

LS Series

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

Extra Heavy Duty CNC Turning Center



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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	760	1099.5	1599.5	2099.5	3099.5	-
LS-800C	760	1049.5	1549.5	2049.5	3049.5	-
LS-800MB	680	987.3	1487.3	1987.3	2987.3	-
LS-800MC	680	937.3	1437.3	1937.3	2937.3	-
LS-800YB	600	925.3	-	1925.3	2925.3	-
LS-800YC	600	875.3	-	1875.3	2875.3	-
LS-1000	900	1031.7	1531.7	2031.7	3031.7	-
LS-1000M	850	966.7	1466.7	1966.7	2966.7	-
LS-1100	900	-	-	2125	3025	4475

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.

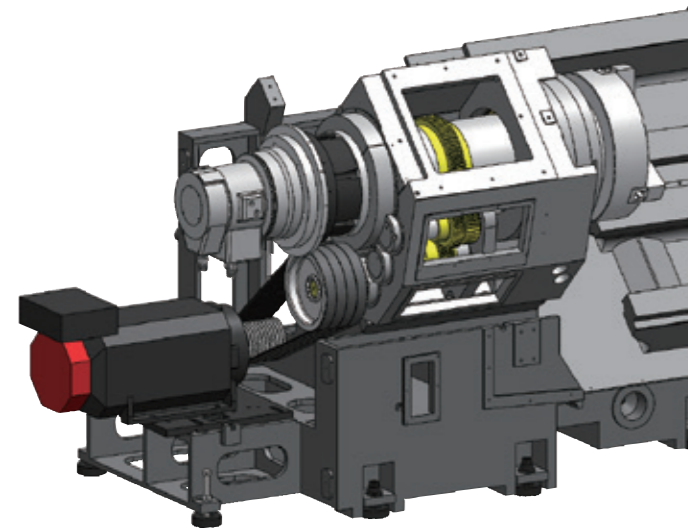
The 2-step gear box provides extra high torque during low speed machining for outstanding heavy cutting performance.



