread	Taper	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
•FRD-5P-1		5	3/16	2.0	0.20	1.4	3,200	3/8-24	-	6.5	-	18.0	45/64	180	0.24	155	6 7/64	0.6	1.3	0.40	14.1	6.35	1/4
	FRD-6PX-1T	3	1/8	0.6	0.06	0.44	21,000	-	J.T#1	-	6.5	21.0	0 53/64	290	0.39	182	7 11/64	1.0	2.2	0.55	19.2	9.5	3/8
	FRD-6PH-2	5	3/16	2.7	0.27	1.98	4,300	-	J.T#1	-	6.5	21.0	0 53/64	340	0.46	198	7 51/64	0.9	2.0	0.59	20.6	9.5	3/8
	FRD-6PH-3	6.5	1/4	4.3	0.43	3.17	2,800	-	J.T#1	-	6.5	21.0	0 53/64	340	0.46	198	7 51/64	0.9	2.0	0.59	20.6	9.5	3/8
	FRD-6PH-3(8)	8	5/16	4.3	0.43	3.17	2,800	-	J.T#1	-	8	21.0	0 53/64	340	0.46	205	8 5/64	1.0	2.2	0.59	20.6	9.5	3/8
	FRD-6PH-5	10	7/16	7.5	0.75	5.53	1,300	-	J.T#2S	-	10	21.0	0 53/64	320	0.43	243	9 9/16	1.4	3.1	0.59	20.6	9.5	3/8
	FRD-6PH-7	13	1/2	15.8	0.16	11.6	600	-	J.T#6	-	13	22.5	0 57/64	320	0.43	258	10 5/32	1.5	3.3	0.59	20.6	9.5	3/8
•FRD-8PX-1		8	5/16	5.9	0.60	4.3	2,600	3/8-24	-	8.0	-	25.0	63/64	440	0.59	187	7 3/8	1.5	3.3	0.76	26.8	9.5	3/8
•FRD-8PX-2		10	7/16	11.8	1.20	8.6	1,300	3/8-24	-	10.0	-	26.5	1 3/64	440	0.59	210	8 9/32	1.9	4.2	0.76	26.8	9.5	3/8
•FRD-8PX-3		13	1/2	16.7	1.70	12.3	900	1/2-20	-	13.0	-	25.5	1	440	0.59	240	9 29/64	2.5	5.5	0.76	26.8	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

*Marked • are furnished with Dead Handle.

ACCESSORIES

DRILL CHUCKS



N°	Models	Type and Size of Spindle	Chuck Capacity
DCK-5J	FRD-5S-2T, 2TF	J.T#D(Taper)	5mm
DCK-6.5	FRD-5S-1, 1F, 6S-2, 2F, 5P-1, 6PX-2	3/8-24(Thread)	6.5mm
DCK-8	FRD-6S-3, 3F, 6PX-3, 8PX-1	3/8-24(Thread)	8mm
DCK-10	FRD-6S-5, 5F, 6PX-5, 8PX-2	3/8-24(Thread)	10mm
DCK-13	FRD-6S-7, 7F, 6PX-7, 8PX-3, 12Z-1, 1C	1/2-20(Thread)	13mm
DCK-16	FRD-16Z-1, 1C	5/8-16(Thread)	16mm

GRIP HANDLE MEDIUM SIZE DRILLS



**FRD-12Z-1~ 16Z-1
(OUTSIDE LEVER)**



**FRD-12Z-1C~ 16Z-1C
(INSIDE LEVER)**

Model	Drilling Capacity		Stall Torque			Free Speed	Type and Size of Spindle		Chuck Capacity	Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
Outside Lever	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	Thread	Taper	mm	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRD-12Z-1	12	1/2	22.0	2.2	15.9	1,200	1/2-20	-	13	34	1 11/32	660	0.89	324	12 3/4	3.3	7.3	1.20	42.4	12.7	1/2
FRD-16Z-1	16	5/8	34.3	3.5	25.3	800	5/8-16	-	16	34	1 11/32	-	0.00	364	14 21/64	3.7	8.1	1.20	42.4	12.7	1/2
Inside Lever	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	Thread	Taper	mm	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRD-12Z-1C	12	1/2	22.0	2.2	15.9	1,200	1/2-20	-	13	34	1 11/32	660	0.89	324	12 3/4	3.3	7.3	1.20	42.4	12.7	1/2
FRD-16Z-1C	16	5/8	34.3	3.5	25.3	800	5/8-16	-	16	34	1 11/32	-	0.00	364	14 21/64	3.7	8.1	1.20	42.4	12.7	1/2

PT or NPT 3/8" Air Inlet Thread Size. All models can be used for reaming work.
FRD-12Z series 8mm capacity, and FRD-16Z series 13mm capacity.

HEAVY-DUTY DRILLS



FRD-40R~50R~65R



FRD-20R~32R



FRD-75R~100R

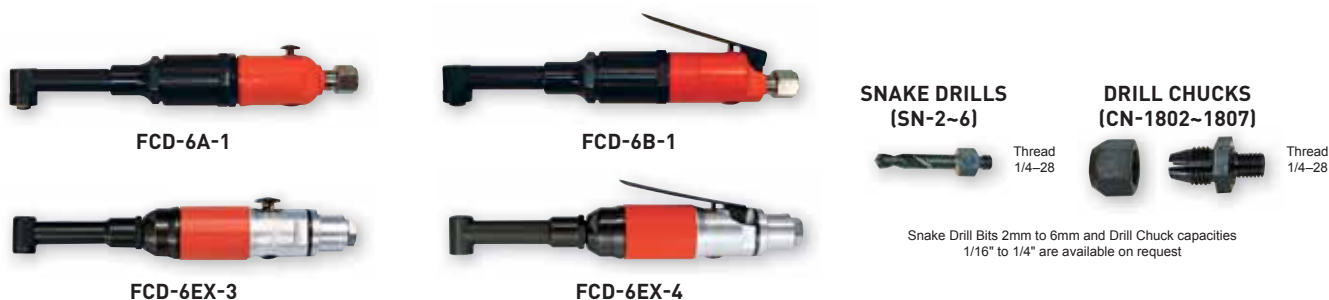
Model		Capacity				Stall Torque			Free Speed	Socket	Feed Length		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
		Drilling		Reaming Tapping		N.m	kgf.m	ft.lb	min ⁻¹	M.T.#	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Normal roll handle	Self-return Type	mm	in	mm	in																	
FRD-20R-21	FRD-20R-21S	19	3/4	16	5/8	63.7	6.5	47.0	600	2	67	2 41/64	880	1.18	282	11 7/64	7.0	15.4	1.20	42.4	12.7	1/2
FRD-20R-22	FRD-20R-22S	19	3/4	16	5/8	63.7	6.5	47.0	600	3	67	2 41/64	880	1.18	307	12 3/32	7.0	15.4	1.20	42.4	12.7	1/2
FRD-23R-21	FRD-23R-21S	22	7/8	19	3/4	78.4	8.0	57.8	480	2	67	2 41/64	880	1.18	282	11 7/64	7.3	16.0	1.20	42.4	12.7	1/2
FRD-23R-22	FRD-23R-22S	22	7/8	19	3/4	78.4	8.0	57.8	480	3	67	2 41/64	880	1.18	307	12 3/32	7.4	16.3	1.20	42.4	12.7	1/2
FRD-25R-11	FRD-25R-11S	25	1	22	7/8	147.0	15.0	108.4	530	3	96	3 25/32	210	2.82	353	13 29/32	14.0	30.8	3.20	113.0	19	3/4
FRD-28R-11	FRD-28R-11S	28	1 1/8	25	1	177.0	18.0	130.1	430	3	96	3 25/32	210	2.82	353	13 29/32	14.0	30.8	3.20	113.0	19	3/4
FRD-32R-11	FRD-32R-11S	32	1 1/4	25	1	196.0	20.0	144.6	380	3	96	3 25/32	210	2.82	353	13 29/32	14.5	31.9	3.20	113.0	19	3/4
FRD-32R-12	FRD-32R-12S	32	1 1/4	25	1	196.0	20.0	144.6	380	4	96	3 25/32	210	2.82	353	13 29/32	14.5	31.9	3.20	113.0	19	3/4
FRD-40R-11	FRD-40R-11S	44	1 47/64	32	1 1/4	304.0	31.0	224.2	220	4	93	3 43/64	180	2.41	446	17 9/16	18.7	41.1	3.20	113.0	19	3/4
FRD-50R-11	FRD-50R-11S	50	2	50	2	431.0	44.0	318.1	150	4	93	3 43/64	180	2.41	446	17 9/16	18.7	41.1	3.20	113.0	19	3/4
FRD-65R-1	FRD-65R-1S	65	2 9/16	65	2 9/16	608.0	62.0	448.4	190	5	125	4 59/64	330	4.43	487	19 11/64	32.0	70.4	5.50	194.2	25.4	1
FRD-75R-1	FRD-75R-1S	75	3	75	3	1156.0	118.0	855.0	85	5	128	5 3/64	310	4.16	600	23 5/8	43.0	94.6	5.50	194.2	25.4	1
FRD-100R-1		100	4	100	4	1823.0	186.0	1344.8	55	5	128	5 3/64	310	4.16	600	23 5/8	43.0	94.6	5.50	194.2	25.4	1

Air Inlet Thread Size: FRD-65R~100R: PT or NPT 1". All other models: 1/2".
"S" is with self return roll handle for CE and ANSI/NA market

BABY ANGLE DRILLS

BABY ANGLE DRILLS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji Baby Angle Drills are equipped with a compact head (low height and side-to-center head dimensions) to allow these tools to be used in confined areas. Ball and needle bearings used throughout angle heads provide long service life and less spindle run-out.



Model	Drilling Capacity (Guidance)		Stall Torque			Free Speed	Spindle Thread Size	Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	in	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Front Exhaust Type																			
FCD-6A-1	6	1/4	2.5	0.25	1.8	2,500	1/4-28UNF	9.5	3/8	160	0.21	223	8 49/64	0.60	1.3	0.56	19.8	6.3	1/4
FCD-6B-1	6	1/4	2.5	0.25	1.8	2,500	1/4-28UNF	9.5	3/8	160	0.21	222	8 47/64	0.60	1.3	0.56	19.8	6.3	1/4
Rear Exhaust Type																			
FCD-6EX-3	6	1/4	2.9	0.30	2.2	3,500	1/4-28UNF	8.5	11/32	290	0.39	246	9 11/16	0.69	1.5	0.76	26.9	6.3	1/4
FCD-6EX-4	6	1/4	2.9	0.30	2.2	3,500	1/4-28UNF	8.5	11/32	290	0.39	246	9 11/16	0.69	1.5	0.76	26.9	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER BABY ANGLE DRILLS



Model	Drilling Capacity (Guidance)		Stall Torque			Free Speed	Spindle Thread Size	Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	N.m	kgf.m	ft.lb	min-1	in	mm	in	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
Front Exhaust Type																			
FCD-6B-1F	6	1/4	2.5	0.25	1.8	2 500	1/4-28UNF	9.5	3/8	160	0.21	222	8 47/64	0.60	1.3	0.56	19.8	6.3	1/4

Air Inlet Thread Size: PT or NPT 1/4"

CORNER DRILLS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji utilizes their power transmission knowledge in their line of corner drills. In addition to their power, these drills are designed to work well in confined spaces.



Model	Drilling Capacity (Guidance)		Stall Torque			Free Speed	Spindle Thread Size	Chuck Capacity	Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	N.m	kgf.m	ft.lb				mm	in	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
FCD-6X-1	6	1/4	4.9	0.50	3.6	2,500	3/8-24UNF	6.5	21	53/64	340	0.46	267	10 33/64	1.7	3.7	0.68	24.0	9.5	3/8
FCD-6X-2	8	5/16	7.8	0.80	5.7	1,500	3/8-24UNF	8.0	21	53/64	290	0.39	281	11 1/16	1.9	4.1	0.68	24.0	9.5	3/8
FCD-10X-1	10	7/16	11.8	1.20	8.6	1,200	1/2-20UNF	10.0	21	53/64	420	0.56	377	14 27/32	2.2	4.8	0.50	17.6	9.5	3/8

*PT or NPT 1/4" Air Inlet Thread Size, All models are Rear Exhaust types.

LOCKING LEVER CORNER DRILLS



Model	Drilling Capacity (Guidance)		Stall Torque			Free Speed	Spindle Thread Size	Chuck Capacity	Side to Center		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	N.m	kgf.m	ft.lb				mm	in	W	hp	mm	in	kg	lb	m³/min	ft³/min	mm	in
FCD-6X-1F	6	1/4	4.9	0.50	3.6	2,500	3/8-24UNF	6.5	21	53/64	340	0.46	267	10 33/64	1.7	3.7	0.68	24.0	9.5	3/8
FCD-6X-2F	8	5/16	7.8	0.80	5.7	1,500	3/8-24UNF	8.0	21	53/64	290	0.39	281	11 1/16	1.9	4.1	0.68	24.0	9.5	3/8
FCD-10X-1F	10	7/16	11.8	1.20	8.6	1,200	1/2-20UNF	10.0	21	53/64	420	0.56	377	14 27/32	2.2	4.8	0.50	17.6	9.5	3/8

*PT or NPT 1/4" Air Inlet Thread Size, All models are Rear Exhaust types.

CORNER DRILLS

HEAVY-DUTY CORNER DRILLS (NON-REVERSIBLE)



F-14CN.S



F-22RCN.S



F-32RCN, 32RCNS

Model		Drilling Capacity				Stall Torque			Free Speed	Socket	Side to Center		Feed Length		Power		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
		Drilling	Reaming	Tapping																				
Normal roll handle	Self-return Type	mm	in	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	M.T.#	mm	in	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-14CN	F-14CN-1S	14	9/16	9.5	3/8	31.4	3.2	23.1	1,000	1	24	15/16	38	1 1/2	700	0.94	410	16 9/64	4.6	10.1	1.25	44.1	12.7	1/2
F-14CN-2	F-14CN-2S	14	9/16	9.5	3/8	31.4	3.2	23.1	1,000	2	24	15/16	38	1 1/2	700	0.94	410	16 9/64	4.6	10.1	1.25	44.1	12.7	1/2
F-22RCN	F-22RCN-1S	22	7/8	19.0	3/4	108.0	11.0	79.5	450	2	35	1 3/8	60	2 3/8	1100	1.48	493	19 13/32	8.5	18.7	1.50	53.0	12.7	1/2
F-32RCN	F-32RCN-1S	32	1 1/4	25.0	1	127.0	13.0	94.0	400	3	40	1 37/64	60	2 3/8	1320	1.77	523	20 19/32	9.7	21.3	1.50	53.0	12.7	1/2
F-32RCNS	F-32RCNS-1S	32	1 1/4	25.0	1	127.0	13.0	94.0	400	3	40	1 37/64	25	1	1320	1.77	529	20 53/64	8.8	19.3	1.50	53.0	12.7	1/2

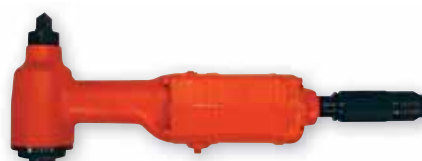
Air Inlet Size: F-14CN series: PT or NPT 3/8", All others: 1/2".

"S" is with self return roll handle for CE and ANSI/NA market

HEAVY-DUTY CORNER DRILLS (REVERSIBLE)



F-22RCR.S



F-32RCR.S



FCD-23R-50R.S



FCD-75R, 100R.S

Model		Drilling Capacity				Stall Torque	Free Speed	Socket	Side to Center	Feed Length	Power	Overall Length		Weight	Max. Air Consumption	Air Hose Size								
		Drilling		Reaming Tapping																				
Normal roll handle	Self-return Type	mm	in	mm	in	N.m	kgf.m	ft.lb	min ⁻¹	M.T.#	mm	in	mm	in	W	hp	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-22RCR	F-22RCR-1S	22	7/8	19.0	3/4	93.2	9.5	68.7	400	2	35	1 3/8	60	2 3/8	900	1.21	505	19 7/8	8.5	18.7	1.50	53.0	12.7	1/2
F-32RCR	F-32RCR-1S	32	1 1/4	25.0	1	113.0	11.5	83.1	315	3	40	1 37/64	60	2 3/8	810	1.09	538	21 3/16	10.0	22.0	1.50	53.0	12.7	1/2
FCD-23R-11	FCD-23R-11S	22	7/8	19.0	3/4	80.4	8.2	59.3	430	2	27	1 1/16	35	1 3/8	900	1.21	472	18 37/64	7.0	15.4	1.50	53.0	12.7	1/2
FCD-23R-12	FCD-23R-12S	22	7/8	19.0	3/4	80.4	8.2	59.3	430	3	27	1 1/16	35	1 3/8	900	1.21	472	18 37/64	7.1	15.6	1.50	53.0	12.7	1/2
FCD-32R-11	FCD-32R-11S	32	1 1/4	32.0	1 1/4	177.0	18.0	130.1	350	3	35	1 3/8	53	22 3/4	1600	2.15	578	22 3/4	13.5	29.7	1.80	63.5	12.7	1/2
FCD-50R-11	FCD-50R-11S	50	2	50.0	2	392.0	40.0	289.0	140	4	41	1 5/8	58	2 5/16	1600	2.15	595	23 27/64	16.0	35.2	2.25	79.4	19	3/4
FCD-75R-11	FCD-75R-11S	75	3	75.0	3	834.0	85.0	614.8	85	5	49	1 15/16	57	2 1/4	1900	2.55	651	25 5/8	20.5	45.1	2.50	88.3	19	3/4
FCD-100R-11	FCD-100R-11S	100	4	100.0	4	1370.0	140.0	1012.6	40	5	62	2 7/16	105	4 1/8	1900	2.55	730	28 3/4	29.3	64.4	2.25	79.4	19	3/4

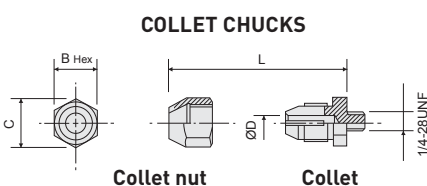
Air Inlet Thread Size: PT or NPT 1/2".

"S" is with self return roll handle for CE and ANSI/NA market

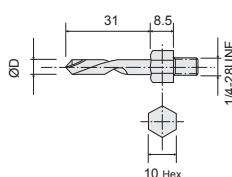
DRILLS

ACCESSORIES

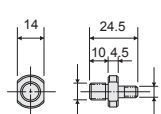
COLLET CHUCKS, SNAKE DRILLS, ATTACHMENT AND PADS FOR FCD-6A, 6B AND 6EX



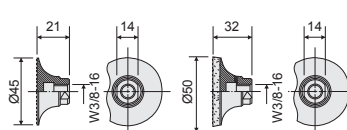
SNAKE DRILLS



ATTACHMENTS



VELCRO RUBBER PAD



AC N°	Part N°		Size				
			D		B(Hex)	C	L
	Collet nut	Collet	mm	in	mm	mm	mm
CN-1802	D-021343-00	D-021342-00	3	-	12	13.8	15
CN-1804	D-023343-01	D-023342-01	4	-	14	16.2	21
CN-1806	D-023343-01	D-023342-02	5	-	14	16.2	21
CN-1807	D-023343-00	D-023342-04	6	-	17	19.6	23
CN-1808	D-023343-00	D-023342-00	-	1/4	17	19.6	23

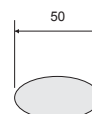
AC N°	Size	
	D	
	mm	
SN-2	2	
SN-3	3	
SN-4	4	
SN-5	5	
SN-6	6	

Part N°
A-179693-00

Part N°
MP-2-1

Part N°
MP-2-1S

VELCRO SANDING PAPERS



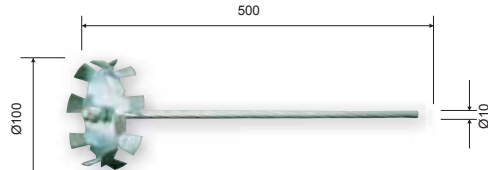
AC N°	Grit #
MP-2-10	40
MP-2-2	60
MP-2-3	80
MP-2-4	100
MP-2-5	120
MP-2-6	150
MP-2-7	240
MP-2-8	320

*Minimum order required : 100pcs. per item.

STIRRING PROPELLERS

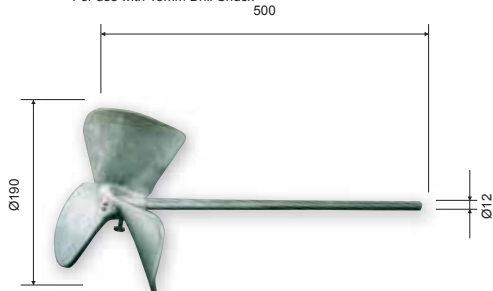
AC No. : AT-P01

For use with 10mm Drill Chuck

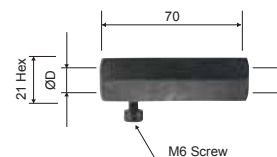


AC No. : AT-P02

For use with 13mm Drill Chuck



ADAPTERS TO CONNECT PROPELLERS TO DRILLS



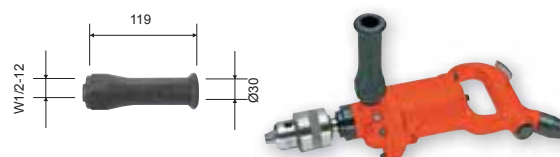
AC N°	Size	stirring propellers	Models
	D		
	mm		
M-002693-01	10	AT-P01	FRD-5S, 6S-2-5
M-002693-00	12	AT-P02	5P 8PX-1 2

*These adapters are designed to connect propellers directly to drills.

DEAD HANDLE FOR FRD-12Z, 16Z

PART No. : A-192014-00

This dead handle softens vibration and eases operator's fatigue much more than the ordinary dead handle.



STIRRING PROPELLERS

Stirring propellers attached to FRD series drills



SOFT JACKETS

- Soften vibration and Chill-touch
- Protect work piece and tool
- Improve comfort

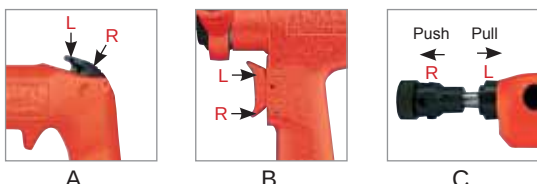


AC N°	Applicable Dia.	Thickness x Length
	mm	mm
SO-30	26 - 33	2 x 120
SO-35	34 - 42	
SO-55	56 - 70	

TAPPERS FEATURES

REVERSING

- A. Twin lever type-one lever for forward rotation (with throttle actuation) and one lever for reverse rotation (with throttle actuation).
- B. See-saw type lever for throttle actuation and reversing.
- C. Push/Pull type-forward rotation when the tool is pushed into the work-piece, reverse rotation when the tool is pulled away from the work-piece.

**TWO-STAGE THROTTLING**

This mechanism allows a "slow start" to ensure tap is correctly aligned prior to actuating "full speed".

**AIR REGULATOR**

A 4 click stop regulator is built in and the operator can regulate air supply for torque adjustment.

**DEAD HANDLE**

The dead handle is used to reduce the effect of "snatching" when tapping a through hole. It is also used when tapping "high torque" threads.

**REAR EXHAUST WITH AIR EXHAUST HOSE**

Connecting an air exhaust hose, provides improved operator comfort by directing the exhaust air away and reducing the noise level.

**REAR EXHAUST WITH BUILT-IN MUFFLER**

The noise level is minimised via the muffler built into the exhaust cover.

**UNIVERSAL TAPPING CHUCK**

The universal tapping chuck provides optimal grip of the tap during the tapping operation.

**DRILL CHUCKS**

A drill chuck can also be used for tapping where appropriate.



TAPPERS

Easy to use throttle and reversing trigger combined with a universal tapping chuck provide a smooth tapping operation. Fuji Tappers are available in tapping capacities from 6mm to 13mm.



FT-6P-1



FT-6BX-1
(DRILL CHUCK TYPE)



FT-6BX-1
(UNIVERSAL TAPPING
CHUCK TYPE)



FT-8PX-1



FT-13Z-1

Model	Type	Tapping Capacity (Guidance)				Free Speed (min ⁻¹)		Type and Size of Spindle	Chuck Capacity	Overall Length	Weight		Max. Air Consumption		Air Hose Size		
		Steel		Aluminum													
			mm	in	mm	in	R	L	Tapper #	M.T.#	mm	in	kg	lb	m ³ /min	ft ³ /min	mm
FT-6P-1	-	6	1/4	8	5/16	1,000	1,000	J.T.#1	8	236	9 19/64	1.8	4.0	0.50	17.7	9.5	3/8
FT-6BX-1	D	6	1/4	8	5/16	2,000	2,000	J.T.#1	6.5	205	8 7/64	1.3	2.9	0.56	19.8	8.0	5/16
FT-6BX-1	T	6	1/4	8	5/16	2,000	2,000	J.T.#1	8	240	9 29/64	1.3	2.9	0.56	19.8	8.0	5/16
FT-8PX-1	-	8	5/16	10	3/8	450	450	M.T.#1	9	232	9 9/64	2.0	4.4	0.50	17.7	9.5	3/8
FT-13Z-1	-	13	1/2	-	-	400	480	J.T.#6	13	384	15 1/8	4.0	8.8	1.25	44.1	12.7	1/2

*FT-6P-1, 6BX-1, 8PX-1: Air Inlet Thread Size: PT or NPT 1/4"

*FT-13Z-1: Air Inlet Thread Size: PT or NPT 3/8"

TYPE: D...Drill Chuck, T...Tapping Chuck.

ACCESSORIES

TAPPING CHUCKS



N°	Models	Type and Size of Spindle Taper #	Chuck Capacity
TCK-6	FT-6BX-1T	J.T.#1	8mm
TCK-8F	FT-8PX-1	M.T.#1	9mm
TCK-13-1	FT-13Z-1	J.T.#6	13mm

DRILL CHUCKS



N°	Models	Type and Size of Spindle Taper #	Chuck Capacity
DCK-6.5J	FT-6BX-1(D Type)	J.T.#1	6.5mm
DCK-8J	FT-6P-1	J.T.#1	8mm



PERCUSSIVE TOOLS

PERCUSSIVE TOOLS FEATURES _____	80
FLUX CHIPPERS / LIGHT HAMMERS _____	82
CHIPPING & CALKING HAMMERS / NEEDLE SCALERS_	83
SCALING HAMMERS / SAND RAMMERS _____	84
ACCESSORIES _____	85

PERCUSSIVE TOOLS FEATURES

VALVE MECHANISM

Equipped with following valve mechanism, Fuji Percussion Tools have trouble-free long life.

A. PLATE VALVE

Plate valve consists of four parts of valve sheet, valve cover, valve case and valve. This simple mechanism and plate valve surface provide longer durability.

FR Series

B. SLEEVE VALVE

Hollow valve enables a light and compact body and longer stroke for its size.

C. PISTON VALVE

High blow frequency (60Hz to 90Hz) can be maintained as this piston functions as a valve providing high working efficiency.



PLASTIC HANDLE COVER

The plastic handle cover reduces the effect of vibration and provides an insulated grip for the operator.



SCALING HEADS

Three models are available to suit different applications- single head, dual head and triple head.



LOW AIR CONSUMPTION

Low air consumption 0.14-0.18 m³/min (due to the valve mechanism) enables Fuji Percussion Tools to be used with a smaller compressor.



QUICK CHANGE ATTACHMENTS FOR PERCUSSIVE TOOLS

Attachment, such as chisels and needles, can be quickly and easily changed.



