

LS Series

LS-800 / LS-800M / LS-800Y
LS-1000 / LS-1000M / LS-1100

Extra Heavy Duty CNC Turning Center



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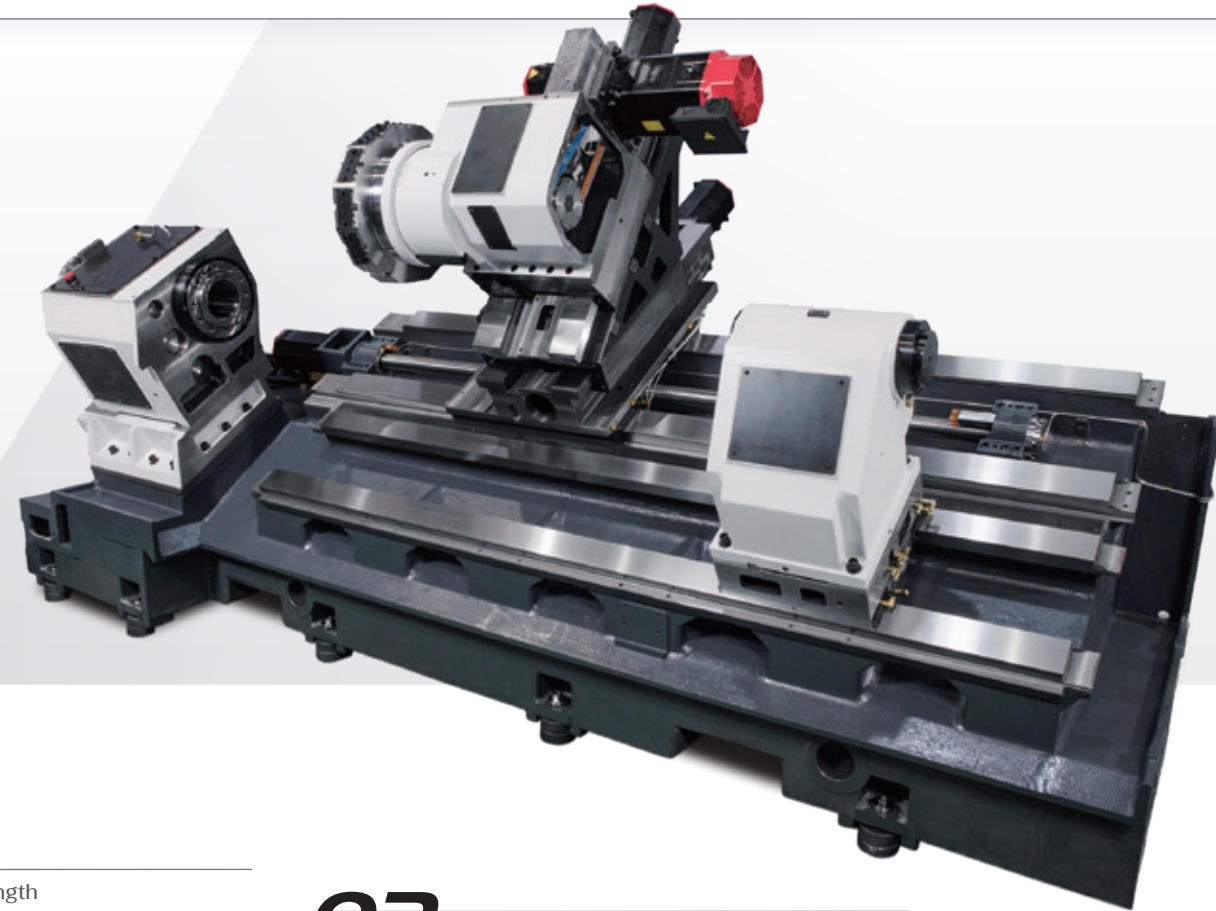
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LS series

LS SERIES is a large swing horizontal turning center with strong structure for super heavy cutting applications, big spindle bore supports big diameter parts machining, with various lengths.



01 Workpiece Size

Model	Max. Turning Dia.	Max. Turning Length				
		L10	L15	L20	L30	L40
LS-800B	29.92"	43.29"	62.97"	82.66"	122.03"	-
LS-800C	29.92"	41.32"	61.00"	80.69"	120.06"	-
LS-800MB	26.77"	38.87"	58.56"	78.24"	117.61"	-
LS-800MC	26.77"	36.90"	56.59"	76.27"	115.64"	-
LS-800YB	23.62"	36.43"	-	78.80"	115.17"	-
LS-800YC	23.62"	34.46"	-	73.83"	113.20"	-
LS-1000	35.43"	40.62"	60.30"	79.99"	119.36"	-
LS-1000M	33.46"	38.06"	57.74"	77.43"	116.80"	-
LS-1100	35.43"	-	-	83.66"	119.09"	176.18"

02 Specification Options

Model	Chuck Size (inch)	Machining Range				
		L10	L15	L20	L30	L40
LS-800	15" (18") (20")	●	●	●	●	-
LS-800M	15" (18") (20")	●	●	●	●	-
LS-800Y	15" (18") (20")	●	-	●	●	-
LS-1000	20" (24")	●	●	●	●	-
LS-1000M	20" (24")	●	●	●	●	-
LS-1100	24" (28") (32")	-	-	●	●	●

LS-800L10



LS-1000L10



LS-1100L30



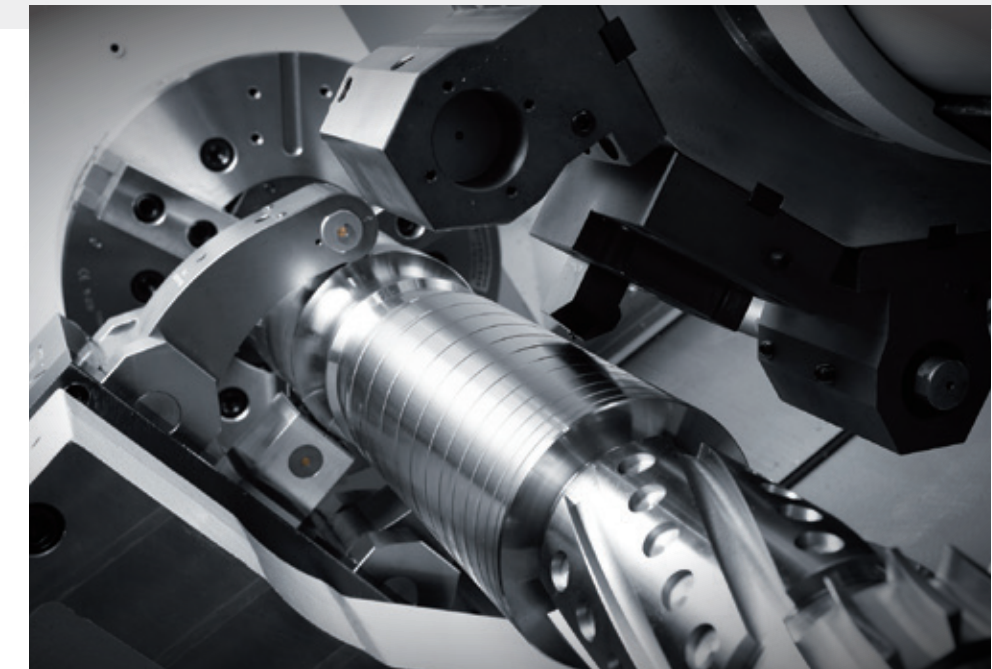
45 degree slant bed design provides optima machining performance.

The box guide slideways are hardened by induction heat treatment which supports the best hardness of rigidity structure.

High rigid spindle structure supports resistance to deformation, powerful machining capability and solid durability.

Taiwan Takisawa home-made heavy duty turret provides rapid positioning feature.

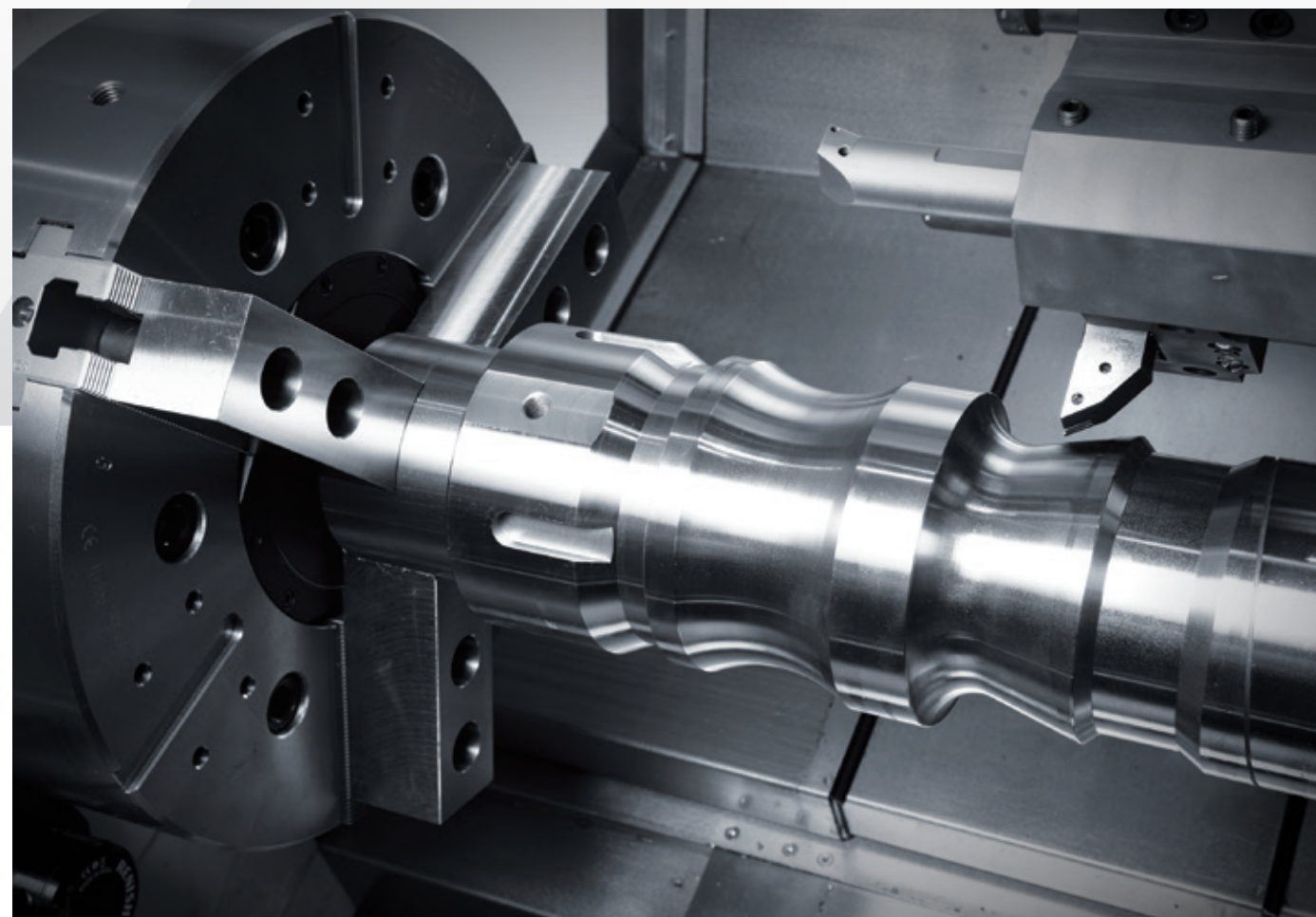
The 2-step gear box provides extra high torque during low speed machining for outstanding heavy cutting performance.



Spindle

Taiwan Takisawa home-made spindle equipped with high quality bearings sourced from Europe and Japan. The spindle is assembled by finely bored cast iron housing in air-conditioned clean room. The Design and precision assembly ensure high accuracy and optimum capability coupled with easy maintenance and low cost for service.

All models equipped with gearbox, the gears are all with 0-grade fine ground precision. The gearbox allows cutting at high torque in low speed range, combined with a highly accurate finish surface.



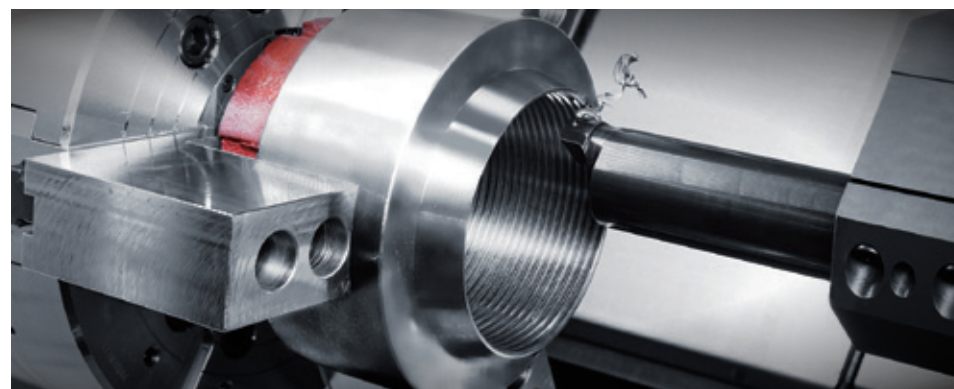
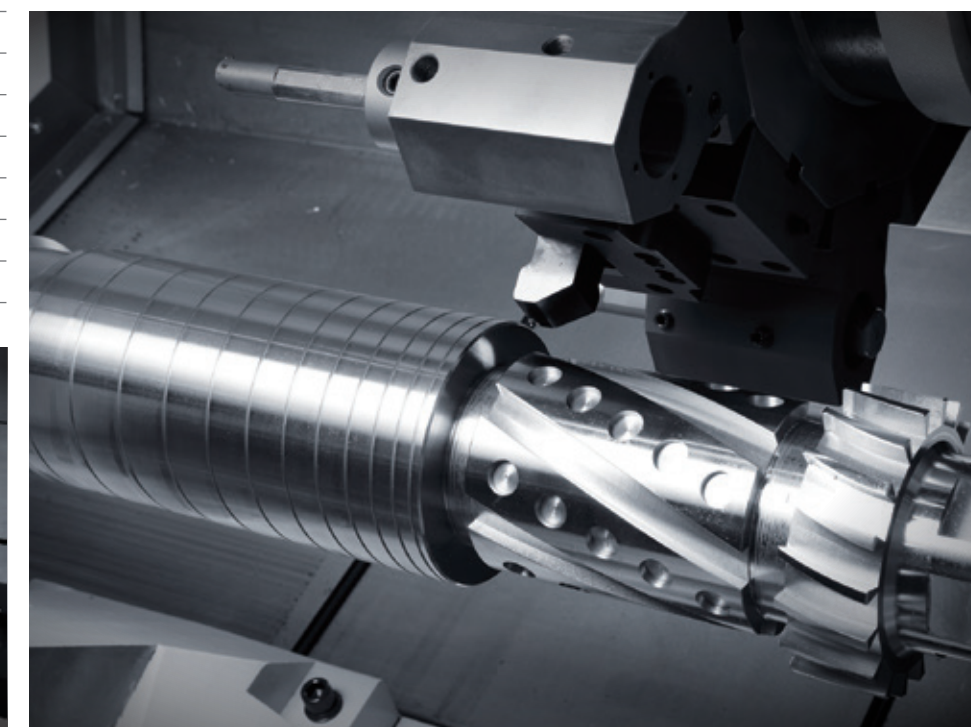
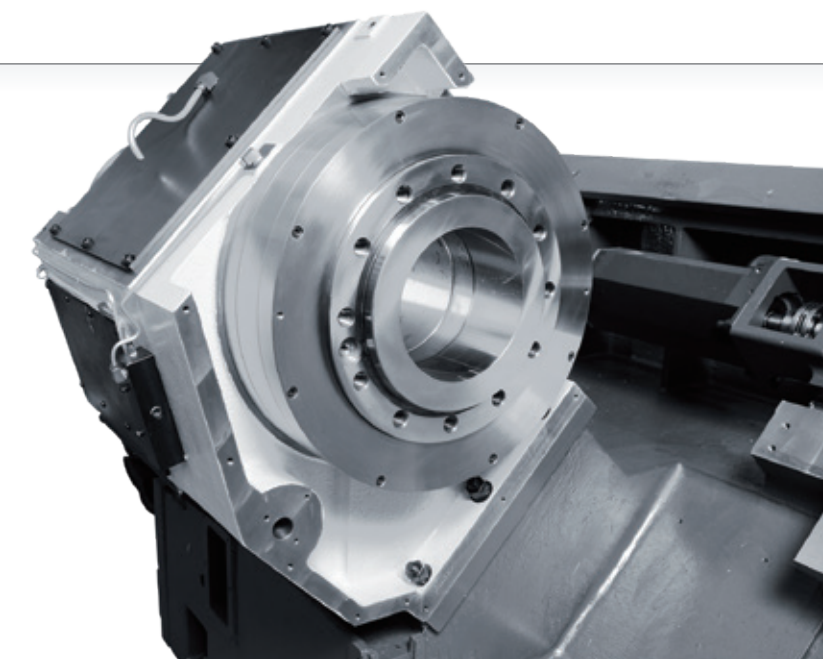
— Home-made Gearbox