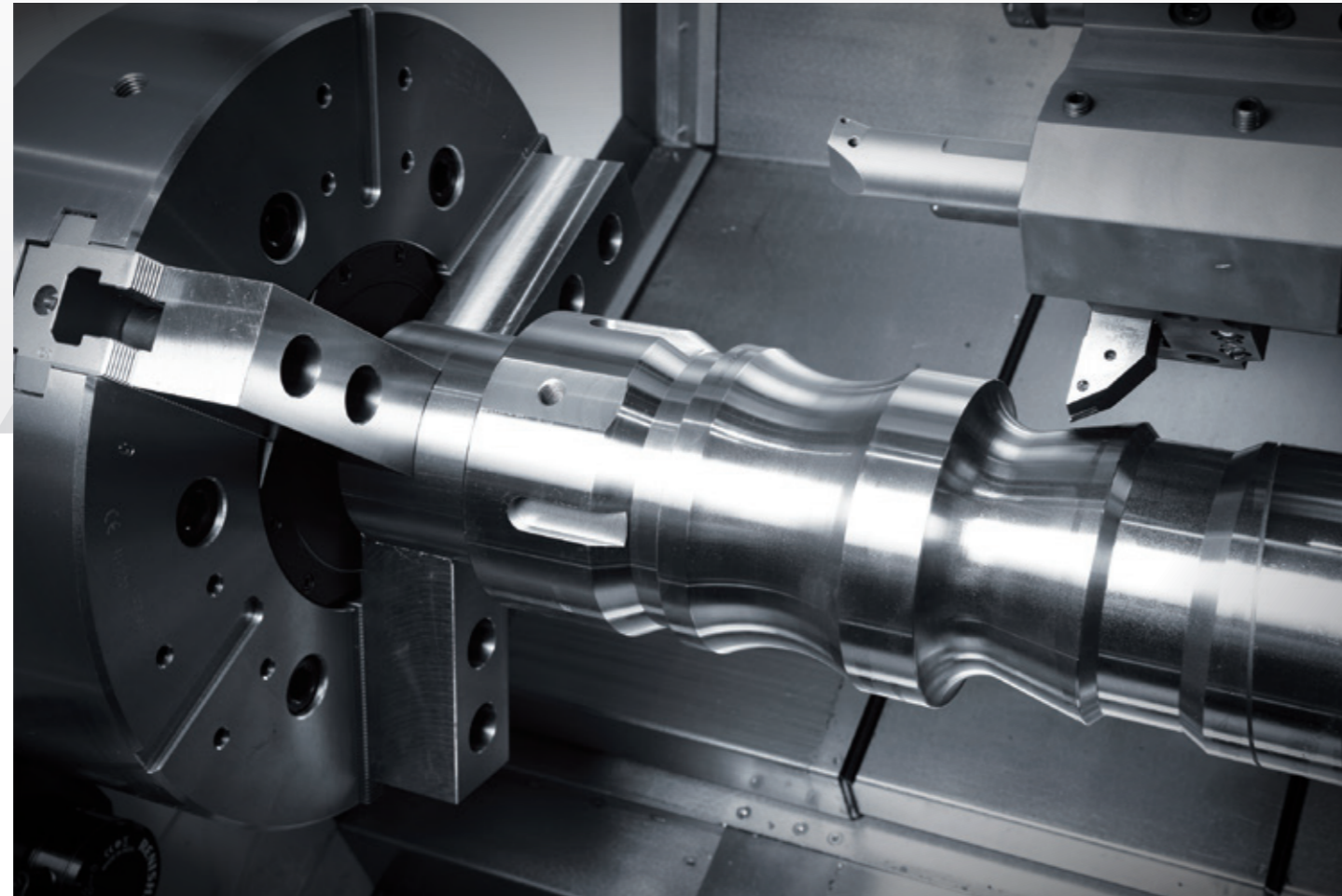
Spindle

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

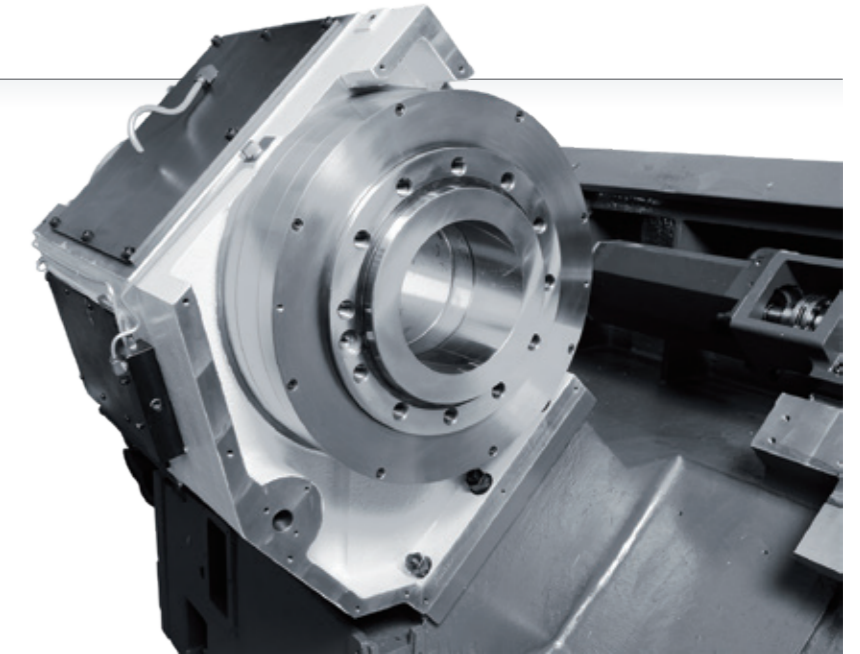
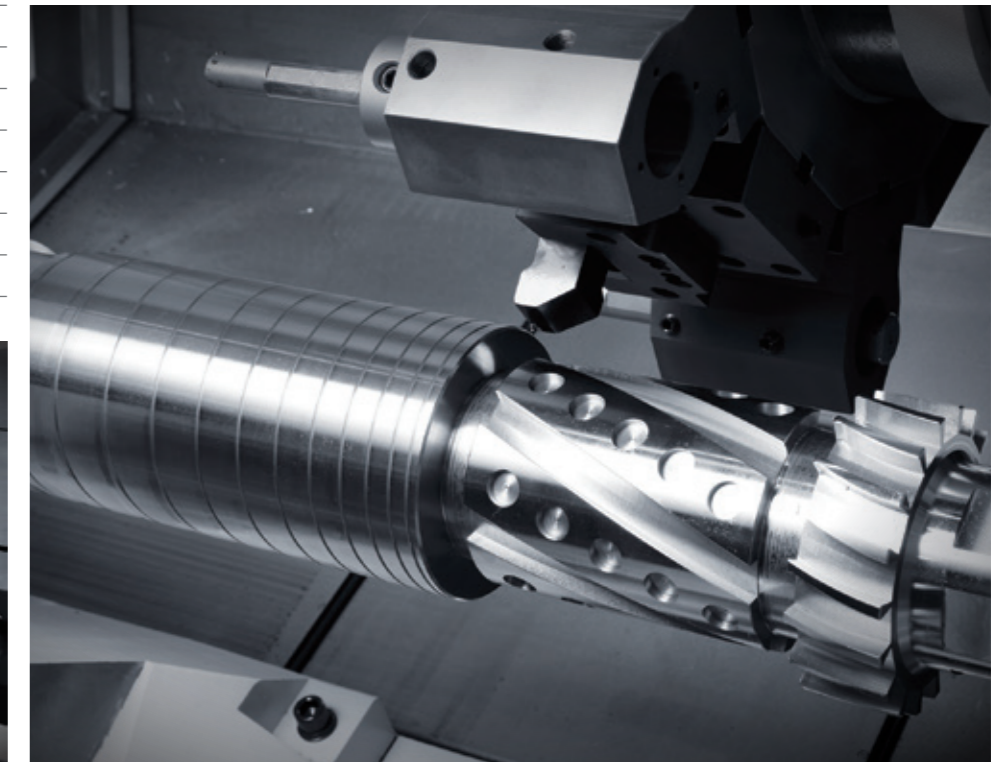
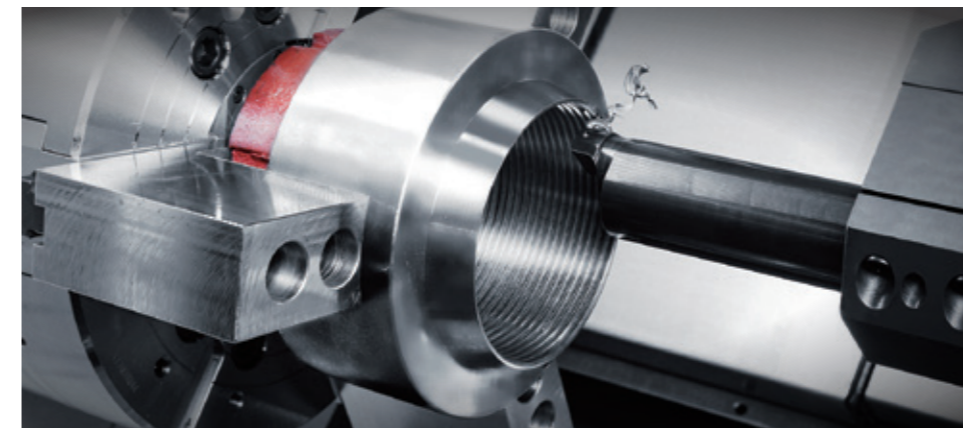


Max. Bar Capacity

Model	Chuck Size (inch)	Bar Capacity	
LS-800B / LS-800MB / LS-800YB	15" (18")	Ø115	mm
LS-800C / LS-800MC / LS-800YC	18" (20")	Ø180	mm
LS-1000 / LS-1000M	20" (24")	Ø180	mm
LS-1100	24" (28") (32")	Front: Ø254 / Through: Ø205	mm

