

TUBE INSTALLATION TOOLS

Hole Gauge

The TECO hole gauge is a unique and simple instrument that quickly and accurately measures, with a three-point contact, the inside diameter of tube and tube sheet holes. The reversible dial plate allows the user to measure in both inch/decimals and metric.

Our standard adjustable depth is 4" (101.6 mm) or 8" (203 mm) dependent on the model.

All gauges are furnished with setting ring and packed in a wooden carrying case.



Size		Minimum ID.		Maximum ID.		Toolnumber	Reach	
inch	mm	inch	mm	inch	mm		Inch	mm
1/2"	12.70	0.350"	8.90	0.450"	11.43	THG – 500	4"	101.6
5/8"	15.88	0.440"	11.18	0.560"	14.22	THG – 625	4"	101.6
3/4"	19.05	0.550"	13.97	0.715"	18.16	THG – 750	8"	203.2
7/8"	22.22	0.675"	17.15	0.840"	21.34	THG – 875	8"	203.2
1"	25.40	0.800"	20.32	0.965"	24.51	THG – 1000	8"	203.2
1 1/4"	31.75	0.950"	24.13	1.170"	29.72	THG – 1250	8"	203.2
1 3/8"	34.93	1.085"	27.56	1.295"	32.89	THG – 1375	8"	203.2
1 1/2"	38.10	1.240"	31.50	1.450"	36.83	THG – 1500	8"	203.2

Internal measuring gauge



- Mechanical internal measuring gauge for quick and accurate measuring of the inside diameter of tube and tube sheet holes.
- Available in metric and inch style.
- Scale interval 0.010 mm.

Toolnumber	Range (mm)	Arm length (mm)
TH – 210	10.0 – 30.0	85.0
TH – 220	20.0 – 40.0	85.0
TH – 230	30.0 – 50.0	85.0
TH – 240	40.0 – 60.0	85.0
TH – 250	50.0 – 70.0	85.0
TH – 260	60.0 – 80.0	85.0
TH – 270	70.0 – 90.0	85.0
TH – 280	80.0 – 100.0	85.0



- Ergonomically designed digital internal measuring gauge for quick and accurate measuring of the inside diameter of tube and tube sheet holes.
- The gauge provides a digital/analog display for better reading.
- Easy to convert from mm to inch.
- Scale interval 0.010 mm.

Toolnumber	Range (mm)	Arm length (mm)
TG – 210	10.0 – 30.0	85.0
TG – 220	20.0 – 40.0	85.0
TG – 230	30.0 – 50.0	85.0
TG – 240	40.0 – 60.0	85.0
TG – 250	50.0 – 70.0	85.0
TG – 260	60.0 – 80.0	85.0
TG – 270	70.0 – 90.0	85.0
TG – 280	80.0 – 100.0	85.0

TUBE INSTALLATION TOOLS

FLARING AND BELLING TOOL

Special tool for flaring tube ends.
 Available for tubes from 1/2" to 1 1/2"
 (12.7 mm to 38.1 mm) O.D.



Description	Model no. Prefix	Model size					Tube Gauge	Shank
		1/2"	5/8"	3/4"	7/8"	1"		
Flaring tool	TFT	500	625	750	875	1000	Specify Gauge	No. 01
Belling tool	TBT	500	625	750	875	1000	Specify Gauge	No. 01

Standard shank is no. 01, other shank types on request

Larger sizes on request

TUBE GUIDE

Ideal for piloting tubes through tube sheet baffles, and support plates.
 Available for tubes from 3/8" to 2" (9.5 mm to 50.8 mm) O.D.



COMBINED TUBE-END MILL AND FACER

This tool is adjustable according to diameter and gauge of the tube. Used for simultaneous end milling and bevelling of I.D. and O.D. of tube.



In Aluminium, Steel and Stainless Steel with fitted replaceable nylon or Stainless Steel brush.

Tube O.D.		Gauge	Model no.
Inch	mm		
3/8"	9.5 mm	18-20	TTG- 0
1/2"	12.7 mm	16-18 19-20	TTG- 1 TTG- 2
5/8"	15.8 mm	12-13 14-16 17-20	TTG- 3 TTG- 4 TTG- 5
3/4"	19.05 mm	10-12 13-16 17-20	TTG- 6 TTG- 7 TTG- 8
7/8"	22.2 mm	10-12 13-16 17-20	TTG- 9 TTG-10 TTG-11
1"	25.4 mm	10-12 13-16 17-20	TTG-12 TTG-13 TTG-14

Model No.	Tube O.D.	Tube I.D.	Shank diameter
TMF-01	.237"-.473" 6.0-12.0 mm	.079"-.213" 2.0-5.4 mm	.492" 12.5 mm
TMF-02	.276"-.552" 7.0-14.0 mm	.102"-.307" 2.6-7.8 mm	.492" 12.5 mm
TMF-03	.355"-.788" 9.0-20.0 mm	.142"-.504" 3.6-12.8 mm	.630" 16 mm
TMF-04	.630"-1.063" 16.0-27.0 mm	.181"-.945" 4.6-24.0 mm	.630" 16 mm
TMF-05	.984"-1.732" 25.0-44.0 mm	.788"-1.535" 20.0-39.0 mm	MT-2
TMF-06	1.614"-2.363" 41.0-60.0 mm	1.417"-2.165" 36.0-55.0 mm	MT-2
TMF-07	2.244"-3.000" 57.0-76.0 mm	2.047"-2.795" 52.0-71.0 mm	MT-2
TMF-08	2.875"-3.625" 73.0-92.0 mm	2.677"-3.425" 68.0-87.0 mm	MT-2

Minimum order quantity 10 pcs.

