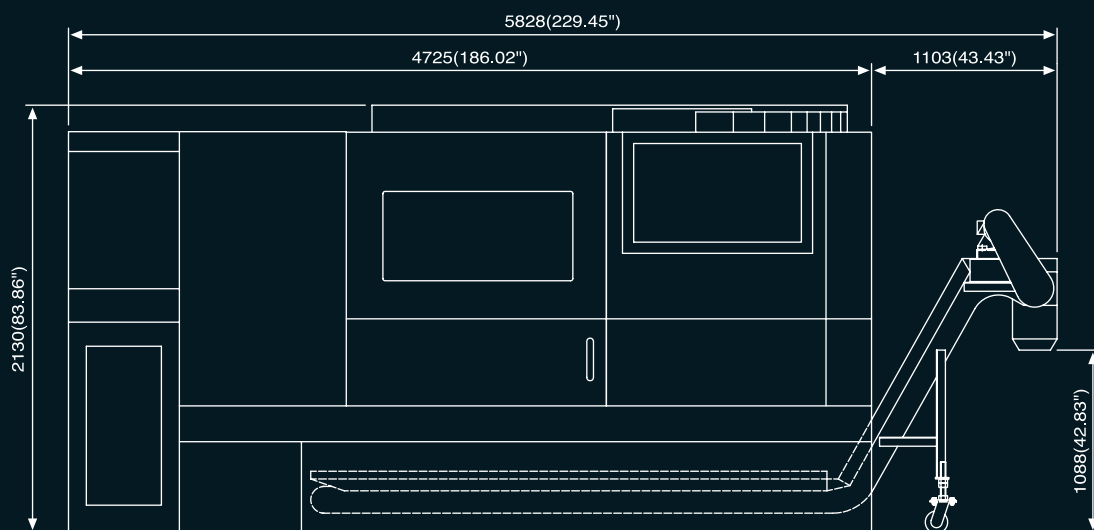


SLANT BED CNC PRECISION TURNING CENTER

BOX GUIDEWAY



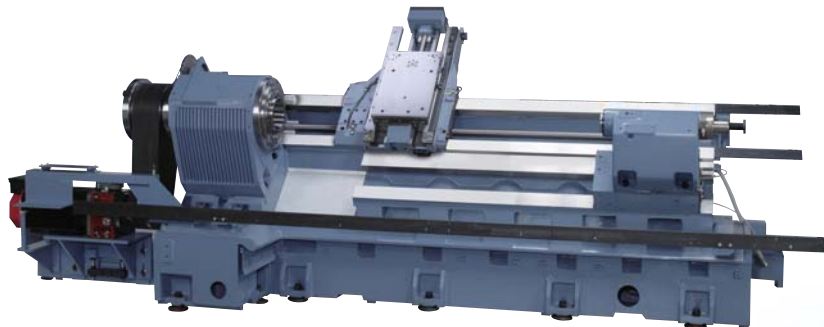
CNC PRECISION LATHE

▶▶▶ **TC-25 Series**



RUGGEDLY AND PRECISELY CONSTRUCTED THROUGHOUT

- The major machine parts, such as the base, saddle, headstock, slide and tailstock are made of Meehanite cast iron and tempered to relieve stress thereby ensuring lifetime accuracy.
- 45 degrees slant bed construction features efficient chip removal and firm support.
- Box guideways on X and Z axis, that is high precision and heavy-duty loading.
- High Rigidity and Stabilization of Entire Construction.
- Hi-rigid construction stands up bending and torsional force of heavy-duty cutting on large work-piece.(TC-25,TC-35R series)

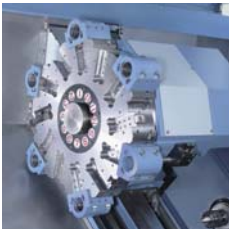


- One-piece Meehanite cast iron.(TC-25,TC-35R series)

▶▶▶ TC-35 Series



HYDRAULIC TURRET INDEXING



- A. Heavy-duty station tool turret is driven by low noise, high torque hydraulic indexing motor.
- B. Faster indexing tool turret with bi-direction random selection to the shortest path, achieves high productivity.

FANUC CNC CONTROLLER



User-friendly operations are more convenient for users.

MANUAL TAILSTOCK



Designed for the machine stability when cutting workpieces.

HYDRAULIC POWER UNIT



The hydraulic power unit employs high quality components for long service life and stable motions. The unit delivers high pressure to the turret, CS Brake and 3-Jaw chuck.

