



THW-2080/3080

CNC Worm Thread Grinding Machine

Founded in 1913, Matrix machine tool has remained the world's market leader in the manufacture of high precision CNC Worm Thread grinding machine. With the integrated strength from HIWIN group, We are proud to introduce the Matrix **THW-2080/3080**: CNC Worm Thread grinding machine. **THW-2080/3080** applies the FANUC controller and high speed grinding spindle; it will design the tooth profile and grinding parameter flexibly through the intelligent conversation windows software. The Machinable workpieces include the standard worms(ZK, Zi, ZN & ZA), dual-lead worms , ZC (Niemann) worms , thread plug gauges and rolling dies. The high efficiency and high-precision machining performance meet the worldwide top brand products in this field. **THW-2080/3080** is your best choice.

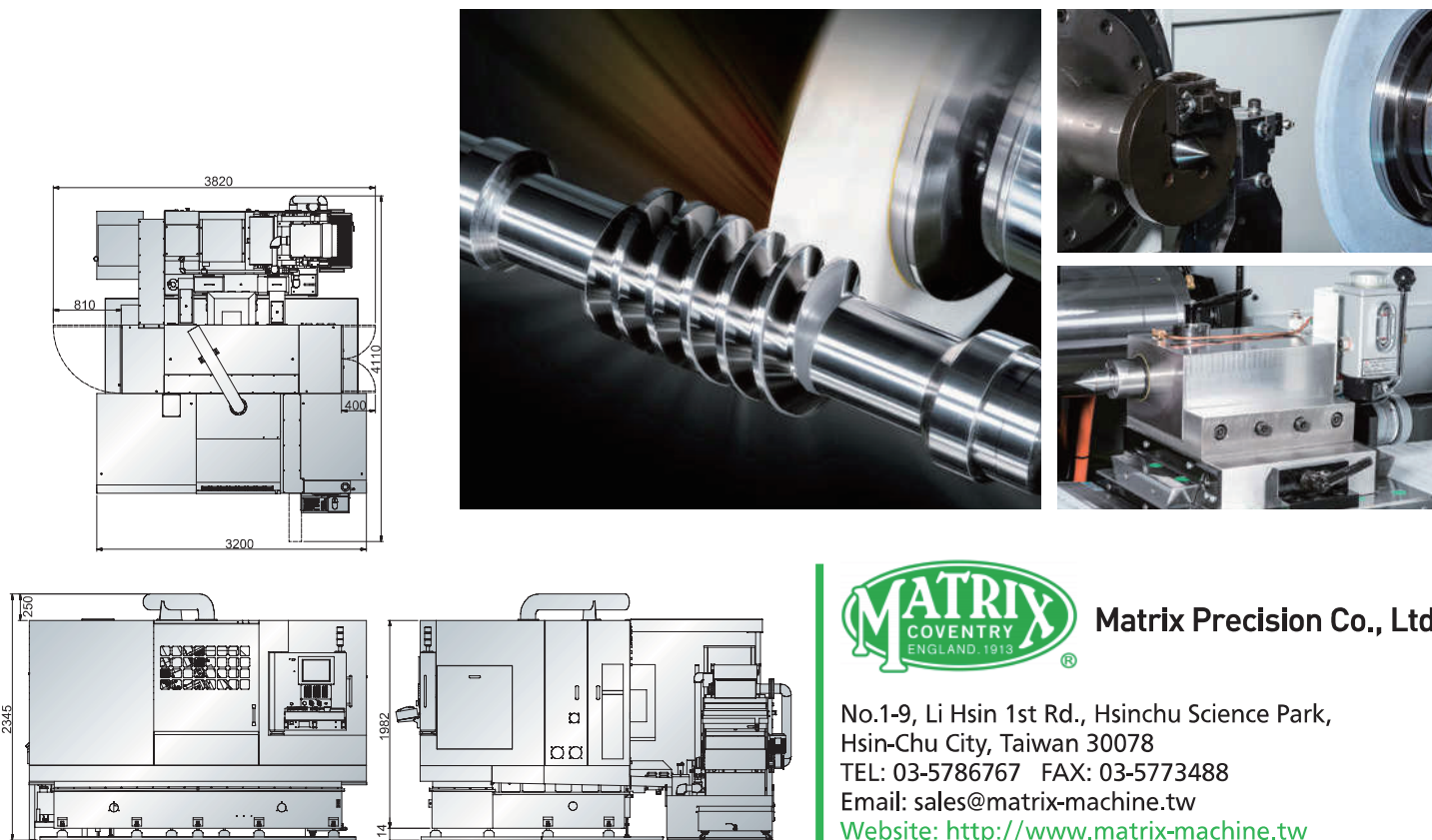


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MAIN SPECIFICATIONS	THW-2080	THW-3080
Min./Max. workpiece outside diameter	5mm / 200mm (0.19"/7.8")	5mm / 300mm (0.19"/11.8")
Max. module	M8 (DP3.2)	M12 (DP2.1)
Thread range	1 ~ 99	1 ~ 99
Lead angle range	± 35°	± 45°
Pressure angle range	5° ~ 30°	5° ~ 30°
MECHANICAL SPECIFICATIONS		
Min. distance between centers	80mm (3.1")	80mm (3.1")
Max. distance between centers	800mm (31.4")	800mm (31.4") (Standard) 1200mm (Through-bore) (47.2")
Work spindle through bore		110mm (4.3")
Max. axial slide travel (Z axis)	650mm (25.5")	650mm (25.5")
Min./Max. Distance between work spindle and grinding spindle	150mm / 400mm (5.9"/15.7")	150mm / 400mm (5.9"/15.7")
Max. table load (workpiece with fixture)	60kg(132lb)	80kg(176lb)
GRINDING WHEEL SPECIFICATIONS		
Min grinding wheel root diameter/Max grinding wheel diameter	280mm / 400mm (10.2"/15.7")	
Max. grinding wheel thickness	40mm (1.5")	
Max. rpm of grinding spindle	4000 rpm	
Drive power of grinding spindle	17kW (22Hp)	
ELECTRIC SYSTEM		
Voltage	3Ø 220V	
Current Requirement	45 Amp	
Ambient Temperature	20°C ~ 26°C (68°F ~ 79°F)	
Max. Load of Machine	20 kVA	
CNC CONTROLLER	FANUC	
DIMENSION & WEIGHT		
Space Requirement	L 4110 x W 3820 x H 2345mm 800mm (32") on each dimension is required for maintenance).	L 162" x W 151" x H 93"
Weight of Basic Machine	8500kg (18700lb)	

The specifications are subject to the contract, as well as new technology and industrial advancements available.



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