Max. Bar Capacity

Model	Chuck Size (inch)	Bar Capacity	
LS-800B / LS-800MB / LS-800YB	15" (18")	Ø4.53	Inch
LS-800C / LS-800MC / LS-800YC	18" (20")	Ø7.09	Inch
LS-1000 / LS-1000M	20" (24")	Ø7.09	Inch
LS-1100	24" (28") (32")	Front: Ø10 / Through: Ø8.07	Inch

Max. Spindle Torque

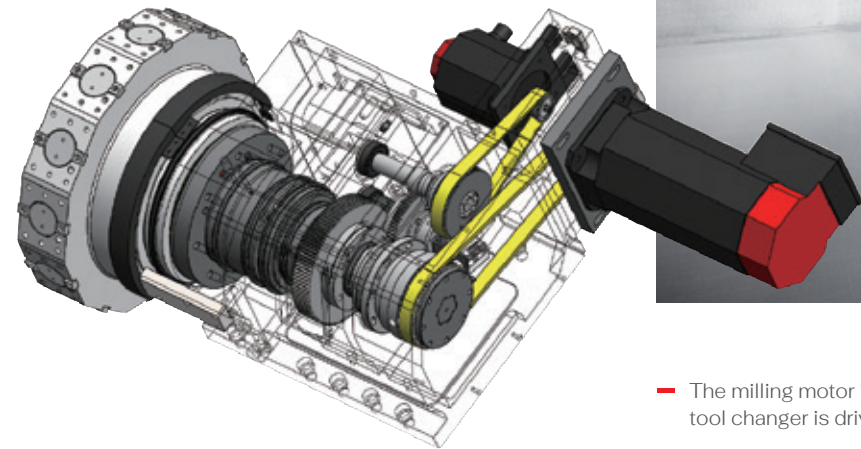
Model	Spindle Motor Spec.	Max. Spindle Speed	Max. Spindle Torque (S3 25%)
LS-800B / LS-800MB / LS-800YB	$\alpha 22$	2000 rpm	1344 ft-lbf
LS-800B / LS-800MB / LS-800YB	$\alpha 30$	2000 rpm	2517 ft-lbf
LS-800C / LS-800MC / LS-800YC	$\alpha 30$	1200 rpm	2915 ft-lbf
LS-800C / LS-800MC / LS-800YC	$\alpha 40$	1200 rpm	2807 ft-lbf
LS-1000 / LS-1000M	$\alpha 30$	1200 rpm	2915 ft-lbf
LS-1000 / LS-1000M	$\alpha 40$	1200 rpm	2807 ft-lbf
LS-1100	$\alpha 40$	900 rpm	6571 ft-lbf
LS-1100	$\alpha 50$	900 rpm	10144 ft-lbf



Turret

The high performance turrets are also home-made by Taiwan Takisawa, the two-piece high precision coupling provides not only high clamping force, but also rapid and accurate indexing. It's easy to calibrate positioning in both the CW and CCW direction.

We can provide a customised needs assessment for special needs regarding numbers of tools, tool holders, milling cutters etc.

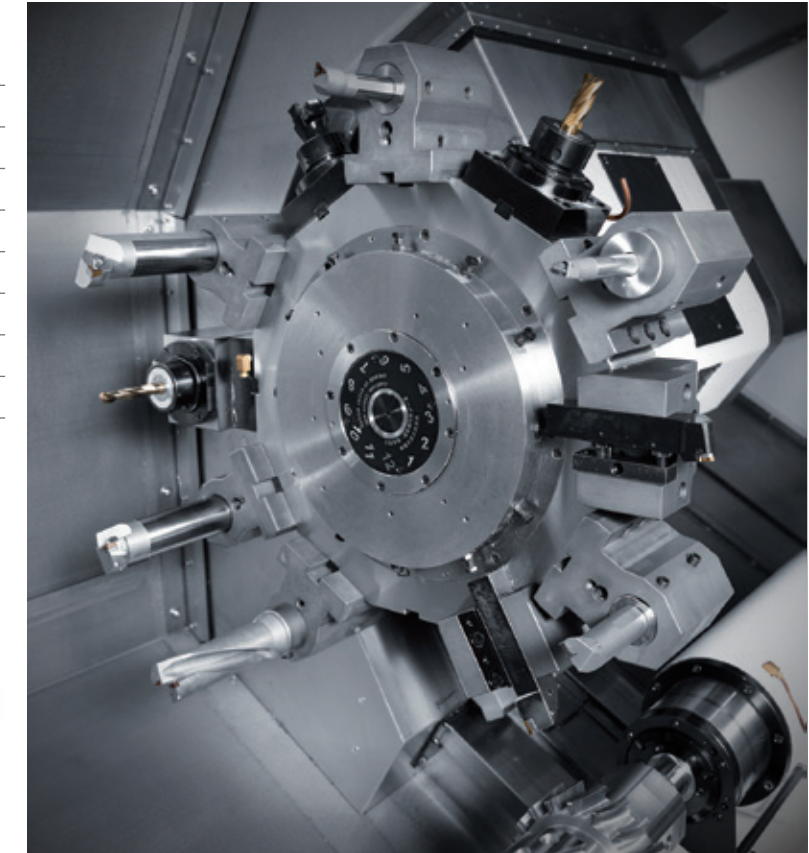
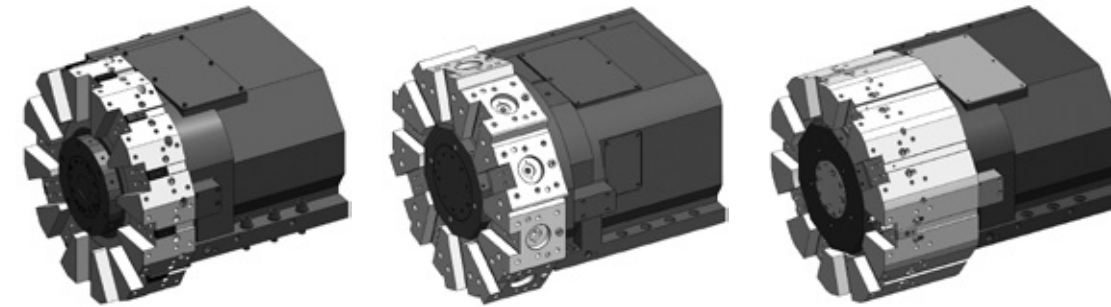


The milling motor is driven by a spindle motor and the tool changer is driven by a servo motor.

Turret

Number of Tools	T10	T12	T8	T10	T12	T10	T8	
Width of Turret	20.47	20.47	23.23	23.23	23.23	31.50	26.38	Inch
Thickness of Turret	5.20	5.20	6.50	6.50	6.50	7.87	11.81	Inch
Boring Bar Shank Diameter	2 / 2.5	2 / 2.5	2.5	2.5	2.5	2.5	2.5	Inch
OD of Curvic Coupling	11.02	11.02	14.17	14.17	14.17	18.11	18.11	Inch
LS-800	●	◎	◎	◎	◎	-	-	
LS-1000	-	-	◎	●	◎	-	-	
LS-1100	-	-	-	-	-	●	◎	

● Standard ◎ Optional - Nope



T12 Power Turret

Special Tool Holders



01

Gear Hobbing



02

Broaching



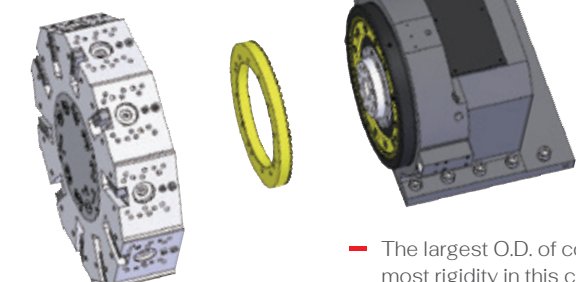
03

Power Skiving



04

Adjustable Angle Milling

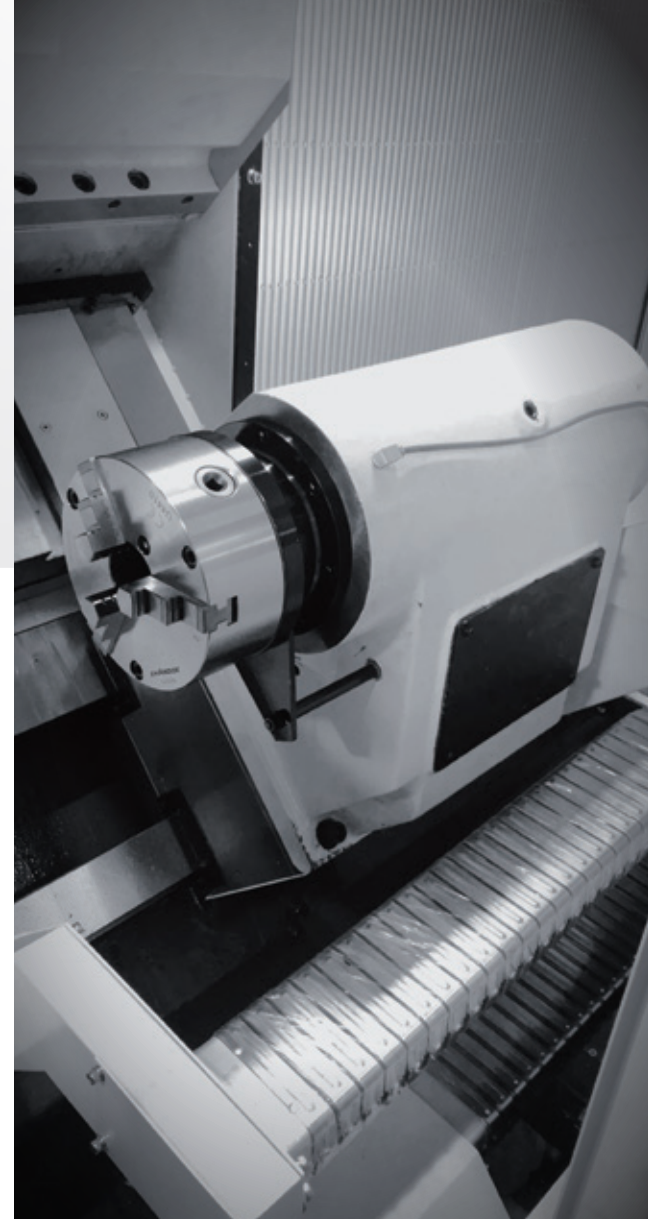
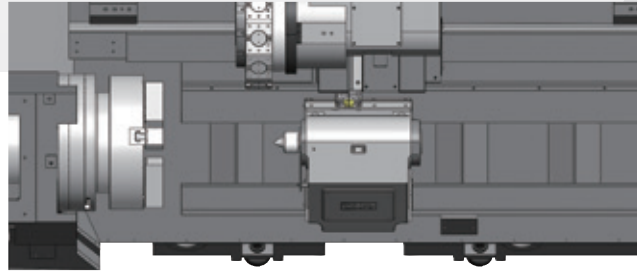
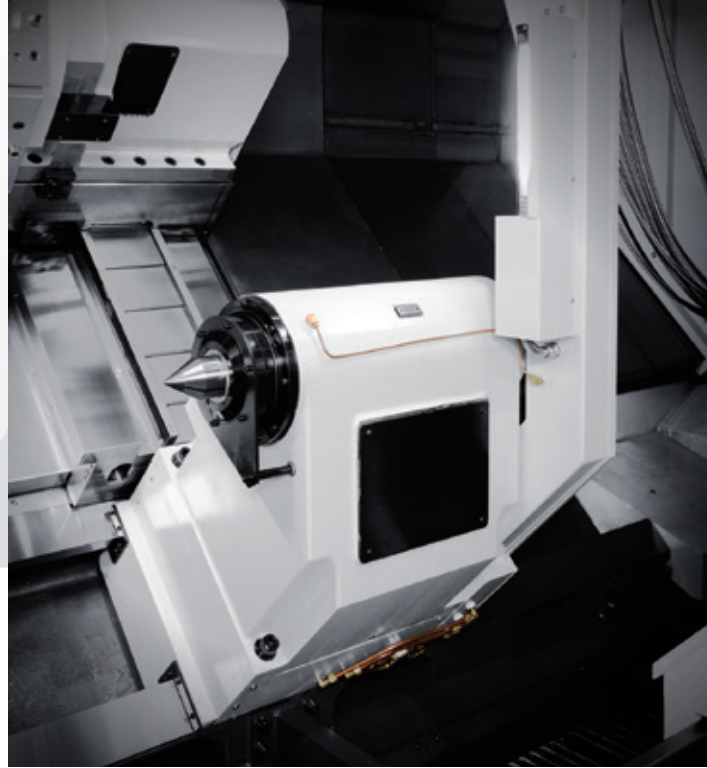


The largest O.D. of coupling and most rigidity in this class.

Tailstock

Taiwan Takisawa home-made tailstock with high thrust and strong clamping force ensures maximum stability especially when working with long workpieces. The movement of tailstock body is carried by turret with easy positioning feature, the tailstock quill is available in fixed and rotary versions and the tailstock is pushed by hydraulic.

Special needs such as thrust size or quill form etc. can be assessed if customization is required.