POWERFUL HI-SPEED AND HI-RIGID SPINDLE



Spindle supported by cylindric roller bearings and hi-speed angular thrust bearings makes the spindle faultless and ideal for heavy-duty and high-speed turning.

CNC PRECISION LATHE

▶▶▶ **TC-35R Series (Right hand)**



ZF GEAR BOX



TC-35 series equipped with "high precision" German-made ZF two stages gerabox(gear ratio:1:4) provides full horsepower cutting from 208~2,500rpm. The maximum cutting torque is 660 N-m.

TOOL SETTER (OPT.)



● Pictured for TC-25 series.

Designed for reducing tool set-up time, the tool setter automatically detects tool wear condition.

POWER TURRET (OPT.)



● Pictured for TC-25 series.

For special requirement, Cs axis and a 12-station power tool turret of TC milling series with VDI tooling can handle secondary operation such as milling, drilling as well as tapping in one set-up.

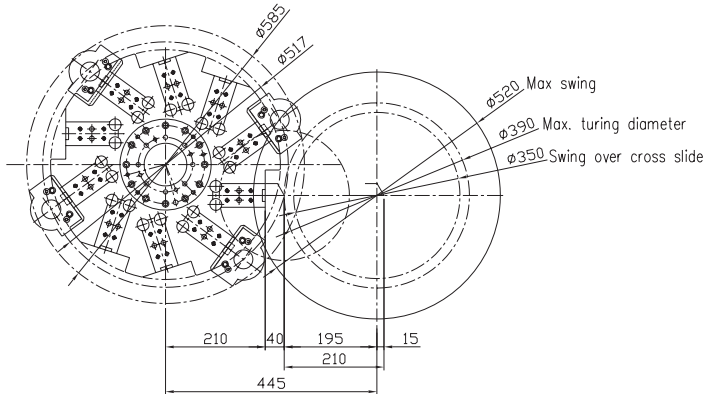
Steady Rest & Programmable Tailstock (OPT.)



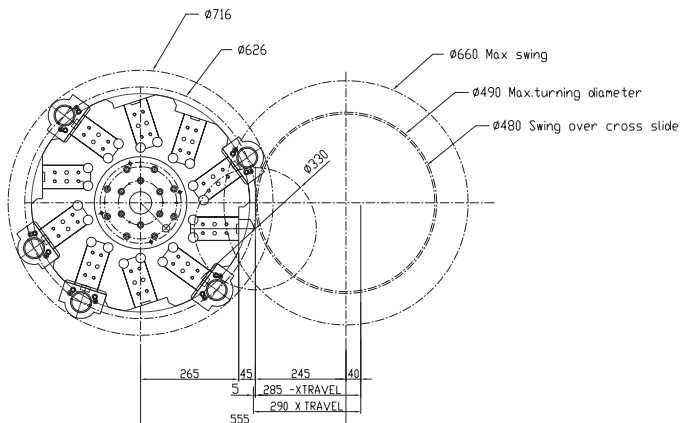
- Designed for support long work piece.
- Designed for saving time and manpower.
The orientation of tailstock is high-precision.

Tool Turret Interference Diagram

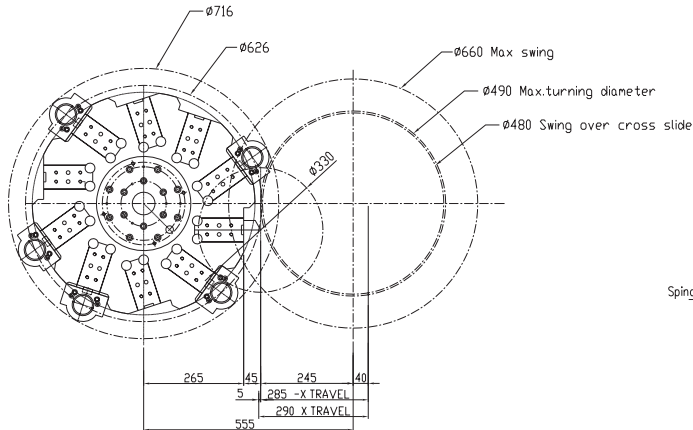
TC-25 (10 Tool Stations)



