

# ELECTRO HYDRAULIC TAPPING UNIT BEG 55

BEG 55 is a powerful yet compact electro-hydraulic series of units. The electric motor runs the spindle, while the feed is hydraulically powered and controlled. Hydraulic feed control makes it possible to use rapid advance and to adjust the feed rate in proportion to the pitch and the rpm. A tapping spindle gives the unit the necessary length compensation. The series is available in two different taper options as well as with multi-spindle heads.



- COMPACT DESIGN YET POWERFUL
- INTEGRATED HYDRALIC SYSTEM
- LONG STROKE – 120 MM
- HIGH PRECISION
- LOW NOISE LEVEL

Guidlines for choice of unit											[M-Thread]		
TAPPING UNIT	CAPACITY IN STEEL				CAPACITY IN ALUMINIUM/BRASS				CAPACITY IN PLASTICS				
No of Spindles	1	2	3	4	1	2	3	4	1	2	3	4	
BEG552	M8	M6	M5	M5	M14	M10	M8	M8	M16	M14	M12	M10	
BEG555	M12	M8	M6	M6	M20	M14	M12	M10	M30	M16	M16	M14	
BEG558	M16	M10	M10	M8	M24	M16	M16	M14	M30	M20	M20	M16	

Performance specifications			
Thrust (max.)	6 000 N	Depth accuracy +/-	0.01 mm
Stroke (max. 100% controlled)	120 mm	Rapid advance rate (max.)	6 m/min
Min. Center to Center Spacing		Controlled feed rate	0.04–0.65 m/min
Single Spindle	140 mm	Sound level	<80 dB(A)
Double-Spindle Head	14 mm		

Motor and Transmission specifications			
No of Poles	TAPPING UNIT/MOTOR AT V380-420(Y)/220-240(Δ) 50HZ [kW]		
	BEG552	BEG555	BEG558
2	0.75	1.65	2.7
4	0.55	1.1	2.2
6	0.37	0.75	1.3
8		0.4	0.75

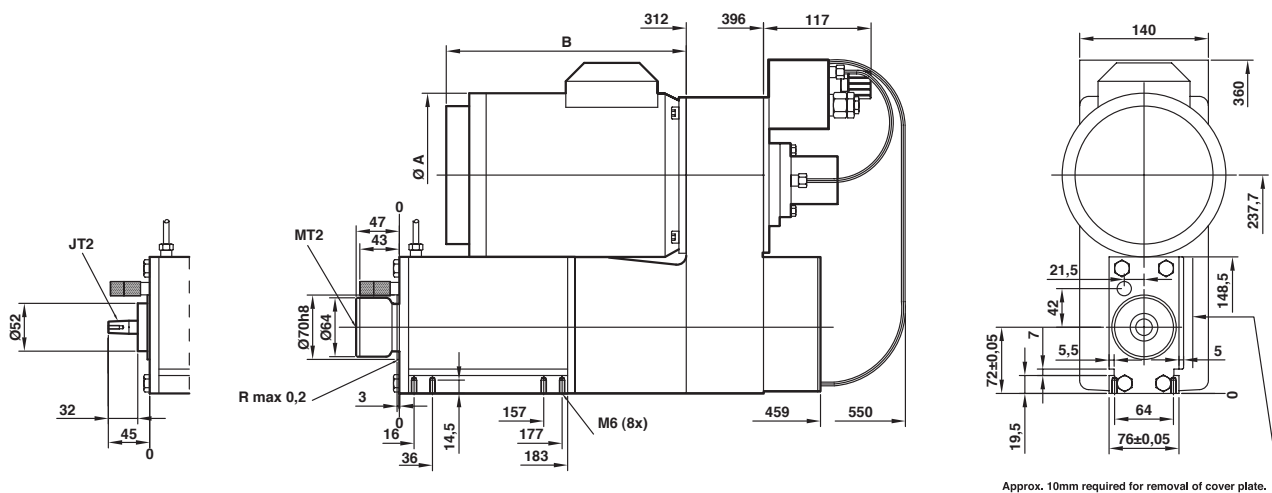
No of Poles	SPINDEL RPM AT GEAR RATIO AT 50HZ							
	2.7:1	2.1:1	1.7:1	1.4:1	1:1	1:1.4	1:1.7	1:2.1
2	1040	1370	1690					
4	500	640	830	1070	1390	1810		
6	330	420	550	700	910	1180	1520	1980
8	250	310	410	520	680	880	1130	1480

• Motor specifications shown in the tables are valid for 380–420V(Y) /220–240V(Δ) (±5%), 50 Hz. These motors can also be used at 440–480 V(Y) (±5%), 60 Hz. If so the rpm will increase by ~20% and the power by ~15% relative to the data for 50Hz. E2 also offers motors for other voltages and frequencies. Please state voltage and frequency when requesting a quote or ordering.

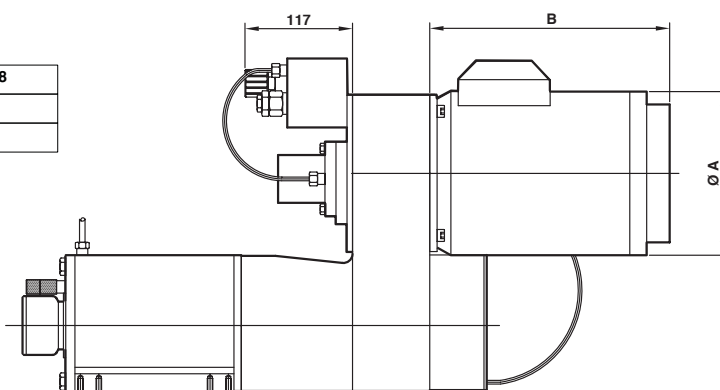
• The torque at the spindle for a specific rpm is calculated as:  

$$M = (P_{[kW]} \times 9500) / \text{rpm}$$

E2 does not recommend tapping with a floating holding at higher speeds than 2000 rpm. Maximum speed is lower when tapping a deep or blind hole and/or using a large thread.





	BEG 552/555	BEG 558
A	150	178
B	221	261




You can download 2D CAD-drawings and 3D CAD-models on [www.e2systems.com](http://www.e2systems.com).

**WEIGHT 25–35 KG**

**Necessary components**

TAPPING ATTACHMENTS	TYPE	PAGE
	Length compensation up to: 25 mm Tapping spindle GS12E M4–M16 (JT2) 40 mm Tapping spindle GS24E M8–M30 (MT2) (MT2+B18/MT2 taper shank)	52
TAP HOLDERS	TYPE	PAGE
	T12 for GS12E T24 for GS24E	52

**Accessories**

MULTI-SPINDLE HEADS	TYPE	PAGE
	Adjustable heads VH06-, VH08-, VH10-, VH13-, VH18-, MBKV 60-, MBK 6V-, MBKV 80-, MBKV 100- MBKV 130- and MBKV 140-series	42 48
CONTROLS	TYPE	PAGE
	Controls for BE(G)55-units	58

On [www.e2system.com](http://www.e2system.com) you can find more information as well as the same information as above in imperial units.

When requesting a quote or ordering, please state: **Model, Chuck (collet size), Control system, Spindle rpm, Motor Power, Front or Backward Motor orientation, Float compensation required (if known)** as well as  $\varnothing$  and  $\square$  for the tap holder.