

ELECTRO HYDRAULIC DRILLING UNIT BE 55

BE 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. The hydraulic feed control together with position switches makes it possible to include functions such as multi-wall drilling, rapid advance and automatic chip removal. The units are available in two different taper options as well as with multi-spindle heads.

- COMPACT YET POWERFUL DESIGN
- INTEGRATED HYDRAULIC SYSTEM
- LONG STROKE – 120 MM
- IDEAL FOR FLOW DRILLING
- HIGH PRECISION
- LOW NOISE LEVEL



Guidlines for choice of unit													[Ø, mm]
DRILLING UNIT	CAPACITY IN STEEL				CAPACITY IN ALUMINIUM/BRASS				CAPACITY IN WOOD/PLASTICS				
No of Spindles	1	2	3	4	1	2	3	4	1	2	3	4	
BE55	25	19	14	11	35	27	23	18	40	35	26	23	

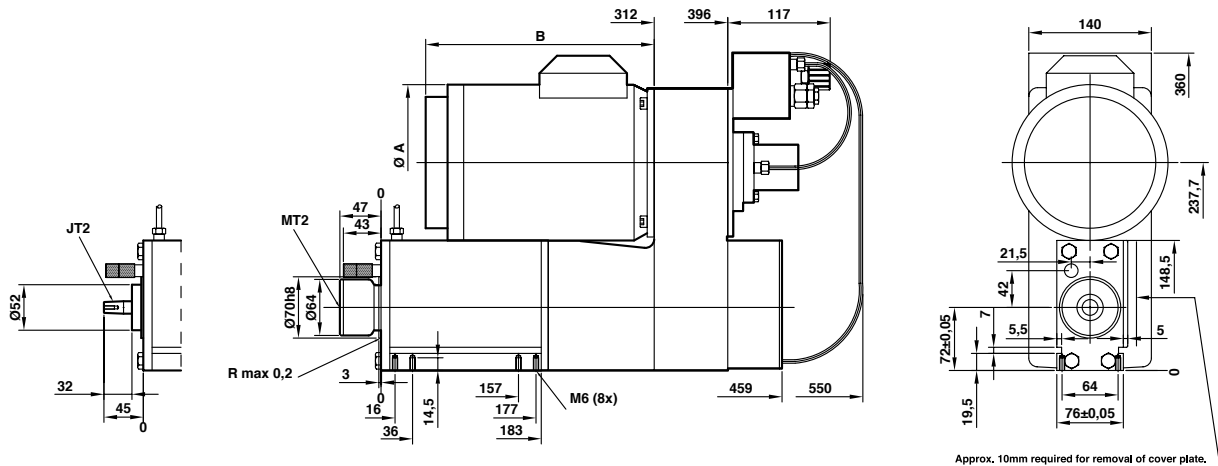
Performance specifications					
Thrust (max.)	6 000 N	Run-out at spindle nose (max.)	Controlled feed rate	0.04–0.65 m/min	
Stroke (max. 100% controlled)	120 mm	JT2	0.02 mm	Sound level	<80 dB(A)
Min. Center to Center Spacing		MT2	0.03 mm		
Single Spindle	140 mm	Depth accuracy +/-	0.01 mm		
Double-Spindle Head	17 mm	Rapid advance rate (max.)	6 m/min		

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

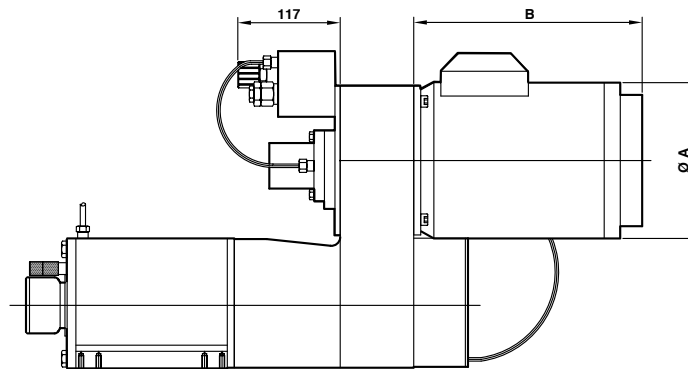
• Motor specifications shown in the tables are valid for 380–420V(Y) / 220–240V(Δ) (±5%), 50 Hz. These motors can also be used at 440–480 V(Y) (±5%), 60 Hz. If so the rpm will increase by ~20% and the power by ~15% relative to the data for 50Hz. E2 also offers motors for other voltages and frequencies.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

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

No of Poles	SPINDEL RPM AT GEAR RATIO AND 50HZ									
	2.8:1	2.2:1	1.7:1	1.3:1	1:1	1:1.3	1:1.7	1:2.2	1:2.8	
2	1020	1300	1690	2170	2820	3670	4700	6130	7780	
4	500	640	830	1070	1390	1810	2320	3020	3830	
6	330	420	550	700	910	1180	1520	1980	2510	
8	250	310	410	520	680	880	1130	1480	1880	



	BE 55
A	177
D	285



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

WEIGHT 35-46KG

Necessary components

CHUCKS	TYPE	PAGE
	Drill Chucks for JT2: Ø 1.0–10.0 mm for MT2: Ø 3.0–16.0 mm	47
	Collet Chuck for JT2 ER 40 Ø 3.0–30.0 mm Collet Chuck for MT2 ER40 Ø2,0-30 mm	47
COLLETS	TYPE	PAGE
	Collets ER 40 Ø 3.0–30.0 mm	47

Accessories

MULTI-SPINDLE HEADS	TYPE	PAGE
	Adjustable heads VH06, VH08, VH10, VH13, VH18	38
CONTROLS	TYPE	PAGE
	Controls for BE(G)55-units	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), Control system, Spindle rpm, Motor Power and Front or Backward Motor orientation.**