

COST-EFFECTIVE AUTOMATION

COMPACT UNITS FOR

- DRILLING
- TAPPING
- MILLING

www.e2systems.com

AIR HYDRAULIC DRILLING UNIT BE 33



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The basic design of the BE 33 consists of a vane motor powered by compressed air, a pneumatic cylinder, and a closed hydraulic system. The total stroke length can be variably subdivided into rapid advance and working feed over the whole range. The throttle/check valve in the hydraulic system permits exact setting of the feed rate and high speed return.

- VERY COMPACT DESIGN
- BUILT-IN HYDRAULICS FOR CONTROLLED WORKING FEED
- ADJUSTMENT OF DRILLING DEPTH WITH POSITIVE STOP GUARANTEES A HIGH DEGREE OF ACCURACY
- EXTRA STABLE SPINDLE BEARINGS
- LOW NOISE LEVEL
- MINIMAL AIR CONSUMPTION

Guidelines for choice of unit [Ø, mm]								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
BE 335	10	6	4	3	14	10	8	5	20	12	10	9
BE 337	10	6	4	3	14	10	8	5	20	12	10	9
BE 3313	9	6	4	2.5	12	10	8	5	16	12	10	9
BE 3326	7	4	3	2	10	8	6	4	13	10	9	8
BE 3333	6	3	3	2	9	7	5	4	13	10	8	7
BE 3360	3	2	2	1	7	5	4	3	8	8	6	5
BE 33210	2.5				4				5			

Performance specifications at 6.3 Bar

Thrust	see below
Power	0.36 kW
Stroke (max. 100% controlled)	50 mm
Min. Center to Center Spacing	
Single Spindle	65 mm
Double-Spindle Head	11 mm

Run-out at spindle nose (max.) 0.05 mn			
Depth accuracy +/-	0.01 mm		
Rapid advance rate	10 m/min		
Controlled feed rate	>0.01 m/min		
Working pressure range	6–7 Bar		

Air consumption	<0.5 Nm³/min			
Sound level	70 dB(A)			

DRILLING UNIT	SPEED (IDLE) [RPM]	SPEED (AT MAX OUTPUT) [RPM]	TORQUE (AT MAX OUTPUT) [NM]	THRUST [N]
BE 335	500	250	12.6	1 000
BE 337	700	350	10.4	1 000
BE 3313	1 300	650	5.7	1 000
BE 3326	2 600	1 300	2.9	800
BE 3333	3 300	1 650	2.3	800
BE 3360	6 000	3 000	1.3	800
BE 33210	21 000	10 500	0.37	800



You can download 2D CAD-drawings and 3D CAD-models on www.e2systems.com. limit switch package. DRILLING UNIT [MM] В [MM] [MM] WEIGHT [KG] BE 335 BE 337 472 380 67 7.1 BE 3313 BE 3326 BE 3333 438 346 6.6 BE 3360 BE 33210

Necessary components		Accessories			
СНИСКЅ	ТҮРЕ	PAGE	MULTI-SPINDLE HEADS	ТҮРЕ	PAGE
	Key chucks Ø 0.5–6.5 mm Ø 0.8–10.0 mm (Stand- ard chuck)	50		Adjustable heads VH04-, VH06-, VH08-, MBK 6V- and MBKV 60- series	42 47
	Collet Chucks	51	5950 6550		
	Ø 1.0-8.0 mm		CONTROLS	ТҮРЕ	PAGE
	Ø 1.0-15.0 mm Ø 2.0-20.0 mm		2 - Bierry H Bierry Bierry Bierry 	Controls for BE 33- units Electric	56
COLLETS	ТҮРЕ	PAGE	2 V1 32 Valve	Pneumatic	
*	ER11 Ø 1.0-8.0 mm ER20 Ø 1.0-15.0 mm ER32 Ø 2.0-20.0 mm	51			
			MOUNTINGS	ТҮРЕ	PAGE
				Mountings for the	_
	ТҮРЕ	PAGE	e e e e e e e e e e e e e e e e e e e	BE33	
	Electric	56	. (
	Pneumatic				

On 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), Limit Switches and if it is to be used for Lubrication-free operation.

You will find units for Drilling, Tapping and Milling installed wherever increased rates of production are required. They are a cost-effective means of automating drilling, tapping and milling operations.

E2 products are known world wide for their quality, durability, precision and power. Each series of E2 units are the most compact in the market today.

E2 customers benefit from the high quality of the E2 product line with less down-time and reduced operating costs. The compact design of the E2 units together with a good availability of CAD-drawings/-models makes the design of a machine more straight forward.

E2's concern for the worker and his environment is evident in all E2 products. Low noise levels and non-lubrication features eliminating oil mist in the air is a common feature of the E2 product line.

E2 self-feeding units utilizes a built-in hydraulic feed control system. They combine precision with power enabling a high level of precision also in multispindle head applications. The extremely compact Air hydraulic drilling units and Lead screw tappers are ideal for drilling/tapping smaller holes. E2 's electropneumatic and –hydraulic units can to be used when more power is required. You will still have the E2 durability and precision. The E2 product line also includes non-feed pneumatic units perfect for drilling as well as milling, slitting and grinding.

Complementing the line of units, E2 also offers a full line of accessories for machining applications.

E2 also have supplementary product lines of

- Rotary actuators
- Air thrusters
- Pneumatic/Hydraulic components and systems

E2 Systems AB, Strömslundsgatan 3, SE-507 62 Borås, Sweden Tel: +46 33 20 88 40 , Fax: +46 33 20 88 49 www.e2systems.com