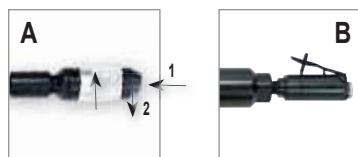
MULTI-NEEDLES

Fuji Needle Scalers utilise multiple needles that do not contaminate the workpiece.



LOCKING HANDLE

The locking handle are designed to reduce the risk of accidental starting of the tools. The handle is automatically locked when the operator releases the handle.



A. Locking Roll Handle : FS-2A

B. Locking Locking Lever Handle : FS, FR, FCH, FNS Series

TUNGSTEN CARBIDE TIPPED PISTON (OPTION)

4-point Tungsten Carbide Piston is available on request for heavy removal operations.



LOW BLOW FREQUENCY

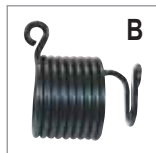
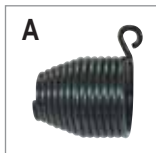
The built-in Sleeve Valve allows the operator to adjust the blow frequency by adjusting the throttle valve.



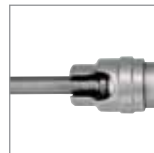
PERCUSSIVE TOOLS FEATURES

CHISEL RETAINER

- A. Holder Spring (Bee-Hive Retainer)
- B. Holder Spring (B) (Quick Change Retainer)

**CHISEL HOLDER**

Fuji Chipping and Calking Hammers are supplied with a chisel retainer as standard. This reduces the risk of the chisel releasing during operation.



PERCUSSIVE TOOLS

Fuji offers 3 variants of flux chippers with different removal rates.

They are ideal for various removal operations; light chipping, carving stone, scaling, removing paint, rust, weld flux and light fins from castings. FCH-25B offers a "blow" function which is ideal for blowing particles away from the work piece.

FLUX CHIPPERS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)



FCH-20



FCH-20F



FCH-25



FCH-25B
(SEPARATE BLOW TYPE)

Model	Blows	Piston Diameter		Stroke		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
Push Lever	Hz	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FCH-20	90	20	25/32	16	5/8	176	6 13/64	0.8	1.8	0.14	4.9	6.3	1/4
FCH-20F	90	20	25/32	16	5/8	182	7 5/32	1.0	2.2	0.14	4.9	9.5	3/8
FCH-25	60	25	1	20	25/32	204	8 1/32	1.5	3.3	0.18	6.4	9.5	3/8
FCH-25B	60	25	1	20	25/32	239	9 13/32	1.7	3.7	0.18	6.4	8.0	5/16

Air Inlet Thread Size: PT or NPT 1/4"

LOCKING LEVER FLUX CHIPPERS



FCH-25-1F



FCH-25B-1F
(SEPARATE BLOW TYPE)

Model	Blows	Piston Diameter		Stroke		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
Locking Lever	Hz	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FCH-20-1F	90	20	25/32	16	5/8	176	6 13/64	0.8	1.8	0.14	4.9	6.3	1/4
FCH-20F-1F	90	20	25/32	16	5/8	182	7 5/32	1.0	2.2	0.14	4.9	9.5	3/8
FCH-25-1F	60	25	1	20	25/32	204	8 1/32	1.5	3.3	0.18	6.4	9.5	3/8
FCH-25B-1F	60	25	1	20	25/32	239	9 13/32	1.7	3.7	0.18	6.4	8.0	5/16

Air Inlet Thread Size: PT or NPT 1/4"

LIGHT HAMMERS

Fuji light hammers provide a controllable impact for rivetting to reduce the effect of work hardening of the rivet or damage to the surrounding metal. These tools are easily adapted to perform other operations, such as cutting, ripping, shearing, punching and gouging with suitable chisels fitted.



FRH-3



FRH-6



FRH-6A

FRH-SERIES KIT

FRH-Model
Air Regulator
Hose Nipple
Holder Spring
Holder Spring (B)
7 kinds of Chisel
Metal Carrying Case



Model	Chisel Shank	Riveting Capacity (mm)		Blows	Piston Diameter		Stroke		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
		Duralmin	Steel		mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRH-3-1	Hex	3.2	2.5	60	14.3	9/16	38.0	1 1/2	140	5 33/64	1.1	2.4	0.35	12.4	9.5	3/8
FRH-3-2	Round	3.2	2.5	60	14.3	9/16	38.0	1 1/2	140	5 33/64	1.1	2.4	0.35	12.4	9.5	3/8
FRH-6-1	Hex	6.4	5.0	30	12.7	1/2	100.0	4	206	8 7/64	1.4	3.0	0.35	12.4	9.5	3/8
FRH-6-2	Round	6.4	5.0	30	12.7	1/2	100.0	4	206	8 7/64	1.4	3.0	0.35	12.4	9.5	3/8
FRH-6A-1	Hex	6.4	5.0	50	20.0	25/32	44.5	1 3/4	193	7 19/32	1.5	3.3	0.40	14.1	9.5	3/8
FRH-6A-2	Round	6.4	5.0	50	20.0	25/32	44.5	1 3/4	193	7 19/32	1.5	3.3	0.40	14.1	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

CHIPPING & CALKING HAMMERS

Fuji chipping and calking hammers are durable. They are excellent for concrete, stone, weld flux removal.



FC-01SA



FC-01



FC-1Z~4Z

Model	Blows	Piston Diameter		Stroke		Chisel Insert		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
	Hz	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FC-01SA-H	50	20.0	25/32	44.5	1 3/4	12 x 45		273	10 3/4	2.5	5.5	0.42	14.8	9.5	3/8
FC-01SA-R	50	20.0	25/32	44.5	1 3/4	14 x 45		273	10 3/4	2.5	5.5	0.42	14.8	9.5	3/8
FC-01-3	50	20.0	25/32	44.5	1 3/4	12 x 45		273	10 3/4	2.6	5.7	0.42	14.8	9.5	3/8
FC-01-4	50	20.0	25/32	44.5	1 3/4	14 x 45		273	10 3/4	2.6	5.7	0.42	14.8	9.5	3/8
FC-1Z-1	50	28.5	1 1/8	25.0	1	14.8 x 60		301	11 27/32	5.0	11	0.60	21.2	12.7	1/2
FC-1Z-2	50	28.5	1 1/8	25.0	1	17.5 x 60		301	11 27/32	5.0	11	0.60	21.2	12.7	1/2
FC-2Z-1	42	28.5	1 1/8	51.0	2	14.8 x 60		342	13 15/32	5.7	12.5	0.60	21.2	12.7	1/2
FC-2Z-2	42	28.5	1 1/8	51.0	2	17.5 x 60		342	13 15/32	5.7	12.5	0.60	21.2	12.7	1/2
FC-3Z-1	38	28.5	1 1/8	76.0	3	14.8 x 60		386	15 13/64	6.3	13.8	0.65	22.9	12.7	1/2
FC-3Z-2	38	28.5	1 1/8	76.0	3	17.5 x 60		386	15 13/64	6.3	13.8	0.65	22.9	12.7	1/2
FC-4Z-1	28	28.5	1 1/8	102.0	4	14.8 x 60		425	16 47/64	6.8	14.9	0.65	22.9	12.7	1/2
FC-4Z-2	28	28.5	1 1/8	102.0	4	17.5 x 60		425	16 47/64	6.8	14.9	0.65	22.9	12.7	1/2

Air Inlet Thread Size PT or NPT: 3/8" except FC-01 serie 1/4"

NEEDLE SCALERS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji needle scalers are useful for removing weld flux, sand from castings, scales from forgings, rust, paint, scales from ship hulls and finishing rough surfaces of rock or concrete. Fuji needle scalers feature a unique valve less design and work well on uneven or irregular surfaces.

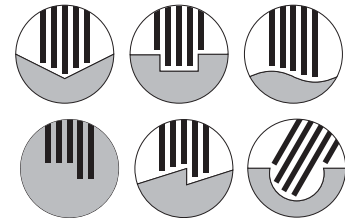


FNS-2



FNS-2P

MOVEMENT OF NEEDLES



Model	Throttle Type	Blows	Piston Diameter		Needle Roller		N° and Dia. of Needle		Needle Stroke		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
		Hz	mm	in	mm	in	3 mm	2 mm	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FNS-2	Straight	133	25	1	180	7 3/32	19	37	7	9/32	325	12 51/64	1.9	4.1	0.18	6.4	9.5	3/8
FNS-2P	Pistol	133	25	1	180	7 3/32	19	37	7	9/32	371	14 39/64	2.5	5.5	0.18	6.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

*Specify needle diameter (3mm or 2mm) when ordering.

LOCKING LEVER NEEDLE SCALERS



FNS-2-1F



FNS-2P-1F

Model	Throttle Type	Blows	Piston Diameter		Needle Roller		N° and Dia. of Needle		Needle Stroke		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
		Hz	mm	in	mm	in	3 mm	2 mm	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FNS-2-1F	Straight	133	25	1	180	7 3/32	19	37	7	9/32	325	12 51/64	1.9	4.1	0.18	6.4	9.5	3/8
FNS-2P-1F	Pistol	133	25	1	180	7 3/32	19	37	7	9/32	371	14 39/64	2.5	5.5	0.18	6.4	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

*Specify needle diameter (3mm or 2mm) when ordering.

PERCUSSIVE TOOLS

SCALING HAMMERS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji offers 1, 2 and 3 head scaling hammers. These tools have proven to be very efficient in cleaning heavily oxidized surfaces which occur on ships' hulls, bridges and storage tanks.



FS-2A

Model	Number of Cylinder	Blows	Piston Diameter		Stroke		Angle Height		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
		Hz	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FS-2A	1	133	30	1 3/16	16	5/8	94	3 11/16	510 (537)	20 5/64 (21 9/64)	2.5	5.5	0.25	8.8	9.5	3/8

Air Inlet Thread Size: PT or NPT 3/8"

LOCKING LEVER SCALING HAMMERS



FS-2A-1F

Model	Number of Cylinder	Blows	Piston Diameter		Stroke		Angle Height		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
		Hz	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FS-2A-1F	1	133	30	1 3/16	16	5/8	94	3 11/16	510 (537)	20 5/64 (21 9/64)	2.5	5.5	0.25	8.8	9.5	3/8

Air Inlet Thread Size: PT or NPT 3/8"

SAND RAMMERS (NOT AVAILABLE FOR CE AND ANSI/NA MARKETS)

Fuji sand rammers are powerful but light with a stroke range from 50mm to 127mm. Fuji sand rammers are excellent for ramming sand for casting in any ferrous or non-ferrous foundry. Non-rotary type rammers are available for use with irregular shaped butts.



FR-18B-25B



FR-18L-32



Model	Blows	Piston Diameter		Stroke		Butt Diameter		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
	Hz	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Push Lever															
FR-18B	30	18.0	45/64	50	1 31/32	41	1 5/8	280 (383)	11 1/32 (15 5/64)	1.5	3.3	0.40	14.1	9.5	3/8
FR-22B	17	22.0	55/64	64	2 33/64	51	2 1/32	350 (451)	13 25/32 (17 3/4)	3.0	6.6	0.50	17.7	9.5	3/8
FR-25B	13	25.4	1	83	3 17/64	67	2 41/64	506 (597)	19 59/64 (23 1/2)	5.5	12.1	0.70	24.7	12.7	1/2
FR-18L	30	18.0	45/64	50	1 31/32	41	1 5/8	558 (523)	21 31/32 (20 19/32)	2.0	4.4	0.40	14.1	9.5	3/8
FR-22L	17	22.0	55/64	64	2 33/64	51	2 1/32	633 (600)	24 59/64 (23 5/8)	3.3	7.2	0.50	17.7	9.5	3/8
FR-25L	13	25.4	1	83	3 17/64	67	2 41/64	1,043 (1,005)	41 1/16 (39 9/16)	6.0	13.2	0.70	24.7	12.7	1/2
FR-32	12	32.0	1 17/64	127	5	75	2 61/64	1,086 (1,090)	42 3/4 (42 29/32)	10.0	22.0	0.80	28.2	12.7	1/2

Air Inlet thread size : PT 1/4" except FR-25B, FR-25L, FR-32: 3/8"

LOCKING LEVER SAND RAMMERS



FR-18B-2F-25B-2F



FR-18L-2F-32-2F

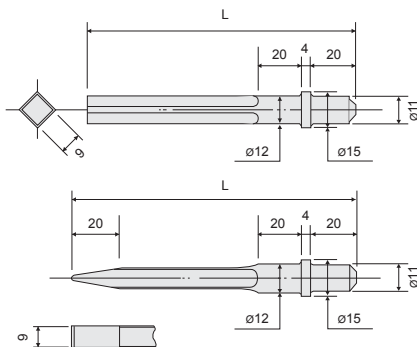
Model	Blows	Piston Diameter		Stroke		Butt Diameter		Overall Length		Weight		Air Consumption (at Load)		Air Hose Size	
	Hz	mm	in	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
Locking Lever															
FR-18B-2F	30	18.0	45/64	50	1 31/32	41	1 5/8	280 (383)	11 1/32 (15 5/64)	1.5	3.3	0.40	14.1	9.5	3/8
FR-22B-2F	17	22.0	55/64	64	2 33/64	51	2 1/32	350 (451)	13 25/32 (17 3/4)	3.0	6.6	0.50	17.7	9.5	3/8
FR-25B-2F	13	25.4	1	83	3 17/64	67	2 41/64	506 (597)	19 59/64 (23 1/2)	5.5	12.1	0.70	24.7	12.7	1/2
FR-18L-2F	30	18.0	45/64	50	1 31/32	41	1 5/8	558 (523)	21 31/32 (20 19/32)	2.0	4.4	0.40	14.1	9.5	3/8
FR-22L-2F	17	22.0	55/64	64	2 33/64	51	2 1/32	633 (600)	24 59/64 (23 5/8)	3.3	7.2	0.50	17.7	9.5	3/8
FR-25L-2F	13	25.4	1	83	3 17/64	67	2 41/64	1,043 (1,005)	41 1/16 (39 9/16)	6.0	13.2	0.70	24.7	12.7	1/2
FR-32-2F	12	32.0	1 17/64	127	5	75	2 61/64	1,086 (1,090)	42 3/4 (42 29/32)	10.0	22.0	0.80	28.2	12.7	1/2

Air Inlet thread PT : 3/8" except FR-18B-2F, FR-18L-2F, FR22L-2F: 1/4"

FUJI TOOLS - NEED TO KNOW MORE ? : WWW.FUJITOOLS.COM

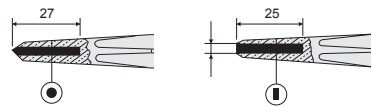
ACCESSORIES

CHISELS FOR FCH-20



Type	AC N°	Size
		L mm
Blank	G-1-1	125
	G-1-2	155
	G-1-3	200
	G-1-4	250
	G-1-5	300
Flat	G-2-1	130
	G-2-2	155
	G-2-3	200
	G-2-4	250
	G-2-5	300

TIPPED CHISELS FOR FCH-20



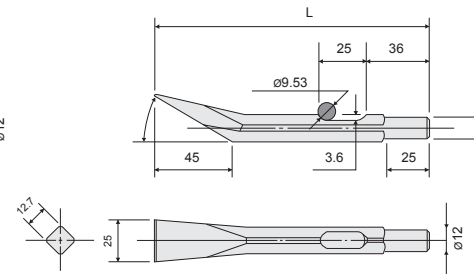
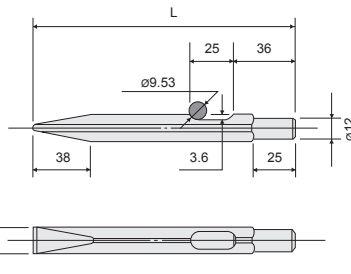
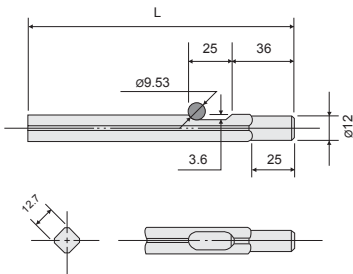
Type	AC N°	Overall Length	Remark
		mm	
Point	S-1	120	Standard
	S-3	160	Small Point
	S-2	120	Standard
Flat	S-4-1	160	Small Flat

BUSHING CHISELS FOR FCH-20



AC N°	Tip Size		
	Point	I x w x L	
TWH-0006	4	2.5 x 2.5 x 5	

CHISELS FOR FCH-20F, 25 AND 25B



Type	AC N°	Size
		L mm
Blank	F-1-1	140
	F-1-2	155
	F-1-3	200
	F-1-4	250
	F-1-5	300

Type	AC N°	Size
		L mm
Flat	F-2-2	155
	F-2-3	200
	F-2-4	250
	F-2-5	300
	F-2-7*	400

Type	AC N°	Size
		L mm
Flux	F-3-2	155
	F-3-3	200
	F-3-4	250
	F-3-5	300
	F-3-7	400

*Minimum order required : 10pcs. / item.

BUSHING CHISELS FOR FCH-20F, 25 AND 25B

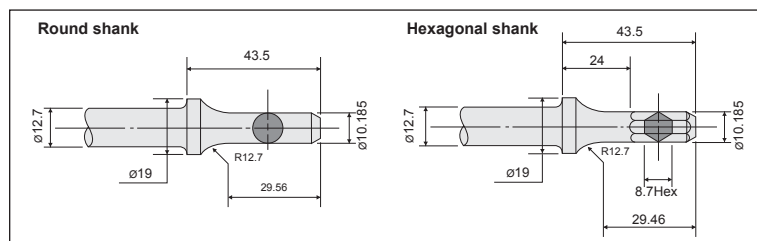


AC N°	Tip Size		
	Point	I x w x L	
TWH-0007	4	6 x 6 x 12	
TWH-0003	9	5 x 5 x 15	
TWH-0002	16	4 x 4 x 16	
TWH-0004	25	4.5 x 4.5 x 22.5	

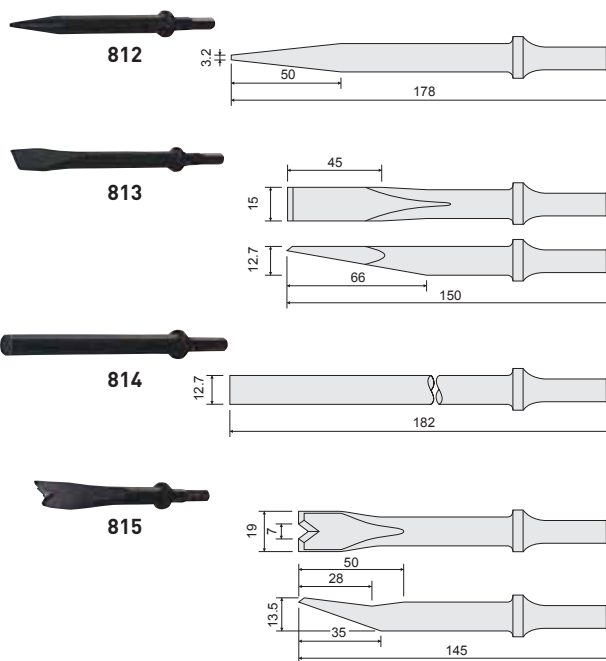
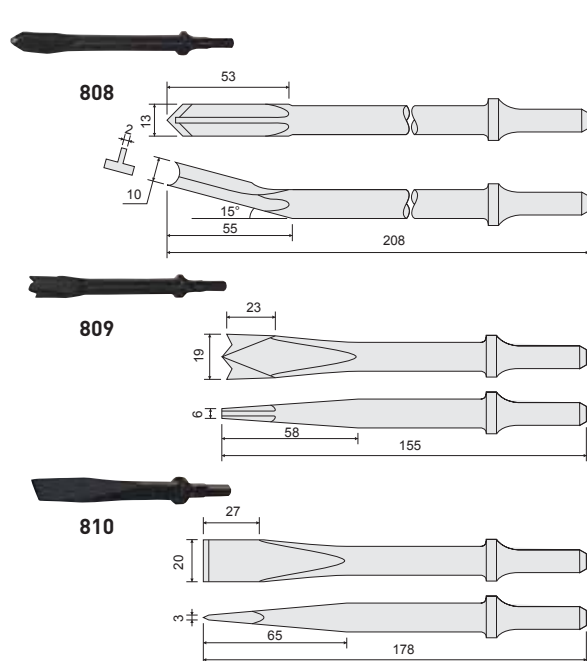
PERCUSSIVE TOOLS

ACCESSORIES

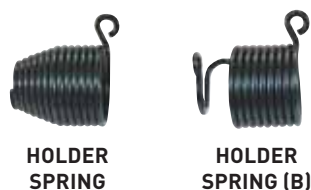
CHISELS FOR FRH SERIES



Type	AC N°		Part Name
	Round	Hexagonal	
808	WA-808	WA-808H	Muffler Cutter
809	WA-809	WA-809H	Double Edge Panel Cutter
810	WA-810	WA-810H	Flat Chisel
812	WA-812	WA-812H	Taper Punch
813	WA-813	WA-813H	Rivet Cutter
814	WA-814	WA-814H	Blank Chisel
815	WA-815	WA-815H	Spot Weld Breaker

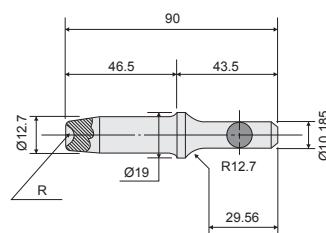


RETAINER FOR FRH AND FC-01SA SERIES



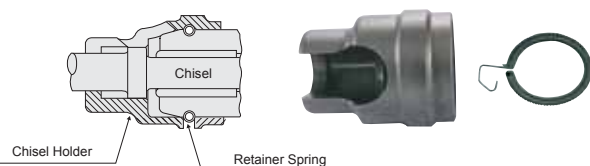
Part N°			Part Name
FC-01SA	FRH-3, 6	FRH-6A	
H-043715-00	H-019715-00	H-024715-00	Holder Spring
H-043719-00	H-019719-00	H-024719-01	Holder Spring (B)

RIVET SNAPS FOR FRH SERIES



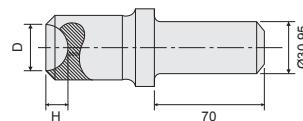
AC N°	R Size	Rivet Size
	mm	mm
SNAP-3	3.0	3
SNAP-4	3.7	4
SNAP-5	4.8	5
SNAP-6	5.1	6

CHISEL HOLDERS FOR FC SERIES



Part N°		Part Name
FC-01	FC-1Z~4Z	
H-059714-00	H-047714-01	Chisel Holder
H-059761-00	H-047761-00	Retainer Spring

BUTTON-HEAD RIVET SNAPS FOR B SERIES



AC N°	Button Head Rivet Rivet Diameter		Rivet Snap Dimensions (mm)	
	mm	in	D	H
SNAP-50	10	3/8	15.8	6.5
SNAP-51	13	1/2	20.5	8.3
SNAP-52	16	5/8	25.5	10.2
SNAP-53	19	3/4	29.5	12.5
SNAP-54	22	7/8	34.5	14.4
SNAP-55	25	1	39.5	16.2

ACCESSORIES

CHISELS FOR FC-SERIES

CHISELS / MODELS REFERENCE

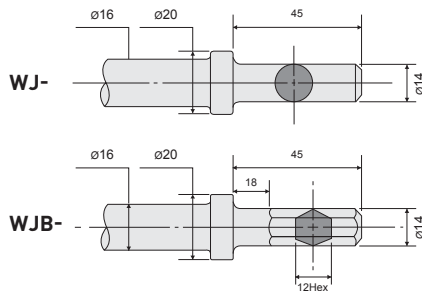
	Shape of Chisel Bush	
WJ-	Round	FC-01-4
WJB-	Hex	FC-01-3

	Shape of Chisel Bush	
WG-	Round	FC-1Z-2~4Z-2
WH-	Hex	FC-1Z-1~4Z-1

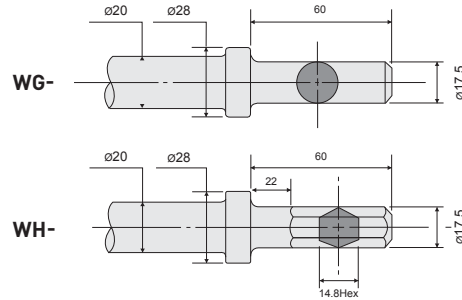
	Chisel End Shape
P	Point
F	Flat
SL	Scaling

CHISELS SHANK SIZE

FC-01,01SA



FC-1Z~4Z



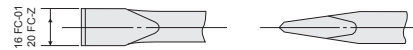
SHAPES OF CHISEL ENDS

BLANK CHISELS



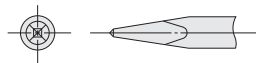
AC N°	Overall Length mm	Chisel Shank	Model
WJ-8	200	Round	FC-01-4 FC-01SA
WJ-10	250		
WJ-12	300		
WJ-16	400		
WJB-8	200	Hex	FC-01-3 FC-01SA
WJB-10	250		
WJB-12	300		
WJB-16	400		
WG-10	250	Round	FC-1Z-2~ 4Z-2
WG-12	300		
WH-10	250	Hex	FC-1Z-1~ 4Z-1
WH-12	300		

FLAT CHISELS (F)



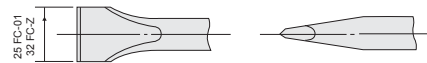
AC N°	Overall Length mm	Chisel Shank	Model
WJ-8F	200	Round	FC-01-4 FC-01SA
WJB-8F	200	Hex	FC-01-3 FC-01SA
WJB-10F	250		
WG-8F	200	Round	FC-1Z-2~ 4Z-2
WG-10F	250		
WH-8F	200	Hex	FC-1Z-1~ 4Z-1
WH-10F	250		

POINT CHISELS (P)



AC N°	Overall Length mm	Chisel Shank	Model
WJ-8P	200	Round	FC-01-4 FC-01SA
WJB-8P	200	Hex	FC-01-3 FC-01SA
WJB-10P	250		
WG-8P	200	Round	FC-1Z-2~ 4Z-2
WG-10P	250		
WH-8P	200	Hex	FC-1Z-1~ 4Z-1
WH-10P	250		

SCALING CHISELS (SL)



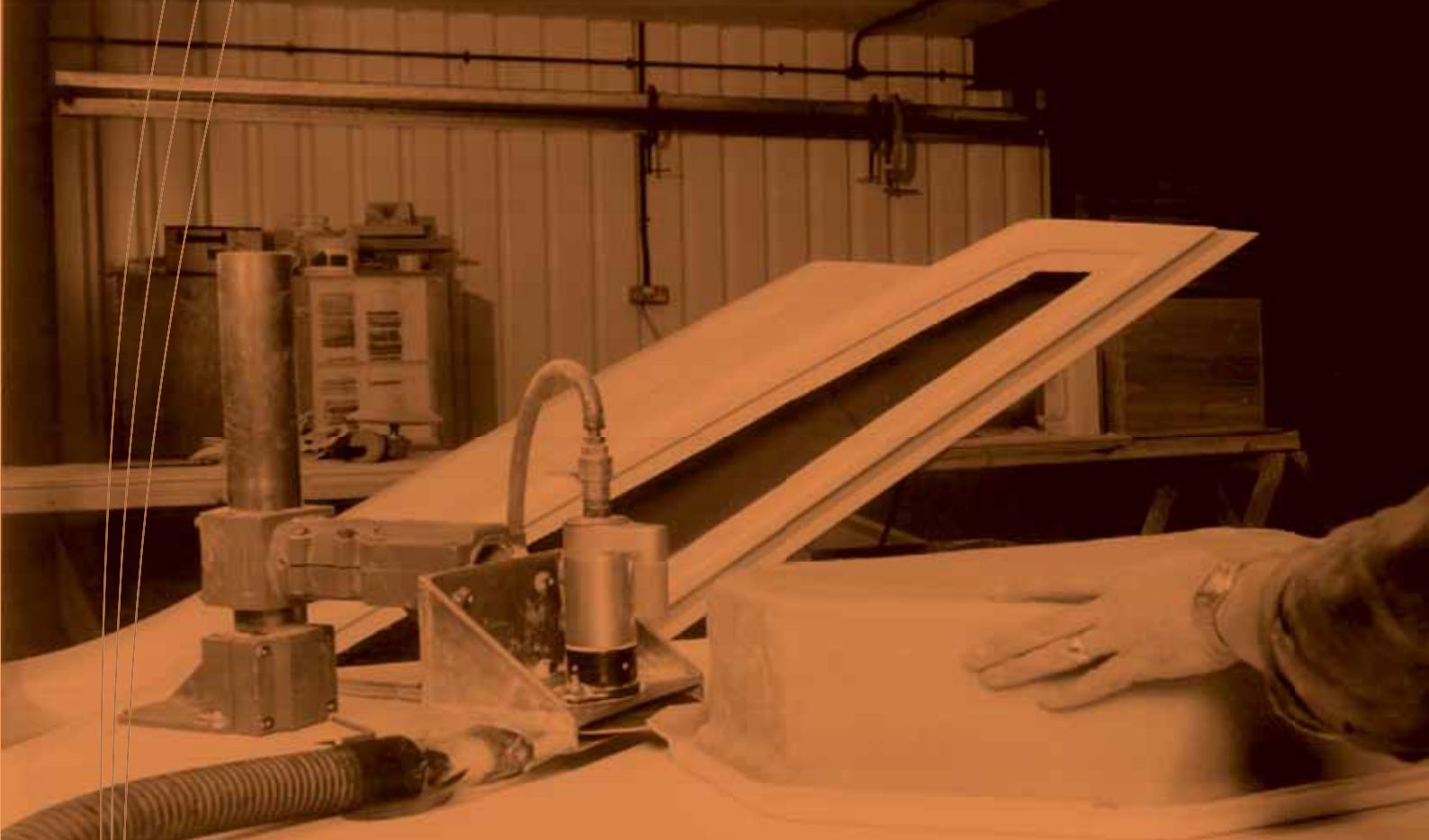
AC N°	Overall Length mm	Chisel Shank	Model
WJ-8SL	200	Round	FC-01-4 FC-01SA
WJB-8SL	200	Hex	FC-01-3 FC-01SA
WJB-10SL	250		
WG-8SL	200	Round	FC-1Z-2~ 4Z-2
WG-10SL	250		
WH-8SL	200	Hex	FC-1Z-1~ 4Z-1
WH-10SL	250		

RUBBER BUTTS FOR FR-SERIES



Type	Size			Model
	D mm	d mm	H mm	
R-1	51	11.8	60	FR-18B, 18L
R-1-1	41	12.7	47	FR-18B, 18L
R-2	51	13.75	60	FR-22B, 22L
R-3	67	17.25	80	FR-25B, 25L
R-4	75	18.75	92	FR-32

NOTES



AIR MOTORS

REVERSIBLE / NON-REVERSIBLE TYPE _____ 90

AIR MOTORS

Fuji Air Motors are compact and light weight, yet sturdy and offer high power-to-weight ratios.