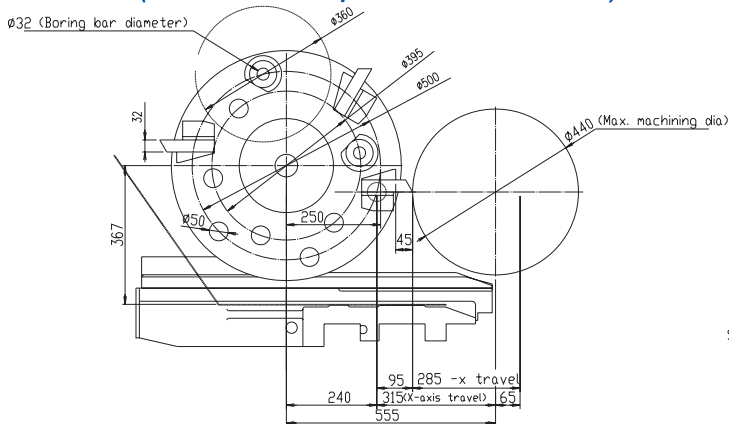
TC-35B (10 Tool Stations)



TC-35BL (10 Tool Stations)

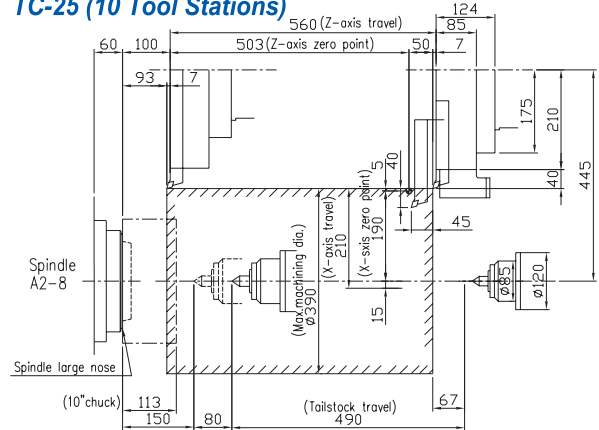


TC-35 (12 Tool Stations-power turret for Cs axis)

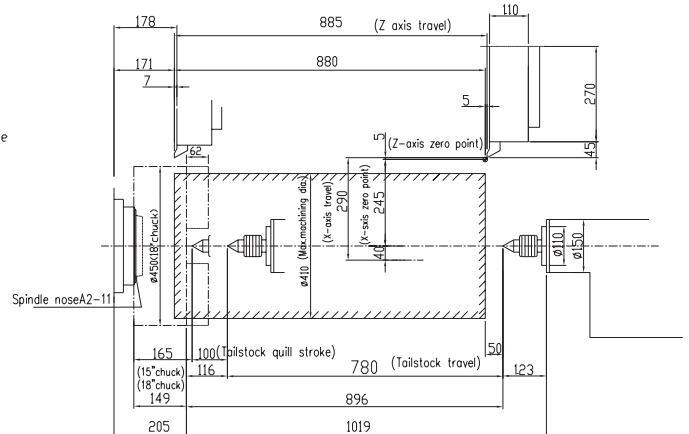


Machine Stroke Layout

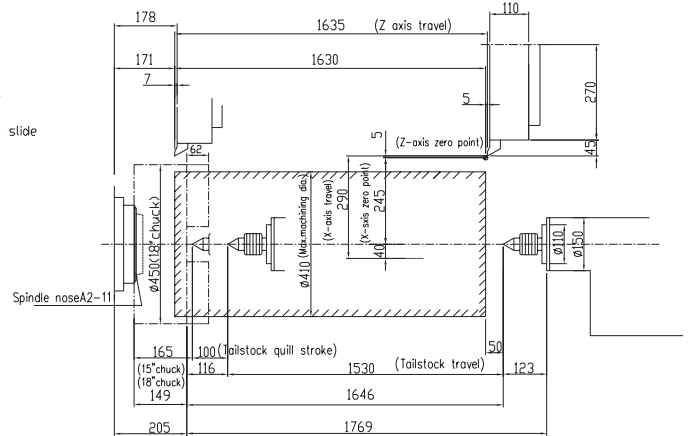
TC-25 (10 Tool Stations)