Max. Spindle Torque

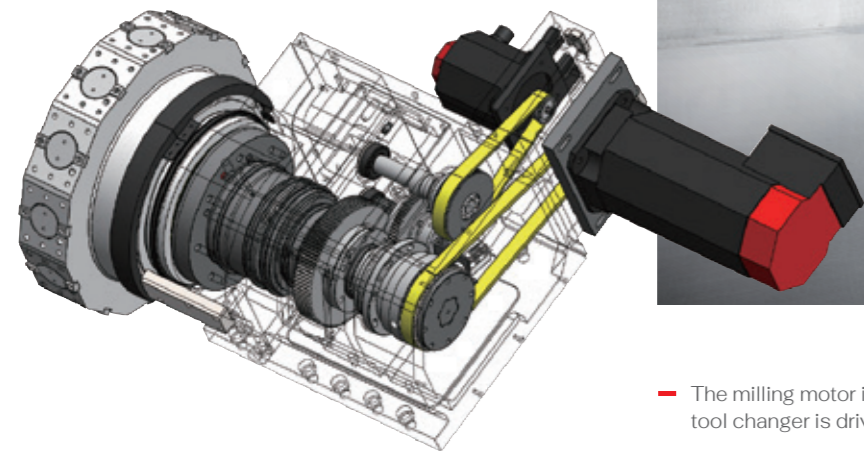
Model	Spindle Motor Spec.	Max. Spindle Speed	Max. Spindle Torque (S3 25%)
LS-800B / LS-800MB / LS-800YB	$\alpha 22$	2000 rpm	1822 N·m
LS-800B / LS-800MB / LS-800YB	$\alpha 30$	2000 rpm	3413 N·m
LS-800C / LS-800MC / LS-800YC	$\alpha 30$	1200 rpm	3953 N·m
LS-800C / LS-800MC / LS-800YC	$\alpha 40$	1200 rpm	3806 N·m
LS-1000 / LS-1000M	$\alpha 30$	1200 rpm	3953 N·m
LS-1000 / LS-1000M	$\alpha 40$	1200 rpm	3806 N·m
LS-1100	$\alpha 40$	900 rpm	8908 N·m
LS-1100	$\alpha 50$	900 rpm	13754 N·m



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.

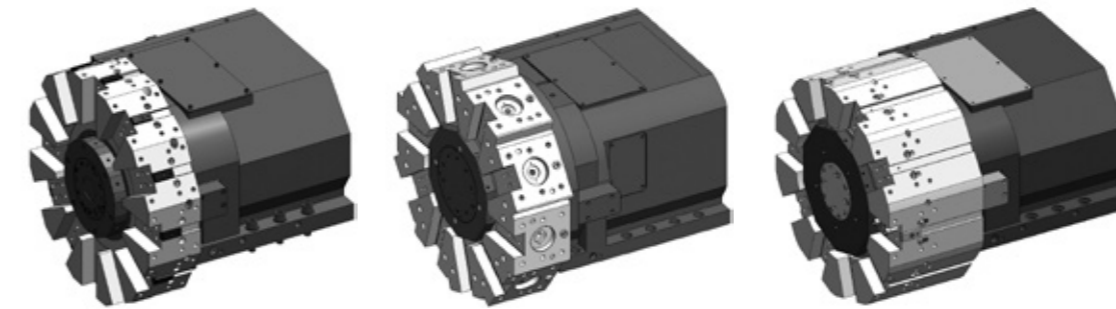


— The milling motor is driven by a spindle motor and the tool changer is driven by a servo motor.