Fuji offers a wide range of air motors from small 0.1 kW hand-held motor to large 20 kW stationary motor which are found at versatile industries like ships, chemical plants, mines and power plants etc. As air motors are less likely to generate sparks (unlike brushes in electric motors), they are better suited for use in hazardous environments.

Please refer to your Fuji sales representative to get detailed air motor specifications and air diagram information.

REVERSIBLE TYPE



F-5SM-8.5R



F-5SM-2R



F-6SM-2.5R-28R



F-8SM-12R-28R



F-8SM-8.5R

Model	Stall Torque			Power		Free Speed	Overall Length		Weight		Air Consumption		Air Hose Size	
	N.m	kgf.m	ft.lb	W	PS	min ⁻¹	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-5SM-8.5R	5.4	0.55	4.0	120	0.16	850	147	5 11/64	0.6	1.3	0.28	9.9	6.3	1/4
F-5SM-2R	21.6	2.20	15.9	100	0.14	190	182	7 11/16	0.8	1.8	0.28	9.9	6.3	1/4
F-6SM-28R	3.3	0.34	2.5	250	0.34	2,300	147	5 11/64	0.8	1.8	0.34	12.0	8.0	5/16
F-6SM-21R	4.0	0.41	3.0	260	0.35	2,000	146	5 3/4	0.9	2.0	0.34	12.0	8.0	5/16
F-6SM-12R	5.9	0.60	4.3	230	0.31	1,000	157	6 3/16	0.8	1.8	0.34	12.0	8.0	5/16
F-6SM-8R	9.8	1.00	7.2	230	0.31	750	179	7 1/16	1.0	2.2	0.34	12.0	8.0	5/16
F-6SM-5R	14.7	1.50	10.8	220	0.30	500	180	7 3/32	1.0	2.2	0.34	12.0	8.0	5/16
F-6SM-2.5R	26.0	2.65	19.2	210	0.29	250	192	7 9/16	1.2	2.6	0.34	12.0	8.0	5/16
F-8SM-28R	6.4	0.65	4.7	380	0.52	2,300	183	7 13/64	1.5	3.3	0.50	17.7	9.5	3/8
F-8SM-12R	9.8	1.00	7.2	370	0.50	1,100	199	7 53/64	2.2	4.8	0.50	17.7	9.5	3/8
F-8SM-8.5R	14.7	1.50	10.8	370	0.50	850	222	8 3/4	2.4	5.3	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/8" except F-8SM- series: 1/4"

*Specify type of spindle when ordering.

NON-REVERSIBLE TYPE



F-6SE



F-6SF



F-6PFX

Model	Stall Torque			Power		Free Speed	Overall Length		Spindle Thread Size	Weight		Air Consumption		Air Hose Size	
	N.m	kgf.m	ft.lb	W	PS	min ⁻¹	mm	in	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-6SE	15.7	1.6	11.6	260	0.35	600	210	8 9/32	3/8-24UNF	1.0	2.2	0.42	14.8	9.5	3/8
F-6SF	28.4	2.9	21.0	260	0.35	300	225	8 55/64	3/8-24UNF	1.1	2.4	0.43	15.2	9.5	3/8
F-10MT	78.5	8.0	57.8	370	0.50	180	270	10 41/64	1/2-20UNF	3.4	7.5	0.63	22.3	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4"

*For application examples, please refer to the stirring propellers

NON-REVERSIBLE TYPE

F-5SM-8.5

F-6SM-2.5~28

F-5SM-2

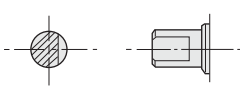
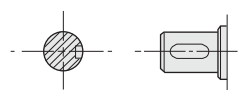
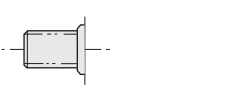
F-8SMA-8.5~28

Model	Stall Torque			Power		Free Speed	Overall Length		Weight		Air Consumption		Air Hose Size	
	N.m	kgf.m	ft.lb	W	PS	min ⁻¹	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-5SM-8.5	5.9	0.60	4.3	130	0.18	950	153	6 1/32	0.6	1.3	0.28	9.9	6.3	1/4
F-5SM-2	23.5	2.40	17.4	120	0.16	200	187	7 3/8	0.9	2.0	0.28	9.9	6.3	1/4
F-6SM-28	3.9	0.40	2.9	290	0.40	2,800	167	6 37/64	0.7	1.5	0.34	12.0	9.5	3/8
F-6SM-21	4.4	0.45	3.3	290	0.40	2,400	167	6 37/64	0.8	1.8	0.34	12.0	9.5	3/8
F-6SM-12	7.4	0.75	5.4	290	0.40	1,300	181	7 1/8	0.9	2.0	0.34	12.0	9.5	3/8
F-6SM-8	10.8	1.10	8.0	260	0.35	900	200	7 7/8	1.0	2.2	0.34	12.0	9.5	3/8
F-6SM-5	15.7	1.60	11.6	260	0.35	600	200	7 7/8	1.0	2.2	0.34	12.0	9.5	3/8
F-6SM-2.5	28.4	2.90	21.0	260	0.35	300	213	8 25/64	1.2	2.6	0.34	12.0	9.5	3/8
F-8SMA-28	5.9	0.60	4.3	440	0.60	2,600	171	6 47/64	1.5	3.3	0.50	17.7	9.5	3/8
F-8SMA-12	11.8	1.20	8.7	440	0.60	1,300	200	7 7/8	2.0	4.4	0.50	17.7	9.5	3/8
F-8SMA-8.5	16.7	1.70	12.3	440	0.60	900	208	8 3/16	2.2	4.8	0.50	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT: 1/4" except F-5SM- series 1/8"

*Specify type of spindle when ordering.

Type of Spindle

Chord Type	Key Type	Thread Type		
				
Model	Model	Model	Spindle Thread Size	Applicable Drill Chuck
F-5SM series F-6SM series	F-8SMA series F-8SM series	F-6SM-5, 8, 12, 21 F-8SMA-12, 28 F-6SE, 6SF, 6PFX	3/8-24(UNF)	DCK-6.5 DCK-8 DCK-10
		F-8SMA-8.5 F-10MT	1/2-20(UNF)	DCK-13

*Drill chucks are applicable to thread type spindle models.

Hose Connection

NON-REVERSIBLE TYPE



REVERSIBLE TYPE





COMPLEMENTARY RANGE

AIR FILES / AIR SAWS _____	94
CHAMFERING / ALUMINUM MILLING MACHINES _____	95
PIPE BEVELLING MACHINES _____	96
SUMP PUMPS / PISTON PUMPS _____	98
TIP DRESSERS _____	99
MARKING PEN / AIR CLEANERS _____	100

AIR FILES / AIR SAWS

Fuji FRF series compact Air File & Saws feature reduced vibration and are designed for deburring, filing and cutting of metal, wood, plastic, and fibreglass.

The FRS-45 Air Saw is equipped with a damper to minimize vibration and, a stroke regulator and blade cooling device. The cutting direction is adjustable to provide optimal operator comfort.



FRF-4-1, 2



FRS-45

Model	Tool Name	Stroke Per Minute SPM	Stroke		Chuck Capacity		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
			mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FRF-4-1F	File	1,600	12.0	15/32	4.0 x 13.0 x 20	5/32 x 1/2 x 25/32	229	9 1/32	0.8	1.7	0.28	9.9	6.3	1/4
FRF-4-2F	Saw	1,600	12.0	15/32	2.0 x 13.0 x 20	5/64 x 1/2 x 25/32	233	9 3/16	0.8	1.7	0.28	9.9	6.3	1/4
FRS-45	Saw	1,200	45.0	1 25/32	2.5 x 17.7 x 31	3/32 x 45/64 x 1 7/32	419	16 1/2	2.9	6.3	0.40	14.1	9.5	3/8

Air Inlet Thread Size: PT or NPT1/4"

*Models marked 1F, 2F are locking lever handle types.

ACCESSORIES

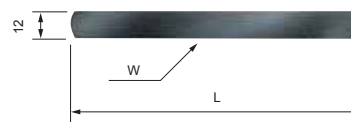
FILE BLADES FOR FRF-4-1, 1F



Model	Tool Name	Stroke Per Minute SPM	Stroke mm
1	•FILE-4P	Pillar	150
2	•FILE-4H	Half Round	
3	•FILE-4R	Round	
4	•FILE-4C	Triangle	
5	•FILE-4S	Square	

* =Accessories included in FRF-4-1, 1F

SAW BLADE FOR FRF-4-2, 2F

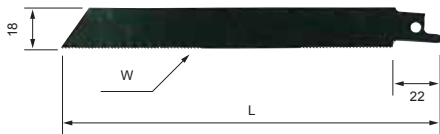


Model	Stroke	
	L mm	mm
•SAW-4	123	25

* =Accessories included in FRF-4-2, 2F.

* W =The number of teeth per inch.

SAW BLADES FOR FRS-45



AC N°	Size		Cutting Materials
	L mm	W	
SAW-2014	200	14	steel plate, pipe, copper, brass, plastic, slate
•SAW-2018	200	18	steel plate, pipe
•SAW-2024	200	24	steel plate, pipe
•SAW-2514	250	14	steel plate, pipe, copper, brass, plastic, slate
•SAW-2518	250	18	steel plate, pipe
•SAW-3014	300	14	steel plate, pipe, copper, brass, plastic, slate
•SAW-3018	300	18	steel plate, pipe

* =Accessories included in FRS-45. W =The number of teeth per inch.

*Using cutting fluid extends life of blade. A mixture of turpentine and kerosene with spindle oil,

*soapsuds, grease at the rate of 7 to 3 is recommended.

STANDARD ACCESSORIES FOR FRS-45



SAW-2018	Saw Blade (1)
SAW-2024	Saw Blade (1)
F-704	4mm Hex. Pin Wrench (1)
F-706	6mm Hex. Pin Wrench (1)
AO-30	Oil (1)
CASE-T431	Steel Case (1)

CHAMFERING / ALUMINUM MILLING MACHINES

CHAMFERING MACHINES

Fuji Chamfering Machines are powerful and durable. They are ideal for chamfering edges of steel skeleton materials used in various industries such as ship building, bridge and steel frame construction. Pneumatically driven with easily replaceable carbide tips provide uniform and precise chamfering.



FBM-2-1



FBM-2-1F

Model	Chamfering Size	Max. Output		Rotational Frequency	Overall Length		Weight		Air Consumption (Free Speed)		Air Hose Size	
	mm	W	hp	min ⁻¹	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FBM-2-1	R4	900	1.2	10,000	144	5 43/64	3.6	8.0	1.2	42.6	9.5	3/8
FBM-2-1F	R4	900	1.2	10,000	144	5 43/64	3.7	8.2	1.2	42.6	9.5	3/8

Air Inlet Thread Size: PT or NPT 3/8"

ALUMINUM MILLING MACHINES

Aluminum Milling Machines are ideal portable tools to remove weld beads flush to the work surface and "V" grooving for aluminum welds milling type rotary cutters. The high power motor supplied with speed control governor provides smooth milling. The tools feature easy depth adjustments, chip blowing, milling cutter cooling, slow start throttle, and center guide with roller for easy operation.



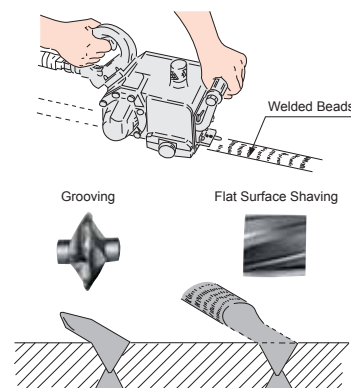
FRC-200-1



FRC-300-1

- Grooving cutter dia. 62 mm
- Flat surface shaving cutter dia. 50 mm

- Grooving cutter dia. 100 mm
- Flat surface shaving cutter dia. 61 mm

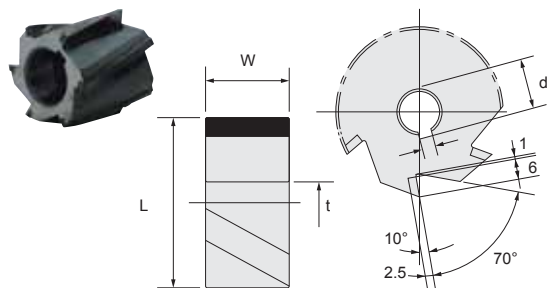


Model	Max. Grooving Depth	Max. Cutter Width	Cutter Shaft Dia.	Power		Rotational Frequency	Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	mm	mm	W	PS	min ⁻¹	mm	in	kg	in	m ³ /min	ft ³ /min	mm	in
FRC-200-1	15.5	50	12	1250	1.7	7,000	295	11 39/64	4.7	10.3	1.4	49.4	12.7	1/2
FRC-300-1	30.0	50	15	2650	3.6	4,600	372	14 41/64	14.0	30.8	2.2	77.7	19.0	3/4

Air Inlet Thread Size: PT or NPT 3/8"

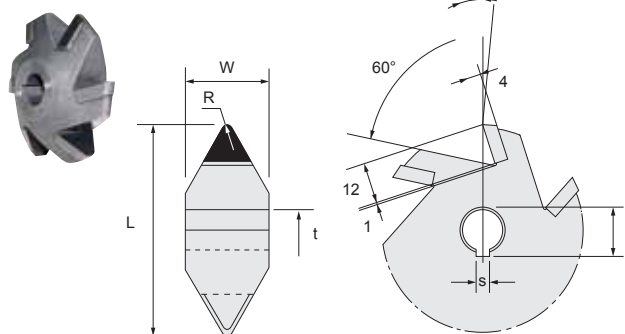
ACCESSORIES

CUTTERS FOR FRC-200, 300 SERIES



Flat surface shaving Cutter

AC N°	Size (mm)					Models
	L	W	t	d	s	
CUT-0205	50	25	12ø	13.7	4	FRC-200-1
CUT-0204	60	51	15ø	17.3	5	FRC-300-1



Grooving cutter

AC N°	Size (mm)					Models
	L	R	W	t	d	
CUT-0202	62	3	25	12ø	13.7	FRC-200-1
CUT-0208	100	4	42	15ø	17.3	FRC-300-1

PIPE BEVELLING MACHINES

Fuji Portable Pipe Beveling Machines feature a powerful motor, zero torque reaction, in-pipe chucking, and variable speed control to assure a precise and fast beveling operation. They are available with beveling capacities from 12 mm through 240 mm pipe inside diameter.



FBM-16-1



FBM-24-1



FBM-80A



FBM-300

Model and Assortment	Capacity (Pipe Inside Dia.)		Stall Torque			Rotational Frequency min ⁻¹	Feed Length		Side to Center		Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	N.m	kgf.m	ft.lb		mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FBM-16-1(S)	12~16	15/32~5/8	25.0	2.6	18.8	290	20	51/64	19	3/4	261	10 17/64	2.6	5.7	0.40	14.1	8	5/16
FBM-24-1 (S)	14~24	35/64~15/16	49.0	5.0	36.1	180	30	1 3/16	27	1 1/16	278	10 15/16	2.9	6.4	0.40	14.1	8	5/16
FBM-80A-2(S)	30~40	1 3/16~1 9/16	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.5	14.3	0.60	21.2	8	5/16
FBM-80A-3(S)	40~80	1 9/16~3 1/8	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.7	14.7	0.60	21.2	8	5/16
FBM-80A-4(S)	30~80	1 3/16~3 1/8	FBM-80A-4 is supplied with the Chuck Assemblies attached to FBM-80A-2 and FBM-80A-3														8	5/16
FBM-80A-5(S)	20~29	2 5/32~1 5/32	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.0	13.2	0.60	21.2	8	5/16
FBM-80A-6(S)	20~80	2 5/32~3 1/8	FBM-80A-6 is supplied with a full range of Chuck Assemblies and Tool Holder Assemblies														8	5/16
FBM-300-2(S)	80~120	3 9/64~4 23/32	431.0	44.0	318.2	75	60	2 23/64	56	2 13/64	524	20 5/8	23.7	52.1	1.60	56.5	12.7	1/2
FBM-300-3(S)	120~240	4 23/32~9 29/64	431.0	44.0	318.2	75	60	2 23/64	135	5 5/16	603	23 47/64	26.8	60.0	1.60	56.5	12.7	1/2
FBM-300-4(S)	80~240	3 9/64~9 29/64	Supplied with a full set of Chuck Assemblies and Tool Holder Assemblies														12.7	1/2

*FBM-16, 24, 80A: 1/4" Air inlet thread. FBM-300: 1/2" Air Inlet thread.

*Optional Chuck Ass'y. for 240~300 mm Pipe Beveling is also available on request.
Models marked -S are self-return Roll handle Types.

FULL SET
FBM-16-1(S)



FULL SET
FBM-24-1(S)



FULL SET
FBM-80A-6(S)



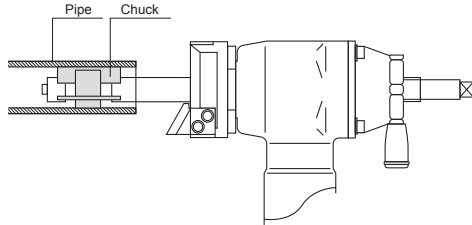
FULL SET
(4 CASES)
FBM-300-4(S)



ACCESSORIES

CHUCKS PROVIDED FOR FBM-16, 24, 80A AND 300

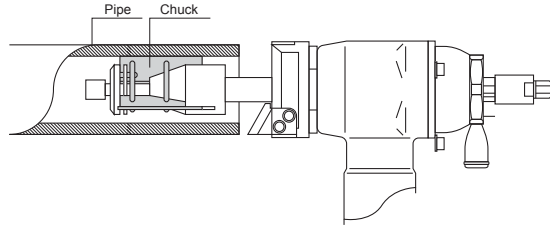
FBM-16, 24, 80A, 300



CHUCK TYPE Δ



FBM-16-1
FBM-24-1
FBM-80A (20mm~29mm)



CHUCK TYPE •



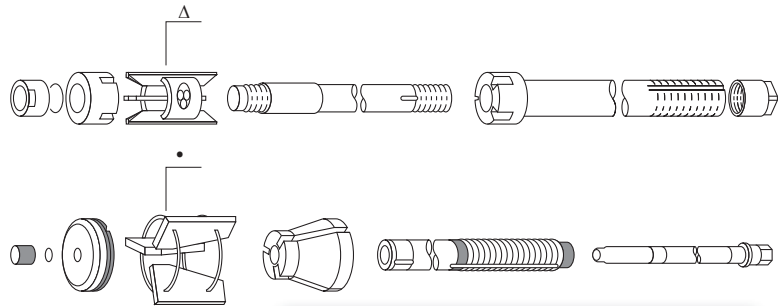
FBM-80A (30mm~80mm)
FBM-300 (240mm)
3 pcs are necessary for each size

FBM-16-1, 1S Δ

Parts N°	Pipe size mm
S-138638-00	12~16
S-138638-01	14~16
S-138638-03	18~20

FBM-24-1, 1S Δ

Parts N°	Pipe size mm
S-120638-10	14~16
S-120638-11	16~18
S-120638-12	18~20
S-120638-13	20~22
S-120638-14	22~24



FOR FBM-80A Δ •

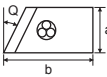
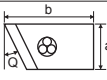
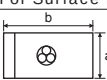
Models	Parts N° (S-121638)			Parts N° (S-162638)						
	-00 20~23	-01 23~26	-02 26~29	-00 30~35	-01 35~40	-02 40~48	-03 48~56	-04 56~64	-05 64~72	-06 72~80
-2(30~40mm)	-	-	-	•	•	-	-	-	-	-
-3(40~80mm)	-	-	-	-	-	•	•	•	•	•
-4(30~80mm)	-	-	-	•	•	•	•	•	•	•
-5(20~29mm)	Δ	Δ	Δ	-	-	-	-	-	-	-
-6(20~80mm)	Δ	Δ	Δ	•	•	•	•	•	•	•



FOR FBM-300 •

Models	Parts N° (S-158638)															
	-00 80-90	-01 90-100	-02 100-110	-03 110-120	-04 120-130	-05 130-140	-06 140-150	-07 150-160	-08 160-170	-09 170-180	-10 180-190	-11 190-200	-12 200-210	-13 210-220	-14 220-230	-15 230-240
-2(80~120mm)	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-
-3(120~240mm)	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•

STANDARD BIT TOOLS

Bit Tool Shape	Parts N°	Parts N°	Dimensions (mm)			Models
		(Q)	a	b	Thickness	
For Exterior Beveling						
	BIT-016E01	30"	12	25	6.0	FBM-16
	BIT-024E01	30"	14	30	8.0	FBM-24
	BIT-042E02	37.5"	35	56	11.5	FBM-80A, 300
	BIT-042E03	45"	25	50	11.5	
	BIT-042E06	30"	25	40	11.5	
	BIT-042E01	30"	35	50	11.5	FBM-300
	BIT-120E01	30"	60	60	11.5	FBM-80A, 300
For Interior Beveling						
	BIT-024B06	30"	14	30	8.0	FBM-24
	BIT-042B01	30"	25	40	11.5	FBM-80A, 300
	BIT-042B02	45"	25	50	11.5	
For Surface Beveling						
	BIT-024F01	–	14	25	8.0	FBM-24
	BIT-042F02	–	25	30	11.5	FBM-80A, 300
	BIT-120F01	–	60	40	11.5	FBM-300

*Bit Tools provided: FBM-16: Bit-016E01. FBM-24: BIT-024E01, 024F01
FBM-80A: BIT-042E06, 042F02 FBM-300: BIT-120E01, 120F01

*Other sizes of Bit Tool are available. Specify dimensions when ordering.

SUMP PUMPS / PISTON PUMPS

SUMP PUMPS

Fuji Sump Pumps are indispensable for discharging water, oil, sewage and sludge from sumps, trenches, manholes, bilges and tanks. They may be used in non-spark environments and their housing are rust-proof.



FP-7-2

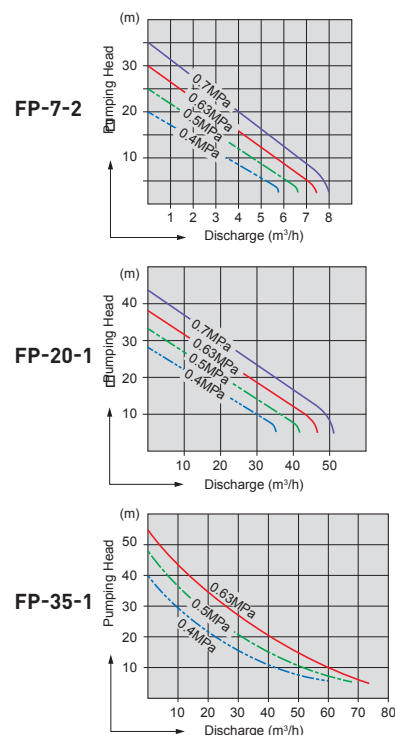


FP-20-1



FP-35-1

PUMPING PERFORMANCE CURVE



Model	Capacity				Water Output Thread Size	Air Outlet Thread Size	Height		Weight		Max. Air Consumption		Air Hose Size	
	Head		Discharge											
	m	ft	m³/h	l/min										
FP-7-2	15	49	4.2	70	PT3/4	3/4	234	9 1/4	4.3	9.4	0.80	28.2	9.5	3/8
FP-20-1	20	66	28.0	467	W82.5-5	1	374	14 3/4	22.0	48.4	3.40	120.1	19.0	3/4
FP-35-1	28	92	28.0	467	W82.5-5	1 1/4	410	16 9/16	34.0	74.8	5.20	183.6	25.4	1

Air Inlet Thread Size: PT or NPT 3/8". FP35-1 : 1".

PISTON PUMPS

Fuji Piston Pumps FP-11 series are ideal pumps for pumping oil out from tanks and bilges in the vessels. Various flanges are optionally available for hose connection.