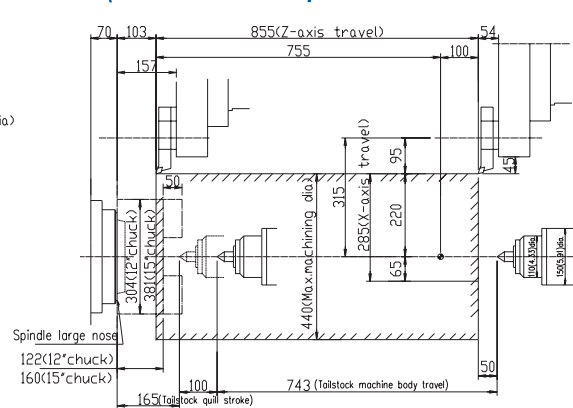
TC-35B (10 Tool Stations)



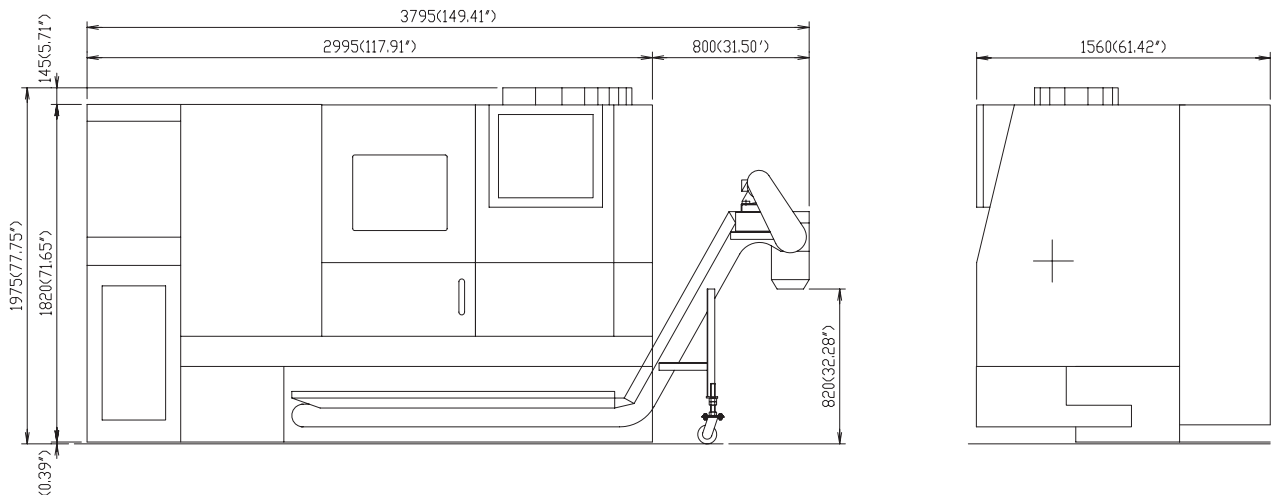
TC-35 (10 Tool Stations)



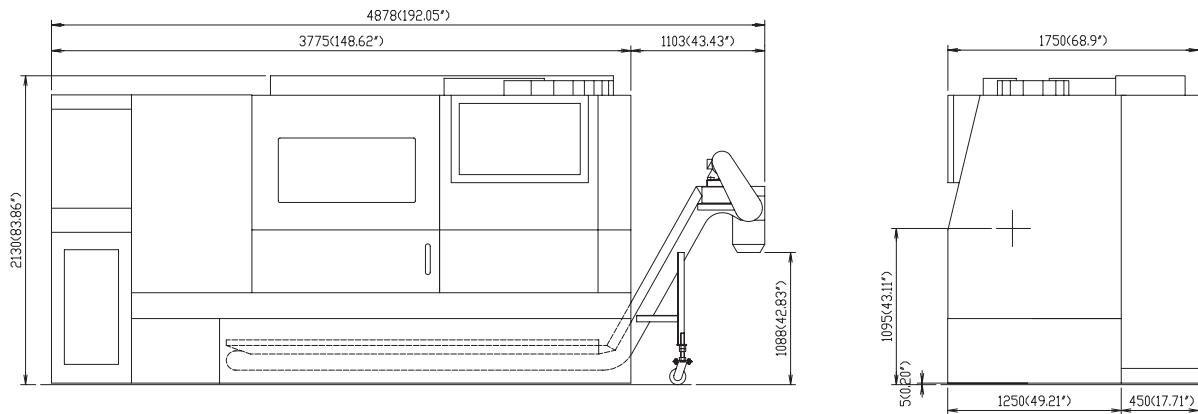
TC-35 (12 Tool Stations-power turret for Cs axis)