— Sub Spindle Type Tailstock

Hydraulic Tailstock

● Standard ◎ Optional - Nope

Model	Tailstock Type	Tapered Bore Type	Tailstock Spindle Diameter	Tailstock Spindle Travel	Max. Thrust of Tailstock Spindle	
LS-800 / LS-800M / LS-800Y	Live Center	MT.5	Ø4.92 inch	4.72 inch	2860 lbf	●
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø5.91 inch	4.72 inch	2860 lbf	◎
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø5.91 inch	8.66 inch	2860 lbf	◎
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø5.91 inch	11.81 inch	5720 lbf	◎
LS-1000 / LS-1000M	Built-In Center	MT.6	Ø7.09 inch	5.91 inch	2860 lbf	●
LS-1000 / LS-1000M	Built-In Center	MT.6	Ø7.09 inch	8.66 inch	5720 lbf	◎
LS-1100	Built-In Center	MT.6	Ø7.87 inch	5.91 inch	5720 lbf	●

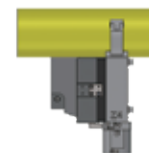
Hydraulic Steady Rest

Hydraulic Steady Rest	Centering Range	LS-800	LS-1000	LS-1100
SMW SLU-Z-3	Ø0.47 ~ Ø5.98 Inch	◎	-	-
SMW SLU-Z-3.1	Ø0.79 ~ Ø6.50 Inch	◎	-	-
SMW SLU-Z-3.2	Ø1.97 ~ Ø7.87 Inch	◎	-	-
SMW SLU-Z-4	Ø1.18 ~ Ø9.65 Inch	◎	◎	-
SMW SLU-Z-5	Ø1.77 ~ Ø12.20 Inch	◎	◎	◎
SMW SLU-Z-5.1	Ø3.35 ~ Ø13.78 Inch	◎	◎	◎
SMW SLU-Z-6	Ø4.92 ~ Ø18.11 Inch	-	-	◎
SMW SR-Z-4	Ø1.18 ~ Ø9.65 Inch	◎	-	-
SMW K-Z-6	Ø5.31 ~ Ø18.11 Inch	-	-	◎

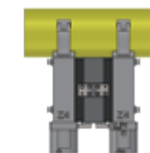
● Standard ◎ Optional - Nope

Manual Steady Rest

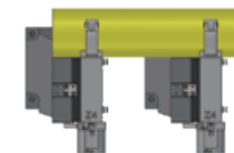
Model	Type	Centering Range
LS-800	Pass Thru	Ø1.97 ~ Ø13.78 Inch
	Pass Thru	Ø3.54 ~ Ø19.69 Inch
	Full Wrap	Ø7.87 ~ Ø20.47 Inch
	Full Wrap	Ø1.97 ~ Ø11.81 Inch
LS-1000	Full Wrap	Ø0.98 ~ Ø11.81 Inch
	Pass Thru	Ø1.97 ~ Ø13.78 Inch
	Pass Thru	Ø3.54 ~ Ø19.69 Inch
LS-1100	Two-point Support	Ø25.59 ~ Ø31.10 Inch
	Pass Thru	Ø1.97 ~ Ø13.78 Inch



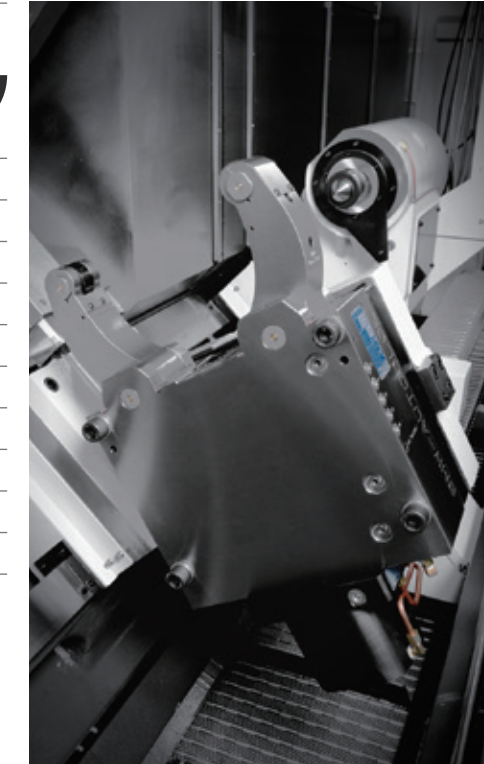
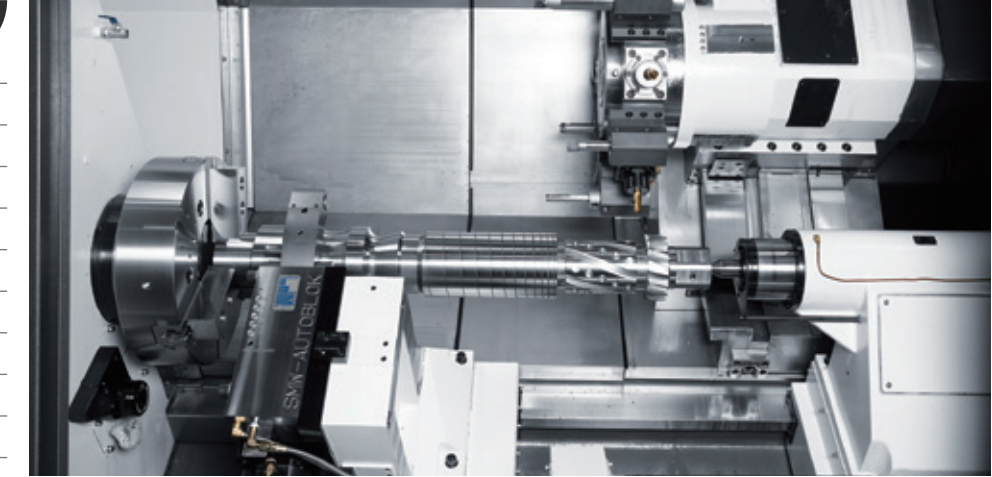
SINGLE



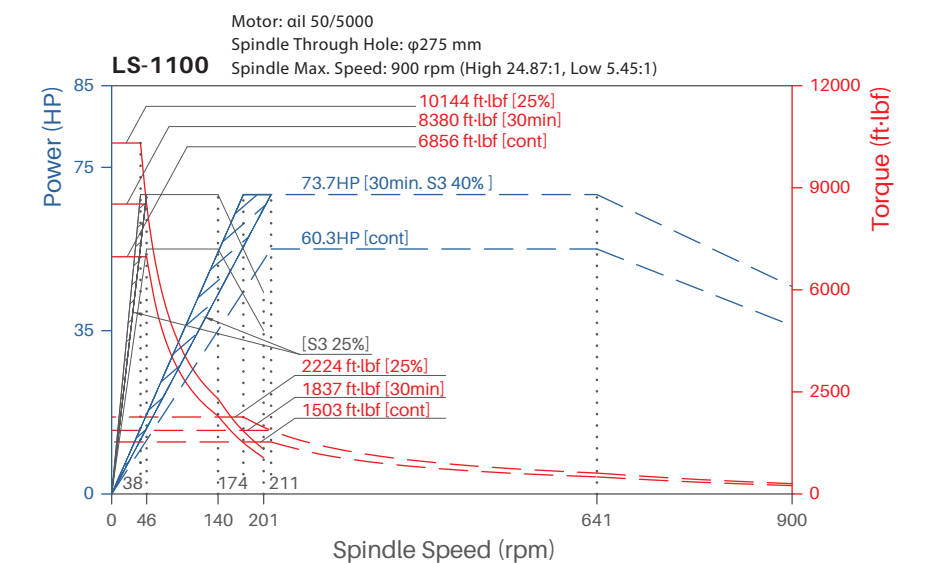
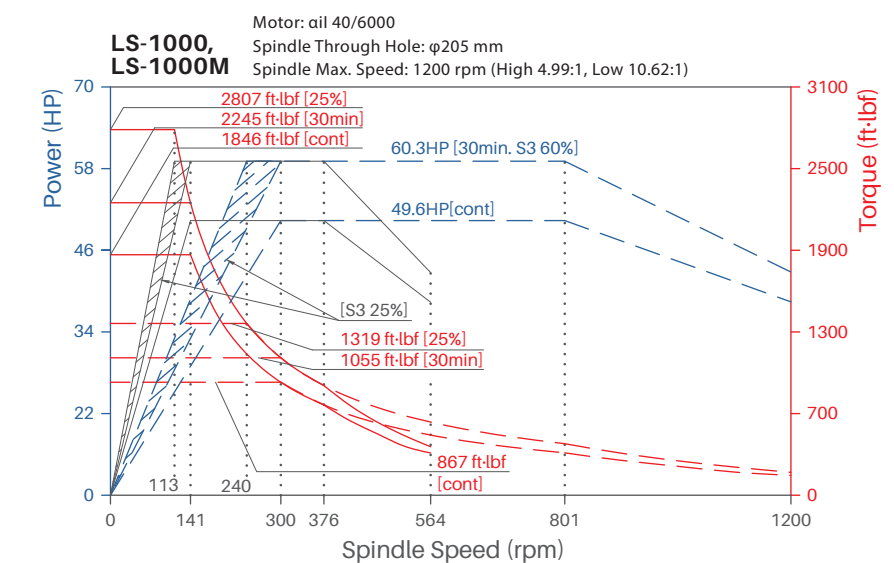
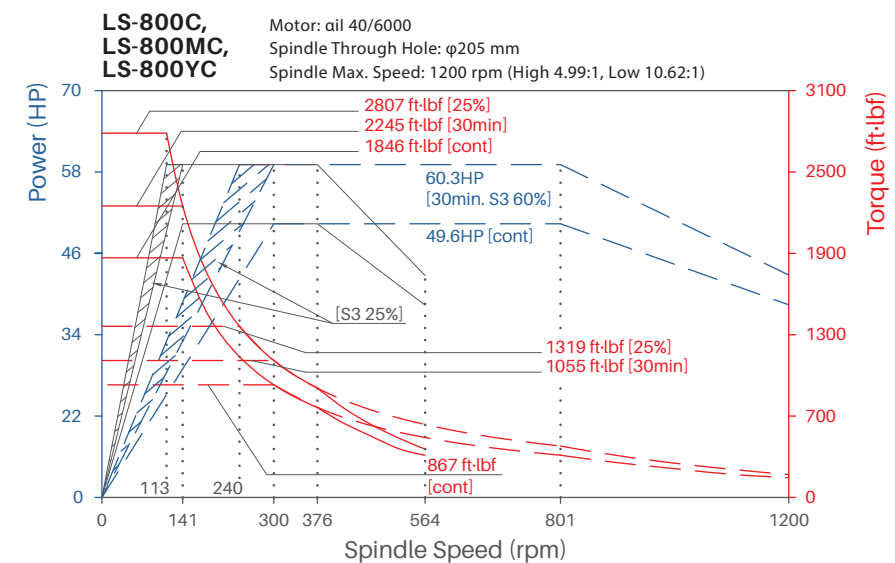
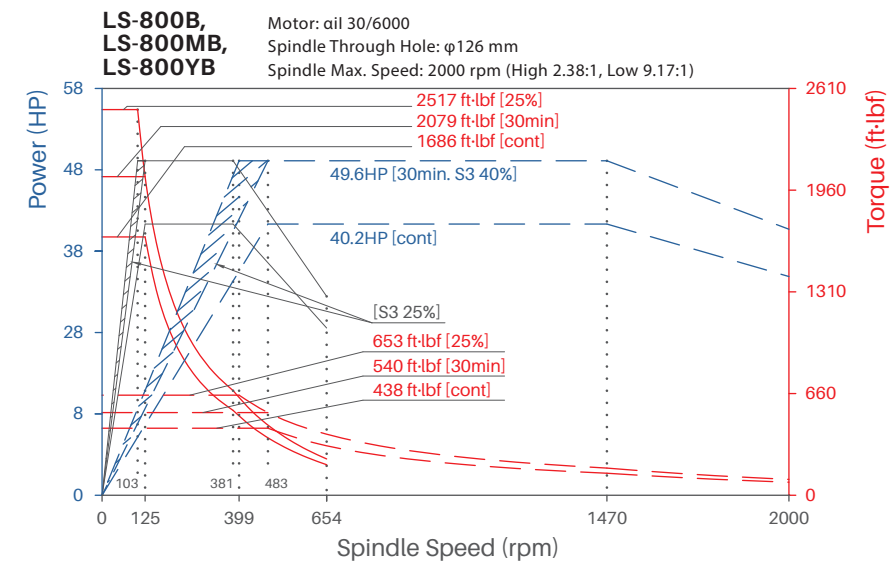
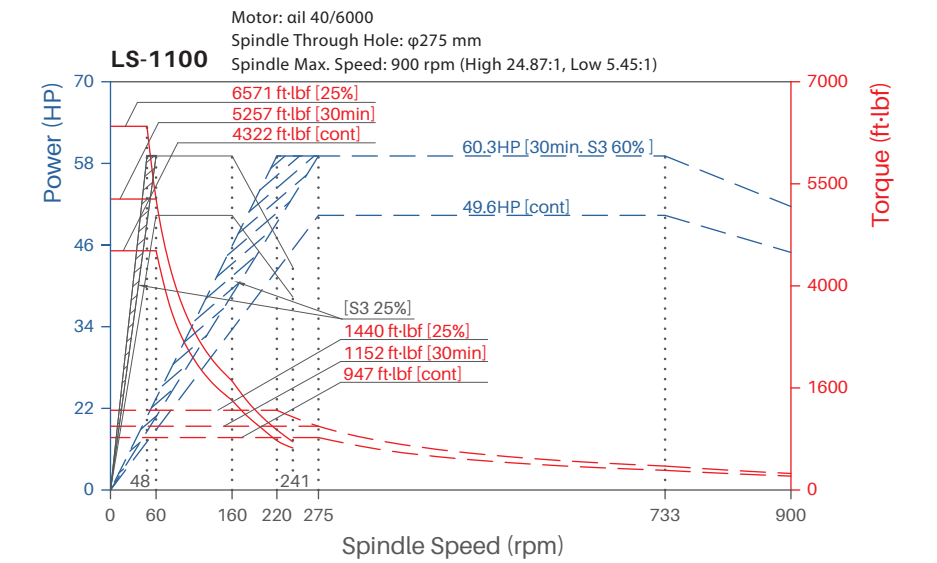
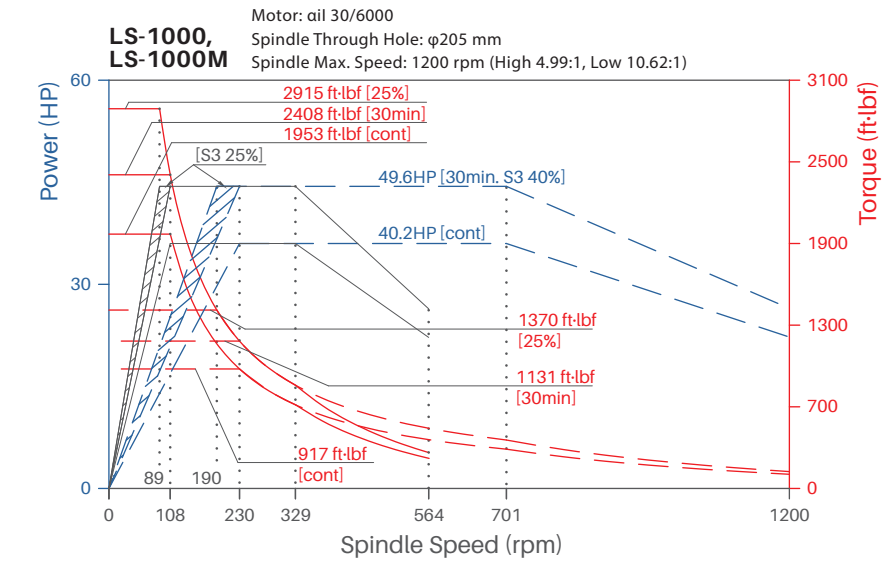
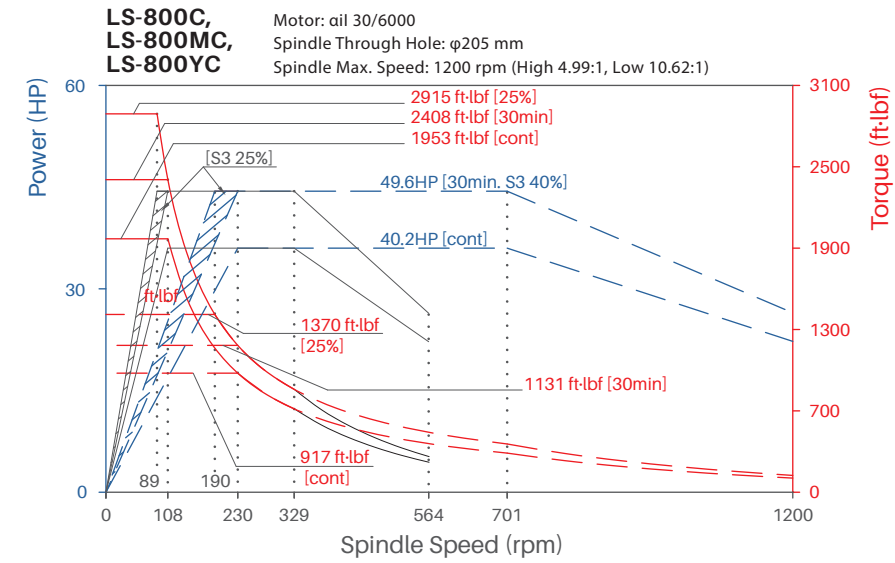
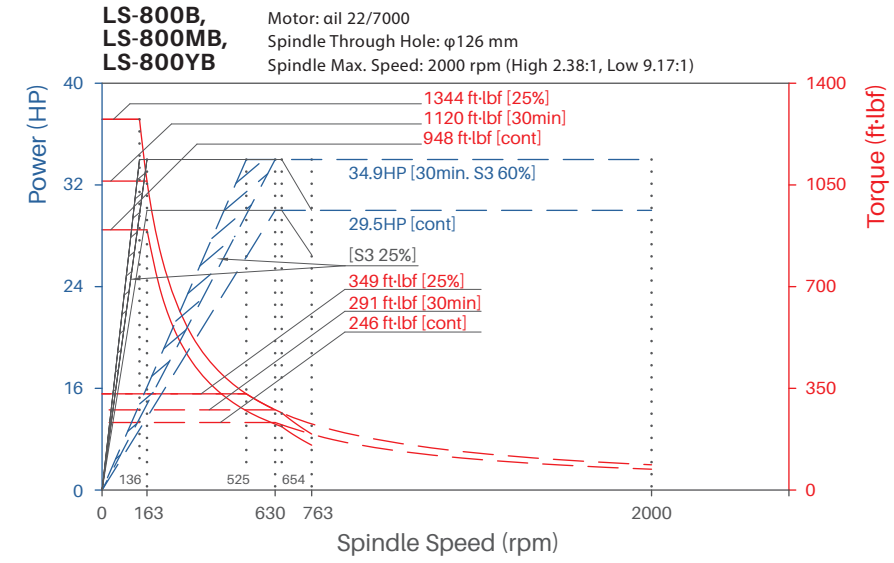
DOUBLE