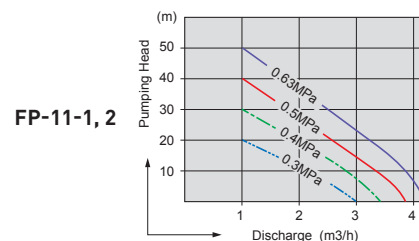


FP-11-1



FP-11-2

PUMPING PERFORMANCE CURVE



Model	Discharge Volume	Piston Diameter		Stroke		Stroke N°	Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	m³/h	mm	in	mm	in	Hz	mm	in	kg	lb	m³/min	ft³/min	mm	in
FP-11-1	4.2	48	1 57/64	100	3 15/16	4	622	24 31/64	4.7	10.3	0.20	7.1	9.5	3/8
FP-11-2	4.2	48	1 57/64	100	3 15/16	4	622	24 31/64	7.8	17.2	0.20	7.1	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

*Testing Oil ... ISO VG32Oil

TIP DRESSERS

Fuji Tip Dresser FTD-18 series are designed to be compact, light weight and ideal for dressing tips in narrow space between opposing tips on electric spot welders. Patent applied FTD-18A clamp system provides excellent tip center alignment and accurate tip repairing. Various types of welding tips can be dressed by replacing cutter and cutter case.



FTD-18-1



FTD-18A-1

Model	Capacity Tip Size		Max. Clamp Height		Free Speed	Overall Length		Weight		Max. Air Consumption		Air Hose Size	
	mm	in	mm	in		mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
FTD-18-1	12~16	15/32~5/8	—	—	1,300	290	11 7/16	1.65	3.64	0.5	17.7	9.5	3/8
FTD-18A-1	13~16	33/64~5/8	25	63/64	1,300	307	12 3/32	2.02	4.45	0.5	17.7	9.5	3/8

Air Inlet Thread Size: PT or NPT 1/4".

ACCESSORIES

CLASSIFICATION TABLE FOR CUTTERS

Type	Item N°	Tip shape (Normal)	Max. diameter repaired (ØD)	Standard
(1)	CUT-1001	6R	ø12	6R x ø12
	CUT-1002	6.5R	ø13	6.5R x ø13
	CUT-1003	8R	ø16	8R x ø16
(2)	CUT-2001	—	—	16R x ø16
	—	10R~150R	ø16	—
	—	øA x 6R	ø12	—
(3)	—	øA x 6.5R	ø13	—
	CUT-3001	—	—	ø5 x 8R x ø16
	CUT-3002	øA x 8R	ø16	ø6 x 8R x ø16
(4)	—	r x øA x 6R	ø12	—
	CUT-1002	r x øA x 6.5R	ø13	—
	CUT-1003	r x øA x 8R	ø16	40r x ø6 x 8R x ø16
(5)	—	5~6r x 60°	ø13	—
	—	3r or more x 90°	ø16	—
(6)	—	7~9r x 50°	ø13	—
	—	ø10 or more x 50°	ø16	—
	CUT-6001	5~ø7 x 60°	ø13	ø6 x 60° x ø13
(7)	—	ø8 or more x 60°	ø16	—
	—	3~ø4 x 75°	ø13	—
	CUT-6002	ø5 or more x 75°	ø16	ø6 x 75° x ø16
(8)	CUT-6003	ø3 or more x 90°	ø16	ø4 x 90° x ø16
	CUT-6004	ø3 or more x 90°	ø16	ø6 x 90° x ø16
	—	ø3 or more x 120°	ø16	—
(9)	—	r x øA x °	øD	—
(8)	—	øA x r x °	øD	—
(9)	—	F	ø16	—

*Beside item listed above table, minimum 10pcs. per item is required for ordering optional cutters. Specify the nominal dimensions when ordering.

*Cutter is not provided as a standard accessory.

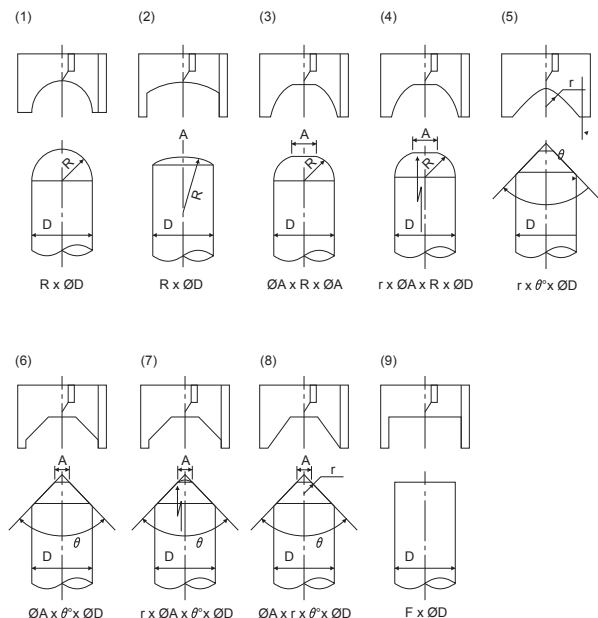
CUTTER CASES



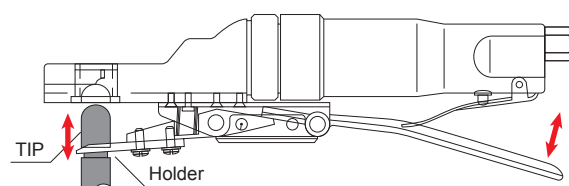
Item N°	ØD
S-167716-00	16
S-167716-01	13
S-167716-02	12

*Cutter dresses Welding Tip correctly as inside diameter (dia. D) of cutter case act as a guide. Specify cutter case diameter which matches tip size. dia. 16 cutter case is included as a standard accessory. Specify cutter case dia. 12 or dia. 13 otherwise.

SHAPES OF TIPS AND CUTTERS



<FTD-18A-1> PAT.P



MARKING PEN / AIR CLEANERS

MARKING PEN

Fuji Marking Pen features a lower vibration level when compared to conventional marking pens enabling operators to use this tool for a full working day. This tool also requires no lubrication and meets requirements where oil free operation is specified.



G-400

Model	Diameter		Overall Length		Weight		Air Consumption (at Load)	
	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min
G-400	20	25/32	140	5 1/2	0.15	0.33	0.03	1.1

AIR CLEANERS

Fuji air cleaners remove dust, chips, sawdust, water and oil with their powerful vacuum action.

AC-200F



FJP-500



Model	Vacuum Degree		Overall Length		Outside Dia. of Discharge	Weight		Max. Air Consumption		Air Hose Size	
	mm Hg	in Hg	mm	in		kg	lb	m ³ /min	ft ³ /min	mm	in
AC-200F	130	5 1/8	145	5 45/64	34	0.5	1.1	0.60	21.2	9.5	3/8
FJP-500	200	7 7/8	1020	40 5/32	37.5	1.5	3.3	1.10	38.8	9.5	3/8

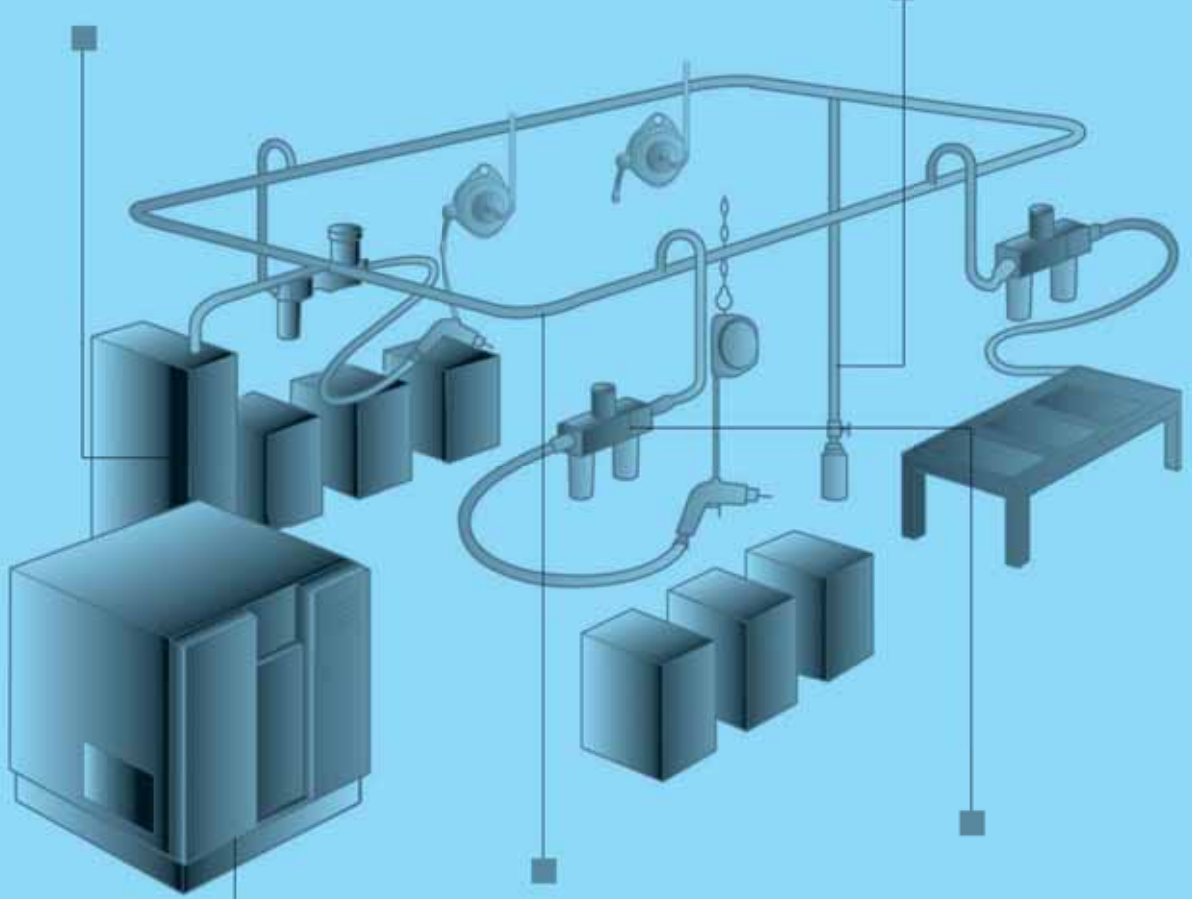
Air Inlet Thread Size: PT or NPT : 1/4 for AC-200F - FJP-500 : 3/8.

ACCESSORIES

ACCESSORIES PROVIDED FOR AC-200F



Index N°	AC N°	Name
1	ACB-1F	Main Nozzle
2	ACB-2F	Fan Shape Nozzle
3	ACB-3F	Small-Size End Nozzle
4	ACB-4F	Flexible Hose
5	ACB-5F	Rubber Joint
6	ACB-6F	Dust Bag
7	ACB-7F	Hose Band

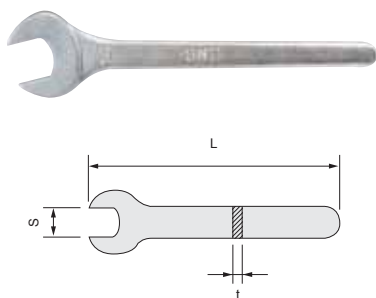


SERVICE TOOLING

SPANNERS AND WRENCHES FOR MAINTENANCE	102
AIR COMPRESSOR / AIR PRESSURE	103

SPANNERS AND WRENCHES FOR MAINTENANCE

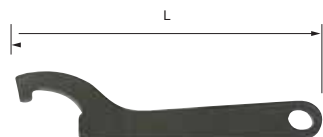
OPEN-END WRENCHES



AC N°	Size			Models
	S	L	t	
	mm	mm	mm	
F-100	5.5	81	2.5	FBM-1-1, 1F, 2, 2F
F-101	8.0	80	3.0	FG-13, 13X, TURBO-100
F-102	9.5	80	1.5	FCD-6A, 6B
F-103	10.0	80	3.0	FRD-5P-1, 5S-1, 1F, 6PX-2, 3, 5, *F-6SM-12, 21, 28, 28R, FRD-6S-2, 3, 5
F-103-1	10.0	105	4.0	FBM-16, 24
F-104	12.0	88	3.0	FG-12U, 12UX, 25D, 25DX, 50D, 50DX, FRD-8PX-1, 2, *F-5SM-2, 8.5, *8SMA-12, 28
F-105	14.0	100	3.0	FG-12U, 12UX, 2VX-1F, 3VX-1F, 6F, 25D, 25DX, 50DX, 26, 26X, 50X, 50D, FA-2C, 2CX, TURBO-100A, FRD-6PX-7, 6S-7, 7F, 8PX-3, *F-6SM-2.5, 2.5R, *5, 8, F-6SE, 6SF, *8SM-8.5RA, *8SMA-8.5, 6PFX
F-106	17.0	130	3.0	FRD-16Z, FCD-6X, F-10MT
F-117-1	17.0	150	6.0	FBM-300
F-107	19.0	130	3.0	FCD-10X, FA-2C, 2CX, FT-8PX, FBM-80A
F-117	21.0	180	5.0	FG-3H, 3HL, 4HL, 50L, 50Y
F-109	24.0	200	4.0	FA-5E-3 Series, 7E-5, 6, 8 Series, FV-7, 9BH-1M, FX-027-1, FA-6C-6M, 8M, 9M, 9C-4, 4M
F-110	26.0	170	4.5	FA-150KG-5, 7, FA-5E-1, 2, 8, 13 Series, FA-7E-1, 2, 3 Series, 6C-1, 10, 12, 12M, 20, 9C-2, 2M, 7C-21
F-111	27.0	170	4.5	FG-5PX, FD-4, 4P
F-112	32.0	170	4.5	FG-3VX-2F, 3F, 4H, 4VA, 5HL, FA-4C, 4CH, 4CHK-1, FD-5, 5P
F-113	41.0	180	4.0	FV-9BH-4M, FRC-300-1

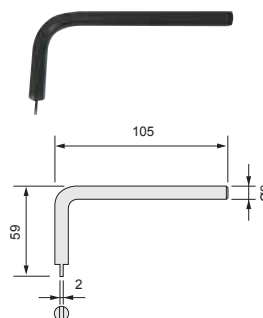
* = Thread Spindle type

HOOK SPANNERS



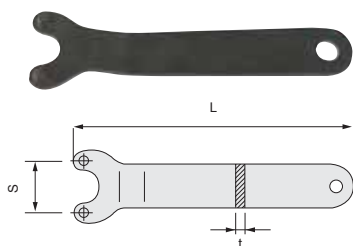
AC N°	Size		Models
	S	L	
	mm	mm	
F-401	130	2	FD-4P, 4
F-402	160	2	FD-5P, 5
F-404	135	4.5	FA-3C, 3CX
F-405	170	4.5	FA-4CHK-3, 150K-2, 3

ANGLE WRENCH



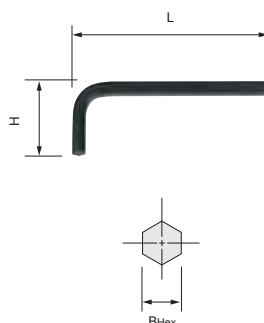
AC N°	Models
F-601	FD-5, 5P

OPEN-END PIN WRENCHES



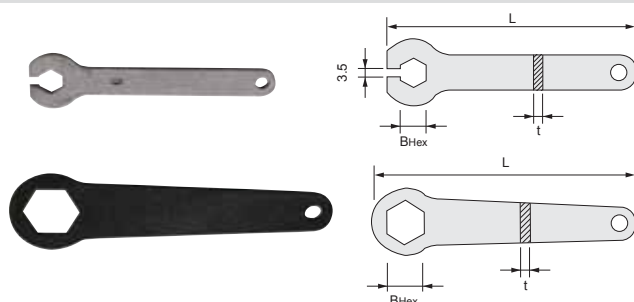
AC N°	Size			Models
	S	L	t	
	mm	mm	mm	
F-201	16	130	4.0	FG-5PX
F-202	30	160	4.5	FV-9BH-4M
F-203	32	180	4.5	FA-6C, 9C, 5E-13 Series, 7E-5, 6, 8 Series, FV-7-1M, 2M, 4M, 9BH-1M

HEXAGONAL PIN WRENCHES



AC N°	Size			
	B(Hex)		L	H
	mm	in	mm	mm
F-701-2	1.27	-	45	10
F-701	1.5	-	52	12
F-701-1	1.5	-	52	52
F-712	2.0	-	58	12
F-702-1	2.0	-	60	60
F-702	2.5	-	60	15
F-703	3.0	-	65	20
F-704	4.0	-	72	25
F-705	5.0	-	80	28
F-706	6.0	-	90	32
F-707	-	1/4	90	32
F-708	8.0	-	100	36
F-710	-	3/8	112	40
F-709	10.0	-	112	40

HEXAGONAL WRENCHES



AC N°	Size			Models
	B(Hex)	L	t	
	mm	mm	mm	
F-301	8	80	3	TURBO-100, FG-06-1, 13, 13X
F-304	9	100	3	FG-06-1
F-306	14	101	4	TURBO-100A
F-302	17	135	2	FD-4P, 4
F-303	21	138	2	FD-5P, 5

AIR COMPRESSOR / AIR PRESSURE

AIR COMPRESSOR

The capacity of an air compressor should be higher than the number of air tools in operation. In other words, when the respective factors are represented by the following signs, the expression should be $Q > Nq + a$.

Q : Capacity of Air Compressor
q : Air Consumption of Each Tool
a : Air Leakage in Piping
N : Number of Air Tools

The power of an air compressor necessary to compress air of 1 m³/min at the air pressure of 0.63 MPa is theoretically calculated at 4.44 kW (6 PS). But, the required power of an air compressor comes to 7.4 kW (10 PS) to 11.1 kW (15 PS) depending on the types of compressors (reciprocating or screw compressors) when the actual efficiency of an air compressor is taken into account. For instance, what capacity of an air compressor is required if 1 piece of FA-7C-4 angle grinder is used? Air of 1.4 m³/min is necessary to use 1 piece of FA-7C-4 angle grinder and the required power of an air compressor is calculated at 10.36 kW (14 PS) to 15.54 kW (21 PS). If 20 pieces of FA-7C-4 angle grinders are used at the same time, air of 19.6 m³/min is necessary and the required power of an air compressor is calculated at 145.0 kW to 217.6 kW (196 PS to 294 PS). Even if the number of tools changes, the required power of an air compressor can be obtained by simple calculation. Yet, when a number of air tools are used at the same time,

it does not seem that all the air tools are concurrently used at the maximum air consumption, so the following expression is given under our past experience.

Air Tools : **A, B, C...**
 Number of Air Tools : **Na, Nb, Nc...**
 Air Consumption of Each Tool : **Ca, Cb, Cc...**
 Coefficient according to Number of Air Tools : **F**
 Total Air Consumption : **Q**

$$Q = F (Na \times Ca + Nb \times Cb + Nc \times Cc + \dots)$$

The coefficient is given as per the under-mentioned table according to the number of air tools. The coefficient is in inverse proportion to the number of air tools.

Number of Air tools	1-5	6-10	11-20	21-30	31-50	51-100
F	1.0	0.8	0.7	0.6	0.5	0.4

Those coefficients are obtained because air tools are not always in successive operation. It is usual that operations of air tools are intermitted for changing jobs, lubrication, changing grinding wheel, drill bit, chisel, etc. There is a case that even small capacity of an air compressor can be available due to an interval of jobs when such air tools as impact wrenches, screw drivers, etc. are in operation. The running time of those air tools for one job is 2 to 5 seconds and they are not used in succession for one job.

AIR PRESSURE

Air pressure should be maintained at less than the recommended air pressure at the inlet of the air tool. Our air tools are usually designed to be used at the air pressure of 0.63 MPa and the fluctuation of air pressure affects the performance of the air tool. For instance, if the power of an air tool is 0.74 kW (1 PS) at the air pressure of 0.63 MPa, the power of the air tool generally comes to the following figures at each air pressure.

Air Pressure (MPa)	0.70	0.63	0.50	0.40	0.30
Power (kW)	0.93	0.74	0.56	0.40	0.26

It should be taken into account that air pressure drops at the inlet of the air tool due to the resistance and leakage caused when air passes in the pipe even if the air pressure is 0.63 MPa at the outlet of the air compressor. Needless to say, the loss of power may be caused unless the appointed air hose is used.

On the contrary, when air pressure fluctuates higher than the recommended air pressure at the inlet of the air tool, parts may consume comparatively faster, and what is worse, accidental operations may be induced, so air pressure should be maintained at less than the recommended air pressure at the inlet of the air tool in any case.

ASSEMBLY TOOLS

Fig 01

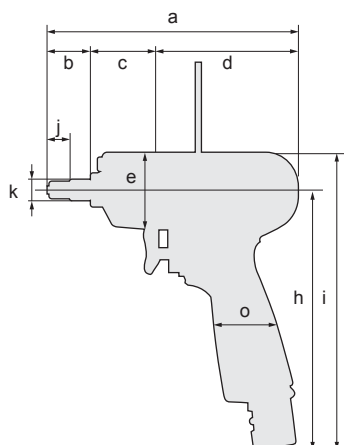
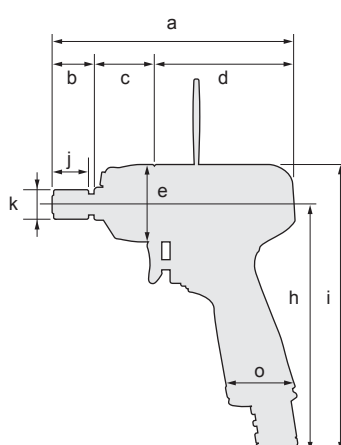


Fig 02



PULSE WRENCH

Non Shut-off type (square)

Fig N°	Model	a	b	c	d	e	h	i	j	k	o
01	FL-4-1	139.5	23.5	35.5	80.5	44	144	169	11	12	39
01	FL-5-1	139.5	23.5	35.5	80.5	44	144	169	11	12	39
01	FL-6-1	151.5	23.5	40.5	87.5	44	144	169	11	12	39
01	FL-7-1	157.0	24.5	53.0	79.5	51	147	173	12	12	39
01	FL-9-1	175.0	29.0	59.5	86.5	51	150	179	17	16	40
01	FL-11-1	184.5	29.0	64.5	91.0	65	160	191	17	16	44
01	FL-13-1	193.5	29.0	67.5	97.0	69	162	196	17	16	44

PULSE WRENCH

Non Shut-off type (square)

Fig N°	Model	a	b	c	d	e	h	i	j	k	o
02	FL-4D-1(10)	140	24	35.5	80.5	44	144	169	20	18	39
02	FL-5D-1(10)	140	24	35.5	80.5	44	144	169	20	18	39
02	FL-6D-1(10)	152	24	40.5	87.5	44	144	169	20	18	39

Fig 01

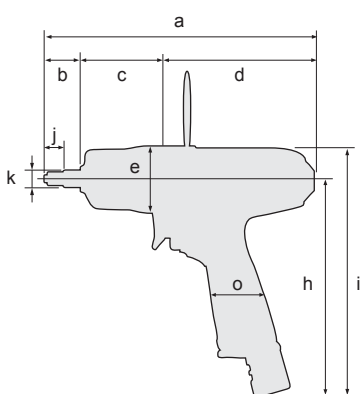


Fig 02

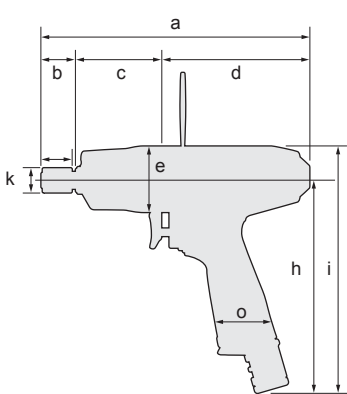
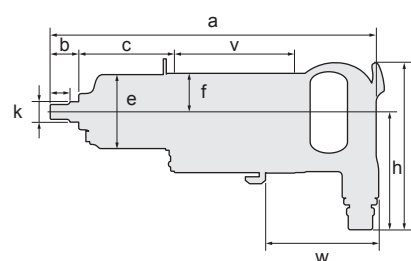


Fig 03



PULSE WRENCH

Shut-off type (square)

Fig N°	Model	a	b	c	d	e	f	h	i	j	k
01	FLT-4-1	180.5	23.5	54	103	44	142	169	11	12	40
01	FLT-5-1	180.5	23.5	54	103	44	142	169	11	12	40
01	FLT-6-1	192.5	23.5	59	110	44	142	169	11	12	40
01	FLT-7-1	191.5	23.5	54	114	50	147	177	13	12	40
01	FLT-9-1	210.5	28.0	61	122	56	150	181	18	16	40
01	FLT-11-1	219.5	28.0	65	127	65	160	192	17	16	43
01	FLT-13-1	229.5	28.0	67	135	68	163	200	17	16	45

PULSE WRENCH

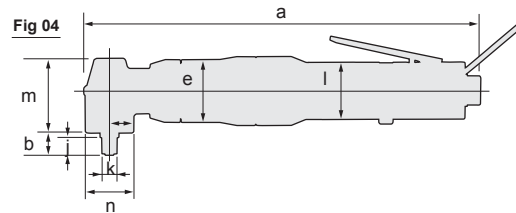
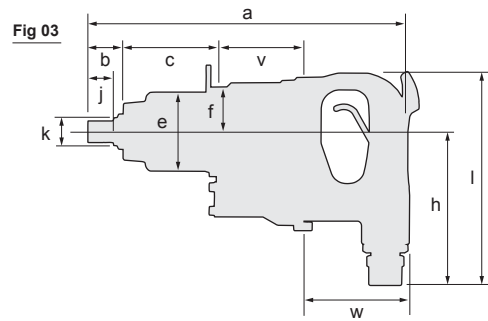
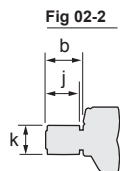
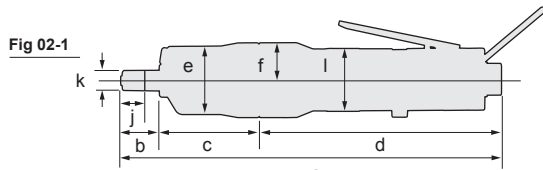
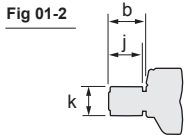
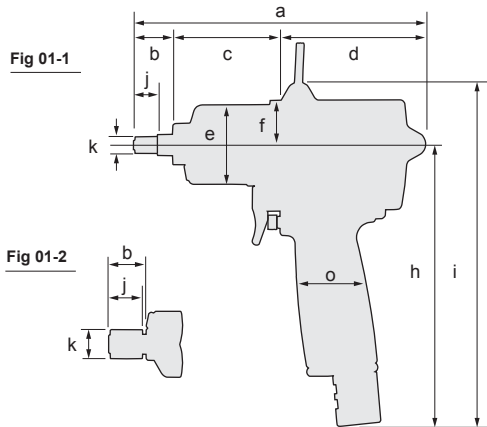
Shut-off type (bit shank)

Fig N°	Model	a	b	c	d	e	f	h	i	j	k
02	FLT-4D-1(10)	181	24	54	103	44	142	169	20	18	40
02	FLT-5D-1(10)	181	24	54	103	44	142	169	20	18	40
02	FLT-6D-1(10)	193	24	59	110	44	142	169	20	18	40

PULSE WRENCH

Straight Shut-off type (straight)

Fig N°	Model	a	b	c	v	w	e	f	h	i	j	k
03	FLT-20S-1	401	37	117	150	140	90	47.5	144	205	22	25



PULSE WRENCH

Pistol Grip Models

Fig N°	Model	a	b	c	d	e	f	h	i	j	k	o
01-1	FPW-110-1	143	23.5	63.5	56.0	35	20.0	144	163	12.0	12	33
01-1	FPW-1660-1	243	36.0	88.5	118.5	70	39.0	205	256	24.0	25.0	48
01-2	FPW-110D-1(10)	149	29.5	63.5	56.0	35	20.0	144	163	21.0	18	33

