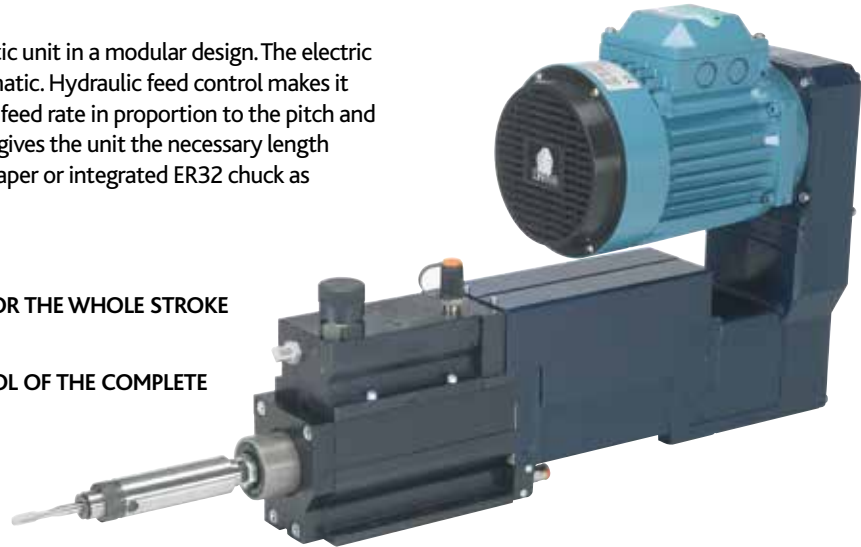


ELECTRO PNEUMATIC TAPPING UNIT BEG 48

The BEG 48-series is a flexible electro-pneumatic unit in a modular design. The electric motor runs the spindle, while the feed is pneumatic. 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 collect or a tapping spindle gives the unit the necessary length compensation. The series is available with JT2 taper or integrated ER32 chuck as well as with multi-spindle heads.

- COMPACT YET FLEXIBLE DESIGN
- MODULAR HYDRAULIC FEED CONTROL FOR THE WHOLE STROKE
- SMART DEPTH CONTROL
- LINEAR TRANSDUCER FOR TOTAL CONTROL OF THE COMPLETE CYCLE (OPTIONAL)



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	
BEG 481	M6	M5	M4	M3	M10	M8	M8	M6	M14	M8	M8	M8	
BEG 484	M8	M6	M5	M5	M14	M10	M8	M8	M16	M14	M12	M10	
BEG 487	M12	M8	M6	M6	M20	M14	M12	M10	M30	M20	M20	M16	

Performance specifications at 6.3 Bar				
Thrust (max.)	1 650–2 000 N		Depth accuracy +/-	0.01 mm
Stroke (max. 100% controlled)	100 mm		Rapid advance rate (max.)	10 m/min
Min. Center to Center Spacing			Controlled feed rate	>0.04 m/min
Single Spindle	90 mm		Air consumption	2.8 l/100mm
Double-Spindle Head	12 mm		Sound level	<85 dB(A)

Motor and Transmission specifications			
No of Poles	TAPPING UNIT/MOTOR AT V380-420(Y)/220-240(Δ)50HZ [kW]		
	BEG481	BEG484	BEG487
2	0.55	1.1	2.2
4	0.37	0.75	1.5
6	0.25	0.55	1.1
8			0.55