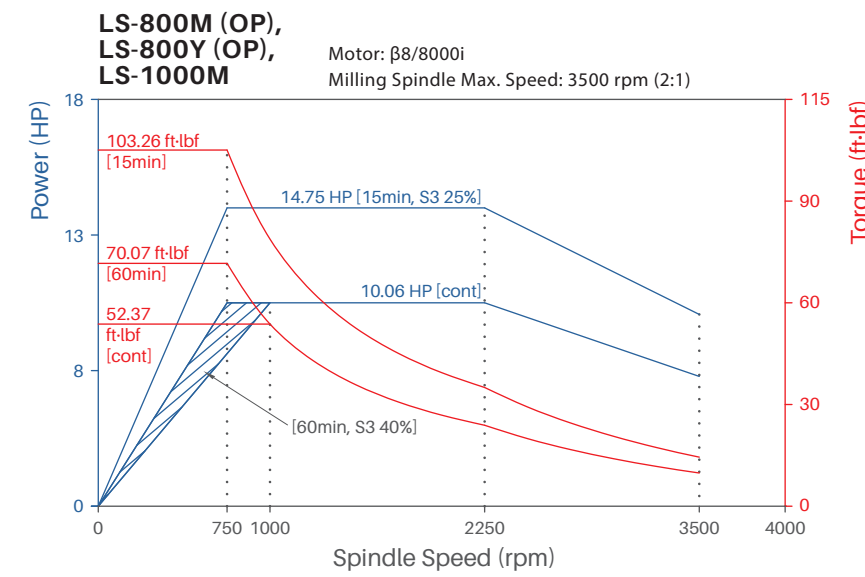
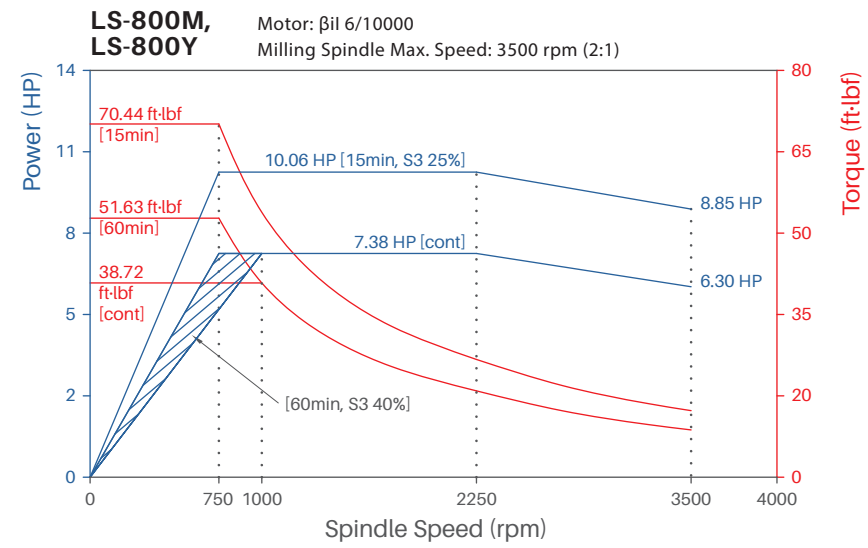
TWIN



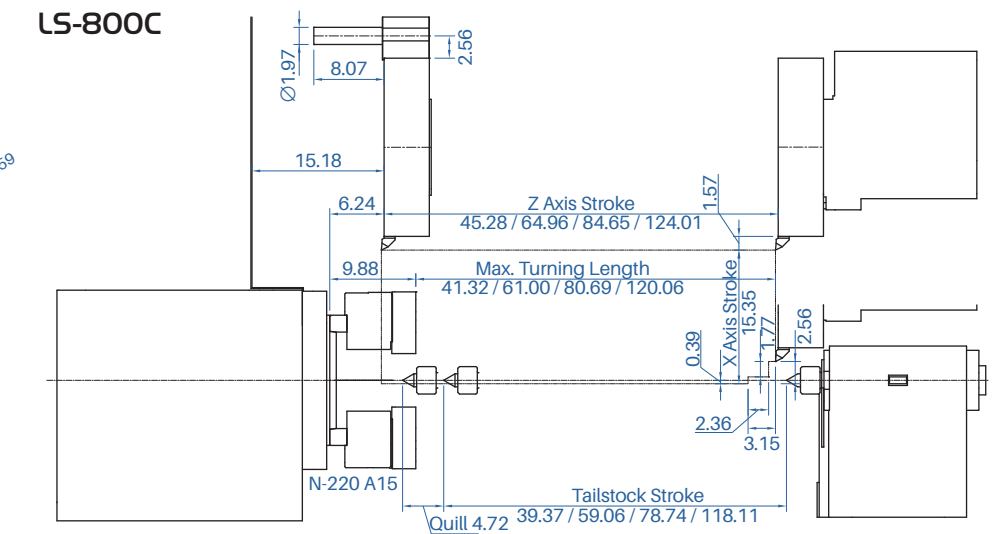
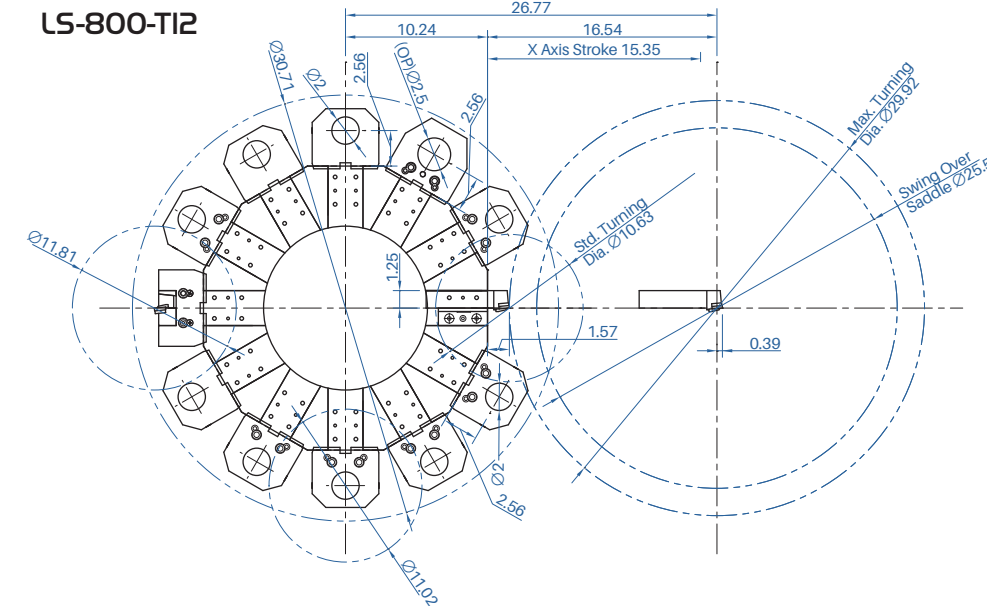
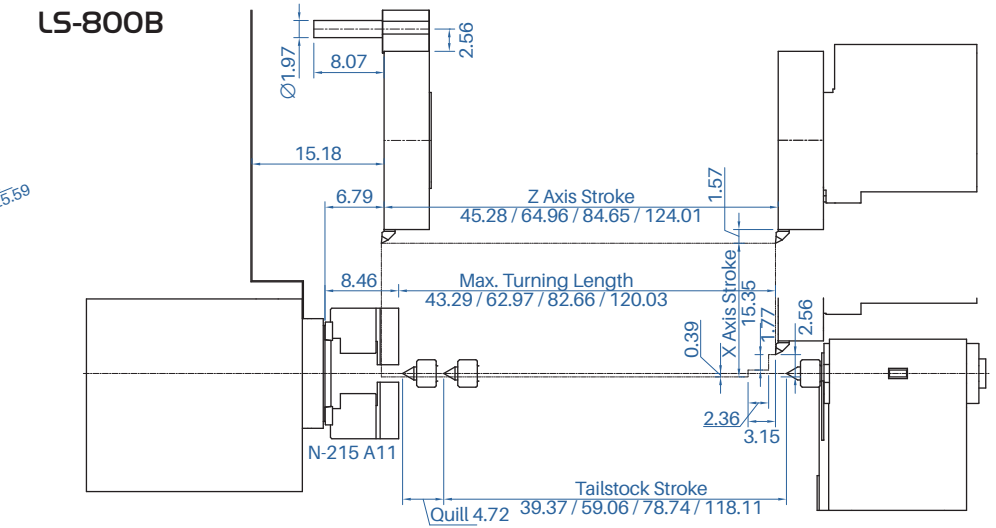
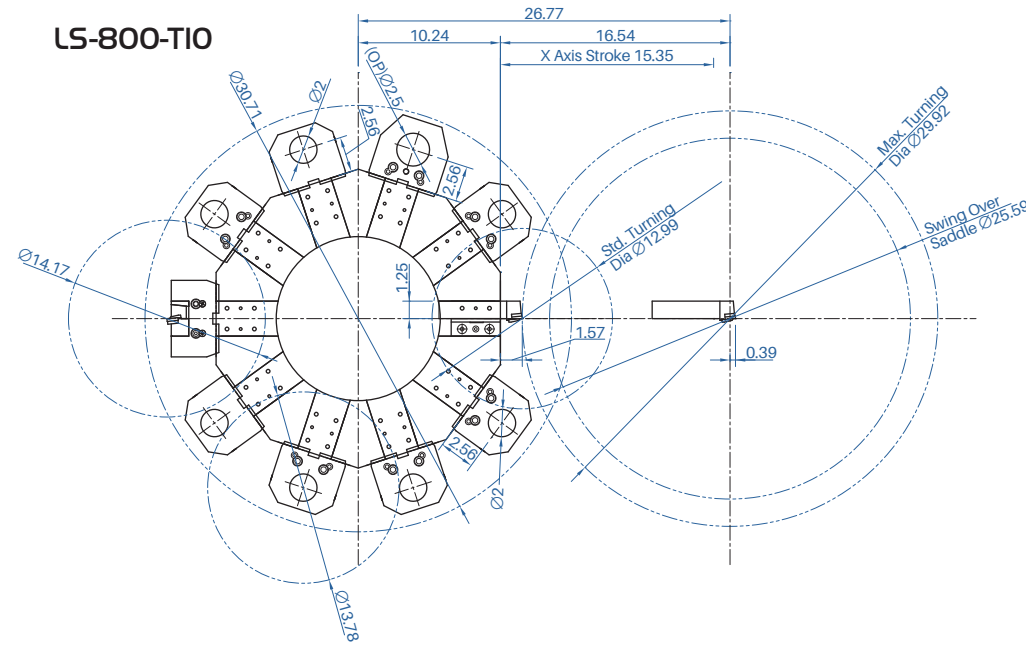
Spindle Output Diagram