PULSE WRENCHES SHUT-OFF TYPE

Pistol Grip Models (High Air Pressure Use)

Fig N°	Model	a	b	c	d	e	f	h	i	j	k	o
01-1	FPT-110-1	195	23.5	68.0	103.5	35	20	143	163	12.0	12	41
01-1	FPT-1660-1	266	35.5	88.5	142.0	70	39	205	257	24.0	25	49
01-2	FPT-110D-1(10)	198	26.5	68.0	103.5	35	20	143	163	21.0	18	41

PULSE WRENCH

Straight Models

Fig N°	Model	a	b	c	d	e	f	j	k	l
02-1	FPW-110S-1	218	23.5	63.5	131	35	20.0	12	12	30.5
02-1	FPW-330S-1	226	24.0	57.0	145	42	22.5	12	12	38.0
02-1	FPW-770S-1	240	24.0	67.0	149	44	27.0	12	12	47.0

Straight Models (High Air Pressure Use)

Fig N°	Model	a	b	c	d	e	f	j	k	l
02-1	FPT-110S-1	237	23.5	73	140.5	35	20	12	12	30.5
02-1	FPT-330S-1	250	25.0	72	153.0	42	23	12	12	38.0
02-1	FPT-770S-1	275	22.5	80	172.5	45	54	12	12	45.0
02-2	FPT-110SD-1(10)	240	26.5	73	140.5	35	20	21	18	30.5
02-2	FPT-330SD-1(10)	250	25.0	72	153.0	42	23	21	18	38.0

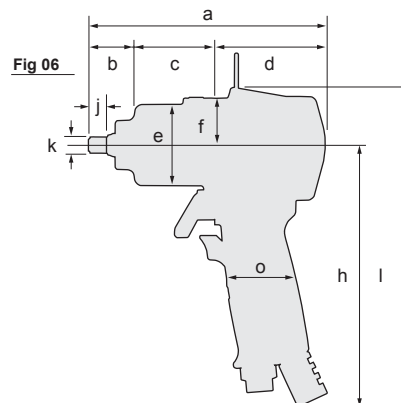
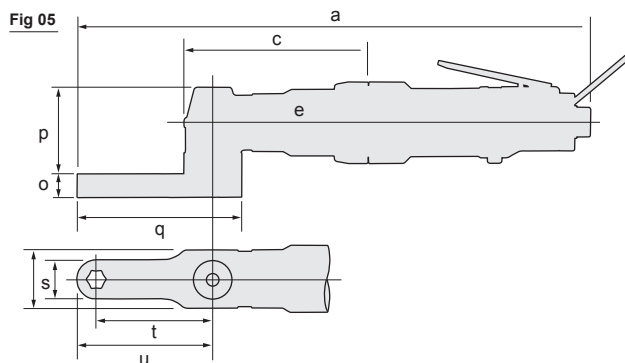
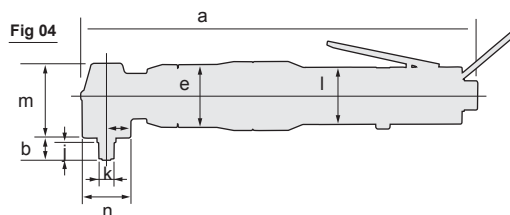
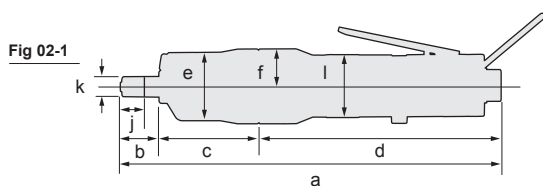
Fig N°	Model	a	b	c	d	e	f	j	k	l
02-2	FPW-110SD-1(10)	224	29	63	132	35	20.0	21	18	30.5
02-2	FPW-330SD-1(10)	226	24	57	145	42	22.5	21	18	38.0

Fig N°	Model	a	b	c	v	w	e	f	h	i	j	k
03	FPW-2220S-1	352.5	36	103	112	101.5	90	47.5	144	204	24	25

Angle Head Models

Fig N°	Model	a	b	c	d	e	f	j	k	l
04	FPW-440SC-1	255	15	41	14.5	12	12	38	41.5	29
04	FPW-550SC-1	255	15	41	14.5	12	12	38	41.5	29
04	FPW-660SC-1	267	15	42	16.0	12	12	38	50.0	32
04	FPW-770SC-1	271	16	44	18.0	12	12	47	55.0	36

ASSEMBLY TOOLS



GEARED PULSE WRENCHES

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
05	FPW-770SCG-1	343	124	148	44	27	45	15	58	109	38	25	78	90													

Angle Head Models (High Air Pressure Use)

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
04	FPT-440SC-1	281	15.0	41	14.5	12	12	38	41.5	29																	
04	FPT-550SC-1	281	15.0	41	14.5	12	12	38	41.5	29																	
04	FPT-660SC-1	294	15.0	42	16.0	12	12	38	50.0	32																	
04	FPT-770SC-1	307	16.0	50	18.0	12	12	45	55.0	36																	

Geared Pulse Wrenches Shut-Off Type

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
05	FPT-770SCG-1	378	136	171	50	27	45	15	58	109	38	25	78	90													

DUAL CHAMBER MOTOR IMPACT WRENCHES

Pistol Grip Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
06	FW-44PA-2	131.0	23.0	38.0	70.0	39.5	22.5	144.0	166.0	12.0	12	38															
06	FW-66PA-2	137.0	18.0	49.0	70.0	42.0	22.5	144.0	166.0	12.0	12	38															
06	FW-88P-1	163.0	22.5	54.0	86.5	50.0	29.0	173.0	211.0	16.5	16	41															

Straight Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
02-1	FW-44SA-1	197.5	14.5	38	145	39.5	22.5	12	12	38																	
02-1	FW-66SA-1	212.0	18.0	49	145	42.0	22.5	12	12	38																	

IMPACT WRENCHES

Small Pistol Grip Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
06	FW-5PX-6	150.0	14.0	49.0	87.0	34.0	18.0	137.0	155.0	12.0	12.0	36.0															
06	FW-6PM-1	140.0	18.0	48.0	74.0	42.0	23.5	145.0	168.0	12.0	12.0	38.0															
06	FW-6PL-1	175.0	18.0	52.5	104.5	42.0	27.0	122.0	152.0	12.0	12.0	35.0															
06	FW-6PX-5(6)	166.0	15.0	57.0	94.0	44.0	24.0	146.0	172.0	12.0	14.0	40.0															
06	FW-6PH-1(11)	147.0	16.5	62.0	68.5	50.0	29.0	162.0	198.0	12.0	14.0	43.0															
06	FW-8PH-3	162.0	21.0	65.0	76.0	54.0	29.0	168.0	208.0	16.5	16.0	45.5															
06	FW-10PX-5	181.8	20.8	78.0	83.0	55.5	29.0	188.0	229.0	17.0	17.0	44.0															
06	FW-10PH-1	179.4	23.9	77.5	78.0	58.0	33.0	171.0	214.0	17.0	17.0	44.3															
06	FW-10PH-2	179.0	24.0	77.0	78.0	58.0	31.0	171.0	213.0	16.5	17.0	44.3															
06	FW-14PX-5	197.3	21.3	93.0	83.0	66.0	34.5	192.0	237.0	16.5	16.8	50.0															
06	FW-14PH-1	202.0	23.0	94.5	84.5	67.0	37.5	181.5	229.5	16.5	16.8	47.6															
06	FW-14PH-2	202.0	23.0	94.0	85.0	67.0	37.5	181.0	228.0	16.5	20.0	47.6															
06	FW-14PH-3	202.0	23.0	94.0	85.0	67.0	37.5	181.0	228.0	18.5	20.0	47.6															

ASSEMBLY TOOLS

Fig 02-1

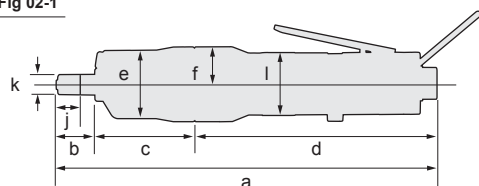


Fig 03

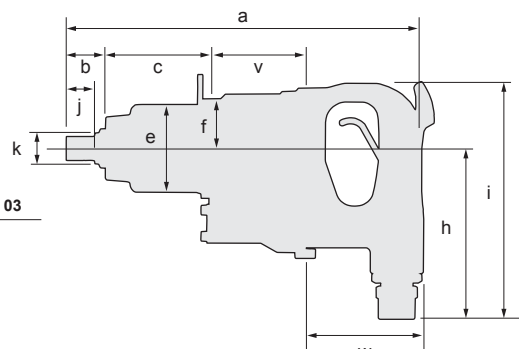


Fig 04

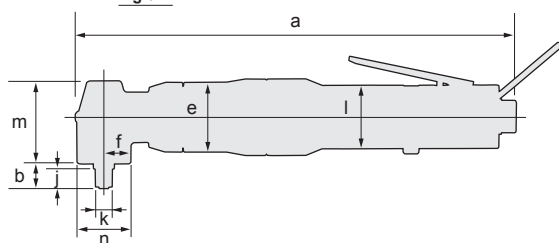


Fig 08

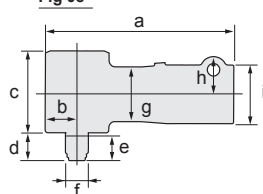


Fig 06

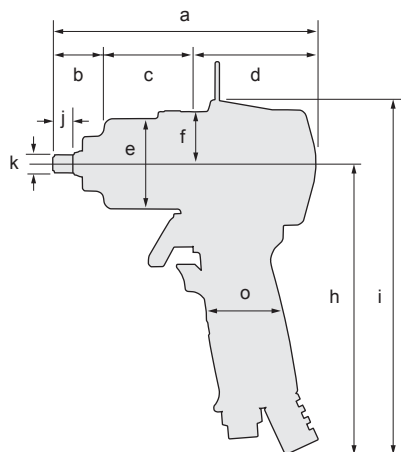
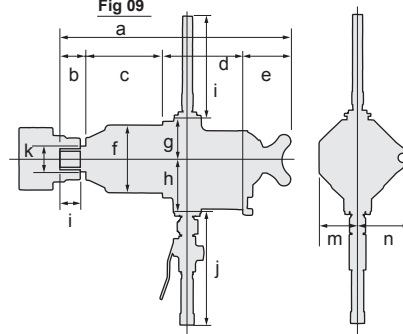


Fig 09



IMPACT WRENCHES

Straight Models

Fig N°	Model	a	b	c	d	e	f	j	k	l
02-1	FW-6SX-5	223	16	57	151	44.0	24	12.0	12	50
02-1	FW-6SX-6	225	16	57	152	44.0	24	12.0	14	50
02-1	FW-8SH-2	307	20	65	222	54.0	33	16.5	16	44
02-1	FW-10SX-5	318	21	78	219	55.5	33	17.0	17	44
02-1	FW-14SX-5	356	20	93	243	66.0	38	16.5	20	44

Angle Models

Fig N°	Model	a	b	e	f	j	k	l	m	n
04	FW-6SCX-6	262	13	44	17.5	12.0	12	49.5	46	35
04	FW-8SCH-2	354	20	58	22.0	16.5	16	44.0	63	44

CORNER ATTACHMENT (ANGLE HEAD)

Fig N°	Model	a	b	c	d	e	f	j	k	l
08	CA-14A	146	24.5	63	21	16.5	17	42	28	45

IMPACT WRENCHES

Middle Size Straight Models

Fig N°	Model	a	b	c	v	w	e	f	h	i	j	k
03	FW-19Z-5(5C)	322	29.0	109.0	72.0	112.0	72	39.0	111	175	54	25
03	FW-250-1(1C)	302	33.0	88.0	81.5	99.5	73	41.5	143	198	28	32
03	FW-250-2(2C)	302	33.0	88.0	81.5	99.5	73	41.5	143	198	24	32
03	FW-320-1(1C)	353	51.5	115.5	86.5	99.5	87	51.0	143	198	28	42
03	FW-320-1L(1CL)	484	182.0	116.0	86.5	99.5	87	51.0	143	198	28	40
03	FW-420-1(1C)	349	34.0	132.0	80.0	103.0	93	55.0	143	198	28	42
03	FW-420-1L(1CL)	501	186.0	132.0	80.0	103.0	93	55.0	143	198	28	42
03	FW-420-2(2C)	351	36.0	132.0	80.0	103.0	93	55.0	143	198	30	42

IMPACT WRENCHES

Middle Size Pistol Grip Models

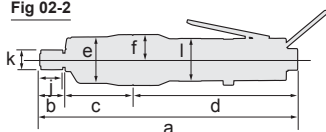
Fig N°	Model	a	b	c	d	e	f	h	i	j	k	o
06	FW-19PX-5	239.0	29.0	109.0	101.0	72.0	40.0	200.0	249.0	24.0	25	50
06	FW-250P-1	228.0	33.0	88.0	107.0	73.0	41.5	205.5	265.0	28.0	32	46
06	FW-250P-2	228.0	33.0	88.0	107.0	73.0	41.5	205.5	265.0	24.0	32	46
06	FW-320P-1	268.0	51.5	115.5	101.0	87.0	51.0	210.0	261.0	28.0	40	46

Heavy Duty Straight Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n
09	FW-50-7	500	50	220	110	120	142	100	120	298	340	49.8	40	90	100
09	FW-75-7	608	68	264	134	142	175	120	150	298	340	84.0	58	164	107
09	FW-100-1	710	77	253	232	148	212	130	160	316	358	80.0	58	118	165

ASSEMBLY TOOLS

Fig 02-2



IMPACT WRENCHES

Impact Clutch Type

Straight Models

Fig N°	Model	a	b	c	d	e	f	j	k	l
02-2	FW-5SXD-7(70)	223	24	50	149	34	18	21	18	33.0
02-2	FW-5SXD-8(80)	194	27	50	117	34	18	21	18	33.0
02-2	FW-6SXD-6(60)	235	27	57	151	44	24	21	18	49.5

Pistol Grip Models

Fig N°	Model	a	b	c	d	e	f	h	i	j	k	o
06-2	FW-5PXD-6(60)	160	24.0	49.5	86.5	34	18.0	137	155	21	18	36
06-2	FW-6PMD-1(10)	146	24.0	48.0	74.0	42	23.5	145	168	21	18	38
06-2	FW-6PLD-1	180	23.5	52.5	104.0	42	30.0	122	152	20	19	35
06-2	FW-6PXD-6(60)	177	27.0	57.0	93.0	44	24.0	146	181	21	18	40
06-2	FW-6PHD-1	154	24.0	62.0	68.0	50	29.0	162	198	21	19	43

Fig N°	Model	a	b	c	d	e	f	j	k	l
02-2	FW-44SAD-1(10)	207	24	38	145	39.5	22.5	21	18	38
02-2	FW-66SAD-1(10)	218	24	49	145	42.0	22.5	21	18	38

Fig N°	Model	a	b	c	d	e	f	h	i	j	k	o
06-2	FW-44PAD-2(20)	132.0	24	38.0	70	39.5	22.5	144	166	21	18	38
06-2	FW-66PAD-2(20)	143.0	24	49.0	70	42.0	22.5	144	166	21	18	38

Fig 06-2

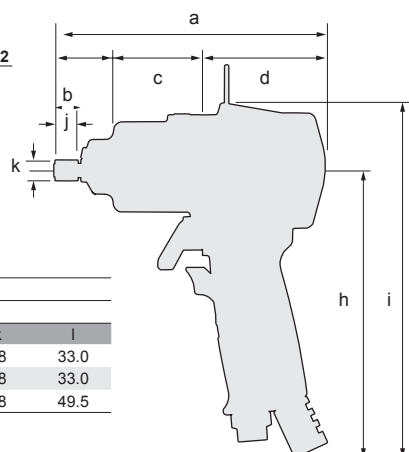


Fig 10

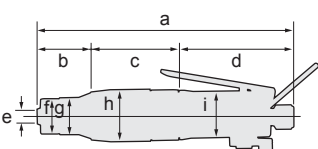


Fig 11

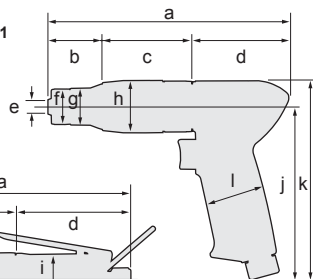
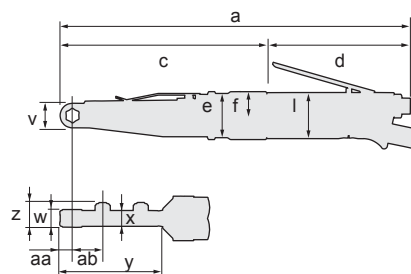


Fig 12



Slip Clutch Type

Straight Models

Fig N°	Model	a	b	c	d	e	f	g	h	i
10	FD-4	174	38.5	64	71.5	7.4	25	26	37	32
10	FD-5	233	45.0	92	96.0	7.4	25	32	42	38

Pistol Grip Models

Fig N°	Model	a	b	c	d	e	f	g	h	j	k	l
11	FD-4P	173	39	64	70	7.4	25	26	37	125	143	42
11	FD-5P	210	45	92	73	7.4	25	32	42	130	150	42

RATCHET WRENCHES

Fig N°	Model	a	c	d	e	f	l	v	w	x	y	z	aa	ab
12	FRW-6NX-3(3A)	316.0	182.0	134	38.6	21.5	32	20	13(10)	13(10)	88.0	20.2(15.2)	10.0	28.0
12	FRW-6NX-4(4A)	320.0	186.0	134	38.6	21.5	32	24	13(10)	13(10)	92.7	20.2(15.2)	12.0	30.7
12	FRW-8NX-2(2A)	380.0	217.0	163	46.0	25.0	48	25	18(10)	16(10)	108.0	25.5(15.2)	12.5	32.0
12	FRW-10N-2	417.0	228.0	189	46.0	29.0	32	33	18	16	115.0	25.5	16.5	37.5
12	FRW-13N-3	418.5	229.5	189	46.0	29.0	32	36	18	16	116.0	25.5	18.0	37.5
12	FRW-13N-4	431.0	242.0	189	46.0	29.0	32	46	18	16	129.0	25.5	23.0	45.0

Fig 14

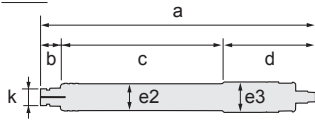


Fig 15

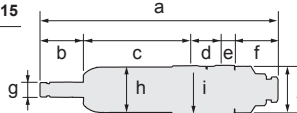


Fig 15 bis

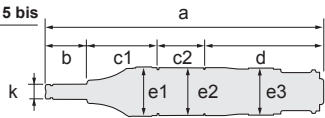


Fig 16

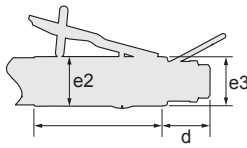


Fig 16 bis

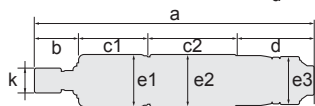


Fig 17

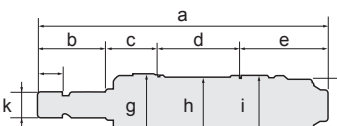


Fig 18

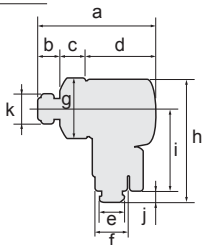


Fig 22

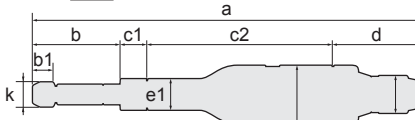
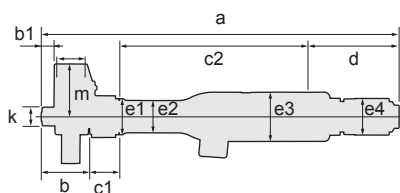


Fig 23



PENCIL GRINDERS

Fig N°	Model	a	b	c	d	e2	e3	k
14	FG-06-1	153	11	90	52	14.5	16	9.5

TURBO GRINDERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j
15	TURBO-100	153	28	70	18	9.0	28	9.5	29	31	29
15	TURBO-100A	155	30	70	18	9.0	28	16.0	29	31	29

Fig N°	Model	a	b	c	d	e	f	g	h	i
15 bis	FG-13-2	149.5	27.0	42.0	35.0	45.5	30.5	29	33	9.5
15 bis	FG-13-20	149.5	44.0	25.5	35.0	45.5	30.5	29	33	9.5
15 bis	FG-13X-2	179.0	27.0	42.0	35.5	74.5	30.5	29	30	9.5
15 bis	FG-13X-20	179.0	44.0	25.5	35.5	74.5	30.5	29	30	9.5

DIE GRINDERS

Fig N°	Model	a	b	c	d	e	f	g	h	i
16	FG-12U-1(F)	188.0	28.5	48.0	101.5	10.0	36.0	35	34.0	17.0
16	FG-13-1(F)	158.0	27.0	42.0	76.0	13.0	30.5	32	32.0	9.5
16	FG-13-10(F)	158.0	43.5	25.5	76.0	13.0	30.5	32	32.0	9.5
16	FG-25D-1(F)	198.0	28.0	52.0	108.0	10.0	38.5	39	38.0	17.0
16	FG-50D-1(F)	210.0	28.0	51.0	121.0	10.0	40.5	41	40.0	17.0
16	FG-12UX-1(F)	213.0	28.0	40.0	111.0	34.0	35.5	36	34.0	17.0
16	FG-13X-1(F)	183.0	27.0	42.0	83.5	30.5	30.5	32	32.0	9.5
16	FG-13X-10(F)	183.0	43.5	25.5	83.5	30.5	30.5	32	32.0	9.5
16	FG-25DX-1(F)	231.0	28.0	50.0	119.0	34.0	38.5	39	34.0	17.0
16	FG-50DX-1(F)	243.0	26.0	52.5	129.0	35.5	40.5	41	34.0	17.0
16 bis	FG-12U-2	191	28.5	47.5	79.5	35.5	36.0	35	33.0	17
16 bis	FG-25D-2	202	28.0	54.5	84.0	35.5	38.5	39	33.0	30
16 bis	FG-50D-2	213	28.0	51.0	98.5	35.5	40.5	41	37.0	17
16 bis	FG-12UX-2	211	29.0	40.0	54.0	88.0	36.0	36	30.5	17
16 bis	FG-25DX-2	227	28.0	50.0	61.0	88.0	38.5	36	30.5	17
16 bis	FG-50DX-2	237	26.5	52.5	72.0	86.0	40.5	42	30.5	17

DIE GRINDERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
17	FG-50-25	187	44	34.5	53.5	57	16	39.5	36	38	33	16

DIE GRINDERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
18	FG-25T	76	14	17.5	44.5	14	21	39	80	54	7.5	17Hex

Extension Type Models

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	k
22	FG-3HA-1	316	18	70.5	23	150.8	71.7	27	48	32	17Hex

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	k
22	FG-3HA-2	316	18	70.5	23	150.8	71.7	27	48	32	17Hex

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	e4	k	l	m
23	FG-3H-6	329	14	56	24	148	101	32	27	48	32.0	17Hex	29.3	41.0
23	FG-4VA-1	385	14	53	31	203	98	38	34	52	38.5	17Hex	30.0	45.5
23	FG-4VA-2	391	17	59	31	203	98	38	34	52	38.5	21Hex	31.0	58.5

ABRASIVE TOOLS

Fig 20

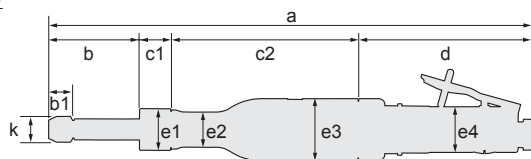
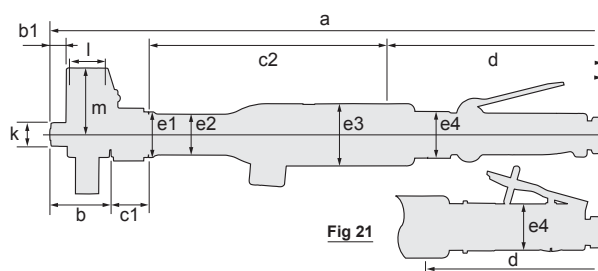


Fig 21-2



LOW SPEED GRINDERS

Locking Lever Handle Models

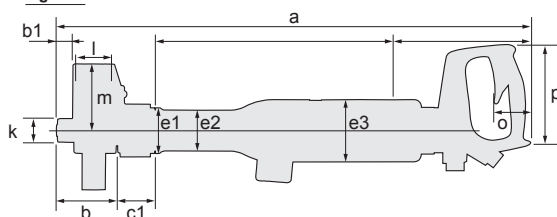
Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	e4	k
20	FG-2VX-1F	216.0	18	47.0	57.0	83	29.0	16	39	44.0	44	17Hex
20	FG-3VX-1F	331.0	18	70.5	26.5	97	137.0	16	40	41.0	34	17Hex
20	FG-3VX-6F	331.0	18	70.5	26.5	97	137.0	16	40	41.0	34	17Hex
21	FG-3VX-2F	316.0	14	55.5	26.5	97	137.0	-	40	41.0	34	17Hex
21	FG-3VX-3F	316.0	14	55.5	26.5	97	137.0	-	40	41.0	34	17Hex

STRAIGHT GRINDERS

Locking Lever Handle Models

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	e4	k	l	m
21	FG-3H-1(F)	342.0	14	44.0	24	148	126.0	32	27	48.0	38.0	17Hex	18.0	41.0
21	FG-3H-2(F)	342.0	14	44.0	24	148	126.0	32	27	48.0	38.0	17Hex	18.0	46.0
21	FG-4H-1(F)	411.0	14	52.0	31	202	126.0	38	34	52.0	38.0	17Hex	31.0	58.5
21	FG-4H-2(F)	419.0	14	60.0	31	202	126.0	38	34	52.0	38.0	21Hex	31.0	58.5
21-2	FG-5H-1(M)	506.0	14	58.0	31	210	207.0	38	34	58.0	38.0	21Hex	27.0	72.0
21-2	FG-5H-2(M)	511.0	23	63.0	31	210	207.0	38	34	58.0	38.0	26Hex	27.0	72.0
21-2	FG-6H-1(M)	531.0	23	76.0	31	210	214.0	38	36	64.0	38.0	26Hex	34.0	84.7
21-2	FG-8H-1(M)	557.0	23	78.0	30	232	217.0	52	40	80.0	38.0	26Hex	38.0	111.2
21-2	FG-8H-2(M)	557.0	23	78.0	30	232	217.0	52	40	80.0	38.0	26Hex	34.8	99.7

Fig 21-3



STRAIGHT GRINDERS

Grip Handle Models

Fig N°	Model	b1	b	c1	c2	d	e1	e2	e3	k	l	m	o	p
21-3	FG-8H-1C	23	78.0	30	232	198.0	52	40	80.0	26Hex	38.0	111.2	57	124

Fig 20

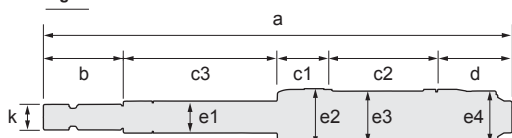
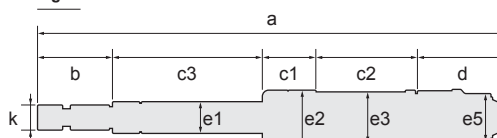


Fig 21



Extension Type Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
20	FG-26L-1	297	51	98	31	70	47	20	36	33	33	16
Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
21	FG-26L-1N	304	51	98	31	70	54	20	36	33	38	16

