TAPPING UNITS

UNIT	PAGE	DRIVE	FEED	TAPPINO	PPING CAPACITY				
<u>, a k</u>				STEEL	ALUMINIUM/ BRASS	PLASTICS			
LS22	28	Pneumatic 5-vane Motor	Lead screw	M8	M12	M12			
BEG48	30	Electric Air Hydraulic	Controlled	M12	M20	M30			
BEG55	32	Electric Hydraulic	Controlled	M16	M24	M30			

TAPPING UNITS

E2 tapping units can be found throughout the world wherever a high level of productivity and precision is a priority. A long service life with excellent reliability and continued precision makes E2's tapping units a good investment.

E2 tapping units range from the most compact pneumatic units on the market to powerful electrically-operated units. Our lead screw units ensure a perfect tapping process with no risk of damaging the tap. These characteristics also apply to units equipped with multi-spindle heads.

Each tapping unit's details includes all the necessary information for selecting a suitable model based on the requirements set by your tapping application and the cutting data specified by your tap supplier. In addition to performance specifications, you will also find information on dimensions, necessary components and accessories.

To provide a quick summary, there are also guidelines for the capacities of the various models, based on conventional thread taps in the most common materials. For fluteless taps, as a rule of thumb, 50-100% greater torque and speed is required.

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PNEUMATIC LEAD SCREW TAPPING UNIT LS 22

The LS 22 consists of a vane motor powered by compressed air, a planetary gearbox, lead screw, nut and a follower with cams to activate built-in switches. The design of the LS 22 is compact yet highly functional. The lead screw ensures high repeatability for threading operations.

- EXTREMELY COMPACT DESIGN
- SEALED LEAD SCREW
- LOW NOISE LEVEL
- SMART DEPTH CONTROL
- AVAILABLE IN ALL THREAD TYPES AS WELL AS LEFT HAND

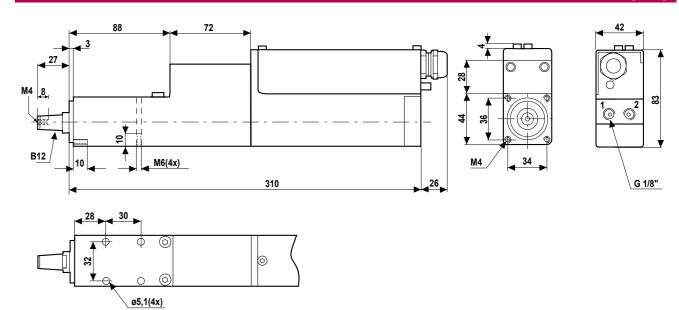
Guidlines	Guidlines for choice of unit [M-Thread]												
TAPPING UNIT	CAPACITY IN STEEL				CAPACITY IN	CAPACITY IN ALUMINIUM/BRASS				CAPACITY IN PLASTICS			
No of Spindles	1	2	3	4	1	2	3	4	1	2	3	4	
LS 223	M8	M6	M6	M5	M12	M10	M8	M8	M12	M12	M10	M10	
LS 225	M6	M5	M5	M4	M12	M8	M6	M6	M12	M10	M8	M8	
LS 226	M6	M5	M5	M4	M10	M8	M6	M6	M10	M8	M8	M6	
LS 2213	M5	M4	M4	M3	M8	M6	M5	M5	M8	M8	M6	M5	
LS 2221	M4	M3	M3	M2	M6	M5	M4	M4	M8	M6	M5	M4	
LS 2228					M5				M6	M5			

Performance specifications at 6.3 Bar

Power	0.16 kW	Depth accuracy +/-	0.01 mm
Stroke (max, 100% controlled)	51 mm	Working pressure range	6–7 Bar
Min. Center to Center Spacing		Air consumption	<0.3 Nm ³ /min
Single Spindle	42 mm	Sound level	70 dB(A)
Double-Spindle Head	11 mm		

TAPPING UNIT	SPEED (IDLE)	[RPM] SPEED (AT MAX OUTPUT)	[RPM] TORQUE (AT MIN STARTI	NG) [NM] TORQUE (AT MAX OUTPUT) [NM]
LS 223	240	140	13.4	10.8
LS 225	400	240	8.0	6.7
LS 226	540	310	5.9	5.0
LS 2213	1 050	650	3.0	2.4
LS 2221	1 750	1 050	1.8	1.5
LS 2228	2 400	1 390	1.3	1.1