Milling Output Diagram

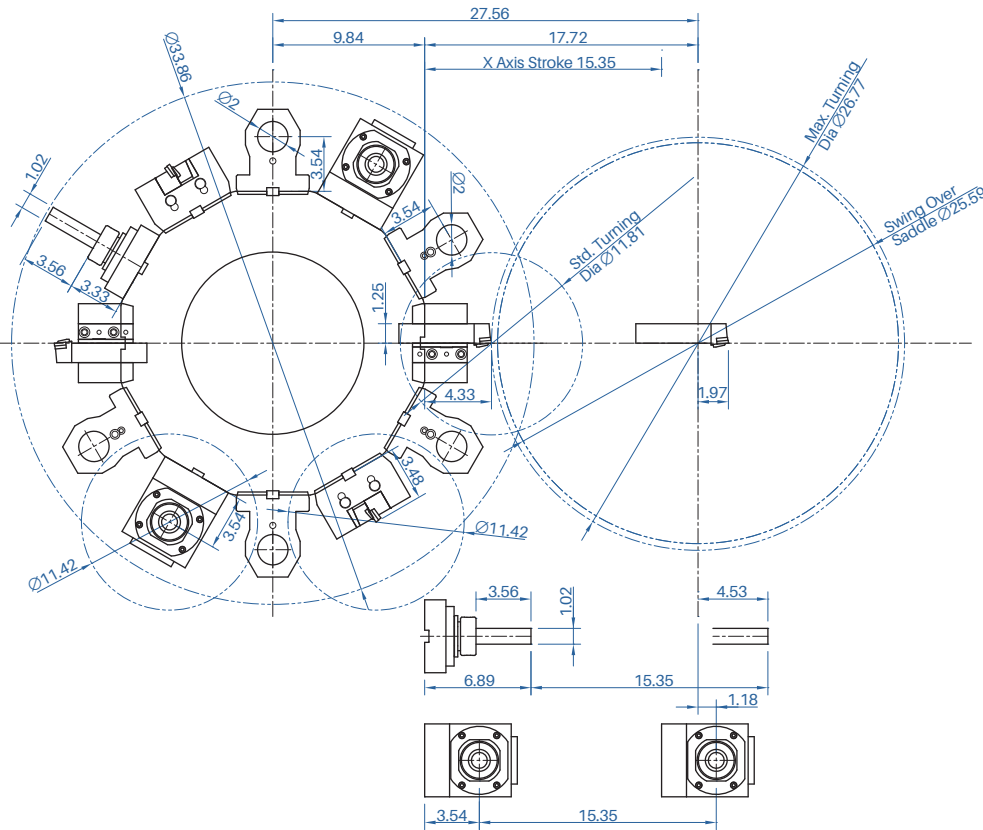


Interference & Travel Range

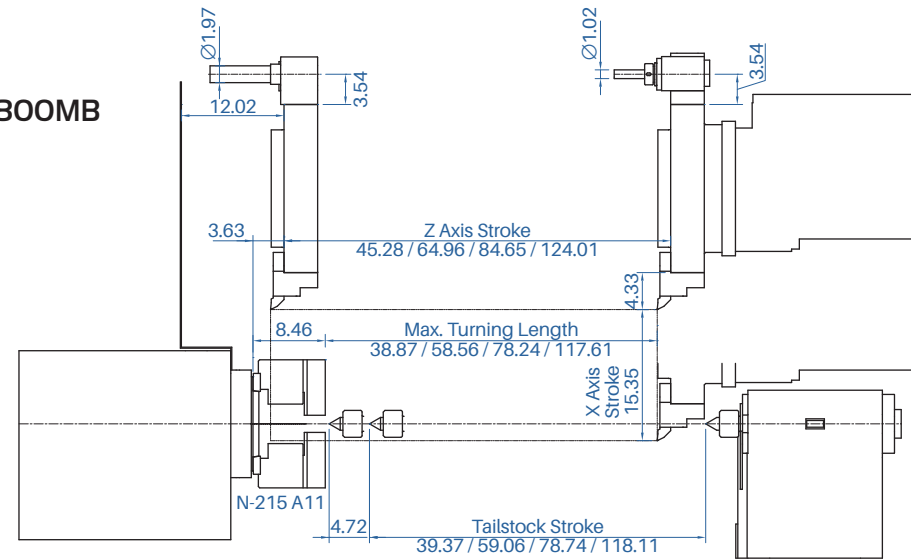


Interference & Travel Range

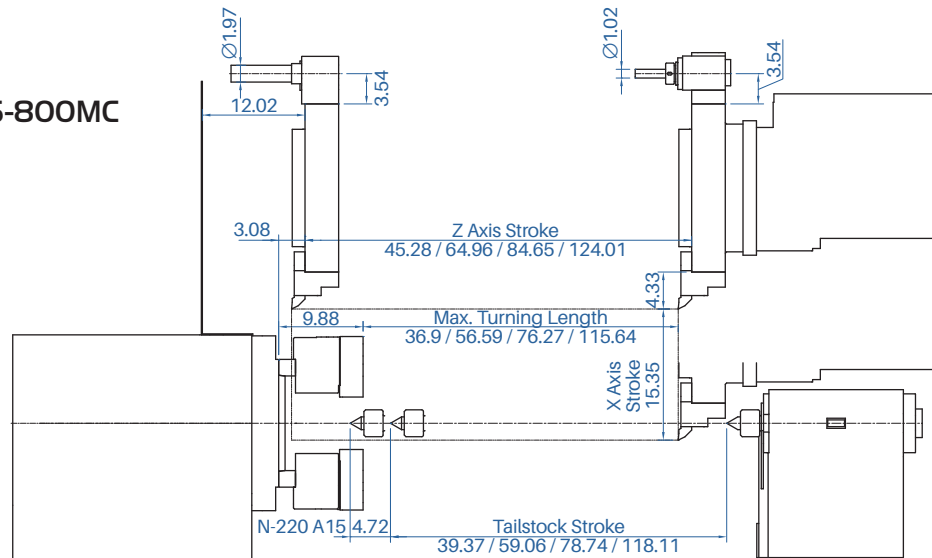
LS-800M-TI2



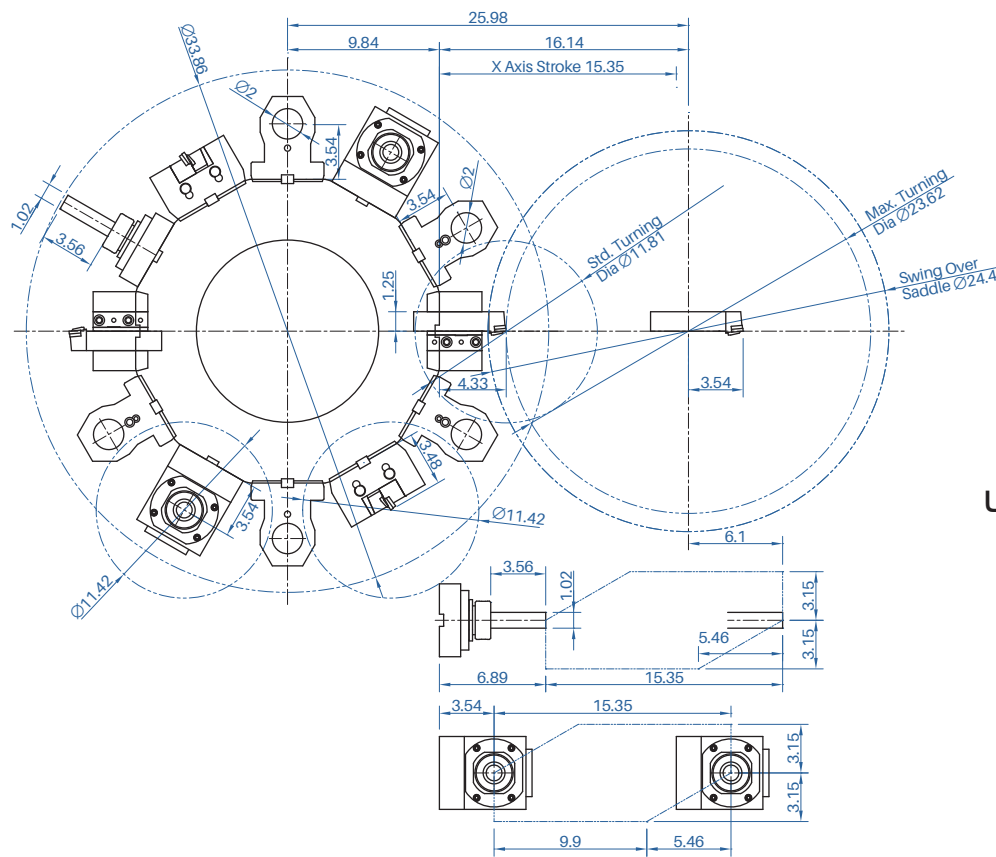
LS-800MB



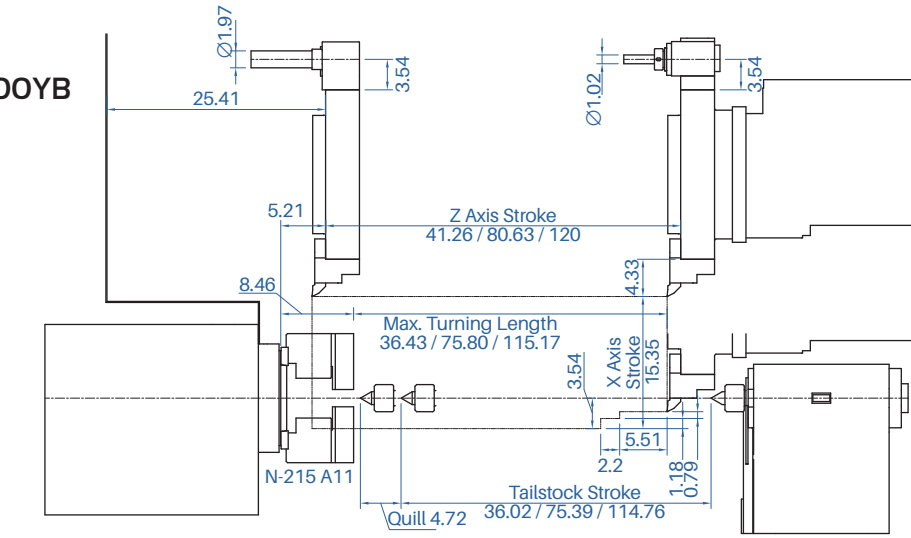
LS-800MC



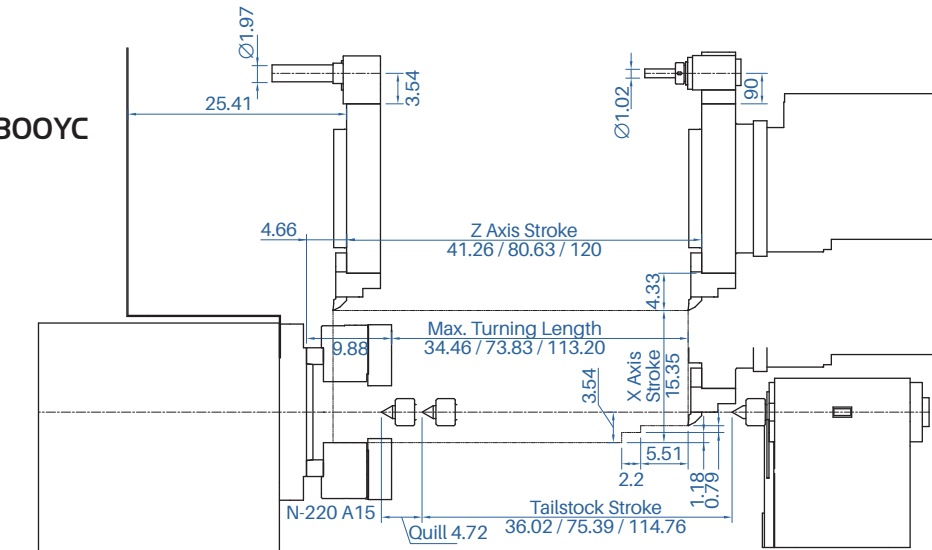
LS-800Y-TI2



LS-800YB

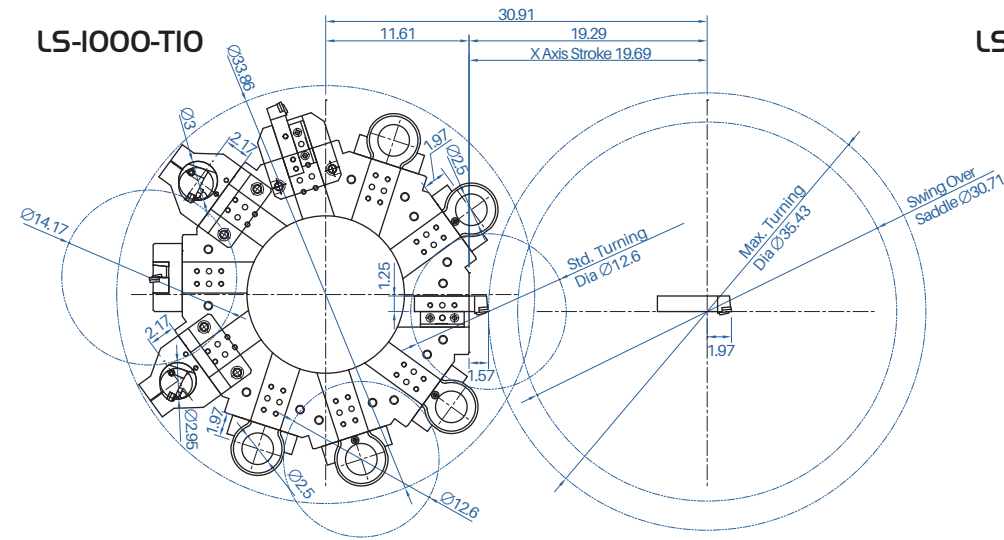


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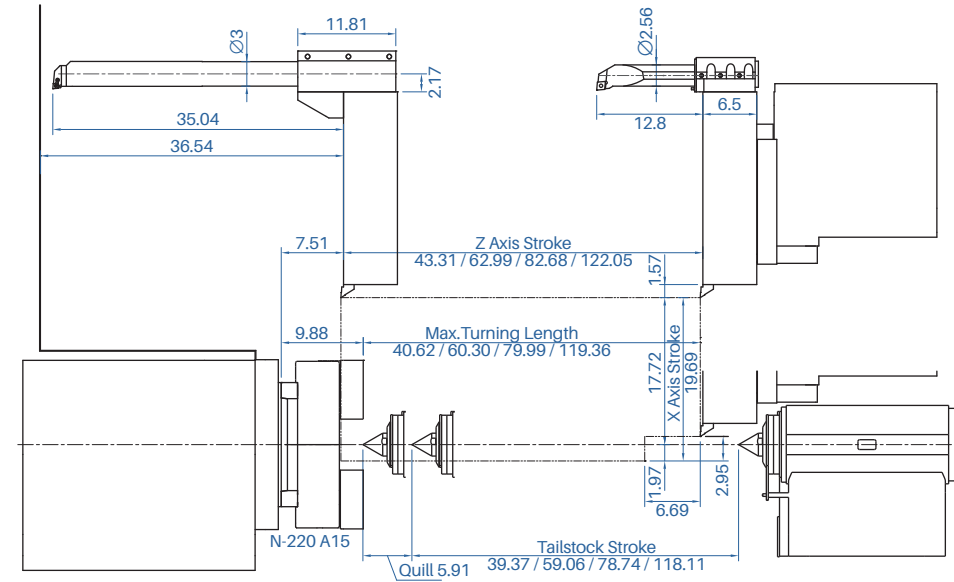