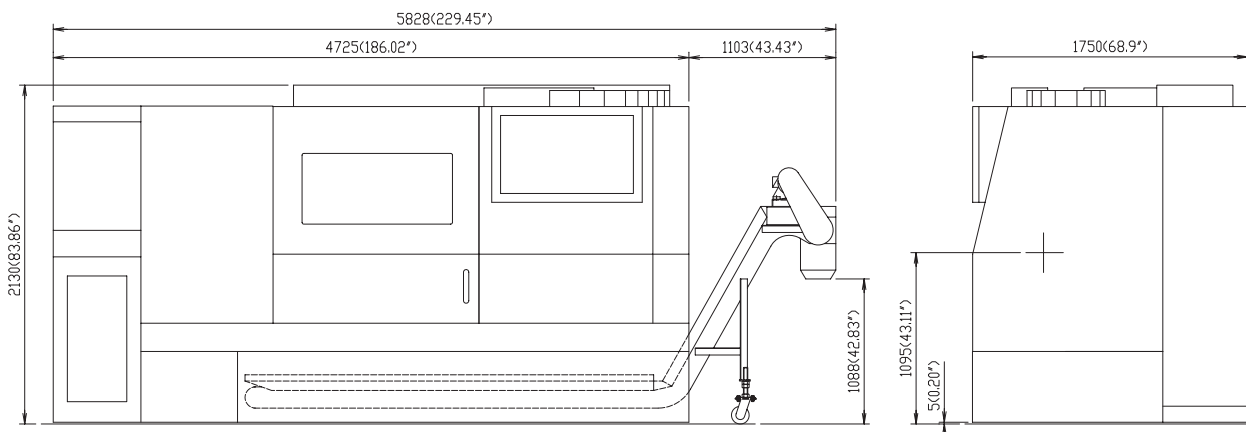
TC-25 Installation Drawing mm(in)



TC-35 Installation Drawing mm(in)



TC-35L Installation Drawing mm(in)



L&W MACHINE TOOLS, INC.

Factory: No. 53, Ho Tso St., Feng Yuan, Taiwan
 Export Office: 9F-8, No.62, Ta Ya Road, Taichung, Taiwan

Tel : +886-4-2201-4701 Fax: +886-4-2203-6013 • 2207-0371
<http://www.lw-machinetools.com> • E-mail: lwmachin@ms31.hinet.net

