

COST-EFFECTIVE AUTOMATION

COMPACT UNITS FOR

- DRILLING
- TAPPING
- MILLING

www.e2systems.com

AIR OPERATED
DRILLING UNIT
BE(S) 21



AIR OPERATED DRILLING UNIT BE(S) 21

The BE 21 is an air operated drilling unit with feed. The design of the BE 21 makes it very suitable for drilling blind holes, reaming etc. We also offer this unit in a Stainless version, the BES 21, ideal for operation in environments where water or other corrosive fluids are present.

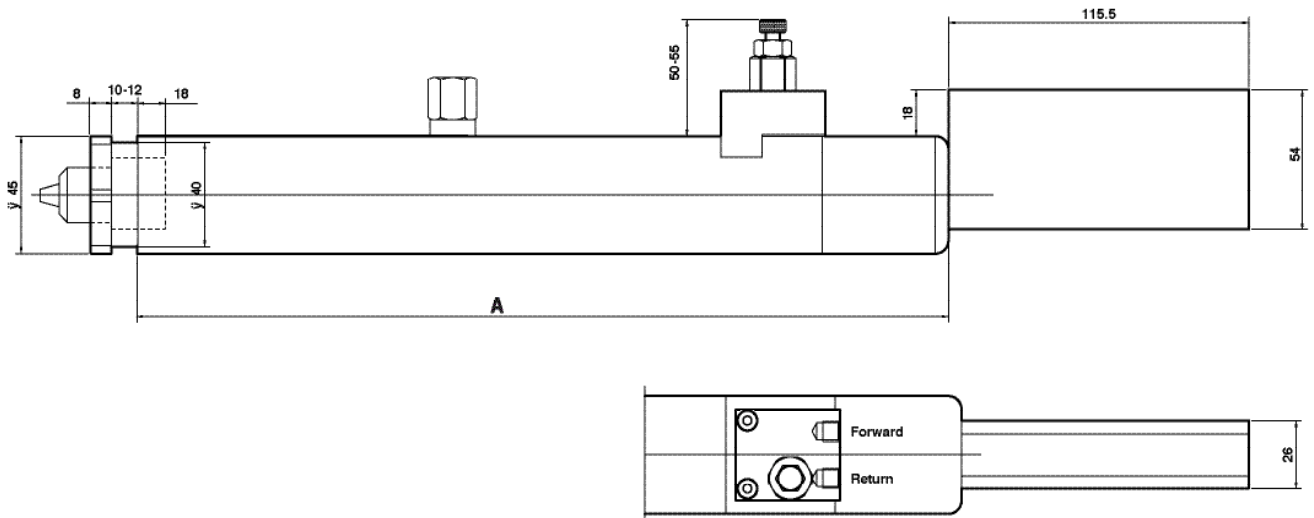
- EXTREMELY COMPACT (OUTER Ø 45 MM)
- POSITIVE STOP GUARANTEES HIGH DEGREE OF ACCURACY
- LOW AIR CONSUMPTION
- LOW NOISE LEVEL
- AVAILABLE IN STAINLESS DESIGN FOR CORROSIVE ENVIRONMENTS



Guidelines for choice of unit				[Ø, mm]
DRILLING UNIT	CAPACITY IN STEEL	CAPACITY IN ALUMINIUM/BRASS	CAPACITY IN WOOD/PLASTICS	
BE(S) 215	6	11	16	
BE(S) 218	6	11	16	
BE(S) 2111	6	10	14	
BE(S) 2122	5	9	12	
BE(S) 2136	4	7	10	
BE(S) 2149	3	6	8	
BE(S) 21220	2	3	4	

Performance specifications at 6.3 Bar					
Thrust (max.)	665 N	Min. CC Spindle Spacing	45 mm	Working pressure range	6–7 Bar
Power	0.25 kW	Run-out at spindle nose (max.)	0.05 mm	Air consumption	<0.3 Nm ³ /min
Stroke (max.)	50 mm	Depth accuracy +/-	0.01 mm	Sound level	70 dB(A)

DRILLING UNIT	SPEED (IDLE)	[RPM]	SPEED (AT MAX OUTPUT)	[RPM]	TORQUE (AT MAX OUTPUT)	[NM]
BE(S) 215	500		250		9.9	
BE(S) 218	800		400		6.0	
BE(S) 2111	1 100		550		4.3	
BE(S) 2122	2 200		1 100		2.4	
BE(S) 2136	3 600		1 800		1.5	
BE(S) 2149	4 900		2 450		1.1	
BE(S) 21220	15 000		7 500		0.25	




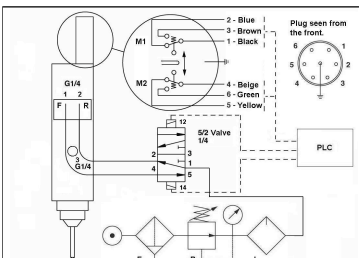
You can download 2D CAD-drawings and 3D CAD-models on www.e2systems.com.

DRILLING UNIT	A	[MM]	WEIGHT	[KG]
BE 215				
BE 218		312		3.3
BE 2111				
BE 2122				
BE 2136		282		3.1
BE 2149				
BE 21220				
BES 215				
BES 218		312		3.0
BES 2111				
BES 2122				
BES 2136		282		2.8
BES 2149				
BES 21220				

Necessary components

CHUCKS	TYPE	PAGE
	Key chucks Ø 0.5–6.5 mm (Standard chuck) Ø 0.8–10.0 mm	50
	Collet Chucks Ø 1.0-8.0 mm Ø 1.0-15.0 mm Ø 2.0-20.0 mm	51
COLLETS	TYPE	PAGE
	ER11 Ø 1.0-8.0 mm ER20 Ø 1.0-15.0 mm ER32 Ø 2.0-20.0 mm	51

Accessories

LIMIT SWITCHES	TYPE	PAGE
	Electric Pneumatic	55
CONTROLS	TYPE	PAGE
	Controls for BE 21-units Pneumatic Electric	55

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 in 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 multi-spindle head applications. The extremely compact Air hydraulic drilling units and Lead screw tappers are ideal for drilling/tapping smaller holes. E2's electro-pneumatic 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

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