

Machine Name : Cylindrical grinder

Brand : Kellenberger

Machine Model : KELLENBERGER 1000

Stock No. : 812901

Ex-factory Date : 2018



Main Technical Parameters:

CNC System: FANUC 31i-B

Machining Capacity

Distance between centers: 1000 / 1600 mm

Grinding length: 1000 / 1500 mm

Center height: 200 / 250 / 300 mm

Workpiece load between centers: 150 / 200 / 300 kg

Chuck clamping grinding load: 160 / 320 / 750 Nm

Electrical Parameters

Main power supply: 3 × 400V / 50Hz, 3 × 460V / 60Hz

Current requirement (depending on configuration): 35–63 A

Machine Dimensions

Floor space (L × W): 3600 × 2050 mm / 4600 × 2050 mm

Z-axis

Travel: 1170 / 1670 mm

Rapid feed rate: 20 m/min

Resolution: 0.00001 mm

X-axis

Travel: 365 mm

Rapid feed rate: 10 m/min

Resolution: 0.00001 mm

Grinding Wheel Headstock Rotation B-axis

Resolution / Repeatability: 0.00001° < 0.5"

Rotation range: Max. 240°

Grinding Wheel Headstock

Water-cooled motor drive power: 10 kW

Constant peripheral speed of grinding wheel: Max. 45 m/s

Universal Grinding Wheel Headstock

Left external grinding wheel mounting size: 400 / 500 mm

Right external grinding wheel mounting size: 300 / 400 / 500 mm

Front and Rear Grinding Wheel Headstock

Left external grinding wheel mounting size: 400 / 500 mm

Right external grinding wheel mounting size: 400 / 500 mm

Diagonal Grinding Wheel Headstock

Left external grinding wheel mounting size: 400 / 500 mm

Right external grinding wheel mounting size: 400 / 500 mm

Internal Grinding Spindle

Internal grinding spindle mounting bore: 120 mm

MFM High-frequency Spindle

Power: 10 / 15 kW

Maximum spindle speed:

MFM 1224/42: 42,000 rpm

MFM 1242/60: 60,000 rpm

MFM 1290: 60,000 rpm

Workpiece Headstock

Speed range: 1-1000 / 1-1000 / 1-500 rpm

Internal taper: MT5 / MT5 / MT6

Short external taper: ISO 702-1: Size 5 / Size 5 / Size 8

Fine adjustment range: $\pm 1.5^\circ$

Tailstock

Internal taper: MT4

Quill travel: 50 / 80 mm

Fine adjustment range: ± 75 mm





主要规格	公制		英制	
床身长度	1000 / 1500	mm	40 / 63	inch
床身宽度	1000 / 1500	mm	40 / 59	inch
中心高	200 / 250 / 300	mm	7.87 / 9.84 / 11.81	inch
床身重量	150 / 200 / 300	kg	330 / 441 / 660	lbs
主轴额定输出功率	160 / 320 / 750	Nm	118 / 236 / 553	ft-lb
主电压需求	3 x 400V / 50Hz / 3 x 460V / 60Hz		3 x 480V / 50 Hz / 3 x 460V / 60 Hz	
电机要求 (额定功率)	75-43	A	75-43	A
占地面积/ 总重量	3400 x 2612 / 4600 x 2050	mm	141.71x10.70 / 181.10x80.70	inch
Z轴				
行程	1170 / 1670	mm	46.06 / 65.74	inch
快速进给	20	m/min	787	ipm
分辨率	±0.0001	mm	0.000004	inch
X轴				
行程	355	mm	14.37	inch
快速进给	10	mm	393	inch
分辨率	±0.0001	mm	0.000004	inch
回转轴/转台				
分辨率/每度分/秒精度	0.00001° < 0.5"		0.00001° < 0.5"	
最大速度	max. 240		max. 240	
回转头				
最大电机额定功率	10	KW	13.4	hp
最大转速	max. 45 rpm	rpm	max. 8880 ft/min	ft/min
通孔型/孔型				
左端外圆/孔型安装尺寸	400 / 520	mm	16 / 20	inch
右端外圆/孔型安装尺寸	300 / 420 / 500	mm	12 / 16 / 20	inch
通孔型/孔型				
左端外圆/孔型安装尺寸	400 / 520	mm	16 / 20	inch
右端外圆/孔型安装尺寸	400 / 520	mm	16 / 20	inch
通孔型/孔型				
左端外圆/孔型安装尺寸	400 / 520	mm	16 / 20	inch
右端外圆/孔型安装尺寸	400 / 520	mm	16 / 20	inch