

Fowler

Trimos Tool Presetter Series II

Fowler's improved Tool Presetter Series II features high resolution .00005"/.001mm and Direct RS232C output. New functions include min/max/tir, tolerance limits and preset recall.

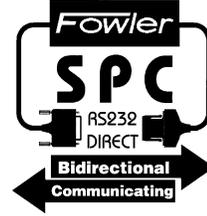
- Two built-in displays features .00005"/.001mm or .0005"/.01mm resolution.
- Direct RS232C output.
- Built-in zero stops for X and Z axes.
- 50 or 40 taper models
- Adaptors available for other tapers.
- Tool pot rotates 360°, positive lock.
- Radius or diameter display.
- Bidirectional (half-duplex) data transmission.

**.00005"/.001mm
RESOLUTION.**



*Tool Presetter unit
#54-188-601.*

NOTE: Other reducing adaptors are available. Call our Technical Department for details.



*Tool Presetter
#54-188-501.*

• Construction

Cast iron base and steel column with hardened, ground stainless steel guideways. Counter-balanced measuring carriage includes a horizontal arm for measuring in X-coordinate. Sylvac measuring system used for both X and Z coordinates.

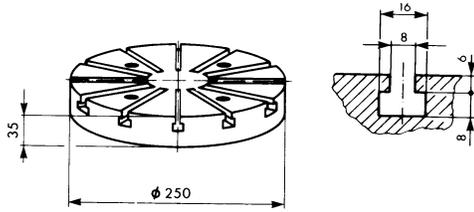
• #54-188-401 & 501 Features

Knurled knobs for displacement of carriage activating a friction measuring pressure. Displacement of the measuring arm by a sliding movement. Measuring pressure set through a tension spring. Tool carrying spindle unit simulates ISO 50 taper mounting. Fixing device for one position. Locking of spindle at any point of rotation. Transport handles. Instrument may be fixed to a bench. Column adjustable for increased capacity.

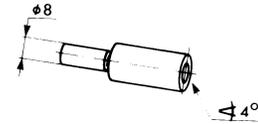
• #54-188-601 Features

Handwheel for vertical and horizontal displacement. Two handwheels embody a preload ring to set a constant measuring pressure in either direction. Includes a friction slide and fine adjustment screw. Tool carrying spindle unit simulates ISO 50 taper mounting. 12 divisions rotating at 30° with fixing device. Spindle locks at any point of rotation. Vacuum retaining of tools.

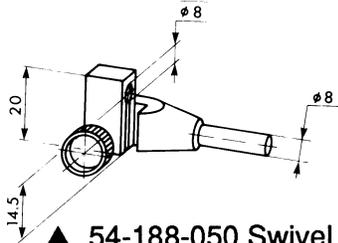




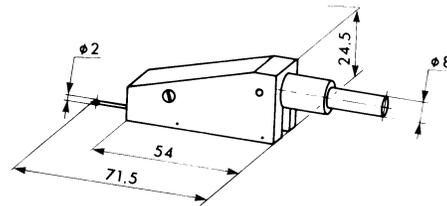
▲ 54-188-010 Rotary table with 12 T-grooves.
(Used only with Presetter #54-188-601).



▲ 54-188-060 Cone holder.



▲ 54-188-050 Swivel holder
for measuring inserts.



▲ 54-188-002 Bi-directional probe, 2mm dia.
54-188-004 Bi-directional probe, 4mm dia.