Larger sizes on request

Larger sizes on request

TUBE INSTALLATION TOOLS

GROOVING TOOL

The grooving tool is a portable tool developed for cutting serrations in the tube holes of both ferrous and non-ferrous tube sheets.

It can be used as a hand tool or mounted in a radial drill for a more permanent and positive installation.

Works well in C N C controlled machines.

The tool is adjustable from 22 to 54 mm (7/8" to 2 1/8") from the face of the sheet to the back side of the inner groove.



Larger sizes on request.

Tube sheet hole	Tool number	Metric bit*	Inch bit*	Shank	Tube sheet hole	Tool number	Metric bit*	Inch bit*
		3x6x3 mm	1/8"x1/4"x1/8"				3x6x3 mm	1/8"x1/4"x1/8"
1/2"	TGS-500-1/2"	TGS - 206	ST-5003-S	MT-3	12.0 mm	TGS-1200-12 mm	TGS - 206	ST-5003-S
5/8"	TGS-625-5/8"	TGS - 306	ST-6203-S	MT-3	14.0 mm	TGS-1400-14 mm	TGS - 306	ST-6203-S
3/4"	TGS-750-3/4"	TGS - 406	ST-7503-S	MT-3	15.0 mm	TGS-1500-15 mm	TGS - 306	ST-6203-S
7/8"	TGS-875-7/8"	TGS - 406	ST-7503-S	MT-3	16.0 mm	TGS-1600-16 mm	TGS - 306	ST-6203-S
1"	TGS-1000-1"	TGS - 406	ST-7503-S	MT-3	18.0 mm	TGS-1800-18 mm	TGS - 406	ST-7503-S
1 1/8"	TGS-1125-1 1/8"	TGS - 406	ST-7503-S	MT-3	20.0 mm	TGS-2000-20 mm	TGS - 406	ST-7503-S
1 1/4"	TGS-1250-1 1/4"	TGS - 406	ST-7503-S	MT-3	22.0 mm	TGS-2200-22 mm	TGS - 406	ST-7503-S
1 1/2"	TGS-1500-1 1/2"	TGS - 406	ST-7503-S	MT-3	25.0 mm	TGS-2500-25 mm	TGS - 406	ST-7503-S

* Bits for other groove widths and/or spacing are on request.

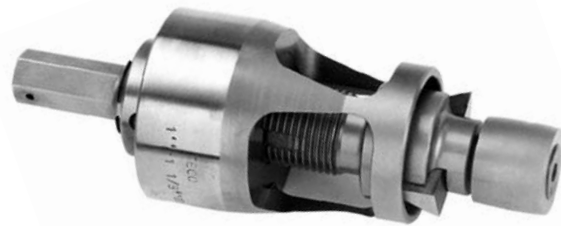
TUBE-END FACERS

For facing ends of tubes in heat exchangers and condensers.

It has one replaceable tool bit and a set of rotating pilot bushes. Fitted with an adjustable thrust collar the unit incorporates a depth gauge which accurately controls the amount of tube projection.

An important safety feature is the left-hand threaded adjustment of this part to prevent accidental self feeding of the cutter.

Available for tubes from 5/8" to 1 1/4" (15.8 mm to 31.75 mm) O.D.



Tube O.D. and Gauge	Model No.	Cutter Body	Cutter Bit Carbon Steel	Cutter Bit Non Ferrous S. Steel	Collar Housing	Thrust Nut	Bearing	Pilot Rolls (set)	Shank Hexagon
1/2" O.D.-12-20 G.A.	NTEF- 500	11710500	11720500	11730500	11760500	11770500	1201101	GR- 500-12-20	7/16" (11.1mm)
5/8" O.D.-11-19 G.A.	NTEF- 625	11710625	11720625	11730625	11760625	11770625	1201103	GR- 625-11-19	7/16" (11.1mm)
3/4" O.D.-10-19 G.A.	NTEF- 750	11710750	11720750	11730750	11760750	11770625	1201103	GR- 750-10-19	7/16" (11.1mm)
7/8" O.D.- 8-24 G.A.	NTEF- 875	11710750	11720750	11730750	11760750	11770625	1201103	GR- 875- 8-24	7/16" (11.1mm)
1" O.D.- 8-19 G.A.	NTEF-1000	11711000	11721000	11731000	11761000	11770750	1201104	GR-1000- 8-19	7/16" (11.1mm)
1 1/8" O.D.- 8-19 G.A.	NTEF-1125	11711000	11721000	11731000	11761000	11770750	1201104	GR-1125- 8-19	7/16" (11.1mm)
1 1/4" O.D.- 8-19 G.A.	NTEF-1250	11711250	11721250	11731250	11761250	11770750	1201104	GR-1250- 8-19	7/16" (11.1mm)

Larger sizes on request