Fig 17

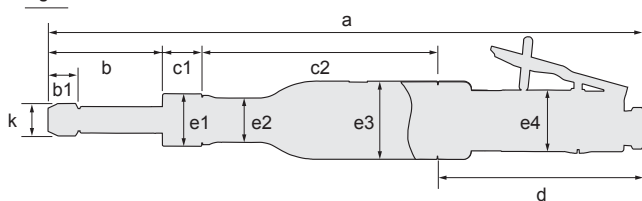
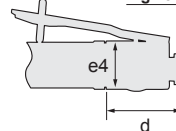
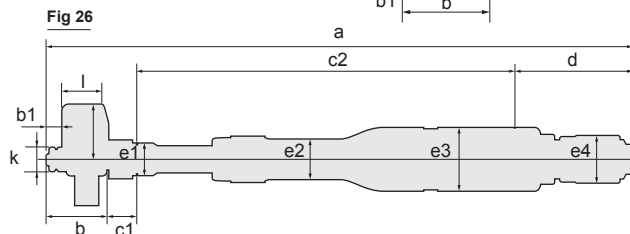
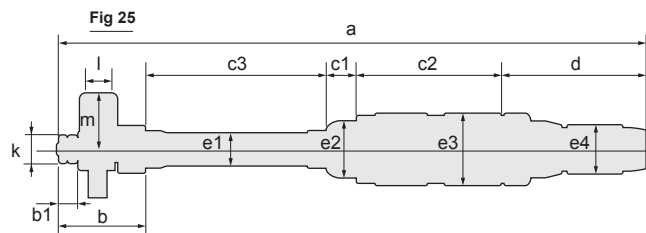
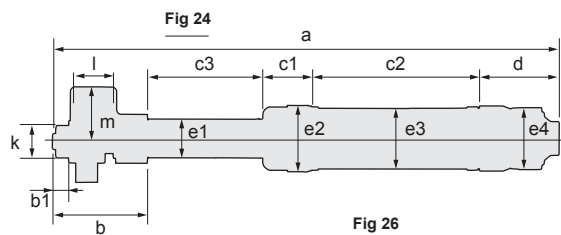


Fig 18



Extension Type Models

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	e4	k
17	FG-3H-5F	369	18	71	24	148	126	32	27	48	38	17Hex
Fig No.	Model	a	b	c3	c1	c2	d	e1	e2	e3	e4	k
18	FG-26L-1BF	307	51	98	31	71	56	20	36	33	35	16



Extension Type Models

Fig N°	Model	a	b1	b	c3	c1	c2	d	e1	e2	e3	e4	k	l	m
24	FG-50L-1(A)	307.5	8	36.0	91	29	103.5	48	23	39.5	36	37	17Hex	22	32
24	FG-50Y-1(A)	523.0	8	36.5	306	29	103.5	48	23	39.5	36	37	17Hex	22	32

Fig N°	Model	a	b1	b	c3	c1	c2	d	e1	e2	e3	e4	k	l	m
25	FG-3HL-1(A)	522	14	43	252	21	105	101	23	40	48	32	17Hex	22.5	40.5
25	FG-3HY-1(A)	702	14	43	405	21	104	102	23	40	48	32	17Hex	22.5	40.5

Fig N°	Model	a	b1	b	c1	c2	d	e1	e2	e3	e4	k	l	m
26	FG-4HL-1(A)	585.0	14.0	50	22	415.0	98	27	34	52	38.5	17Hex	30	45.5
26	FG-5HL-1(A)	957.5	17.0	63	24	764.5	106	46	34	58	38.5	17Hex	30	43.5
26	FG-5HL-2(A)	953.0	14.0	63	24	760.0	106	36	34	58	38.5	17Hex	31	58.5
26	FG-5HL-11(A)	599.0	16.0	50	22	418.5	108	27	34	58	38.0	19Hex	30	45.5
26	FG-5HL-13(A)	599.0	16.5	50	23	418.5	108	27	34	58	38.0	19Hex	31	56.5
26	FG-5HL-14	599.0	16.5	50	23	418.5	108	27	34	58	38	19Hex	31	56.5

Fig 21-2

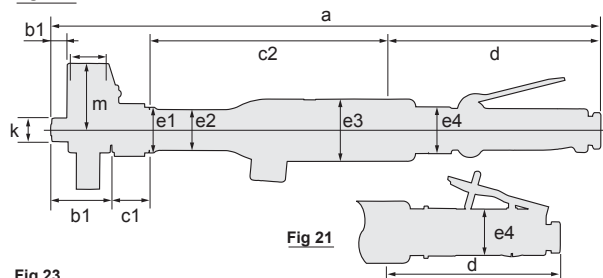


Fig 21

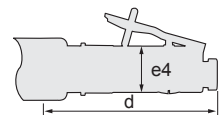


Fig 23

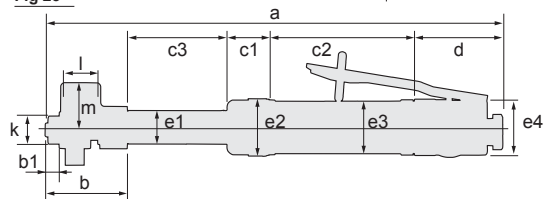
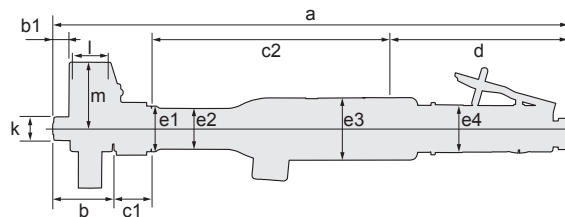


Fig 21-4



EXTENDED GRINDERS

Locking Lever Handle Models

Fig N°	Model	a	b1	b	c3	c1	c2	d	e1	e2	e3	e4	k	l	m
23	FG-50L-1BF	316.5	8	36.0	91	29	103.5	57	23	39.5	36	39	17Hex	22.0	32.0
23	FG-50Y-1BF	532.0	8	36.5	306	29	103.5	57	23	39.5	36	39	17Hex	22.0	32.0
23	FG-3HL-1F	547.0	14	43.0	252	21	105.0	126	23	40.0	48	38	17Hex	22.5	40.5
Fig N°	Model	a	b1	b	c3	c1	c2	d	e1	e2	e3	e4	k	l	m
21-4	FG-4HL-1F	613.0	14	50.0	22	415	126.0	27	34	52.0	38	17Hex	33	45.5	
21-2	FG-5HL-2M	1055.0	14	63.0	24	760	208.0	36	34	58.0	38	21Hex	31	58.5	

ABRASIVE TOOLS

Fig 23

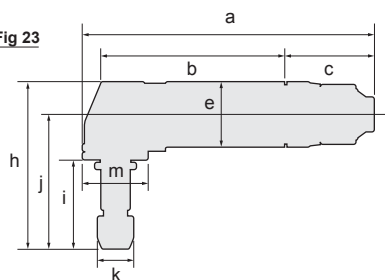


Fig 19

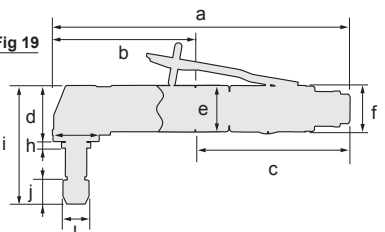


Fig 24-2

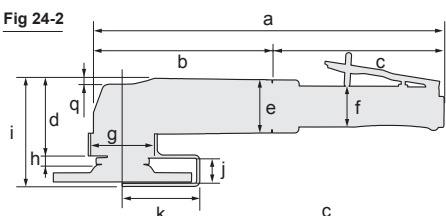


Fig 24-5

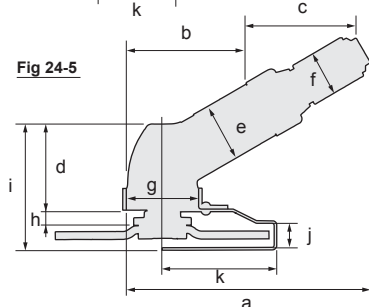


Fig 24-6

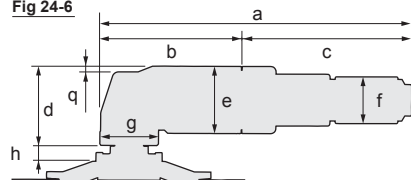


Fig 24-7

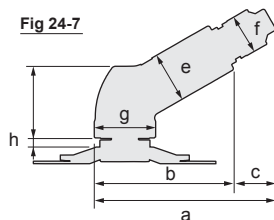
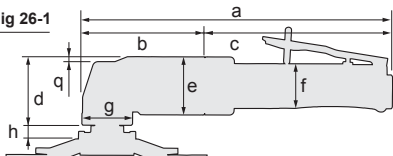


Fig 26-1



ANGLE GRINDERS

Roll Throttle Models

Fig N°	Model	a	b	c	e	h	i	j	k	m
23	FA-2C-30	155.5	98.0	46.5	35	90.0	73	48	19.6	35
23	FA-2CX-30	197.0	98.5	60.0	35	89.5	72	47	19.6	35

AngleType Models

Side Exhaust Type

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	l
19	FA-2C-2BF	190	110	80	42.5	35	35	35	5	90.3	18	17Hex
19	FA-2C-3BF	190	110	80	42.5	35	35	35	5	90.3	18	17Hex

Side Exhaust Type

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	l
19	FA-2CX-2BF	226	109	117	42.5	35	35.0	35	5	90.3	18	17Hex
19	FA-2CX-3BF	226	109	117	42.5	35	35.0	35	5	90.3	18	17Hex

ANGLE GRINDERS

Locking Lever Handle Models

Fig N°	Model	b1	b	c1	c2	d	e1	e2	e3	k	l	m	o
24-2	FA-2C-1BF	190.0	111.0	79.0	42.5	35	35	35	5	59.5	18.8	33.6	
24-2	FA-3C-1F	192.5	116.5	76.0	56.0	38	35	45	7	76.2	17.0	46.1	
24-2	FA-3C-2F	192.5	116.5	76.0	56.0	38	35	45	7	78.2	19.0	57.6	
24-2	FA-2CX-1BF	226.0	109.0	117.0	42.5	35	35	35	5	59.5	18.8	33.6	
24-2	FA-3CX-1F	247.0	133.0	114.0	56.0	40	35	45	8	76.2	17.0	46.1	
24-2	FA-3CX-2F	247.0	133.0	114.0	56.0	40	35	45	7	78.2	19.0	57.6	
24-2	FA-5E-13F	279.5	110.5	169.0	61.5	52	40	45	13	90.7	18.5	72.6	4.5
24-2	FA-5E-13VF	260.5	110.5	150.0	61.5	52	40	45	13	90.7	18.5	72.6	4.5
24-2	FA-6C-8M	353.0	146.0	207.0	74.0	56	38	60	32.0	126.0	25.8	98.0	-
24-2	FA-7E-6VF	307.0	145.5	161.5	75.6	62	40	60	26.2	120.5	21.0	100.5	6

ANGLE GRINDERS

Roll Throttle Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
24-5	FA-3CK-2	164	95	70	63	40	33	45	14.5	95	23.8	57.6
24-5	FA-150KG-5	206	127	79	72	50	36	60	15.0	107	20.8	96.6

ANGLE GRINDERS

Roll Throttle Models

Fig N°	Model	a	b	c	d	e	f	g	h	q
24-6	FA-4CH-3	217.0	131.0	86	68.6	48	37	52	16.5	-
24-6	FA-5E-7V	210.5	110.5	100	61.5	52	36	45	13.0	4.5

ANGLE GRINDERS

Roll Throttle Models

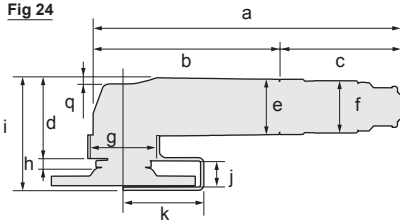
Fig N°	Model	a	b	c	d	e	f	g	h
24-7	FA-150KG-7	206	127	79	72.0	50	36.0	60	15.0
24-7	FA-150K-20	179	137	42	71.6	60	39.5	60	9.0

ANGLE GRINDERS

Locking Lever Handle Models

Fig N°	Model	a	b	c	d	e	f	g	h	q
26-1	FA-5E-6VF	260.5	110.5	150.0	61.5	52.0	40.0	45	13.0	4.5
26-1	FA-7E-5VF	307.0	145.5	161.5	75.6	62.0	40.0	60	26.2	6.0

Fig 24



ANGLE GRINDERS

Roll Throttle Models

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
24	FA-4C-1	212	111	101	69.0	48	32	52	8	95	14.8	57.6
24	FA-4C-3	212	110	103	69.0	48	37	52	8	95	14.8	57.6
24	FA-6C-1	252	146	106	74.0	56	38	60	15	108	20.8	96.6
24	FA-6C-7	252	146	106	74.0	56	38	60	18	108	17.8	84.1
24	FA-7C-1	263	143	120	74.0	63	42	60	15	109	17.8	96.6
24	FA-9C-1	305	166	139	80.0	69	42	60	15	114	20.0	110.0
24	FA-9C-6	305	166	139	80.0	69	42	60	17	117	21.0	122.0

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	q
24	FA-5E-1V	210.5	110.5	100.0	61.5	52	36	45	13.0	90.7	18.5	72.6	4.5
24	FA-5E-3V	210.5	110.5	100.0	61.5	52	36	45	13.0	90.2	19.0	57.6	4.5
24	FA-5E-11V	210.0	109.0	101.0	63.0	52	36	45	10.5	96.0	19.0	100.5	4.5
24	FA-7E-2V	266.0	145.5	120.5	75.6	62	42	60	17.0	110.5	21.0	100.5	6.0

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	q
24	FA-7E-4V	305	135	163	77.5	62	42	60	20	112.5	19	95.8	6

Fig 28

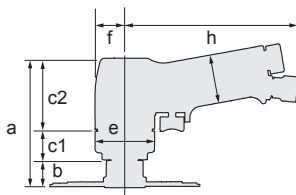


Fig 29-1

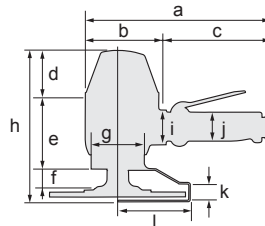


Fig 29-2



Fig 29-3



DISC SANDERS

Fig N°	Model	a	b	c1	c2	e	f	g	h
28	FG-5PX-10	108.0	21.0	24.0	63.0	50.0	25.0	41	147.0

VERTICAL GRINDERS

Standard Type

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l
29-1	FV-7-1M	247.0	100.0	147.0	63.0	94.4	26.2	64	201.0	46	38	22.0	96.6
29-1	FV-7-4M	247.0	100.0	147.0	63.0	94.4	26.2	64	201.0	46	38	22.0	96.6
29-1	FV-9BH-1M	266.0	127.5	138.5	69.0	119.0	50.2	69	238.2	46	38	30.0	122.0

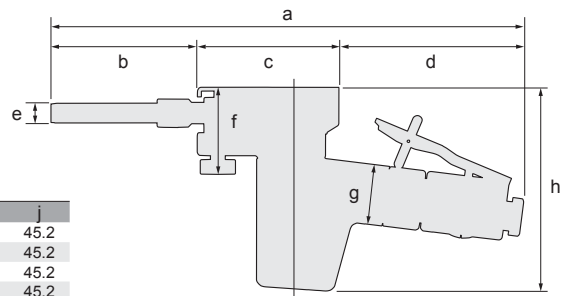
Cup Wheel Type

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	l	m
29-3	FV-9BH-4M	266.0	127.5	138.5	69.0	119.0	76	69	264.0	46	38	88.4	56-85

Sanding Disc Type

Fig N°	Model	a	b	c	d	e	f	g	i	j
29-2	FV-7-2M	247.0	100.0	147.0	63.0	94.4	38	64	46	38

Fig 30



BELT SANDERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j
30	FBS-1-1	281	87	84	110	10	51	35	121	18	45.2
30	FBS-1-2	375	181	84	110	20	51	35	121	22	45.2
30	FBS-1-3	345	151	84	110	13	51	35	121	18	45.2
30	FBS-1-4	345	151	84	110	20	51	35	121	22	45.2

Fig 31

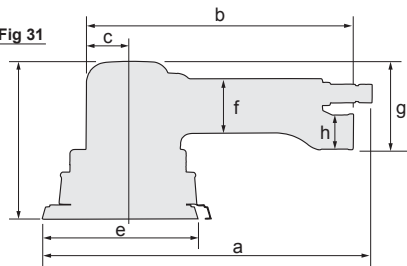
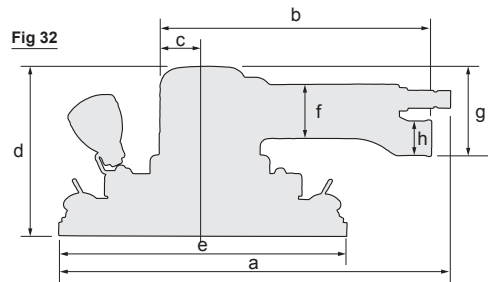


Fig 32



ORBITAL SANDERS

Locking Lever Handle Models

Fig N°	Model	a	b	c	d	e	f	g	h
31	DA-125L-E(-M)	172	142	33	97	125	-	45	26
31	DA-125C-E(-M)	172	142	33	117	125	-	45	26
31	FOR-125B-E(-M)	259	216	35	122	125	42	69	26
31	FOR-150B-E(-M)	276	124	35	122	150	42	68	26
31	FOR-125BF-E(-M)	259	216	35	122	125	42	69	26
31	FOR-150BF-E(-M)	276	124	35	122	150	42	68	26
32	FOS-175BF-E(-M)	285	216	35	130	100X175	42	69	26
32	FOS-230BF-E	312	217	35	132	100X230	42	68	26
32	FOS-400BF-E	400	211	32	138	100X400	43	66	26

DRILLS

Fig 33

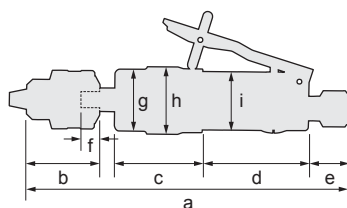
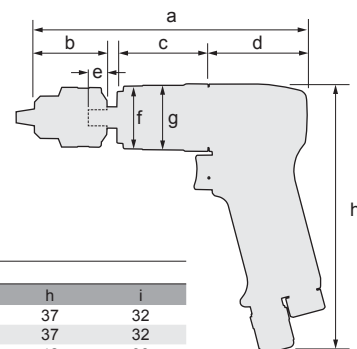


Fig 34-1



DRILLS

Straight / Side Exhaust Type

Fig N°	Model	a	b	c	d	e	f	g	h	i
33	FRD-5S-1(F)	179	40	49	58.5	22.5	12	34	37	32
33	FRD-5S-2T(F)	168	32	49	58.5	22.5	12	34	37	32
33	FRD-6S-2(F)	209	40	57	82.5	22.5	12	39	42	38
33	FRD-6S-3(F)	212	43	57	82.5	22.5	12	39	42	38
33	FRD-6S-5(F)	230	51	69	82.5	22.5	12	41	46	38
33	FRD-6S-7(F)	265	64	91	82.5	22.5	15	32	42	38

Pistol / Rear Exhaust Type

Fig N°	Model	a	b	c	d	e	f	g	h
34-1	FRD-5P-1	155	40	46.5	60.5	12	34	35	159
34-1	FRD-8PX-1	187	43	62.0	75.0	12	40	45	191
34-1	FRD-8PX-2	210	51	77.0	75.0	12	40	52	191
34-1	FRD-8PX-3	240	64	95.0	75.0	15	48	51	191

Fig 35-1

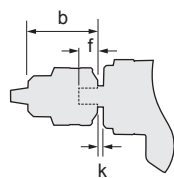
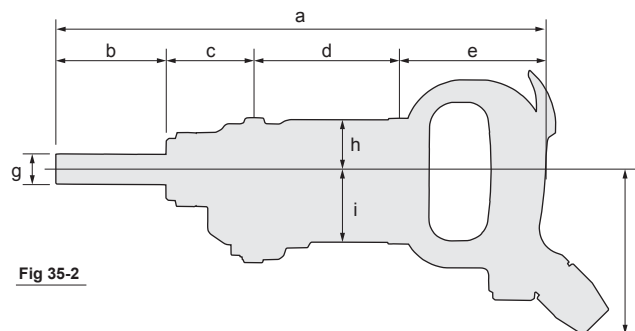


Fig 35-2



Grip Handle Middle Size Drills

Fig N°	Model	a	b	c	d	e	f	k	g	h	i	j
35-1	FRD-12Z-1(C)	349	51	58	96	97	15	5	-	33	47	108
35-1	FRD-16Z-1(C)	374	73	58	96	97	20	8	-	33	47	108

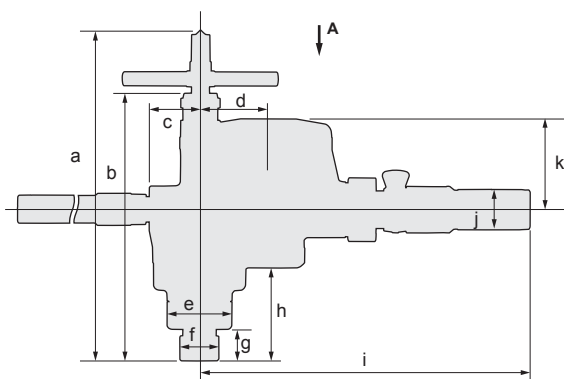
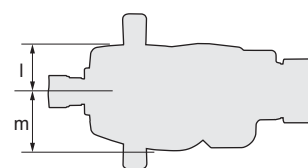


Fig 36



A VIEW

Grip Handle Middle Size Drills

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m
36	FRD-20R-21(S)	278.5~345.5	220.5	37	56.7	52	26	15.6	85.6	300.7	38	75.9	39	39
36	FRD-20R-22(S)	305~372	247.0	37	56.7	48	32	27.1	112.1	300.7	38	75.9	39	39
36	FRD-23R-21(S)	278.5~345.5	220.5	37	56.7	52	26	15.6	85.6	300.7	38	75.9	39	39
36	FRD-23R-22(S)	305~372	247.0	37	56.7	48	32	27.1	112.1	300.7	38	75.9	39	39
36	FRD-25R-11(S)	354.4~450.4	293.4	55	75.0	70	42	34.6	102.6	364.0	43	99.4	51	65
36	FRD-28R-11(S)	354.4~450.4	293.4	55	75.0	70	42	34.6	102.6	364.0	43	99.4	51	65
36	FRD-32R-11(S)	354.4~450.4	293.4	55	75.0	70	42	34.6	102.6	364.0	43	99.4	51	65
36	FRD-32R-12(S)	382.4~478.4	321.4	55	75.0	70	49	62.6	130.6	364.0	43	99.4	51	65
36	FRD-40R-11(S)	446.4~539.4	385.4	55	75.0	78	52	41.6	195.1	364.0	43	99.4	65	65
36	FRD-50R-11(S)	446.4~539.4	385.4	55	75.0	78	52	41.6	195.1	364.0	43	99.4	65	65
36	FRD-65R-1	466~591	391.0	82	121.7	87	70	46.0	141.0	572.0	48	122.0	68	68
36	FRD-75R-1	600~728	525.0	82	121.7	87	70	67.0	165.0	572.0	48	122.0	68	68
36	FRD-75R-1S	600~728	525.0	82	121.7	87	70	67.0	165.0	552.0	43	122.0	68	68
36	FRD-100R-1	600~728	525.0	82	121.7	87	70	67.0	165.0	572.0	48	122.0	68	68

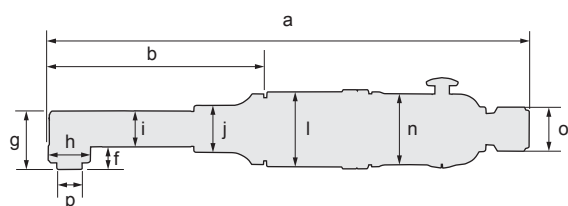


Fig 37

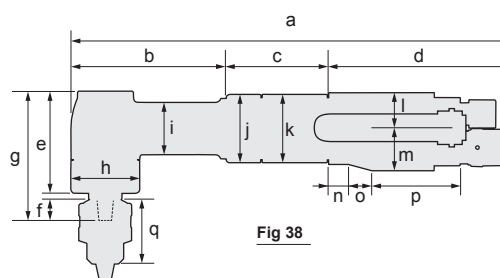


Fig 38

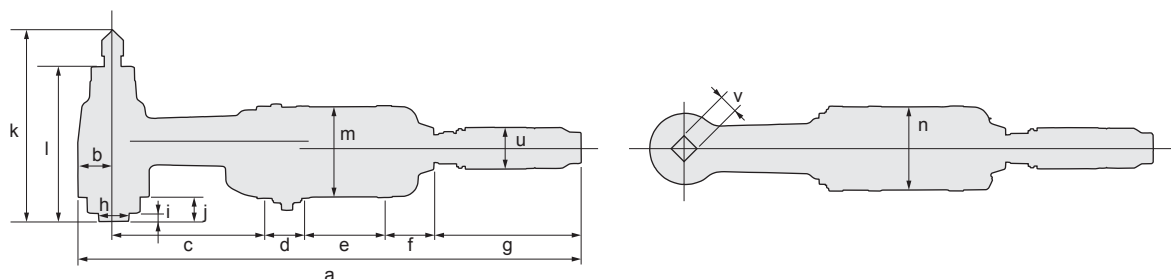
BABY ANGLE DRILLS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
37	FCD-6A-1	223	99.5	10.5	26.5	19	16	21	34	32	19.6	9.5Hex					
37	FCD-6B-1(F)	222	99.5	10.5	26.5	19	16	21	34	32	19.6	9.5Hex					
37	FCD-6EX-3	246	94.0	7.0	27.0	17	17	22	38	35	27.0	-					
37	FCD-6EX-4	246	94.0	7.0	27.0	17	17	22	38	35	27.0	-					

BABY ANGLE DRILLS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
38	FCD-6X-1(F)	273	97	64	112	63	12	79	42	32	42	42	22.0	26.0	12	15	54	40
38	FCD-6X-2(F)	286	97	77	112	63	12	79	42	32	42	44	22.0	26.0	12	15	54	43
38	FCD-10X-1(F)	377	93	60	224	62	14	82	42	36	46	50	24.5	17.5	82	10	84	51

Fig 39



HEAVY-DUTY CORNER DRILLS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m	n	u	v
39	F-14CN(-1S)	414	24	150	20	70	55	95	22	6.0	21.0	135.0~173.0	110.0	71.7	62	40	16
39	F-14CN(-2S)	414	24	150	20	70	55	93	29	16.5	33.5	147.5~185.5	122.5	71.7	62	40	16
39	F-22RCN(-1S)	499	35	150	39	79	50	146	29	8.0	24.0	177.0~237.0	152.0	88.0	82	38	16
39	F-32RCN(-1S)	529	40	175	39	79	50	146	34	11.0	21.0	195.0~255.0	170.0	88.0	82	38	16
39	F-32RCNS(-1S)	529	40	175	39	79	50	146	35	1.0	9.0	126.0~151.0	107.0	88.0	82	38	14
39	F-22RCR(-1S)	528	35	150	39	79	50	175	29	8.0	24.0	177.0~237.0	152.0	88.0	82	38	16
39	F-32RCR(-1S)	558	40	175	39	79	50	175	34	11.0	21.0	195.0~255.0	170.0	88.0	82	38	16
39	FCD-23R(-11S)	473	27	96	39	80	60	172	27	5.5	15.5	151.5~186.5	126.5	91.5	81	38	16
39	FCD-23R(-12S)	473	27	96	39	80	60	172	31	14.5	37.5	172.5~207.5	147.5	91.5	81	38	16
39	FCD-32R-11(S)	579	35	118	50	101	72	203	35	10.0	26.0	194.0~247.0	164.0	110.0	96	43	16
39	FCD-50R-11(S)	596	42	128	50	101	75	200	44	16.0	38.0	230.0~288.0	191.0	110.0	96	43	22.2
39	FCD-75R-11(S)	652	49	157	50	121	75	200	60	18.0	48.0	272.0~329.0	227.0	110.0	96	43	25.4
39	FCD-100R-11(S)	729	62	241	50	101	75	200	60	38.0	75.0	306.0~411.0	285.0	110.0	96	43	23