Interference & Travel Range

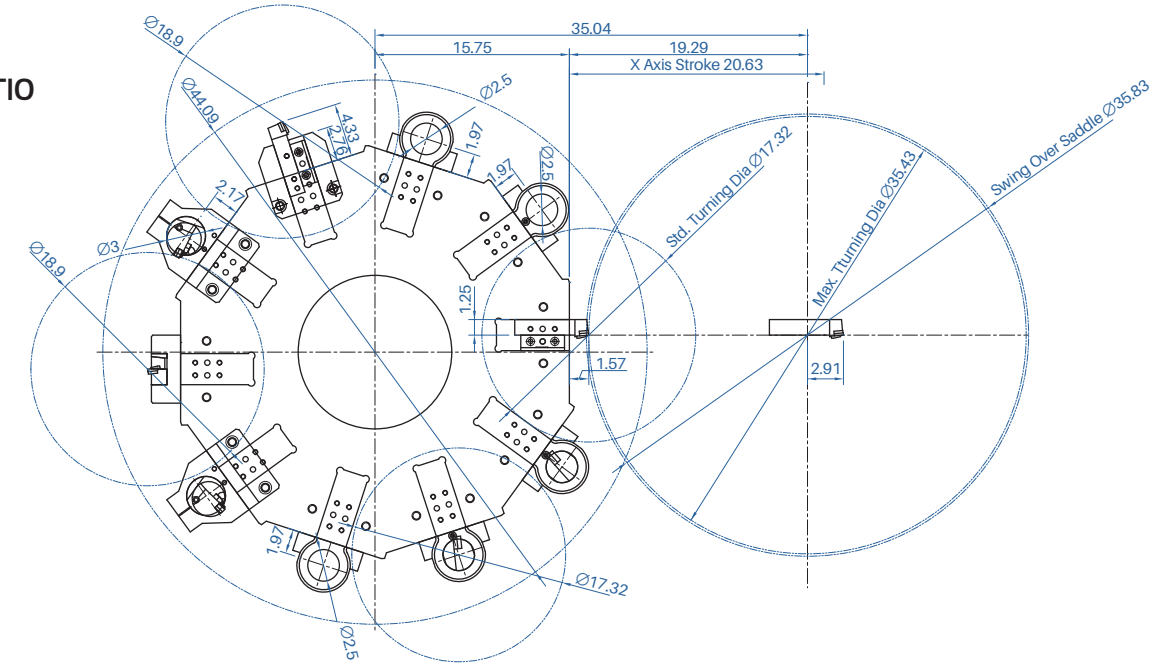
LS-1000-T10



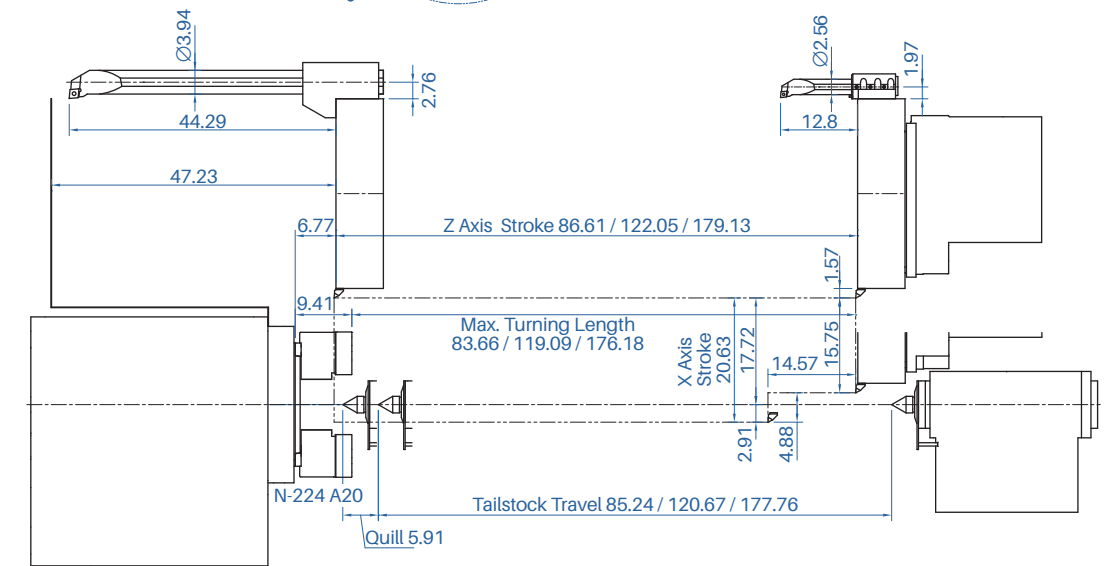
LS-1000



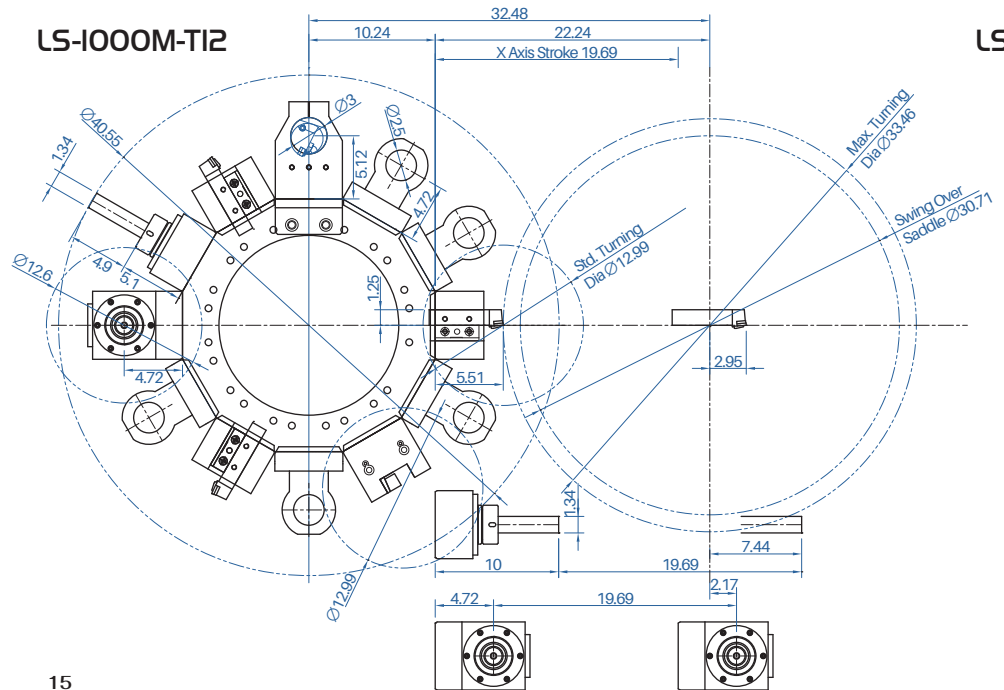
LS-1100-T10



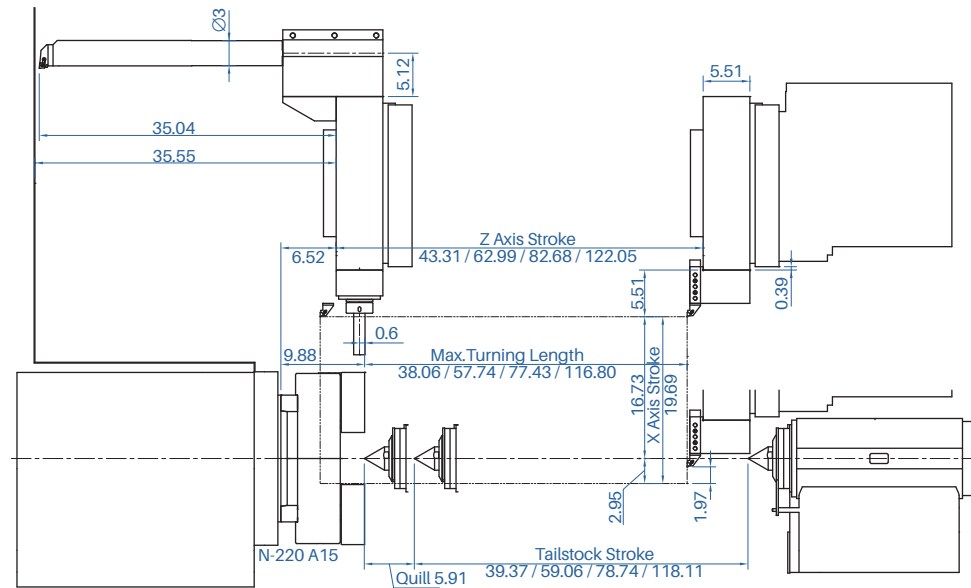
LS-1100



LS-1000M-T12

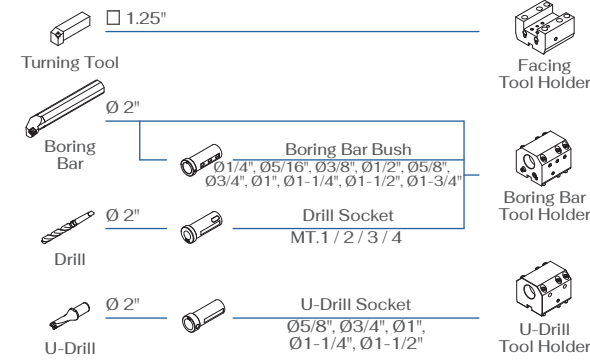


LS-1000M

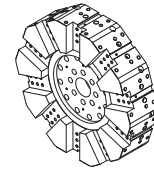


Tooling System

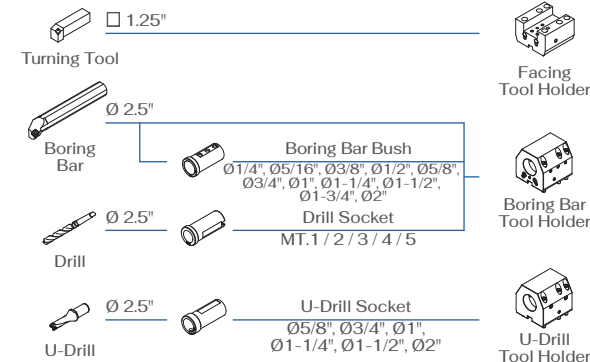
LS-800 T10/T12



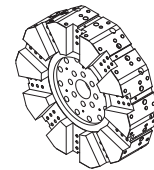
T10 / T12



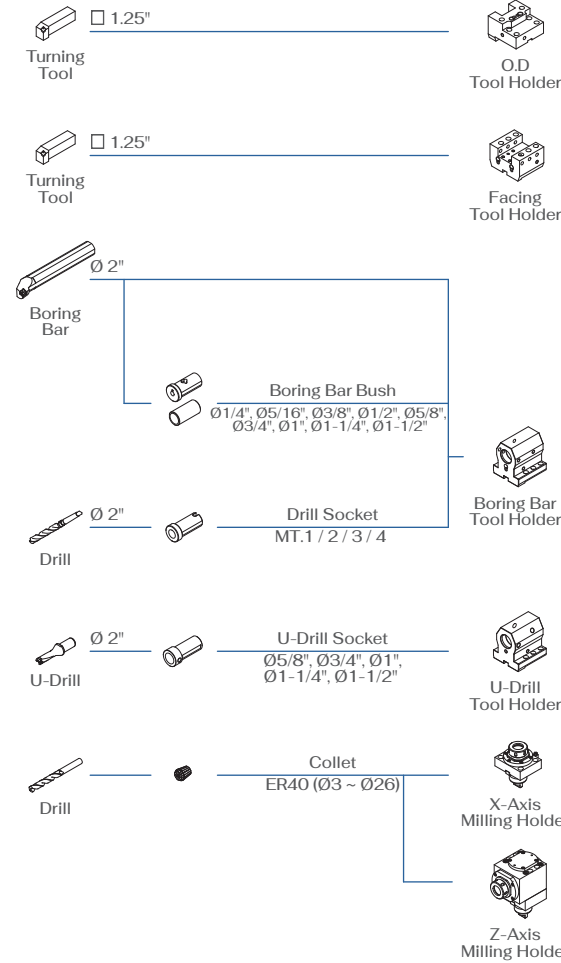
LS-800 T10/T12



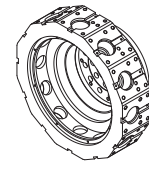
T10 / T12



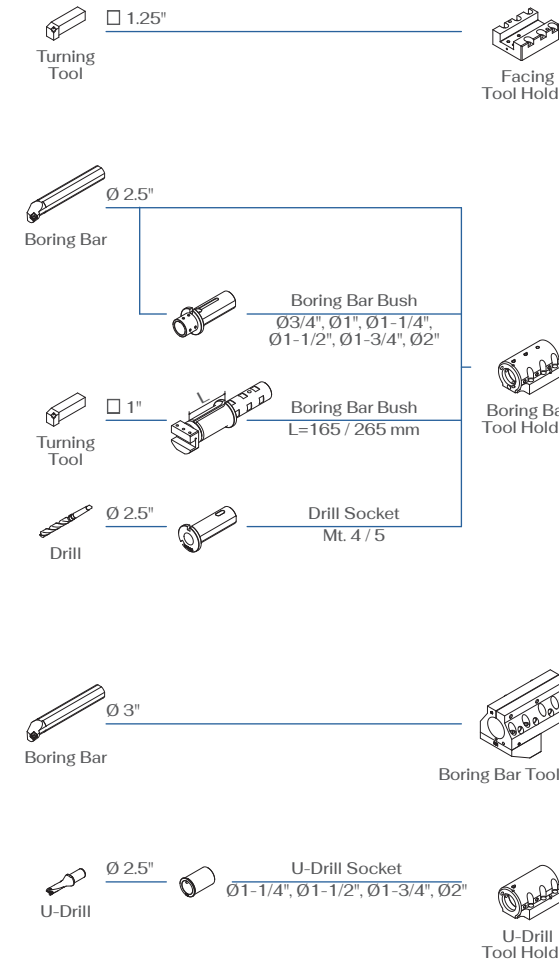
LS-800M/Y T12



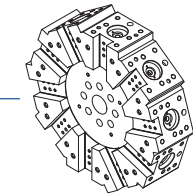
T12



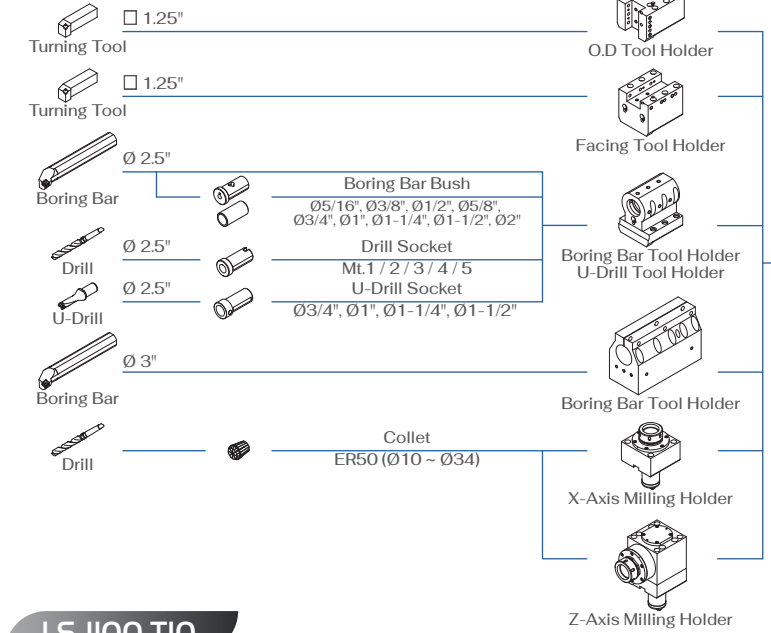
LS-1000 T10/T12



T10 / T12



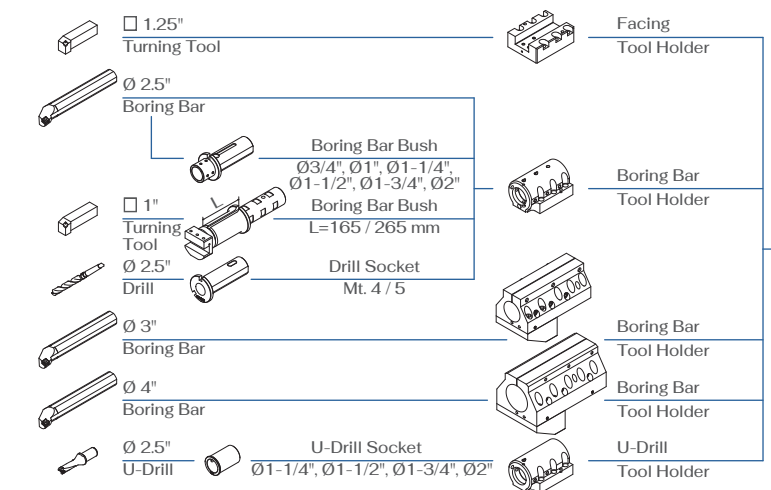
LS-1000M T12



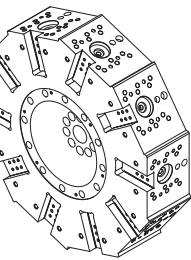
T12



LS-1100 T10

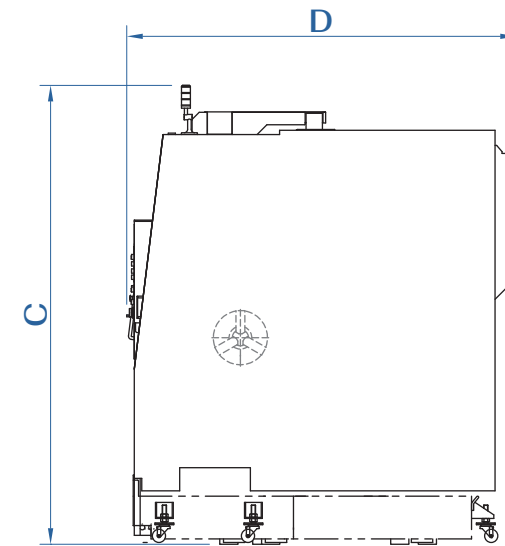
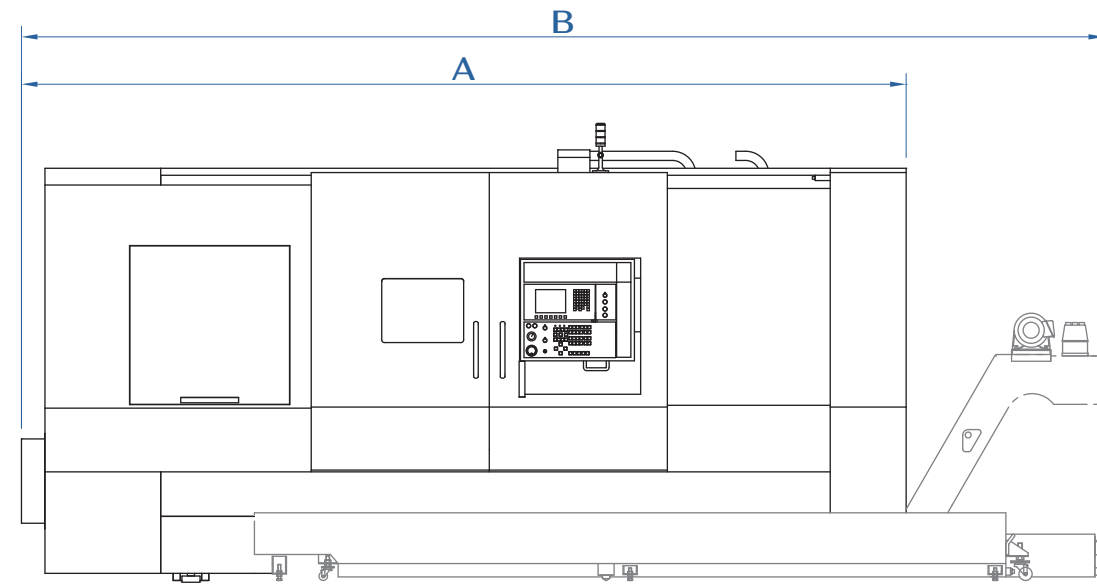


T10



Machine Dimensions

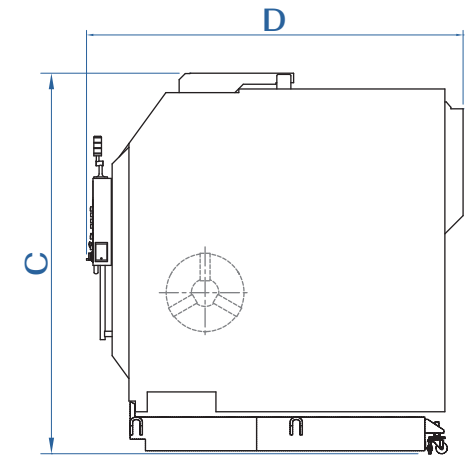
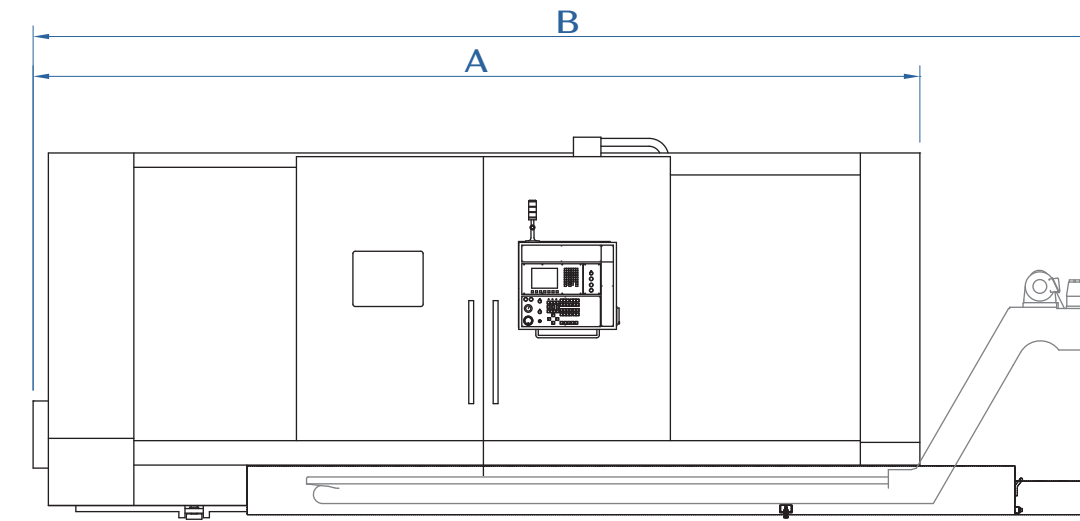
LS-800



Machine Dimensions

	LS-800(M) L10	LS-800(M) L15	LS-800(M) L20	LS-800(M) L30	LS-800Y L10	LS-800Y L20	LS-800Y L30
A	178.66	195.59	222.76	270.94	183.74	221.73	273.31
B	223.19	239.45	269.57	316.85	229.65	264.96	318.43
C	101.26	101.26	101.26	101.26	108.94	108.94	108.94
D	86.14	86.14	86.14	109.33	95.91	95.91	114.17

LS-1000 / LS-1100



Machine Dimensions

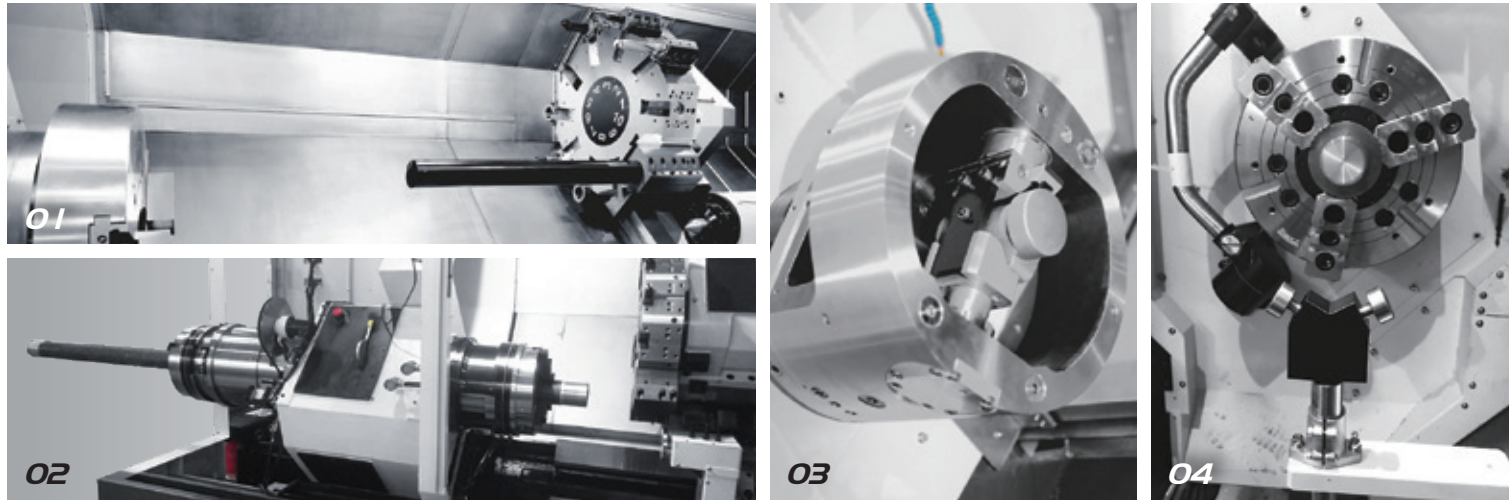
	LS-1000(M) L10	LS-1000(M) L15	LS-1000(M) L20	LS-1000(M) L30	LS-1100 L20	LS-1100 L30
A	186.34	204.80	228.74	277.95	259.69	296.46
B	237.87	251.65	275.98	325.20	298.19	331.26
C	101.30	101.30	105.94	110.71	107.80	107.80
D	97.32	97.32	97.32	110.59	116.85	116.85

Machine Specifications

	Item	Unit	LS-800B	LS-800C	LS-800MB	LS-800MC
			L10 / L15 / L20 / L30	L10 / L15 / L20 / L30	L10 / L15 / L20 / L30	L10 / L15 / L20 / L30
Capacity	Max. Swing	inch	32.68		32.68	
	Swing Over Saddle	inch	25.59		25.59	
	Std. Turning Diameter	inch	12.99 (10.63)		11.81	
	Max. Turning Diameter	inch	29.92		26.77	
	Max. Turning Length	inch	43.29 / 62.97 / 82.66 / 122.03	41.32 / 61.00 / 80.69 / 120.06	38.87 / 58.56 / 78.24 / 117.61	36.90 / 56.59 / 76.27 / 115.64
	Max. Bar Work Capacity	inch	4.53	7.09	4.53	7.09
Travel	X Axis Travel	inch	15.35		15.35	
	Z Axis Travel	inch	45.28 / 64.96 / 84.65 / 124.02		45.28 / 64.96 / 84.65 / 124.02	
	Y Axis Travel	inch	---		---	
Spindle	Spindle Speed	rpm	2000 (1500)	1200	2000 (1500)	1200
	Chuck Size	inch	15" (18")	20"	15" (18")	20"
	Spindle Nose		A2-11	A2-15	A2-11	A2-15
	Through Hole Diameter	inch	4.96	8.07	4.96	8.07
	Bearing Diameter	inch	6.69	10.47	6.69	10.47
Turret	Number of Tools		T10 (T12)		T12	
	Turning Tool Shank	inch	1.25		1.25	
	Boring Bar Shank Diameter	inch	2 (2.5)		2	
	Milling Tool Shank Diameter	inch	---		1.02	
Tailstock	Tailstock Travel	inch	39.37 / 59.06 / 78.74 / 118.11		39.37 / 59.06 / 78.74 / 118.11	
	Tailstock Spindle Diameter	inch	4.92 (5.91)		4.92 (5.91)	
	Taper Hole of Tailstock Spindle		MT.5 (MT.6)		MT.5 (MT.6)	
	Tailstock Spindle Travel	inch	4.72 (5.91)		4.72 (5.91)	
Feedrate	X Axis Rapid Traverse Rate	ipm	472.44		472.44	
	Z Axis Rapid Traverse Rate	ipm	787.40 / 629.92 / 629.92 / 457.44		787.40 / 629.92 / 629.92 / 457.44	
