

NOTE

- \*1 Bar work capacity may be restricted due to chuck and cylinder type.
- \*2 Depending on restrictions imposed by work clamping device, jig and tool used, it may not be possible to rotate at maximum spindle speed.
- \*3 For double boring bar holder
- \*4 For 35 mm overhang of O.D. cutting tool.
- \*5 For 40 mm overhang of O.D. cutting tool.
- \*6 <ANR> indicates the standard air state-temperature of 20°C absolute pressure of 101.3 kPa; and relative humidity of 65%.

1.5 NLX2500Y/700

Item		NLX2500Y/700
Capacity	Swing over Bed	920 (36.22) <interfere with front cover: 620 (24.41)>
	Swing over Cross Slide	740 (29.13)
	Max. Turning Diameter	366 (14.41) <sup>*4</sup> , 356 (14.02) <sup>*5</sup> [406 (15.98) <12st VDI high-precision quick-change turret (DIN)>] [348 (13.7) <16st turret head>] [278 (10.95) <20st turret head>]
	Standard Turning Diameter	271 (10.67) <sup>*4</sup> , 275 (10.83) <sup>*5</sup> [330 (12.99), 335 (13.19) <10st turret head>] [260 (10.24) <12st VDI high-precision quick-change turret (DIN) >] [206 (8.11) <16st turret head>] [192 (7.56) <20st turret head>]
	Max. Turning Length	705 (27.76)
	Bar Work Capacity <sup>*1</sup>	80 (3.15) [90 (3.54) <continuous through spindle hole diameter 91 (3.58)>] [102 (4.02) <continuous through spindle hole diameter 103 (4.06)>]
Travel	X-Axis Travel	260 (10.24)
	Y-Axis Travel	±50 (±1.97)
	Z-Axis Travel	795 (31.30)
Spindle	Max. Spindle Speed <sup>*2</sup>	4000 [2500 <through spindle hole diameter 111 mm (4.37 in.)>]
	Number of Spindle Speed Ranges	2 <winding changeover>
	Spindle Nose Type	JIS A2-8
	Through Spindle Hole Diameter	91 (3.58) [111 (4.37)]
	Spindle Bearing Inner Diameter	140 (5.51) [160 (6.30) <through spindle hole diameter 111 (4.37)>]
	Chuck	10" solid & hollow [12" hollow <through spindle hole diameter 111 mm (4.37 in.)>]
	Minimum Spindle Indexing Angle	0.001°

Item		NLX2500Y/700
Turret	Turret Type	12st [10st/16st/20st]
	Number of Tools on Turret	Tools 12 [10, 16, 20]
	Shank Height for Square Tool	mm (in.) 25 (1) [20 (3/4) <12st VDI high-precision quick-change turret (DIN), 16st turret head, 20st turret head>]
	Shank Diameter for Boring Bar <sup>*3</sup>	mm (in.) 50 (2) <subspindle side 32 (1-1/4)> [32 (1-1/4)] <sup>*3</sup> [40 (1.57) <12st VDI high-precision quick-change turret (DIN)>] [25 (1) <16st turret head>] [32 (1-1/4) <20st turret head>]
Turret Rotary Tool Spindle	Max. Rotary Tool Spindle Speed	min <sup>-1</sup> 10000
	Rotary Tool Machining Capacity	mm (in.) Drill: φ26 (φ1.02) Tap: M20
Feedrates	Rapid Traverse Rate	mm/min (ipm) X, Z: 30000 (1181.10) Y: 10000 (393.70) tailstock: 7000 (275.59) (advance) 20000 (787.4) (retract) <sup>*6</sup>
	Jog Feedrate	mm/min (ipm) X, Z, Y, tailstock: 0 - 5000 (196.85)
Tailstock	Tailstock Travel	mm (in.) 734 (28.90)
	Tailstock Spindle Diameter	mm (in.) 79 (3.11) <MT5, MT3> [110 (4.33) <MT4>]
	Tailstock Spindle Taper Hole	MT5 <live center> [MT3 <built-in center>] [MT4 <built-in center>]
	Tailstock Spindle Travel	mm (in.) —
Motors	Spindle 1 Drive Motor (25% ED/50% ED/Cont.)	kW (HP) 18.5/18.5/15 (24.7/24.7/20) [26/26/22 (34.7/34.7/30) (10 min/30 min/cont.) <high output>] [22/18.5 (30/24.7) (30 min/cont.) <through spindle hole diameter 111 mm (4.37 in.)>]
	Rotary Tool 1 Spindle Drive Motor (3 min/5 min/Cont.)	kW (HP) 5.5/5.5/3.7 (7.5/7.5/5) (3 min/5 min/cont.) <10st bolt-tightened turret, 12st bolt-tightened turret, 16st VDI quick-change turret, 20st bolt-tightened turret> [10.7/8.5/6.1 (14.3/11.3/8.1) (15%ED/30%ED/cont.) <12st VDI high-precision quick-change turret (DIN)>]
	Feed Motors	kW (HP) X, Y, Z: 3.0 (4.0) tailstock: 2.0 (2.7)
	Hydraulic Pump Motor	kW (HP) 1.5 (2)
	Lubricating Pump Motor	kW (HP) 0.02 (0.027)
	Coolant Pump Motor	kW (HP) 0.55 (0.73)/0.35 (0.46)
	Cooling Oil Pump Motor	kW (HP) 1.43 (1.9)
Required Air Sources	Compressed Air Supply	MPa (psi), L/min (gpm) 0.5 (72.5), 50 (13.2) <ANR> <sup>*7</sup>
Tank Capacity	Hydraulic Oil Tank Capacity	L (gal.) 10 (2.64)
	Lubricating Oil Tank Capacity	L (gal.) 4.2 (1.1)
	Coolant Tank Capacity	L (gal.) 366 (96.62)
	Oil Chiller Tank Capacity	L (gal.) 10 (2.64)