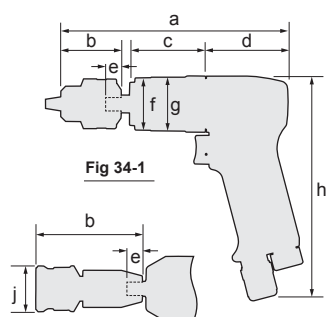


Fig 34-1

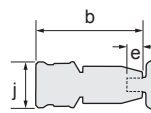


Fig 34-2

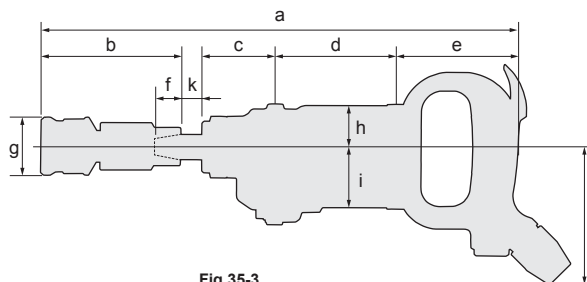


Fig 35-3

TAPPERS

Fig N°	Model	a	b	c	d	e	f	g	h	i
34-1	FT-6P-1	236	45	112	63.5	15	38	45	154.0	-
34-1	FT-6BX-1D	206	40	34	128.0	15	46	47	143.5	-
34-2	FT-6BX-1T	241	75	34	128.0	15	46	47	143.5	32
34-2	FT-8PX-1	232	78	27	121.0	14	46	45	193.0	32

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k
35-3	FT-13Z-1	427	70	92	108	97	20	45	37	65	108	18

PERCUSSIVE TOOLS

FLUX CHIPPERS

Fig N°	Model	a	b	c	d	e	f	g	h
41	FCH-20(-1F)	176	66	52	58	33	32	36	9.0
41	FCH-20F(-1F)	182	42	82	58	39	32	36	12.7
41	FCH-25(-1F)	204	44	92	68	39	40	44	12.7
41	FCH-25B(-1F)	239	44	92	103	39	40	44	12.7

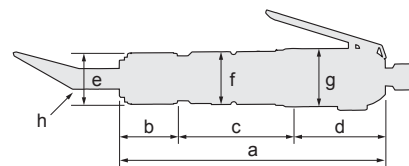


Fig 41

LIGHT HAMMERS

Fig N°	Model	a	b	c	d	e	f	g	h	b1
42	FRH-3-1	140	39.5	10	38	52.5	30	25	121	38
42	FRH-3-2	140	39.5	10	38	52.5	30	25	121	38
42	FRH-6-1	206	39.5	76	38	52.5	30	25	121	38
42	FRH-6-2	206	39.5	76	38	52.5	30	25	121	38
42	FRH-6A-1	193	42.0	63	36	52.0	36	25	121	36
42	FRH-6A-2	193	42.0	63	36	52.0	36	25	121	36

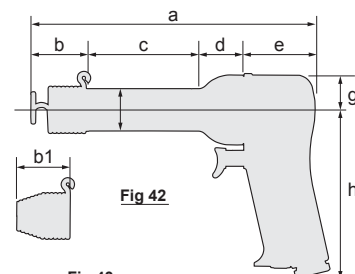


Fig 42

CHIPPING AND CALKING HAMMERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j
43	FC-01SA-H	281.0	49.0	65	37.0	119	11	23	39	53	142
43	FC-01SA-R	281.0	49.0	65	37.0	119	11	23	39	53	142
43	FC-01-3	284.0	60.0	57	37.0	119	11	30	40	44	142
43	FC-01-4	284.0	60.0	57	37.0	119	11	30	40	44	142
43	FC-1Z-1	343.5	79.5	54	39.5	147	23	46	59	63	158
43	FC-1Z-2	343.5	79.5	54	39.5	147	23	46	59	63	158
43	FC-2Z-1	384.5	79.5	95	39.5	147	23	46	59	63	158
43	FC-2Z-2	384.5	79.5	95	39.5	147	23	46	59	63	158
43	FC-3Z-1	428.5	79.5	139	39.5	147	23	46	59	63	158
43	FC-3Z-2	428.5	79.5	139	39.5	147	23	46	59	63	158
43	FC-4Z-1	467.5	79.5	178	39.5	147	23	46	59	63	158
43	FC-4Z-2	467.5	79.5	178	39.5	147	23	46	59	63	158

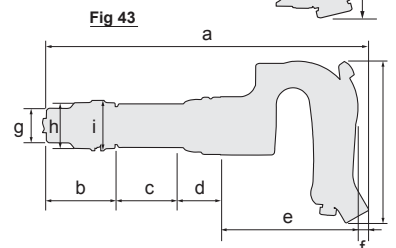


Fig 43

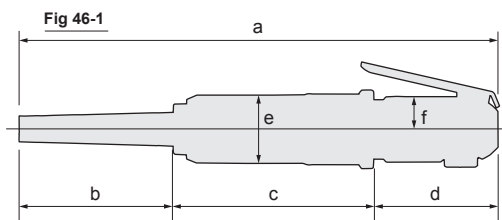


Fig 46-1

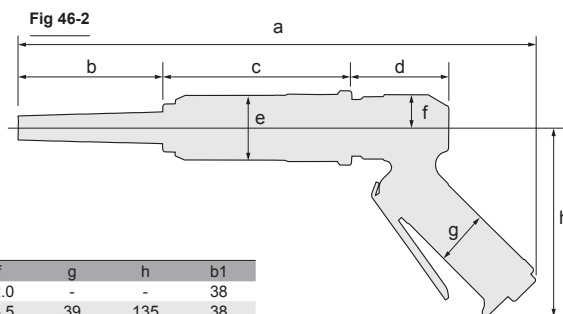


Fig 46-2

NEEDLE SCALERS

Fig N°	Model	a	b	c	d	e	f	g	h	b1
46-1	FNS-2(-1F)	325	104	136	85	46	22.0	-	-	38
46-2	FNS-2P(-1F)	372	104	136	70	46	23.5	39	135	38

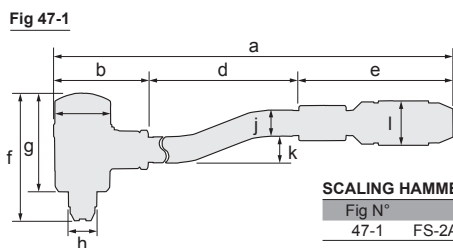


Fig 47-1

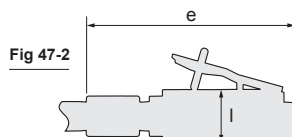


Fig 47-2

SCALING HAMMERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l
47-1	FS-2A-1(F)	535	82	-	295	158	110~94	85	21	50	22	23	40

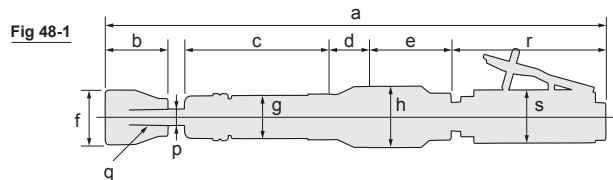


Fig 48-1

SAND RAMMERS

Fig N°	Model	a	b	c	d	e	f	g	h	s	i	j	p	q
48-1	FR-18B-2(F)	390~440	47	114	28	63	41	118	32	46	40	-	12.0	taper 1:20
48-1	FR-22B-2(F)	465~529	60	154	35	68	51	118	38	50	40	-	14.0	taper 1:20
48-1	FR-25B-2(F)	630~713	80	228	49	90	67	118	46	60	40	-	17.5	taper 1:20

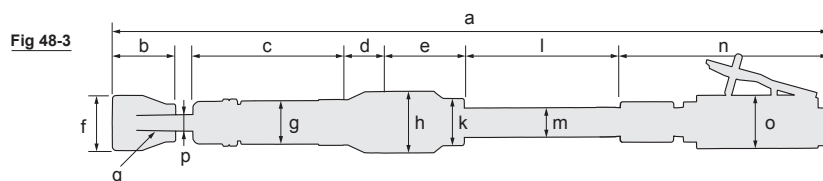
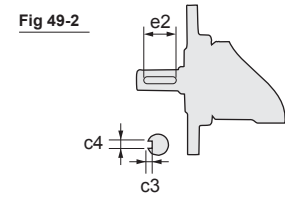
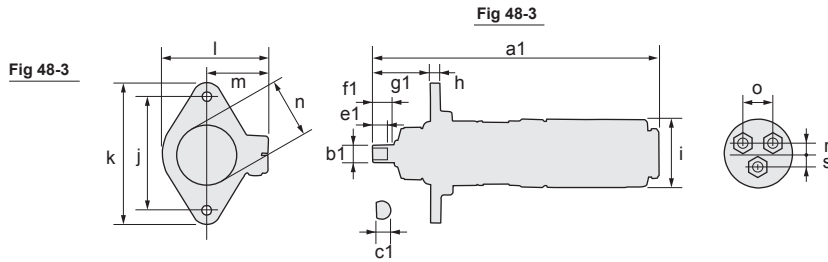


Fig 48-3

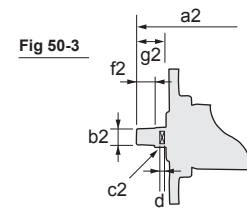
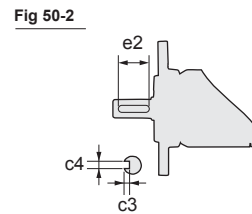
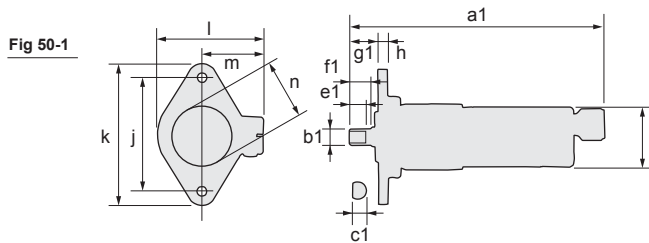
Fig N°	Model	a	b	c	d	e	f	g	h	k	l	m	n	p	q
48-4	FR-18L-2(F)	542~592	60	113	28	64.0	51	32	46	35	124	21.7	158	40	12.0
48-4	FR-22L-2(F)	614~678	60	154	35	68.0	51	38	50	35	124	21.7	158	40	14.0
48-4	FR-25L-2(F)	1038~1121	80	228	49	90.0	67	46	60	45	400	21.7	158	40	17.5
48-4	FR-32-2(F)	1123~1250	92	260	60	85.6	75	53	68	50	401	27.5	158	40	19.0



AIR MOTORS

Reversible Type

Fig N°	Model	a1	b1	c1	c3	c4	e1	e2	f1	g1	h	i	j	k	l	m	n	o	r	s
49-1	F-5SM-8.5R	147	8	7.0	-	-	10	-	12	20.0	5	40	60	74	55	33	35	18	6.5	8.0
49-1	F-5SM-2R	180	8	7.0	-	-	10	-	12	25.0	5	40	60	74	55	33	35	18	6.5	8.0
49-1	F-6SM-28R	146	10	8.5	-	-	12	-	14	19.0	6	42	70	88	64	38	39	20	6.5	8.0
49-1	F-6SM-21R	146	10	8.5	-	-	12	-	14	19.0	6	42	70	88	64	38	38	20	6.5	8.0
49-1	F-6SM-12R	157	10	8.5	-	-	12	-	14	18.0	6	42	70	88	64	38	39	20	6.5	8.0
49-1	F-6SM-8R	179	10	8.5	-	-	12	-	14	36.0	6	42	70	88	64	38	39	20	6.5	8.0
49-1	F-6SM-5R	179	10	8.5	-	-	12	-	14	36.0	6	42	70	88	64	38	38	20	6.5	8.0
49-1	F-6SM-2.5R	192	10	8.5	-	-	12	-	14	36.0	6	42	70	88	64	38	38	20	6.5	8.0
49-2	F-8SM-28R	183	12	-	2.5	4.0	-	18	25	29.0	6	58	70	88	64	38	45	26	11.0	17.0
49-2	F-8SM-12R	199	12	-	2.5	4.0	-	18	25	49.0	8	58	90	114	81	48	52	26	11.0	17.0
49-2	F-8SM-8.5R	222	16	-	3.0	5.0	-	25	32	46.5	8	58	90	114	81	48	51	26	11.0	17.0



Non-Reversible Type

Fig N°	Model	a1	b1	c1	c3	c4	e1	e2	f1	g1	h	i	j	k	l	m	n	a2	b2	c2	d	f2	g2
50-1	F-5SM-8.5	152	8	7.0	-	-	10	-	12	20.0	5	32	60	74	55	33	35	-	-	-	-	-	-
50-1	F-5SM-2	185	8	7.0	-	-	10	-	12	25.0	5	32	60	74	55	33	35	-	-	-	-	-	-
50-1, 3	F-6SM-28	167	10	8.5	-	-	12	-	14	19.0	6	38	70	88	64	38	39	169	3/8-24	10	4	12	21.0
50-1, 3	F-6SM-21	167	10	8.5	-	-	12	-	14	19.0	6	38	70	88	64	38	39	167	3/8-24	10	4	12	19.0
50-1, 3	F-6SM-12	178	10	8.5	-	-	12	-	14	18.0	6	38	70	88	64	38	41	178	3/8-24	10	4	12	18.0
50-1, 3	F-6SM-8	200	10	8.5	-	-	12	-	14	36.0	6	38	70	88	64	38	38	200	3/8-24	14	5	12	36.0
50-1, 3	F-6SM-5	200	10	8.5	-	-	12	-	14	36.0	6	38	70	88	64	38	38	200	3/8-24	14	5	12	36.0
50-1, 3	F-6SM-2.5	213	10	8.5	-	-	12	-	14	36.0	6	38	70	88	64	38	38	214	3/8-24	14	5	12	36.0
50-2, 3	F-8SMA-28	181	12	-	2.5	4.0	-	18	25	30.0	6	50	70	88	64	38	43	173	3/8-24	12	5	12	20.0
50-2, 3	F-8SMA-12	200	12	-	2.5	4.0	-	18	25	28.0	8	50	90	114	81	48	51	189	3/8-24	12	5	12	17.0
50-2, 3	F-8SMA-8.5	222	16	-	3.0	5.0	-	25	32	46.5	8	50	90	114	81	48	51	208	1/2-20	14	6	15	32.5

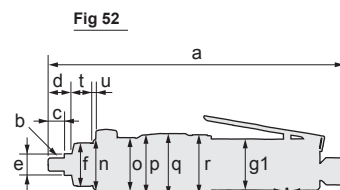
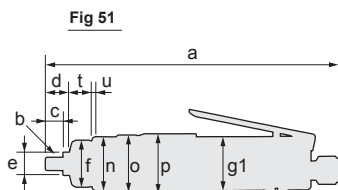
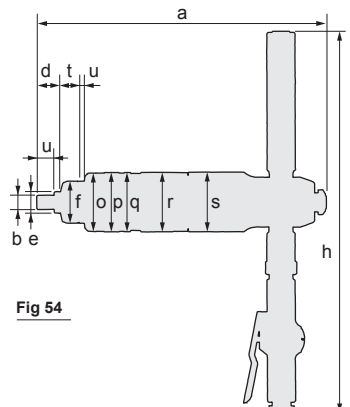
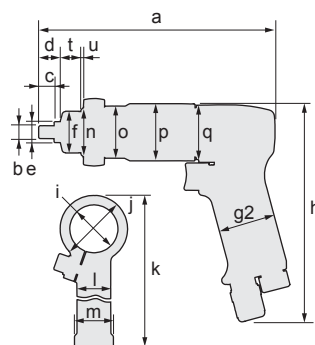


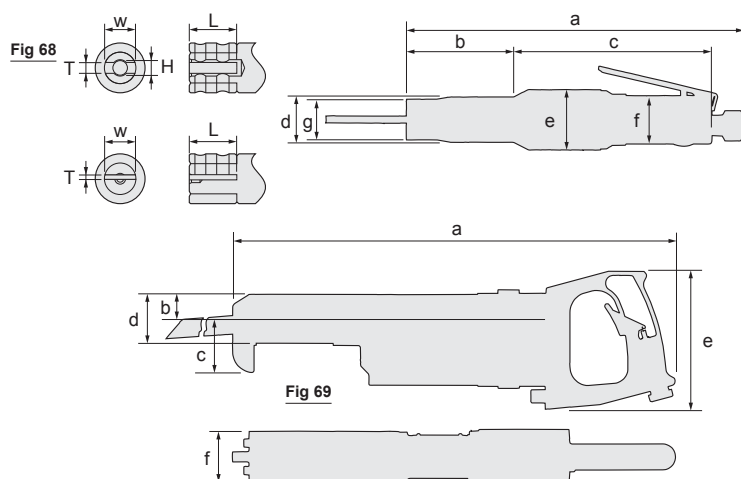
Fig 53



Non-Reversible Type

Fig N°	Model	a	b	c	d	e	f	g1	g2	h	i	j	k	l	m	n	o	p	q	r	s	t	u
51	F-6SE	210	3/8-24	12	17	15.88	32	38	-	-	38	52	176	26	30	38	40	42	-	-	-	16	2
52	F-6SF	225	3/8-24	12	17	15.88	32	38	-	-	38	52	176	26	30	38	40	44	46	44	-	16	2
53	F-6PFX	184	3/8-24	12	17	15.88	32	-	44	170	38	52	176	26	30	38	40	44	42	-	-	16	2
54	F-10MT	266	1/2-20	16	22	19.05	38	-	-	352	-	-	-	-	-	-	53	54	54	54	54	17	5

COMPLEMENTARY RANGE



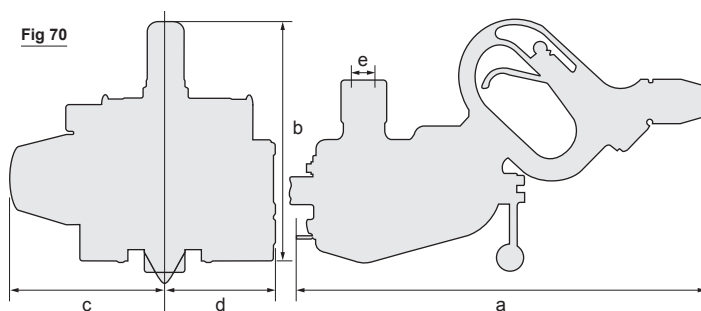
AIR FILES

Fig N°	Model	a	b	c	d	e	f	g	T	W	L	H
68	FRF-4-1F	228	73	133.5	30	40	32	27	4	13	21	6

AIR SAWS

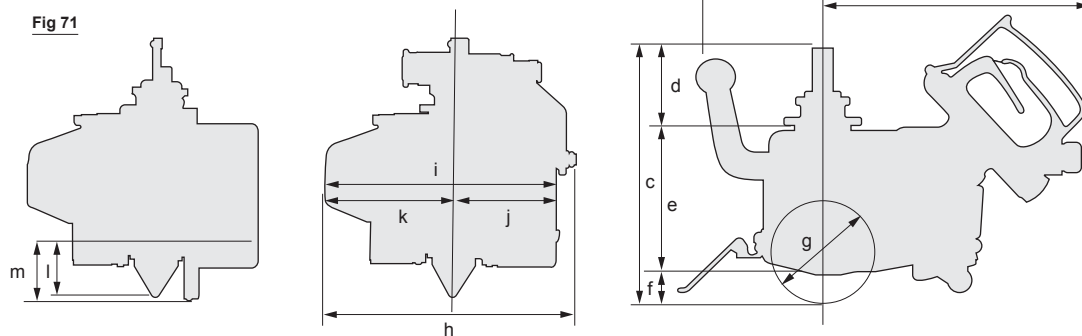
Fig N°	Model	a	b	c	d	e	f	g	T	W	L
68	FRF-4-2F	232	77	133.5	30	40	32	27	2	13	21

Fig N°	Model	a	b	c	d	e	f
69	FRS-45	421	24	50	46	131	48



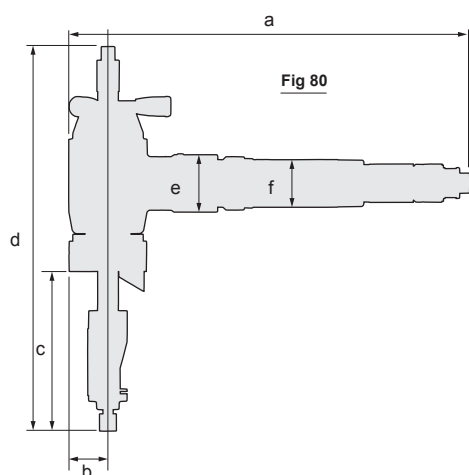
ALUMINUM MILLING MACHINES

Fig N°	Model	a	b	c	d	e
70	FRC-200-1	295	172	111	79	24



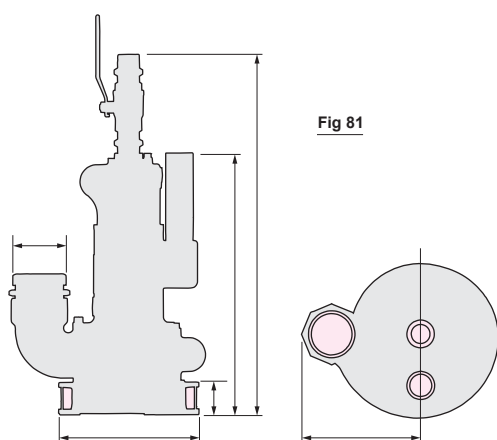
ALUMINUM MILLING MACHINES

Fig N°	Model	a	b	c	d	e	f	g	h	i	j	k	l	m
71	FRC-300-1	376	252	250	79	140.5	30.5	100	240	222	97	125	50	50.5



PIPE BEVELLING MACHINES

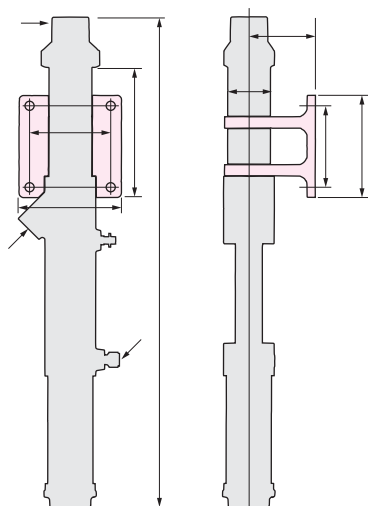
Fig N°	Model	a	b	c	d	e	f
80	FBM-16-1(S)	261	19.0	51	268	48	42
80	FBM-24-1(S)	278	27.5	67	240	48	42
80	FBM-80A-2(S)	403	39.0	160	388	58	48
80	FBM-80A-3(S)	403	39.0	160	388	58	48
80	FBM-80A-4(S)	403	39.0	160	388	58	48
80	FBM-80A-5(S)	403	39.0	160	388	58	48
80	FBM-80A-6(S)	403	39.0	160	388	58	48
80	FBM-300-2(S)	524	56.0	179	511	74	93
80	FBM-300-3(S)	524	135.0	179	511	74	93
80	FBM-300-4(S)	524	135.0	179	511	74	93



SUMP PUMPS

Fig N°	Model	a	b	c	d	e	f
81	FP-7-2	288.6	231.0	9	110	63	PT 3/4
81	FP-20-1	500.0	374.0	52	200	177	W82.5-5
81	FP-35-1	607.0	452.6	50	220	187	W82.5-5

Fig 82

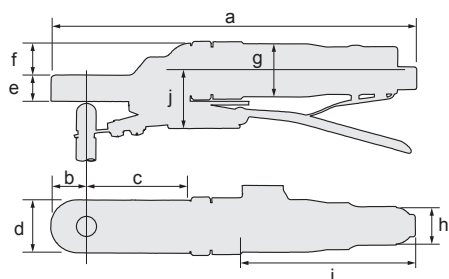


PISTON PUMPS

Fig N°	Model	a	b	c	d	e	f	g
82	FP-11-1	622	137.5	55	PT 1/4	PT 3/4	PT 11/2	84
82	FP-11-2	622	137.5	55	PT 1/4	PT 3/4	PT 11/2	84

COMPLEMENTARY RANGE

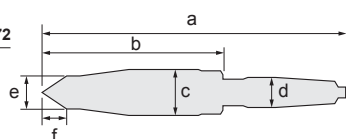
Fig 63



TIP DRESSERS

Fig N°	Model	a	b	c	d	e	f	g	h	i	j
63	FTD-18-1	292	30	87	44	21.5	29	47	-	-	-
63	FTD-18A-1	307	30	83	44	22.0	26	46	30	147	54

Fig 72



MARKING PEN

Fig N°	Model	a	b	c	d	e	f
72	G-400	147.5	76	19.5	17.5	2.15	1.5

Fig 73

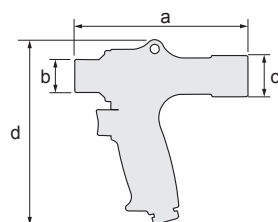
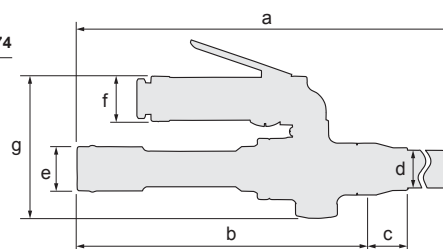


Fig 74



AIR CLEANERS

Fig N°	Model	a	b	c	d
73	AC-200F	145	27	34	153

Fig N°	Model	a	b	c	d	e	f	g
74	FJP-500	1020	248.5	32	32	38	38	121

VIBRATION AND NOISE

Listed specifications are for reference only. Please check documents in each tool.