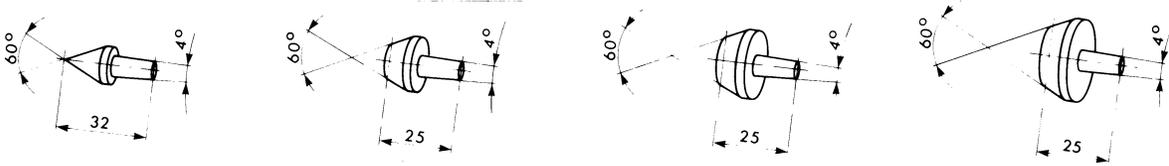
SPECIFICATIONS

MODEL	#54-188-401	#54-188-501	#54-188-601
Tool pot	40 Taper	50 Taper	50 Taper
Measuring range	X = 4" (100mm) Z = 12" (300mm)	X = 6" (150mm) Z = 16" (400mm)	X = 6" (150mm) Z = 17.7" (450mm)
Measuring capacity	8" (200mm) Max.Dia.	12" (300mm) Max.Dia.	12"(300mm) Max.Dia.
Accuracy over full range (maximum error)	X = .0004" (.01mm) Z = .0008" (.02mm)	X = .0004" (.01mm) Z = .001" (.025mm)	X = .0006" (.015mm) Z = .002" (.040mm)
Squareness of arm relative to tool pot	.0006" over 12" (.015mm over 300mm)	.0008" over 16" (.02mm over 400mm)	.0006" over 12" (.015mm over 300mm)
Weight	46.4 lbs. (21 kg)	77 lbs. (35 kg)	154 lbs. (70 kg)
Resolution	.00005"/.0005" (.001mm/.01mm)		
Carriage displacement speed (max.)	60"/sec. (1.5m/sec.)		
Measuring system	Built-in Sylvac system (patented)		
Display	LCD (2) display. Height .335" (8.5mm)		
Power supply	3 V lithium battery (2) #CR/BR 2032. Approx. 2000 operational hours		
Data output	Opto RS232 (2)		

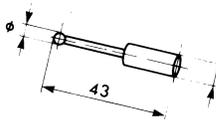


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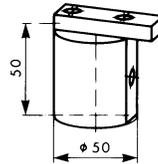


▲ Centering cones (left to right): 54-180-036 (0—15mm); 54-180-037 (14—20mm); 54-180-038 (18—24mm); 54-180-039 (23—30mm).



◆ Measuring inserts

- 54-180-152 (2mm ball dia.)
- 54-180-153 (3mm ball dia.)
- 54-180-157 (4mm ball dia.)
- 54-180-060 (8mm ball dia.)



◆ 54-180-045 Setting Gage (metric).



Order No.	Description
54-188-401	40 Taper Tool Presetter II. Includes probe holder & measuring insert with flat tungsten carbide surfaces, 2 batteries, manual & test/guarantee certificate.
54-188-501	50 Taper Tool Presetter II. Includes probe holder & measuring insert with flat tungsten carbide surfaces, 2 batteries, manual & test/guarantee certificate.
54-188-601	50 Taper Tool Presetter II. Includes probe holder & measuring insert with flat tungsten carbide surfaces, 3 supporting pads and mains cable for vacuum pump, 2 batteries, manual & test/guarantee certificate.
54-121-000	Reduce adaptor: ISO 50/45 for 54-188-401, 501 and 601.
54-121-005	Reduce adaptor: ISO 50/40 for 54-188-401, 501 and 601.
54-121-010	Reduce adaptor: ISO 50/35 for 54-188-401, 501 and 601.
54-121-015	Reduce adaptor: ISO 50/30 for 54-188-401, 501 and 601.
54-188-060	Centering cone holder for 54-188-401, 501 and 601.
54-180-036*	Centering cone 0—.590"(0—15mm) for 54-188-601 only.
54-180-037*	Centering cone .550—.780"(14—20mm) for 54-188-601 only.
54-180-038*	Centering cone .710—.940"(18—24mm) for 54-188-601 only.
54-180-039*	Centering cone .900—1.180"(23—30mm) for 54-188-601 only.
54-180-152*	Measuring insert ball dia. .080"(2mm) for 54-188-601 only.
54-180-153*	Measuring insert ball dia. .120"(3mm) for 54-188-601 only.
54-180-157*	Measuring insert ball dia. .157"(4mm) for 54-188-601 only.
54-180-060*	Measuring insert ball dia. .315"(8mm) for 54-188-601 only.
54-180-045*	Probe Setting Gage (metric series) for 54-188-601 only.
54-180-046*	Probe Setting Gage (inch series) for 54-188-601 only.
54-188-025	Granite table with adaptor for 54-188-601 only.
54-188-050	Swivel holder for measuring inserts for 54-188-601 only.
54-188-002	Bidirectional probe .078"(2mm) for 54-188-601 only.
54-188-004	Bidirectional probe .157"(4mm) for 54-188-601 only.
54-188-010	Rotary table w/12 T-grooves; 23 lbs for 54-188-601 only.
54-188-333	Optional Master Set Gage ISO 50 (2 x 6").
54-188-334	Optional Master Set Gage ISO 30 (2 x 6").
54-188-335	Optional Master Set Gage ISO 40 (2 x 6").
54-188-630	Attachment to probe for checking heights on centerline of spindle unit.
54-188-618	Opto-RS interface for connection of X and Z axis, including a foot pedal, AC adapter, two opto-RS connection cables and a centronic cable for printer.
54-188-625	Connection cable from interface to PC (9p/fm).
54-115-333	Simplex Computer Connect Kit. Includes 80"(2m) connecting cable w/9 pin IBM compatible, 9/25 pin adaptor, support disk & instruction book. (2 Kits required per unit).