

TESTERS

HYDRAULIC TORQUE TESTERS



FJT-5-1~5C-1

FJT-10-1~10C-1



FJT-16-1~16C-1

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

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

MODEL	Power Sources	Weight		Testing Bolt Size	Measuring Range	
		Kg	lb		mm	N.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			M6	5.4-14.7	0.54-1.47
FJT-10-1	AC100V	11.5	25.3	M10	31.4-53.9	3.14-5.39
FJT-10B-1	AC220V			M12	53.9-88.2	5.39-8.82
FJT-10C-1	AC240V			M16	149.0-190.0	14.90-19.00
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			M16	149.0-190.0	14.90-19.00

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.



TT-20
TT-50
TT-150

TT-300

FDT-2-1

TT-500
TT-1000

Features

- High accuracy within more or less 0.5 per cent of full scale
- Wide measuring range up to 9 900 N.m, 1 000 kgf.m, 7 230 ft.lb
- Bright LED Display for quick and accurate reading
- Built-in Blow Counter for easy blow number adjustment
- 3 measuring units : N.m, kgf.m and ft.lb can be selected
- Easy Calibration check for circuitry function check of the transducer
- RS232C port is available for communication with PC
- 2 types of printer port (Bit parallel and Centronics)are equipped.
- 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		kg	lb		
	mm	in	mm	in	mm	in			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	MODEL
	in x in	
1333	F3/8 x M1/2	TT-150

HEX DRIVER BIT



Part N°	Size	MODEL
	in x in	
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	FL-9-1 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-11-13
TT-500	200.0-500.0	20.0-50.0	19.0	3/4	FPW-1660-1
TT-1000	400.0-1000	40.0-100.0	19.0	3/4	FPW-2220S-1
			25.4	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.



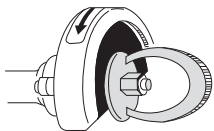
Features

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

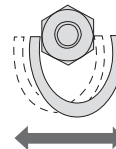
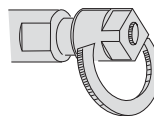
MODEL	Dimensions						Weight		Measuring Range	Response	Measuring Method	Indication	Power Sources	
	Width		Height		Depth								V	Hz
	mm	in	mm	in	mm	in	kg	lb	min-1	seconds				
FDM-202	150	5 29/32	60	2 23/64	212	8 11/32	1.1	2.4	10-999,900	6	Non-Contact Type Magnetic Sensor	LED	AC100-240	50/60

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.

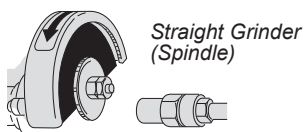


When magnetizing a flat part, be sure to magnetize so that N and S poles may be made at the same time.

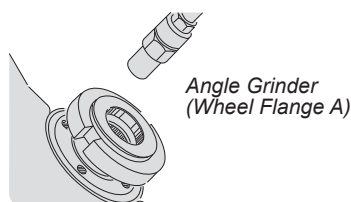


When magnetizing a hexagonal part, a square part, a round part, etc., be sure to magnetize so that N and S poles may be made proportionally.

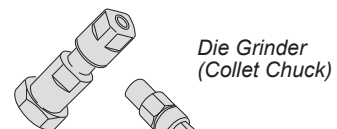
HOW TO MEASURE



Straight Grinder
(Spindle)



Angle Grinder
(Wheel Flange A)



Die Grinder
(Collet Chuck)

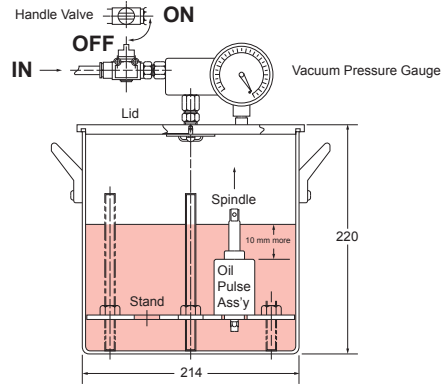
OIL FILLER - TESTERS

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		
	mm	in	mm	in	mm	in			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