	Y Axis Rapid Traverse Rate	ipm	---		---	
Motor	Spindle Motor	HP	29.5 / 34.9 (40.2 / 49.6)	40.2 / 49.6	29.5 / 34.9 (40.2 / 49.6)	40.2 / 49.6
	Index Motor	HP	1.6		1.6	
	Milling Motor	HP	---		7.5 / 10 (10 / 15)	
	X Axis Servo Motor	HP	5.4		5.4	
	Z Axis Servo Motor	HP	5.4 (9.3) / 5.4 (9.3) / 9.3 / 9.3	9.3 / 9.3 / 9.3 / 9.3	5.4 (9.3) / 5.4 (9.3) / 9.3 / 9.3	9.3 / 9.3 / 9.3 / 9.3
	Y Axis Servo Motor	HP	---		---	
Size	Height	inch	101.26		101.26	
	Width	inch	178.66 / 195.59 / 222.76 / 270.94		178.66 / 195.59 / 222.76 / 270.94	
	Depth	inch	86.14 / 86.14 / 86.14 / 109.33		86.14 / 86.14 / 86.14 / 109.33	
	Weight	lb	23100 / 24860 / 29920 / 33220	25300 / 27060 / 32120 / 35420	23320 / 25080 / 30140 / 33440	25520 / 27280 / 32340 / 35640

	Item	Unit	LS-800YB	LS-800YC	LS-1000	LS-1000M	LS-1100
			L10 / L20 / L30	L10 / L20 / L30	L10 / L15 / L20 / L30	L10 / L15 / L20 / L30	L20 / L30 / L40
Capacity	Max. Swing	inch	32.68		40.55		44.09
	Swing Over Saddle	inch	24.41		30.71		35.83
	Std. Turning Diameter	inch	11.81		12.60		17.32
	Max. Turning Diameter	inch	23.62		35.43		35.43
	Max. Turning Length	inch	36.43 / 75.80 / 115.17	34.46 / 73.83 / 113.20	40.62 / 60.30 / 79.99 / 119.36	38.06 / 57.74 / 77.43 / 116.80	83.66 / 119.09 / 176.18
	Max. Bar Work Capacity	inch	4.53	7.09	7.09	7.09	8.07* (10)
Travel	X Axis Travel	inch	15.35		19.69		20.63
	Z Axis Travel	inch	41.26 / 80.63 / 120.00		43.31 / 62.99 / 82.68 / 122.05		86.61 / 122.05 / 179.13
	Y Axis Travel	inch	±3.15		---		---
Spindle	Spindle Speed	rpm	2000 (1500)	1200	1200 (1000)	1200 (1000)	900
	Chuck Size	inch	15" (18")	20"	20" (24")	20" (24")	24" (32")
	Spindle Nose		A2-11	A2-15	A2-15	A2-15	A2-20
	Through Hole Diameter	inch	4.96	8.07	8.07	8.07	10.83
	Bearing Diameter	inch	6.69	10.47	10.47	10.47	14.17
Turret	Number of Tools		T12		T10 (T12) (T8)		T10
	Turning Tool Shank	inch	1.25		1.25		1.25
	Boring Bar Shank Diameter	inch	2		2.5 (3) (4)		2.5 (3) (4)
	Milling Tool Shank Diameter	inch	1.02		---		---
Tailstock	Tailstock Travel	inch	36.02 / 75.39 / 114.76		39.37 / 59.06 / 78.74 / 118.11		85.24 / 120.67 / 177.76
	Tailstock Spindle Diameter	inch	4.92 (5.91)		7.09		7.87
	Taper Hole of Tailstock Spindle		MT.5 (MT.6)		MT.6		MT.6
	Tailstock Spindle Travel	inch	4.72 (5.91)		5.91		5.91
Feedrate	X Axis Rapid Traverse Rate	ipm	472.44		472.44		472.44
	Z Axis Rapid Traverse Rate	ipm	787.40 / 629.92 / 457.44		629.92 / 629.92 / 629.92 / 472.44		472.22 / 393.70 / 236.22
	Y Axis Rapid Traverse Rate	ipm	236.22		---		---
Motor	Spindle Motor	HP	29.5 / 34.9 (40.2 / 49.6)	40.2 / 49.6	40.2 / 49.6 (49.6 / 60.3)	40.2 / 49.6 (49.6 / 60.3)	49.6 / 60.3 (60.3 / 73.7)
	Index Motor	HP	1.6		1.6		1.6
	Milling Motor	HP	7.5 / 10 (10 / 15)		---		---
	X Axis Servo Motor	HP	9.3		5.4		8
	Z Axis Servo Motor	HP	9.3		8		8 (15)
	Y Axis Servo Motor	HP	9.3		---		---
Size	Height	inch	108.94		101.30 / 101.30 / 105.94 / 110.71		107.8
	Width	inch	183.74 / 221.73 / 273.31		186.34 / 204.80 / 228.74 / 277.95		259.69 / 296.46 / 348.82
	Depth	inch	95.91 / 95.91 / 114.17		97.32 / 97.32 / 97.32 / 110.59		116.85
	Weight	lb	27280 / 32120 / 36960	28380 / 33220 / 38060	26400 / 29700 / 36300 / 39600	27720 / 31020 / 37620 / 40920	52800 / 59400 / 68200