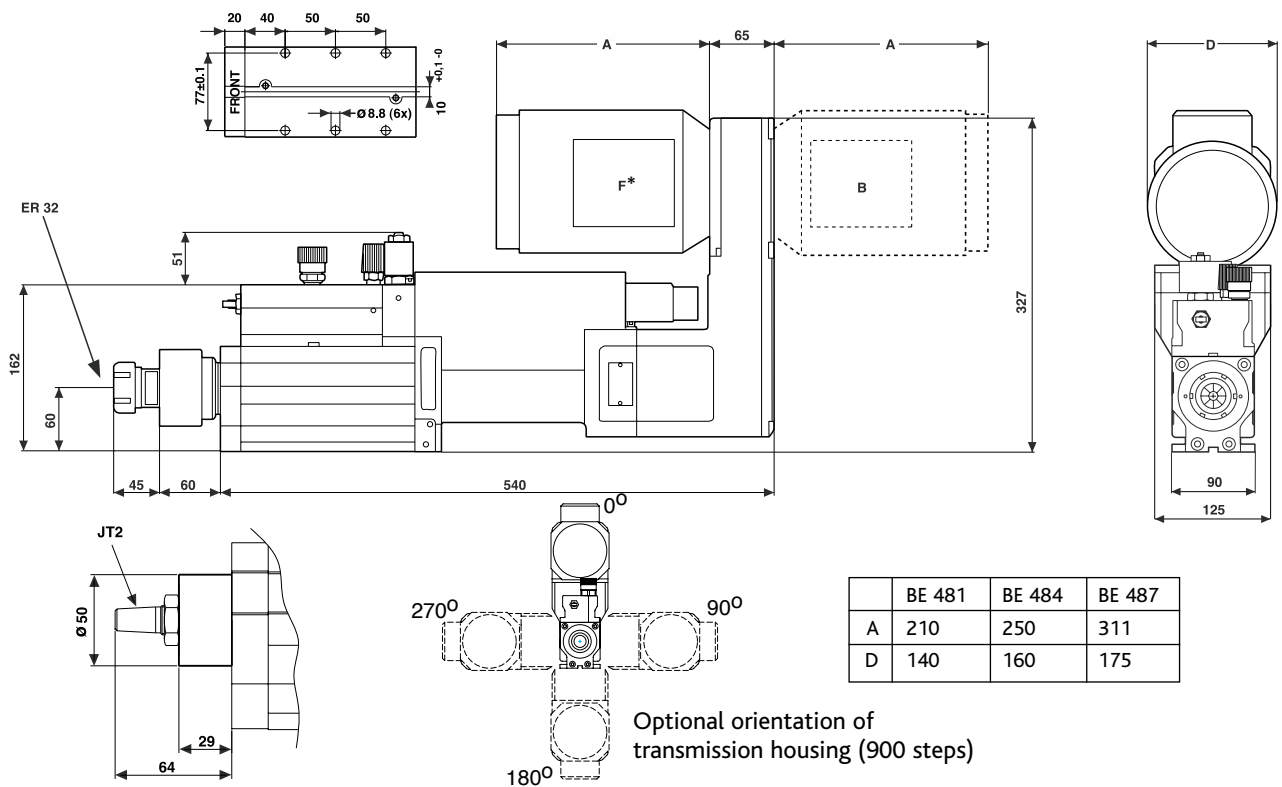
• Motor specifications shown in the tables are valid for 380–420V(Y) /220–240V(Δ) (±5%), 50 Hz. These motors can also be used at 440–480 V(Y) (±5%), 60 Hz. If so the rpm will increase by ~20% and the power by ~15% relative to the data for 50Hz. E2 also offers motors for other voltages and frequencies.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

No of Poles	SPINDEL RPM AT GEAR RATIO AT 50HZ													
	2.5:1	2.1:1	1.8:1	1.6:1	1.4:1	1.2:1	1:1	1:1.2	1:1.4	1:1.6	1:1.8	1:2.1	1:2.5	
2	1130*	1350	1580	1750										
4	560*	670	780	860	1030	1190	1390	1620	1880					
6	360*	440	510	560	670	780	910	1060	1230	1470	1630	1900		
8	270*	330	380	420	500	580	680	790	920	1100	1210	1420	1730*	

*Not available for BEG487



Optional orientation of transmission housing (900 steps)

*Front mount is not possible at BE487 with linear transducer

You can download 2D CAD-drawings and 3D CAD-models on www.e2systems.com.

WEIGHT 29-40 KG

Necessary components

TAPPING ATTACHMENTS	TYPE	PAGE
	Length compensation up to 10 mm Integrated ER32 chuck with length compensating collets M4-M12	47
	Length compensation up to: 25 mm Tapping spindle GS12E M4-M16 (JT2) 40 mm Tapping spindle GS24E M8-M30 (ER32+B18/ø16 taper shank)	47
TAP HOLDERS	TYPE	PAGE
	ER32 collets with length compensation M4-M12	47
	T12 for GS12E T24 for GS24E	47
LIMIT SWITCHES	TYPE	PAGE
	Electric switches Pneumatic switches Inductive switches or Linear Transducer	51

Accessories

MULTI-SPINDLE HEADS	TYPE	PAGE
	Adjustable heads VH04-, VH06-, VH08-, VH10-, MBK V40-,	38
CONTROLS	TYPE	PAGE
	Controls for BEG 48-units with Electric switches Pneumatic switches Inductive switches or Linear Transducer	51

On www.e2systems.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), Limit Switches, Spindle rpm, Motor Power, Front or Backward Motor orientation, Float compensation required (if known) as well as Ø and □ for the tap holder.**