E2 SYSTEMS

COST-EFFECTIVE AUTOMATION

COMPACT UNITS FOR
- DRILLING
- TAPPING
- MILLING

www.e2systems.com

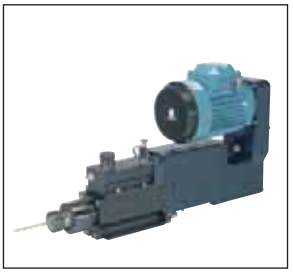
AIR TURBINES/ AIR MOTORS/ DRILLING SPINDLES

	Air Turbines	Air Motors / Drilling Spindles			
	BE 11/HFS100	BE 22 SK	BEP 22 SK	BE 33 SK	
Drilling Capacity in Steel; Aluminium	1.5 ; 3	8 ; 12	6 ; 9	13 ; 16	[Ø, mm]
Power	80	250	250	360	[W]
Speed (idle)	80.000	500–22000	2200–22000	500–21000	[rpm]
Torque*	0.02	9.9–0.25	2.4–0.25	12.6–0.37	[Nm]
Min CCSS**	54	45 (MSH: 11)	45	50 (MSH: 11)	[mm]
Run-Out***	<0.007	<0.03	<0.01	<0.05	[mm]

PNEUMATIC DRILLING UNITS

	Air Operated Drilling Units	Air Hydraulic Drilling Units			
	BE(S) 21	BE(F) 22	BE(F)P 22	BE 33	
Drilling Capacity in Steel; Aluminium	6 ; 11	6 ; 11	5 ; 9	10 ; 14	[Ø, mm]
Power	250	250	250	360	[W]
Speed (idle)	500–15000	500–22000	2200–22000	500–21000	[rpm]
Torque*	9.9–0.25	9.9–0.25	2.4–0.25	12.6–0.37	[Nm]
Thrust (max)	665	600	600	800–1000	[N]
Stroke (max)	50	30 (60)	30 (60)	50	[mm]
Min CCSS**	45	45 (MSH: 11)	45	65 (MSH: 11)	[mm]
Run-Out***	<0.05	<0.03	<0.01	<0.05	[mm]

ELECTRO PNEUMATIC/ HYDRAULIC DRILLING UNITS



	Electro-Pneumatic Drilling Unit	Electro-Hydraulic Drilling Unit	
	BE 48	BE 55	
Drilling Capacity in Steel; Aluminium	16 ; 25	25 ; 35	[Ø, mm]
Power	250–1650	370–2700	[W]
Speed	270–9450	250–7780	[rpm]
Torque*	19.7–0.55	41.8–0.90	[Nm]
Thrust (max)	1650–2000	6000	[N]
Stroke (max)	100	120	[mm]
Min CCSS**	90 (MSH: 11)	140 (MSH: 14)	[mm]
Run-Out***	<0.02	<0.03	[mm]

TAPPING UNITS

	Pneumatic Lead Screw Units	Electro-Pneumatic Tapping Unit	Electro-Hydraulic Tapping Unit	
	LS 22	BEG 48	BEG 55	
Tapping Capacity in Steel; Aluminium	M8 ; M12	M12 ; M20	M16 ; M24	[M-Thread]
Power	160	250–1650	370–2700	[W]
Speed	240–2400	270–1900	250–1980	[rpm]
Torque*	10.8–1.1	19.7–1.25	41.8–1.80	[Nm]
Stroke (max)	51	100	120	[mm]
Min CCSS**	42 (MSH: 11)	90 (MSH: 11)	140 (MSH: 14)	[mm]

PNEUMATIC MILLING UNITS

	Pneumatic Milling Units		
	BE 22 SKM	BE 33 SKM	
Milling Capacity in Steel; Aluminium			
Saw Ø	- ; 100	80 ; 100	[Ø, mm]
Blade gauge	- ; 2	1.5 ; 4	[mm]
End mill Ø	4 ; 6	6 ; 10	[mm]
Cutting Depth	2 ; 2	2 ; 4	[mm]
Power	250	360	[W]
Speed (idle)	500–22000	500–21000	[rpm]
Torque*	9.9–0.25	12.6–0.37	[Nm]

COST-EFFECTIVE AUTOMATION

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.

Legend

Generally air units run at half of the max. Speed under max. load (generating max. Power and Torque)

*At max output. Generally Higher Speed and/or Less Power means Less Torque

**Centre-to-Centre Spindle Spacing: Single Spindle (Multi-Spindle Head)

***Run-Out is measured at the spindle nose

You are always welcome to www.e2systems.com for more and always up-to-date information, CAD-files and more.

E2 Systems specialise in the design and production of Drilling and Tapping units and pneumatics/hydraulics according to customer specification. Our business is based on long experience and cutting-edge competence within the hydraulic and pneumatic technologies. The products are of compact design in order to offer high performance and save space.

E2 products are in operation in practically every country around the world through distribution by E2´s representatives or delivery as vital components of other manufacturers´ equipment.

A large portion of E2 products are used in the automotive industry, but they can also be found in other manufacturing industries as well as the woodworking industry. Our customers include: Electrolux, General Motors, Getinge, Honda, Kinnarps, Rolls Royce, SKF and Volvo.