Turret

Number of Tools	T10	T12	T8	T10	T12	T10	T8	
Width of Turret	520	520	590	590	590	800	670	mm
Thickness of Turret	132	132	165	165	165	200	300	mm
Boring Bar Shank Diameter	50 / 60	50 / 60	65	65	65	65	65	mm
OD of Curvic Coupling	280	280	360	360	360	460	460	mm
LS-800	●	◎	◎	◎	◎	-	-	
LS-1000	-	-	◎	●	◎	-	-	
LS-1100	-	-	-	-	-	●	◎	

● Standard ◎ Optional - Nope



Special Tool Holders



01

Gear Hobbing



02

Broaching



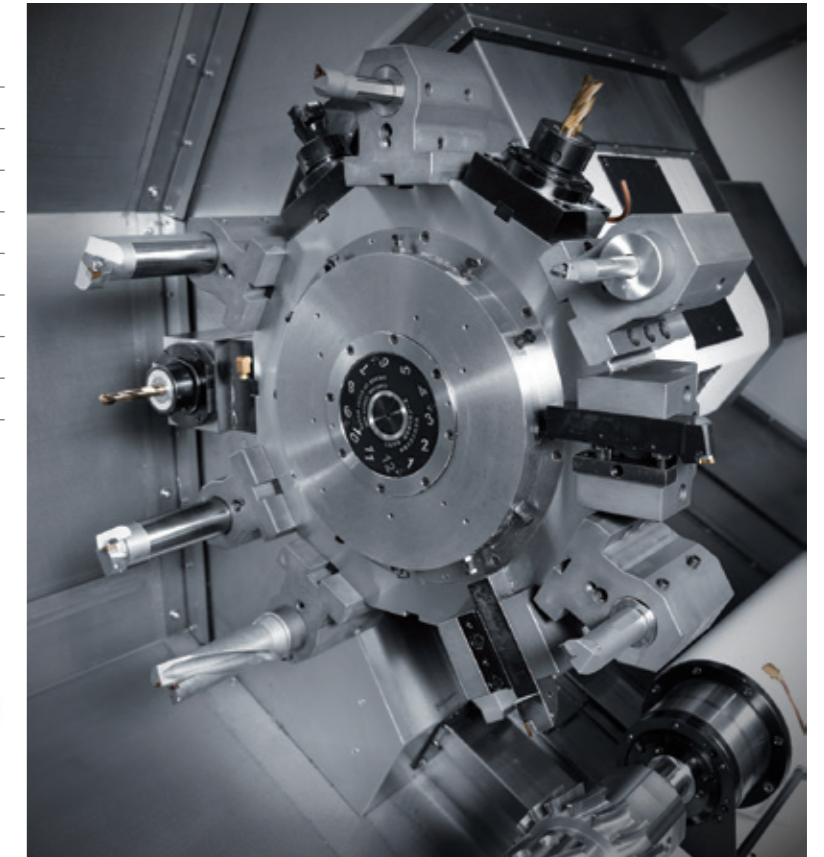
03

Power Skiving

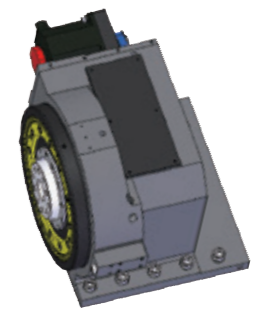
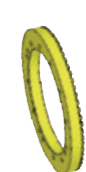
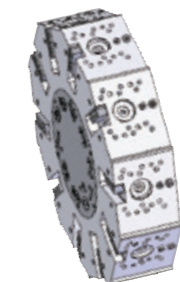