Special Specification Example

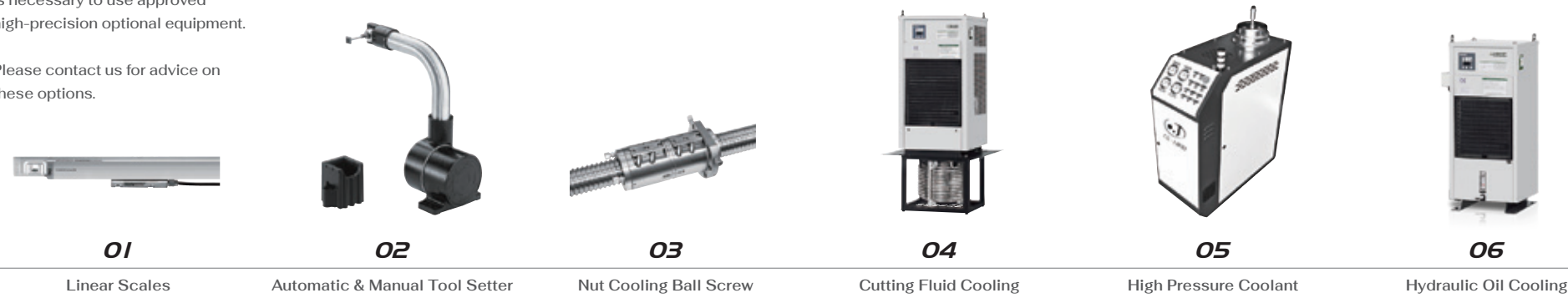


- 01** Long Boring Bar
- 02** Dual Chucking System
- 03** Indexing Chuck
- 04** Special Support Unit

Highly Accurate Optional Equipment

There are special requirements for precise machining accuracy and it is necessary to use approved high-precision optional equipment.

Please contact us for advice on these options.



Standard and Optional Accessories

Items	LS-800	LS-800M	LS-800Y	LS-1000	LS-1000M	LS-1100
Hi-low Gearbox Spindle	●	●	●	●	●	●
Hydraulic Servo Turret	●	●	●	●	●	●
Hydraulic Tailstock	●	●	●	●	●	●
Automatic Pin Actuated Tailstock	●	●	●	●	●	●
Boring Bar Tool Holder	●	●	●	●	●	●
U-drill Tool Holder	●	●	●	●	●	●
Facing Tool Holder	●	●	●	●	●	●
O.D Tool Holder	—	●	●	—	●	—
X Axis Live Tool Holder	—	●	●	—	●	—
Z Axis Live Tool Holder	—	●	●	—	●	—
Boring Bar Bush ø 1/4"	●	●	●	—	—	—
Boring Bar Bush ø 5/16"	●	●	●	—	—	—
Boring Bar Bush ø 3/8"	●	●	●	—	—	—
Boring Bar Bush ø 1/2"	●	●	●	—	—	—
Boring Bar Bush ø 5/8"	●	●	●	—	—	—
Boring Bar Bush ø 3/4"	●	●	●	●	●	●
Boring Bar Bush ø 1"	●	●	●	●	●	●
Boring Bar Bush ø 1-1/4"	●	●	●	●	●	●
Boring Bar Bush ø 1-1/2"	●	●	●	●	●	●
Boring Bar Bush ø 2"	—	—	—	●	●	●
U-drill Socket ø 5/8"	●	●	●	—	—	—
U-drill Socket ø 3/4"	●	●	●	—	—	—
U-drill Socket ø 1"	●	●	●	—	—	—
U-drill Socket ø 1-1/4"	●	●	●	●	●	●
U-drill Socket ø 1-1/2"	●	●	●	●	●	●
U-drill Socket ø 1-3/4"	—	—	—	●	●	●
U-drill Socket ø 2"	—	—	—	●	●	●

Items	LS-800	LS-800M	LS-800Y	LS-1000	LS-1000M	LS-1100
Drill Socket MT-1	●	●	●	—	—	—
Drill Socket MT-2	●	●	●	—	—	—
Drill Socket MT-3	●	●	●	—	—	—
Drill Socket MT-4	●	●	●	●	●	●
Drill Socket MT-5	—	—	—	●	●	●
Working Lamp	●	●	●	●	●	●
Tool Box	●	●	●	●	●	●
Operation Manual	●	●	●	●	●	●
Hydraulic Chuck	●	●	●	●	●	●
Foot Switch	●	●	●	●	●	●
Chip Conveyor	◎	◎	◎	◎	◎	◎
Chip Cart	◎	◎	◎	◎	◎	◎
Manual Steady Rest Ø1.97" - 13.78"	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-3.2 (Ø1.97" - 7.87")	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-4 (Ø1.18" - 9.65")	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-5 (Ø1.77" - 12.20")	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-5.1 (Ø3.35" - 13.78")	◎	◎	◎	◎	◎	◎
Air Blow	◎	◎	◎	◎	◎	◎
Auto Power Off	◎	◎	◎	◎	◎	◎
Parts Counter	◎	◎	◎	◎	◎	◎
Automatic Front Door	◎	◎	◎	◎	◎	◎
Tool Setter	◎	◎	◎	◎	◎	◎
3" Boring Bar Tool Holder	—	—	—	◎	—	◎
4" Boring Bar Tool Holder	—	—	—	—	—	◎
High Pressure Coolant Unit	◎	◎	◎	◎	◎	◎

● Standard ◎ Optional - Nope

NC Unit Specifications

Specifications · Contents	LS-800 LS-1000 LS-1100	LS-800M LS-1000M LS-1000M	LS-800Y
Controller			
0i-TF	●	●	●
NC Unit			
8.4" Color LCD	●	●	●
10.4" Color LCD	◎	◎	◎
Safety Device			
Front Door Interlock	◎	◎	◎
Front Door Locking Mechanism	◎	◎	◎
Safety Relay	◎	◎	◎
Control Panel Breaker with Tripper	◎	◎	◎
Controlled Axes			
Least Input Increment	●	●	●
Maximum Programmable Dimension (± 999999.999)	●	●	●
Least Input Increment C	▲	▲	▲
Inch / Metric Selection	●	●	●
Interlock	●	●	●
Machine Lock	◎	◎	◎
Emergency Stop	●	●	●
Stored Stroke Check 1	●	●	●
Stored Stroke Check 2, 3	●	●	●
Stroke Limit Check Before Movement	▲	▲	▲
Chuck Tailstock Barrie	▲	▲	▲
Mirror Image (Each Axis)	▲	▲	▲
Chamfering ON / OFF	●	●	●
Overload Detection	▲	▲	▲
Position Switch	●	●	●
Operation			
Auto Run (Memory)	●	●	●
MDI Run	●	●	●
DNC Run	●	●	●
DNC Run with Memory Card	●	●	●
Program Number Search	●	●	●
Sequence Number Search	●	●	●
Sequence Number Collation and Stop	●	●	●
Wrong Operation Preventive	▲	▲	▲
Buffer Register	●	●	●
Dry Run	●	●	●

Specifications · Contents	LS-800 LS-1000 LS-1100	LS-800M LS-1000M LS-1000M	LS-800Y
Single Block	●	●	●
Jog Feed	●	●	●
Manual Reference Point Return	●	●	●
Dogless Reference Point Setting	●	●	●
Manual Handle Feed, 1 Unit	●	●	●
Interpolating Functions			
Positioning (G00)	●	●	●
Exact Stop Mode (G61)	●	●	●
Tapping Mode (G63)	●	●	●
Cutting Mode (G64)	●	●	●
Exact Stop (G09)	●	●	●
Linear Interpolation (G01)	●	●	●
Circular Interpolation (G02 / O3)	●	●	●
Dwell (G04)	●	●	●
Polar Coordinate Interpolation	-	●	●
Cylindrical Interpolation	-	●	●
Thread Cutting	●	●	●
Multiple Thread Cutting	●	●	●
Thread Cutting Cycle and Retraction	●	●	●
Continuous Thread Cutting	●	●	●
Variable Lead Thread Cutting	●	●	●
Reference Point Return (G28)	●	●	●
Reference Point Return Check (G27)	●	●	●
2nd Reference Point Return (G30)	●	●	●
3rd, 4th Reference Point Return	●	●	●
Feed Function			
Rapid Traverse Override (F0, 25%, 50%, 100%)	●	●	●
Feed Per Minute	●	●	●
Feed Per Revolution	●	●	●
Constant Tangential Speed Control	●	●	●
Cutting Feedrate Clamp	●	●	●
Automatic Acceleration / Deceleration	●	●	●
Rapid Traverse Bell-Shaped Accel / Decel	●	●	●
Linear Accel / Decel After Feedrate Interpolation	●	●	●
Feedrate Override (15 Steps)	●	●	●
Jog Override (15 Steps)	●	●	●
Override Cancel	●	●	●

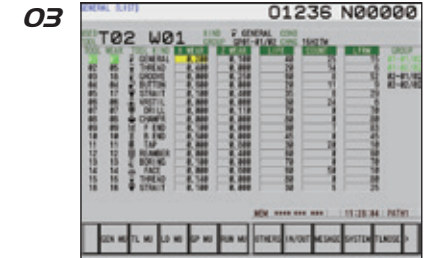
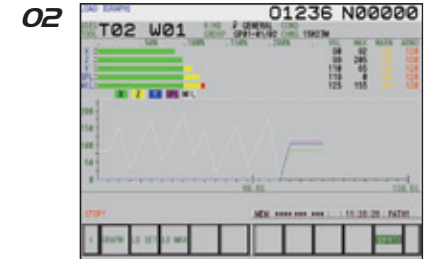
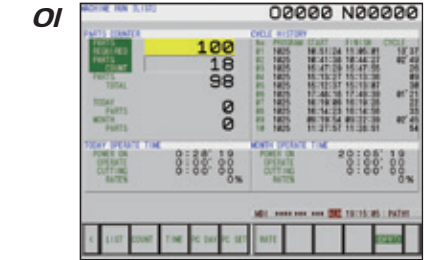
Specifications · Contents	LS-800 LS-1000 LS-1100	LS-800M LS-1000M LS-1000M	LS-800Y
Manual Feed Per Revolution		▲	▲
Program Input			
Tape Code (EIA / ISO Auto Recognition)	●	●	●
Label Skip	●	●	●
Parity Check	●	●	●
Control In / Out	●	●	●
Optional Block Skip, 1 Piece	●	●	●
Optional Block Skip (2 to 9 Pieces)	⊕	⊕	⊕
Program Number O4 Digits	●	●	●
Program File Name 32 Characters	●	●	●
Sequence Number N8 Digits	●	●	●
Absolute / Incremental Command	●	●	●
Decimal Point Input / Pocket Calculator Type Decimal Point Input	●	●	●
Diameter / Radius Programming (X-Axis)	●	●	●
Coordinate System Setting (G50)	●	●	●
Auto coordinate System Setting	●	●	●
Drawing Dimension Direct Input	●	●	●
G-Code System A	●	●	●
G-Code System B / C	▲	▲	▲
Chamfering / Corner R Programming	●	●	●
Programmable Data Input	●	●	●
Sub Program Call (10 Levels)	●	●	●
Custom Macro	●	●	●
Additional Custom Macro Common Variables	●	●	●
Single Canned Cycle	●	●	●
Combined Canned Cycle	●	●	●
Combined Canned Cycle II	●	●	●
Drilling Canned Cycle	●	●	●
Arc Radius Programming	●	●	●
Macro Executor	◎	◎	◎
Coordinate System Shift	●	●	●
Coordinate System Shift Direct Input	●	●	●
Miscellaneous Function / Spindle Functions			
M Function (M3 Digits)	●	●	●
Second Miscellaneous Function (B Function)	◎	◎	◎
Spindle Functions (S4 Digits)	●	●	●

Specifications · Contents	LS-800 LS-1000 LS-1100	LS-800M LS-1000M LS-1000M	LS-800Y
Constant Surface Speed Control	●	●	●
Spindle Orientation	●	●	●
Rigid Tap (Spindle Center)	●	●	●
Rigid Tap (Rotary Tool)	-	●	●
Data I/O			
RS-232C Interface for 1 ch	●	●	●
Fast Data Server	⊕	⊕	⊕
External Message	●	●	●
External Workpiece Number Search	◎	◎	◎
Memory Card I/O	●	●	●
Tool Functions / Tool Offset Functions			
T Function (T2 + 2 Digits)	●	●	●
Tool Offsets, 99 Pieces	●	●	●
Tool Offsets, 200 Pieces	◎	◎	◎
Tool Geometry Size Data, 100 Pieces	◎	◎	◎
Tool Position Offset	●	●	●
Tool Diameter / Nose R Compensation	●	●	●
Tool Geometry / Wear Compensation	●	●	●
Tool Offset Counter Input	●	●	●
Tool Offset Measured Value Direct Input	●	●	●
Tool Offset Measured Value Direct Input B	◎	◎	◎
Tool Life Management	▲	▲	▲
Accuracy Offset Functions			
Backlash Compensation	●	●	●
Backlash Compensation by Rapid Traverse / Feedrate	●	●	●
Editing			
Part Program Memory Capacity 512K byte (1280m)	●	●	●
Part Program Memory Capacity 2M byte	◎	◎	◎
Registrable Programs, 400 Programs	●	●	●
Registrable Programs, 1000 Programs	◎	◎	◎
Program Editing	●	●	●
Program Protection	●	●	●
Extended Program Editing	●	●	●
Background Editing	●	●	●
Setting / Display			
Status Display	●	●	●
Clock Function	●	●	●

Specifications · Contents	LS-800 LS-1000 LS-1100	LS-800M LS-1000M LS-1000M	LS-800Y
Current Position Display	●	●	●
Program Comment Display (31 Characters)	●	●	●
Parameter Setting and Display	●	●	●
Alarm Display	●	●	●
Alarm Log Display	●	●	●
Operator Message Log Display	●	●	●
Operation Message Log Display	●	●	●
Run Hours and Parts Count Display	●	●	●
Actual Speed Display	●	●	●
Actual Spindle Speed and T Code Display	●	●	●
Floppy Cassette Directory Display	●	●	●
Grouped Directory Display and Punching	●	●	●
Servo Adjustment Screen	●	●	●
Maintenance Information Screen	●	●	●
Data Protection Key, 1 Kind	●	●	●
Help Function	●	●	●
Self Diagnostic Function	●	●	●
Scheduled Maintenance Screen	●	●	●
Hardware & Software System Configuration Display	●	●	●
Graphic Display	●	●	●
Dynamic Graphic Display	◎	◎	◎
Display Languages			
English	●	●	●
Japanese (Kanji)	▲	▲	▲
Other Language	▲	▲	▲
Display Language Dynamic Switching	●	●	●

● Standard ◎ Optional ⊕ Special
▲ Parameter setting is required - Nope

(Option) Smart Work Manager



It provides simple operation and convenient function.

01 Tool Life Manager

This function can set tool life and wear limit to manage all tools.

02 Load Monitor

Detecting max load to check tool status.

03 Parts and Machine Manager

It offer parts counter, program history, operate time for today or this month.