Dimensions



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

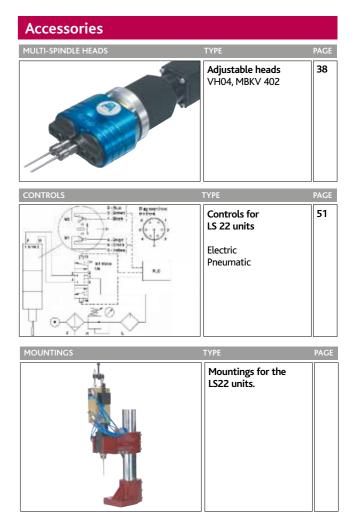
Necessary componer		
QUICK CHANGE CHUCK	ТҮРЕ	PAG
	C12 for B12 Metric and Inches	4
TAP HOLDER	ТҮРЕ	PAG
17 III	T12 for C12 (B12) Metric and Inches	47
LIMIT SWITCHES	ТҮРЕ	PAG
	Electric Pneumatic	51

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, Limit switches, Ø and 🗌 for the tap holder, pitch, and if it is to be

used in Lubrication-free operation.

[mm]

WEIGHT 4.6 KG



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													
TAPPING UNIT	CAPACIT	PACITY IN ALUMINIUM/BRASS CAPACITY IN PLASTIC			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/MOTO BEG481	OR AT V380-420(Y)/22 BEG484	0-240(∆)50HZ [kW] 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 $440-480 V(Y) (\pm 5\%), 60$ 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.

E2 does not

recommend

tapping with

a floating hol-

ding at higher

speeds than

2000 rpm.

Maximum

speed is lower

when tapping

hole and/or

using a large

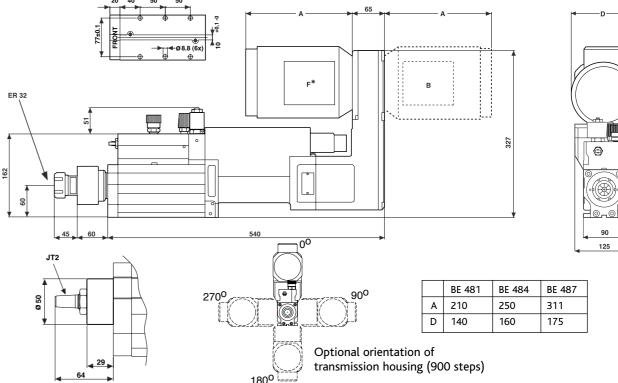
thread.

a deep or blind

• The torque at the spindle for a specific rpm is calculated as: $M = (P_{[kW]} \times 9500) / rpm$

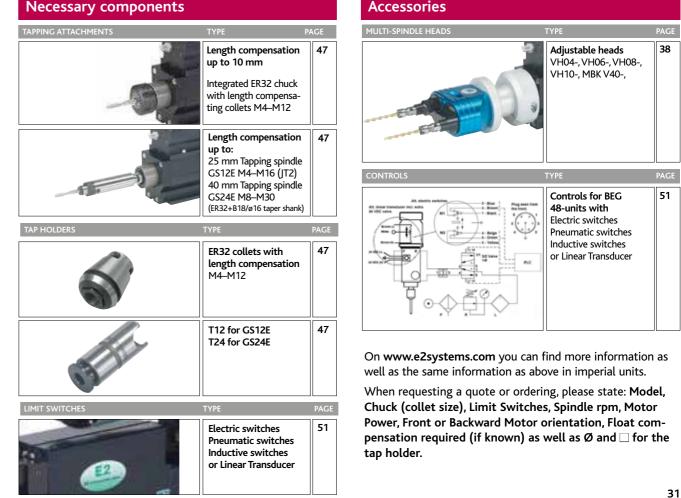
No of Poles	SPINDE 2.5:1	L RPM A 2.1:1	T GEAR F 1.8:1	RATIO AT 1.6:1	50HZ 1.4:1	1.2:1	1:1	1:1.2	1:1.4	1:1.6	1:1.8	1:2.1	1:2.5
2	1130*	1350	1580	1750									
4	560*	670	780	860	1030	1190	1390	1620	1880				
6	360*	440	510	560	670	780	910	1060	1230	1470	1630	1900	
8	270*	330	380	420	500	580	680	790	920	1100	1210	1420	1730*
30	*Not av	/ailable 1	for BEG4	87									

Dimensions



*Front mount is not possible at BE487 with linear transducer You can download 2D CAD-drawings and 3D CAD-models on www.e2systems.com.

Necessary components



[mm]

	BE 481	BE 484	BE 487
А	210	250	311
D	140	160	175

WEIGHT 29-40 KG