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
AC-200F	87	98	< 2.5	0.5
DA-125C-E	81	92	3	1.3
DA-125L-E	81	92	3	1.3
F-10MT	89	100	< 2.5	0.5
F-14CN-1S	102	113	< 2.5	0.5
F-14CN-2S	102	113	< 2.5	0.5
F-22RCN-1S	102	113	< 2.5	0.5
F-22RCR-1S	102	113	< 2.5	0.5
F-32RCN-1S	101	112	< 2.5	0.5
F-32RCNS-1S	101	112	< 2.5	0.5
F-32RCR-1S	101	112	< 2.5	0.5
F-5SM-2	89	100	< 2.5	0.5
F-5SM-2R	89	100	< 2.5	0.5
F-5SM-8.5	89	100	< 2.5	0.5
F-5SM-8.5R	89	100	< 2.5	0.5
F-6SE	89	100	< 2.5	0.5
F-6SF	89	100	< 2.5	0.5
F-6SM-12	89	100	< 2.5	0.5
F-6SM-12R	89	100	< 2.5	0.5
F-6SM-2.5	89	100	< 2.5	0.5
F-6SM-2.5R	89	100	< 2.5	0.5
F-6SM-21	89	100	< 2.5	0.5
F-6SM-21R	89	100	< 2.5	0.5
F-6SM-28	89	100	< 2.5	0.5
F-6SM-28R	89	100	< 2.5	0.5
F-6SM-5	89	100	< 2.5	0.5
F-6SM-5R	89	100	< 2.5	0.5
F-6SM-8	89	100	< 2.5	0.5
F-6SM-8R	89	100	< 2.5	0.5
F-8SM-12R	91	102	< 2.5	0.5
F-8SM-28R	91	102	< 2.5	0.5
F-8SM-8.5R	91	102	< 2.5	0.5
F-8SMA-12	91	102	< 2.5	0.5
F-8SMA-28	91	102	< 2.5	0.5
F-8SMA-8.5	91	102	< 2.5	0.5
FA-150K-20	86	97	3.1	1.0
FA-150KG-5	89	100	3.1	1.0
FA-150KG-7	89	100	3.1	1.0
FA-2C-1	89	100	4.3	1.3
FA-2C-1BF	89	100	4.3	1.3
FA-2C-2	89	100	3.6	2.2
FA-2C-2BF	89	100	3.6	2.2
FA-2C-30	89	100	3.6	2.2
FA-2C-30F	89	100	3.6	2.2
FA-2CX-1	89	100	3.6	2.2
FA-2CX-1BF	89	100	3.2	1.3
FA-2CX-2	89	100	3.6	2.2
FA-2CX-2BF	89	100	3.2	1.3
FA-2CX-30	89	100	3.6	2.2
FA-2CX-30F	89	100	3.2	1.3
FA-3C-1	89	100	3.2	1.3
FA-3C-1F	89	100	3.2	1.3
FA-3C-2	83	94	3.2	1.3
FA-3C-2F	85	96	3.2	1.3
FA-3CK-1	86	97	3.2	1.3
FA-3CK-2	88	99	2.8	1.0
FA-3CX-1	88	99	3.2	1.3
FA-3CX-1F	78	89	3.2	1.3
FA-3CX-2	78	89	3.2	1.3
FA-3CX-2F	78	89	3.2	1.3
FA-40-1	78	89	4.5	1.4
FA-40-1F	75	86	4.5	1.4
FA-4C-1	84	95	4.5	1.4
FA-4C-1F	84	95	4.5	1.4
FA-4C-3	81	92	4.5	1.4
FA-4chk-3F	81	92	2.8	1.0
FA-5C-1	81	92	5.1	1.6
FA-5C-4	81	92	5.1	1.6
FA-5C-5	81	92	< 2.5	0.9
FA-5E-11V	80	91	5.1	1.6
FA-5E-13F	80	91	5.1	1.6
FA-5E-13VF	80	91	5.1	1.6
FA-5E-1V	87	98	5.1	1.6
FA-5E-2F	85	96	5.1	1.6
FA-5E-2VF	88	99	4.8	1.5
FA-5E-3V	88	99	4.3	1.3
FA-5E-6VF	74	85	< 2.5	0.9
FA-5E-7V	75	86	2.8	1.0
FA-6C-1	88	99	4.7	1.4
FA-6C-12	81	92	6.4	1.9
FA-6C-12M	81	92	6.4	1.9
FA-6C-6M	85	96	6.4	1.9
FA-6C-7	85	96	4.7	1.4
FA-6C-8M	85	96	4.7	1.4
FA-6C-9M	85	96	2.8	1.4
FA-7C-1	84	95	3.1	1.0
FA-7E-1V	89	100	3.9	1.2
FA-7E-2V	89	100	4.6	1.6
FA-7E-3V	92	103	6.7	2.3
FA-7E-4V	92	103	6.7	2.3
FA-7E-5V	89	100	3.9	1.2
FA-7E-5VF	89	100	2.8	1.2
FA-7E-6VF	89	100	6.7	2.3
FA-7E-8VF	89	100	6.7	2.3
FA-9C-1	82	93	6.4	2.7
FA-9C-2M	79	90	6.4	2.7
FA-9C-4M	79	90	6.4	2.7
FBM-16-1	83	94	< 2.5	0.3

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
FBM-2-1	96	107	< 2.5	0.3
FBM-2-1F	96	107	< 2.5	0.3
FBM-24-1	83	94	< 2.5	0.1
FBM-300-2	89	90	< 2.5	0.2
FBM-300-3	89	90	< 2.5	0.2
FBM-300-4	89	90	< 2.5	0.2
FBM-80A-2	87	98	< 2.5	0.3
FBM-80A-3	87	98	< 2.5	0.3
FBM-80A-4	87	98	< 2.5	0.3
FBM-80A-5	87	98	< 2.5	0.3
FBM-80A-6	87	98	< 2.5	0.3
FBS-1-1	83	94	< 2.5	0.5
FBS-1-2	83	94	< 2.5	0.5
FBS-1-3	83	94	< 2.5	0.5
FBS-1-4	83	94	< 2.5	0.5
FC-01-3	95	106	8.1	2.4
FC-01-4	95	106	8.1	2.4
FC-01SA-H	93	104	8.3	2.5
FC-01SA-R	93	104	8.3	2.5
FC-1Z-1	98	109	7.3	2.3
FC-1Z-2	98	109	7.3	2.3
FC-2Z-1	99	110	7.8	2.4
FC-2Z-2	99	110	7.8	2.4
FC-3Z-1	100	111	8.4	2.5
FC-3Z-2	100	111	8.4	2.5
FC-4Z-1	101	112	9	2.7
FC-4Z-2	101	112	9	2.7
FCD-100R-11S	108	119	< 2.5	0.6
FCD-10X-1	84	95	< 2.5	0.4
FCD-23R-11S	106	117	< 2.5	0.5
FCD-23R-12S	106	117	< 2.5	0.5
FCD-32R-11S	104	115	< 2.5	1.4
FCD-50R-11S	107	118	< 2.5	0.6
FCD-6A-1	80	91	10.4	3.1
FCD-6B-1	80	91	10.4	3.1
FCD-6B-1F	80	91	10.4	3.1
FCD-6EX-3	85	96	9.9	3.0
FCD-6EX-4	85	96	9.9	3.0
FCD-6X-1	81	92	< 2.5	0.5
FCD-6X-2	81	92	< 2.5	0.6
FCD-75R-11S	105	116	< 2.5	0.6
FCH-20	94	105	7.7	2.3
FCH-20-1F	94	105	7.7	2.3
FCH-20F	97	108	8.4	2.5
FCH-20F-1F	94	105	8.4	2.5
FCH-25	96	107	12.3	3.7
FCH-25-1F	96	107	12.3	3.7
FCH-25B	97	108	11.9	3.6
FCH-25B-1F	97	108	11.9	3.6
FD-4	77	88	2.7	0.8
FD-4P	77	88	2.7	0.8
FD-5	78	89	4	1.3
FD-5P	78	89	4	1.3
FET-11-1	85	96	< 2.5	0.7
FET-13-1	83	94	4.9	2.4
FET-16-1	85	96	4.9	2.4
FET-4-1	75	86	< 2.5	0.4
FET-5-1	79	90	< 2.5	0.8
FET-6-1	79	90	< 2.5	0.8
FET-7-1	81	92	< 2.5	0.9
FET-9-1	80	91	3.7	1.5
FG-06-1	71	82	< 2.5	0.8
FG-06S-1	76	87	< 2.5	0.7
FG-12U-1	85	96	< 2.5	0.4
FG-12U-1F	85	96	< 2.5	0.4
FG-12U-2	85	96	< 2.5	0.4
FG-12UX-1	85	96	< 2.5	0.4
FG-12UX-1F	85	96	< 2.5	0.4
FG-12UX-2	85	96	< 2.5	0.4
FG-13-1	85	96	< 2.5	0.4
FG-13-10	85	96	< 2.5	0.5
FG-13-10F	85	96	< 2.5	0.5
FG-13-1F	85	96	< 2.5	0.4
FG-13-2	85	96	< 2.5	0.4
FG-13-20	85	96	< 2.5	0.5
FG-13X-1	79	90	< 2.5	0.5
FG-13X-10	79	90	< 2.5	0.5
FG-13X-10F	79	90	< 2.5	0.5
FG-13X-1F	79	90	< 2.5	0.5
FG-13X-2	85	96	< 2.5	0.5
FG-13X-20	85	96	< 2.5	0.5
FG-25D-1	80	91	< 2.5	0.4
FG-25D-1F	80	91	< 2.5	0.4
FG-25D-2	80	91	< 2.5	0.7
FG-25DX-1	84	95	< 2.5	0.4
FG-25DX-1F	84	95	< 2.5	0.4
FG-25DX-2	84	95	< 2.5	0.4
FG-25T	82	93	4.2	1.5
FG-26H-1	78	89	1.8	0.6
FG-26H-1F	78	89	1.8	0.6
FG-26HL-1F	79	90	< 2.5	1.3
FG-26HL-2	79	90	< 2.5	1.3
FG-26HL-2N	79	90	< 2.5	1.3
FG-26H-2	78	89	1.8	0.6
FG-26HX-1	79	90	< 2.5	1.0
FG-26HX-1F	79	90	< 2.5	1.0
FG-26HX-2	78	89	< 2.5	1.0
FG-26L-1	85	96	3	1.0

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
FG-26L-1BF	85	96	3	1.0
FG-26L-1N	85	96	3	1.0
FG-2VX-1F	81	92	3,6	1.2
FG-3H-1	85	96	2,7	0.9
FG-3H-1F	81	92	2,9	0.9
FG-3H-2	81	92	2,9	0.9
FG-3H-2F	81	92	2,9	0.9
FG-3H-5F	82	93	2,9	0.9
FG-3H-6	82	93	2,9	0.9
FG-3HA-1	91	102	2,9	0.9
FG-3HA-2	92	103	2,9	0.9
FG-3HL-1	83	94	3,1	0.9
FG-3HL-1A	83	94	3,5	1.1
FG-3HL-1F	83	94	3,1	0.9
FG-3HY-1	80	91	2,6	0.8
FG-3HY-1A	80	91	2,6	0.8
FG-3VX-1F	73	84	< 2.5	0.8
FG-3VX-2F	73	84	< 2.5	0.8
FG-3VX-3F	73	84	< 2.5	0.8
FG-3VX-6F	73	84	< 2.5	0.8
FG-4H-1	83	94	< 2.5	0.8
FG-4H-1F	83	94	3,2	1.7
FG-4H-2	83	94	3,2	1.7
FG-4H-2F	83	94	3,2	1.7
FG-4HL-1	81	92	2,6	0.8
FG-4HL-1A	81	92	2,6	0.8
FG-4HL-1F	81	92	2,6	0.8
FG-4VA-1	90	101	< 2.5	0.6
FG-4VA-2	90	101	< 2.5	0.6
FG-50-25	87	98	3,6	1.7
FG-50D-1	87	98	<2.5	0.4
FG-50D-1F	87	98	<2.5	0.4
FG-50D-2	87	98	3,6	1.7
FG-50DX-1	85	96	<2.5	0.4
FG-50DX-1F	85	96	<2.5	0.4
FG-50DX-2	85	96	3,6	1.7
FG-50H-1	81	92	<2.5	0.4
FG-50H-1F	81	92	<2.5	0.4
FG-50H-2	79	90	<2.5	0.4
FG-50HX-1	81	92	<2.5	0.4
FG-50HX-1F	81	92	<2.5	0.4
FG-50HX-2	79	90	<2.5	0.4
FG-50K-1	87	98	3,6	1.7
FG-50L-1	84	95	3,3	1.8
FG-50L-1A	84	95	3,3	1.8
FG-50L-1BF	84	95	3,3	1.8
FG-50Y-1	86	97	3,3	1.8
FG-50Y-1A	86	97	3,3	1.8
FG-50Y-1BF	86	97	3,3	1.8
FG-5H-1	80	91	< 2.5	0.5
FG-5H-1M	80	91	< 2.5	0.5
FG-5H-2	80	91	< 2.5	0.3
FG-5H-2M	80	91	< 2.5	0.3
FG-5H-3	76	87	1,1	0.4
FG-5HL	83	94	< 2.6	0.3
FG-5HL-1	83	94	< 2.6	0.3
FG-5HL-11	90	101	4,8	1.5
FG-5HL-11A	90	101	4,8	1.5
FG-5HL-13	83	94	4,8	1.5
FG-5HL-13A	83	94	4,8	1.5
FG-5HL-1A	90	101	4,8	1.5
FG-5HL-2	83	94	< 2.5	0.3
FG-5HL-2A	83	94	< 2.5	0.3
FG-5HL-2M	83	94	< 2.5	0.3
FG-5PX-1	84	95	< 2.5	0.5
FG-6H-1	83	94	< 2.5	1.3
FG-6H-1M	83	94	< 2.5	1.3
FG-8H-1	87	98	< 2.5	0.4
FG-8H-1C	87	98	< 2.5	0.4
FG-8H-1M	87	98	< 2.5	0.4
FG-8H-2M	88	99	< 2.5	0.3
FJP-500	98	109	< 2.5	
FL-4-1	76	87	< 2.5	0.8
FL-4D-1	76	87	< 2.5	0.6
FL-4S-1	72	83	< 2.5	0.8
FL-4SD-1	72	83	3	1.4
FL-5-1	79	90	< 2.5	0.4
FL-5D-1	79	90	< 2.5	0.7
FL-5S-1	79	90	4,3	2.2
FL-5SD-1	79	90	4,6	2.3
FL-6-1	82	93	< 2.5	0.6
FL-6D-1	82	93	< 2.5	0.7
FL-6S-1	80	91	5,2	2.4
FL-6SD-1	80	91	4,9	2.3
FL-7-1	84	95	< 2.5	0.6
FL-9-1	79	90	3,4	1.3
FL-11-1	85	96	< 2.5	0.7
FL-13-1	84	95	4,1	2.1
FLT-11-1	85	96	3,9	1.8
FLT-13-1	83	94	4,9	2.4
FLT-20S-1	89	100	7,1	3.3
FLT-4-1	75	86	< 2.5	0.4
FLT-4-1L	72	83	< 2.5	0.4
FLT-4D-1(10)	75	86	< 2.5	0.7
FLT-4D-1(10)L	77	88	3,7	2.3
FLT-4S-1	77	88	3,7	2.3
FLT-4S-1L	77	88	3,7	2.3
FLT-4SD-1	77	88	< 2.5	1.0

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
FLT-4SD-1L	77	88	< 2.5	1.0
FLT-5-1	79	90	< 2.5	0.8
FLT-5-1L	75	86	< 2.5	0.8
FLT-5D-1(10)	79	90	< 2.5	0.7
FLT-5D-1(10)L	75	86	< 2.5	0.8
FLT-5S-1	80	91	3,4	1.6
FLT-5S-1L	79	90	2,8	1.3
FLT-5SD-1	80	91	3,7	2.0
FLT-5SD-1L	79	90	3	1.4
FLT-6-1	79	90	< 2.5	0.8
FLT-6-1L	76	87	< 2.5	0.8
FLT-6D-1(10)	79	90	< 2.5	0.8
FLT-6D-1(10)L	76	87	< 2.5	0.8
FLT-6S-1	79	90	6,2	2.1
FLT-6S-1L	79	90	6,2	2.1
FLT-6SD-1	79	90	4,6	2.2
FLT-7-1	81	92	< 2.5	0.9
FLT-7-1L	81	92	< 2.5	0.9
FLT-9-1	80	91	3,7	1.5
FLT-9-1L	80	91	3,7	1.5
FLT-11-1	85	96	3,9	1.8
FLT-11-1L	83	94	3,9	1.8
FLT-13-1	83	94	4,9	2.4
FLT-13-1L	81	92	4,9	2.4
FNS-2	99	110	8	2.5
FNS-2-1F	99	110	8	2.5
FNS-2P	99	110	7,4	2.3
FNS-2P-1F	99	110	7,4	2.3
FOR-125B-E	81	92	3	1.3
FOR-125BF-E	81	92	3	1.3
FOR-150B-E	81	92	3	1.3
FOR-150BF-E	81	92	3	1.3
FOS-175B-E	81	92	3	1.3
FOS-175BF-E	81	92	3	1.3
FOS-230B-E	81	92	3	1.3
FOS-230BF-E	81	92	3	1.3
FP-11-1	78	89	3	1.4
FP-11-2	78	89	3	1.4
FP-20-1	78	89	3	1.4
FP-35-1	78	89	3	1.4
FP-7-2	78	89	3	1.4
FPT-110-1	72	83	< 2.5	0.5
FPT-110D-1	72	83	< 2.5	0.5
FPT-110S-1	72	83	< 2.5	0.5
FPT-110SD-1	72	83	3,5	1.1
FPT-1660-1	89	100	7,1	3.3
FPT-330S-1	74	85	3,2	1.0
FPT-330SD-1	74	85	3,2	1.0
FPT-440SC-1	82	93	3,2	1.0
FPT-550SC-1	82	93	3,4	1.6
FPT-660SC-1	82	93	4,6	2.2
FPT-770SC-1	82	93	4,6	2.2
FPT-770SCG-1	82	93	4,6	2.2
FPW-110-1	72	83	< 2.5	0.5
FPW-110D-1	72	83	< 2.5	0.5
FPW-110D-10	72	83	< 2.5	0.5
FPW-110S-1	72	83	2,8	0.9
FPW-110SD-1	72	83	3	0.9
FPW-1660-1	89	100	7,1	3.3
FPW-2220S-1	91	102	6,3	3.1
FPW-330S-1	74	85	3,2	1.0
FPW-330SD-1	74	85	3,2	1.0
FPW-440SC-1	82	93	3,2	1.0
FPW-550SC-1	82	93	3,4	1.6
FPW-660SC-1	82	93	4,6	2.2
FPW-770S-1	82	93	4,6	2.2
FPW-770SC-1	82	93	4,6	2.2
FPW-770SCG-1	82	93	4,6	2.2
FR-18B	95	106	19,4	5.9
FR-18B-2F	95	106	19,4	5.9
FR-18L	95	106	19,4	5.9
FR-18L-2F	95	106	19,4	5.9
FR-22B	94	105	19,4	6.1
FR-22B-2F	94	105	19,4	6.1
FR-22L	94	105	19,4	6.1
FR-22L-2F	94	105	19,4	6.1
FR-25B	94	105	22,3	7.4
FR-25B-2F	94	105	22,3	7.4
FR-25L	94	105	22,3	7.4
FR-25L-2F	94	105	22,3	7.4
FR-32	96	107	25,8	7.8
FR-32-2F	96	107	25,8	7.8
FRC-200-1	104	115	< 2.5	0.6
FRC-300-1	107	118	2,5	0.8
FRD-100R-1	110	121	2,5	0.8
FRD-122-1	89	100	< 2.5	0.5
FRD-122-1C	89	100	< 2.5	0.5
FRD-16Z-1	90	101	< 2.5	0.5
FRD-16Z-1C	90	101	< 2.5	0.5
FRD-20R-21	98	109	3,8	1.2
FRD-20R-22	98	109	3,8	1.2
FRD-23R-21	98	109	3,8	1.2
FRD-23R-22	98	109	3,8	1.2
FRD-25R-11	98	109	3,8	1.2
FRD-28R-11	98	109	3,8	1.2
FRD-32R-11	110	121	2,5	0.8
FRD-32R-12	110	121	2,5	0.8
FRD-40R-11	110	121	2,5	0.8

VIBRATION AND NOISE

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
FRD-50R-11	110	121	2,5	0,8
FRD-5P-1	75	86	< 2,5	0,5
FRD-5S-1	85	96	< 2,5	0,7
FRD-5S-1F	85	96	< 2,5	0,7
FRD-5S-2T	85	96	3	0,9
FRD-5S-2TF	85	96	3	0,9
FRD-6SR-1	110	121	2,5	0,8
FRD-6PH-2	73	84	< 2,5	1,0
FRD-6PH-3	73	84	< 2,5	1,0
FRD-6PH-5	71	82	< 2,5	1,1
FRD-6PH-7	73	84	< 2,5	0,7
FRD-6PX-1T	71	82	< 2,5	1,1
FRD-6S-1T	71	82	< 2,5	1,1
FRD-6S-2	71	82	< 2,5	1,1
FRD-6S-2F	71	82	< 2,5	1,1
FRD-6S-3	92	103	2,7	0,8
FRD-6S-3F	92	103	2,7	0,8
FRD-6S-5	86	97	2,9	0,9
FRD-6S-5F	86	97	2,9	0,9
FRD-6S-7	91	102	4,3	1,3
FRD-6S-7F	91	102	4,3	1,3
FRD-75R-1	110	121	2,5	0,8
FRD-8PX-1	82	92	< 2,5	0,5
FRD-8PX-2	82	92	< 2,5	0,6
FRD-8PX-3	82	92	< 2,5	0,6
FRF-4-1F	80	91	8,1	2,5
FRF-4-2F	80	91	8,1	2,5
FRH-3-1	91	102	8,1	2,5
FRH-3-2	91	102	6,3	1,9
FRH-6-1	91	102	5,6	1,7
FRH-6-2	91	102	5,6	1,7
FRH-6A-1	101	112	11,8	3,5
FRH-6A-2	101	112	11,8	3,5
FRS-45	82	92	10,4	3,1
FRW-10N-2	90	101	< 2,5	0,7
FRW-13N-3	92	103	< 2,5	0,6
FRW-13N-4	92	103	< 2,5	0,7
FRW-6NX-3	85	96	< 2,5	0,6
FRW-6NX-3A	85	96	< 2,5	0,6
FRW-6NX-4	89	100	3,5	1,2
FRW-6NX-4A	89	100	3,5	1,2
FRW-8NX-2	90	101	< 2,5	0,6
FRW-8NX-2A	90	101	< 2,5	0,6
FS-2A	88	99	4,9	6,9
FS-2A-1F	88	99	4,9	6,9
FT-13Z-1	89	100	< 2,5	0,5
FT-6BX-1	71	82	< 2,5	0,4
FT-6P-1	71	82	< 2,5	0,6
FT-8PX-1	82	92	< 2,5	0,4
FTD-18-1	84	95	3,1	1,0
FTD-18A-1	86	97	3,1	1,0
FV-7-1M	79	90	6,3	2,1
FV-7-2M	89	100	2,9	0,9
FV-7-4M	89	100	4,9	1,5
FV-9BH-1M	93	104	3	0,9
FV-9BH-4M	93	104	< 2,5	0,6
FW-100-1	107	118	4,5	1,5
FW-10PH-1	93	104	5	1,6
FW-10PH-2	96	107	5,7	1,7
FW-10SX-5	88	99	4,2	1,3
FW-14PH-1	92	103	4,2	1,3
FW-14PH-2	92	103	4,2	1,3
FW-14PH-3	95	106	4,2	1,3
FW-14PX-5	90	101	3,1	1,0
FW-14SX-5	90	101	3,1	1,0
FW-19PX-5	93	104	9,2	2,8
FW-19Z-5	93	104	9,2	2,8
FW-19Z-5C	93	104	9,2	2,8
FW-250-1	94	105	8,8	3,7
FW-250-1C	94	105	8,8	3,7
FW-250-2	94	105	6,9	2,1
FW-250-2C	94	105	6,9	2,1
FW-250P-1	98	109	9,2	3,0
FW-250P-2	98	109	10,3	3,2
FW-320-1	93	104	13,3	4,3
FW-320-1C	93	104	13,3	4,3
FW-320-1CL	93	104	13,3	4,3
FW-320-1L	93	104	13,3	4,3
FW-320P-1	100	111	20,05	6,2
FW-420-1	98	109	13,7	4,4
FW-420-1C	98	109	13,7	4,4
FW-420-1CL	98	109	13,7	4,4
FW-420-1L	98	109	13,7	4,4
FW-420-2	98	109	13,7	4,4
FW-420-2C	98	109	13,7	4,4
FW-44PA-2	77	88	5,2	1,6
FW-44PAD-2	77	88	5,2	1,6
FW-44PAD-20	77	88	5,2	1,6
FW-44SA-1	86	97	5,5	1,7
FW-44SAD-1	86	97	5,2	1,7
FW-44SAD-10	86	97	5,2	1,7

MODEL	SOUND PRESS.	SOUND POWER	VIBRATION LEVEL ISO 28927 (m/s ²)	
	ISO 15744 - dB(A)		a	k
FW-50-7	104	115	4,7	1,7
FW-5PX-6	89	100	3,1	1,2
FW-5PXD-6	89	100	4	1,2
FW-5PXD-60	89	100	4	1,2
FW-5SXD-7	82	93	9,5	2,8
FW-5SXD-70	82	93	9,5	2,8
FW-5SXD-8	81	92	9,4	2,8
FW-5SXD-80	81	92	9,4	2,8
FW-66PA-2	78	89	6,5	1,9
FW-66PAD-2	78	89	4,5	1,4
FW-66PAD-20	78	89	4,5	1,4
FW-66SA-1	83	94	7,6	2,3
FW-66SAD-1	83	94	6,6	2,0
FW-66SAD-10	83	94	6,6	2,0
FW-6PH-1	95	106	4,5	1,4
FW-6PH-11	95	106	9	2,7
FW-6PHD-1	95	106	5,3	1,7
FW-6PL-1	91	102	4,8	1,5
FW-6PLD-1	91	102	4,7	1,4
FW-6PM-1	94	105	4,6	1,6
FW-6PMD-1	94	105	4,6	1,5
FW-6PMD-10	94	105	4,6	1,5
FW-6PX-5	94	105	4,2	1,3
FW-6PX-6	94	105	3,7	1,2
FW-6PXD-6	94	105	4,1	1,4
FW-6PXD-60	94	105	4,1	1,4
FW-6SCX-6	93	104	8,9	2,8
FW-6SX-5	95	106	5	1,5
FW-6SX-6	95	106	5,3	1,6
FW-6SXD-6	92	103	7,2	2,2
FW-6SXD-60	92	103	7,2	2,2
FW-75-7	107	118	4,5	1,5
FW-88P-1	94	105	4,5	1,4
FW-8PH-3	94	105	5,1	1,6
FW-8SCH-2	92	103	7,4	2,3
FW-8SH-2	95	106	6,3	1,9
G-400	79	90	5,1	2,4
OB-75L-E(M)	81	92	3	1,3
OB-90L-E(M)	81	92	3	1,3
TURBO-100	85	96	< 2,5	2,0
TURBO-100A	84	95	< 2,5	1,7

Fuji Tools follows a policy of continuous product improvement. Specifications and descriptions are thus subject to change without notice.
Please contact your Fuji representative for the latest product information.

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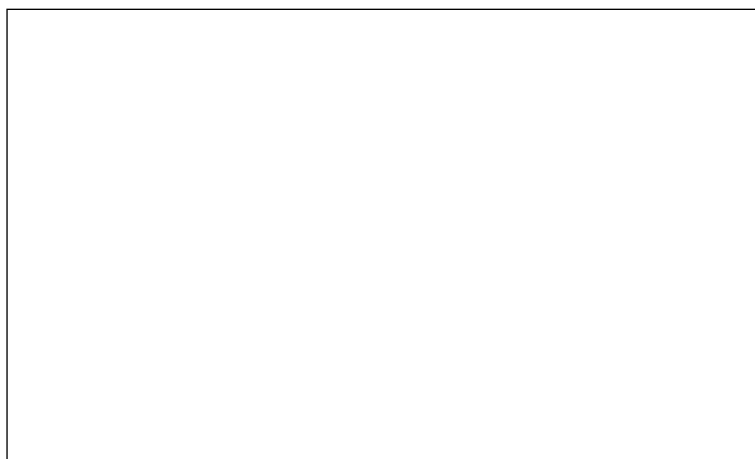


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