TC series specifications

MODEL		UNIT	TC-3508 TC-3508B	TC-3515 TC-3515B	TC-3523 TC-3523B	TC-3530 TC-3530B	TC-4008 TC-4008B	TC-4015 TC-4015B	TC-4023 TC-4023B	TC-4030 TC-4030B	TC-4512	TC-4517	TC-4522	TC-4532
Capacity	Swing over bed	mm(in)	Ø660 (25.98")				Ø850 (33.45")				Ø970 (38.1")			
	Swing over cross slide	mm(in)	Ø480 (18.9")				Ø640 (25.19")				Ø720 (28.3")			
	Max turning diameter	mm(in)	Ø500 (19.68")				Ø720 (28.34")				Ø850 (33.4")			
	Working length	mm(in)	820 (32.28) 790 (31.10)	1580 (62.20) 1550 (61.02)	2340 (92.12) 2310 (90.94)	3100 (122.04) 3070 (120.86)	820 (32.28) 790 (31.10)	1580 (62.20) 1550 (61.02)	2340 (92.12) 2310 (90.94)	3100 (122.04) 3070 (120.86)	1200 (47.2)	1700 (66.1)	2200 (86.6)	3200 (126)
Spindle			TC-35 series		TC-35-B series		TC-40 series		TC-40-B series					
	Spindle nose	ISO	A2-8		A2-11		A2-8		A2-11		std:A2-11 / opt: A2-15 , A2-20			
	Spindle bore	mm(in)	Ø102(4)		Ø165(6.5)		Ø102(4)		Ø165(6.5)		std: Ø155 (6") opt:A2-15: Ø228 (9") /A2-20: Ø305 (12"), Ø355 (14")			
	Bar capacity	mm(in)	Ø89(3.5)		Ø116(4.56)		Ø89(3.5)		Ø116(4.56)		A2-11:Ø115 (4.5"), A2-15:135 (5"), A2-20: Ø205 (8")			
	Spindle speed (with zf gear box)	rpm	H: 2500 L:625		H: 1650 L:625		H: 2500 L:625		H: 1650 L:625		Spindle speed range depends on chuck size			
Chuck	Chuck size	mm(in)	std: 12"/opt: 15"		std. 15"/ opt. 18"		std: 12"/opt: 15"		std. 15"/ opt. 18"		Without (optional) 450 (18") 、610 (24") 、810 (32")			
Turret	Station	station	std. 10/ opt. 12		std. 10/ opt. 12		std. 10/ opt. 12		std. 10/ opt. 12		12			
	O.D.Tooling	mm(in)	std. 32 (1.25) / opt. 25 (1)		std. 32 (1.25) / opt. 25 (1)		std. 32 (1.25) / opt. 25 (1)		std. 32 (1.25) / opt. 25 (1)		□ 32 (1.25)			
	I.D.Tooling	mm(in)	Ø50 (2)		Ø50 (2)		Ø50 (2)		Ø50 (2)		Ø50 (2)			
X/Z Axis	X axis travel	mm(in)	250+25 (9.84+1)				360+25 (14.17 + 1)				425+25 (16.7+1)			
	Z axis travel	mm(in)	885 (34.84) 855 (33.66)	1645 (64.76) 1615 (63.58)	2405 (94.68) 2375 (93.50)	3165 (124.60) 3135 (123.42)	885 (34.84) 855 (33.66)	1645 (64.76) 1615 (63.58)	2405 (94.68) 2375 (93.50)	3165 (124.60) 3135 (123.42)	1250 (49.21)	1750 (68.89)	2250 (88.58)	3250 (127.95)
	X axis rapid traverse speed	m/min	12				12				12			
	Z axis rapid traverse speed	m/min	15				15				16			
	Cutting feed rate	mm/min	0.001 ~ 500				0.001 ~ 500				0.001 ~ 500			
Motor	Spindle (cont.)	kW(HP)	α 22i		22(29.5)		α 22i		22(29.5)		α 30i		30 (40)	
	Spindle(30 min.)	kW(HP)			26(34.9)				26(34.9)				37 (49)	
	X axis	kW(HP)	α 22Bi- 4(5.3)				α 22Bi- 4(5.3)				α 22Bi- 4 (5.3)			
	Z axis	kW(HP)	α 22i- 4(5.3)				α 22i- 4(5.3)				α 30i- 7 (9.3)			
	Hydraulic pump	kW(HP)	2.2(3)				2.2(3)				3.75 (5)			
	Coolant pump	kW(HP)	0.75(1)				0.75(1)				0.75 (1)			
Tailstock	Type	–	std: manual / opt.: programmable				std: manual / opt.: programmable				Programmable			
	Trailstock stravel	mm(in)	780 (30.7)	1540 (60.62)	2300 (90.55)	3060 (120.47)	780 (30.7)	1540 (60.62)	2300 (90.55)	3060 (120.47)	850 (33.4")	1450 (57")	1950 (76.7")	2950 (116.1")
	Quill type	–	std. stable				std. stable				Std:stable , Opt:revolve			
	Quill stroke	mm(in)	100 (3.94)				100 (3.94)				200 (7.8)			
	Quill dia.	mm(in)	Ø110 (4.33)				Ø110 (4.33)				Ø200 (7.8)			
	Taper of center	MT	NO.5				NO.5 for dead quill / NO.4 for live quill				NO.6			
Tank Capacity	Hydraulic	Litres	80				80				80			
	Coolant tank	Litres	140	200	260	320	140	200	260	320	230	265	295	360
Dimension	L x w x h	mm(in)	5304×2130×2235	6064×2130×2235	6824×2130×2235	7584×2130×2235	5304×2130×2235	6064×2130×2235	6824×2130×2235	7584×2130×2235	6160×2230×2445	6660×2230×2445	7160×2230×2445	8160×2230×2445
			208.81×83.85×88	238.74×83.85×88	268.66×83.85×88	298.58×83.85×88	208.81×83.85×88	238.74×83.85×88	268.66×83.85×88	298.58×83.85×88	242.5×87.7×96.2	262.2×87.7×96.2	281.8×87.8×96.2	321×87.7×96.2
	Nw/gw	kgs	8870/9550	11300/12300	13700/15700	16000/18000	to be advised				14200/15000	14950/15850	15700/16700	17200/18400

※ B series is with bigger spindle bore.
※ Working length / spindle speed will be effected when spindle and chuck are different.
※ L&W Machine Tools, Inc. reserves the right to alter any mechanical specification without prior notice.