04

Adjustable Angle Milling



— T12 Power Turret

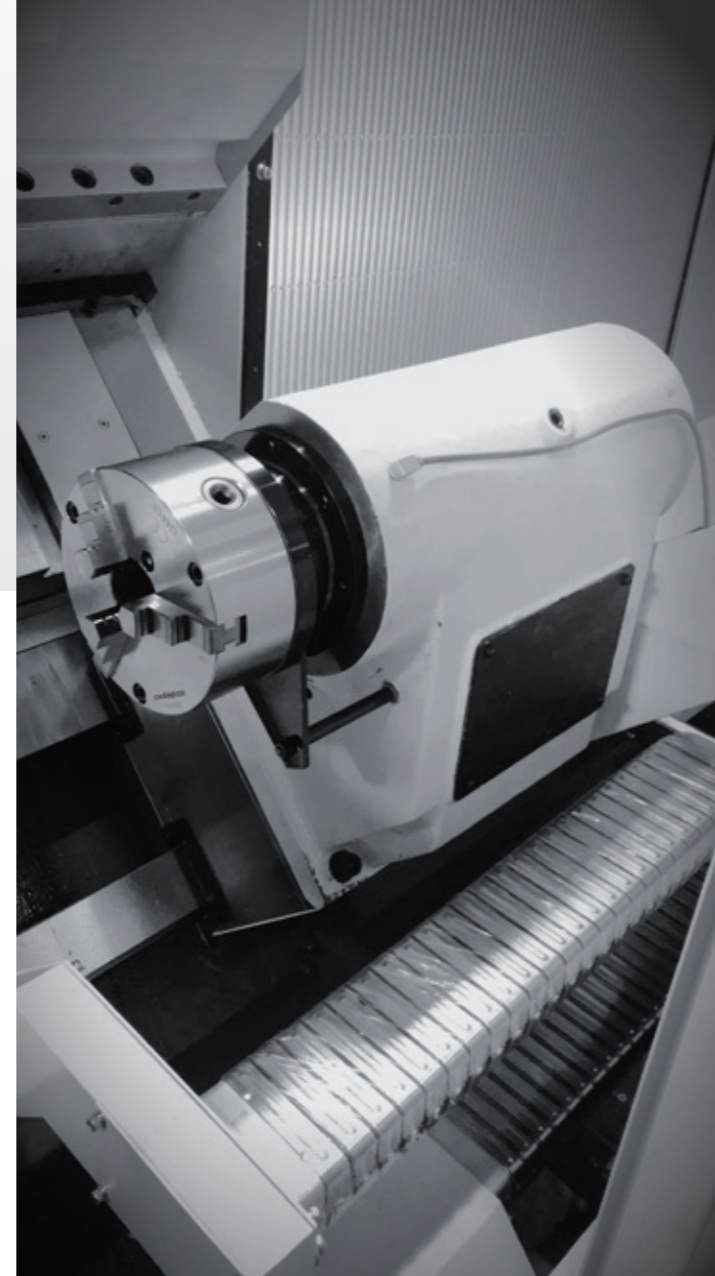
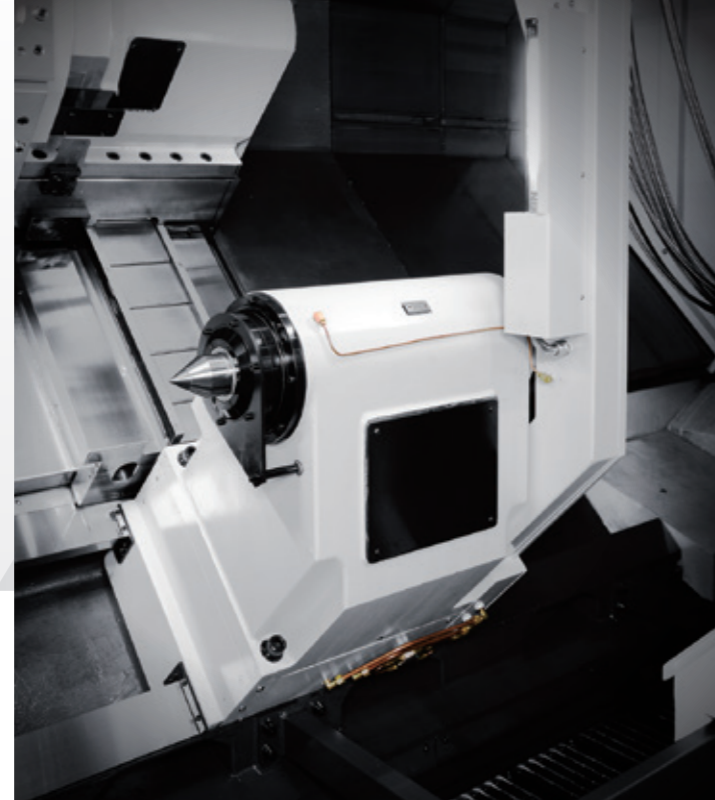
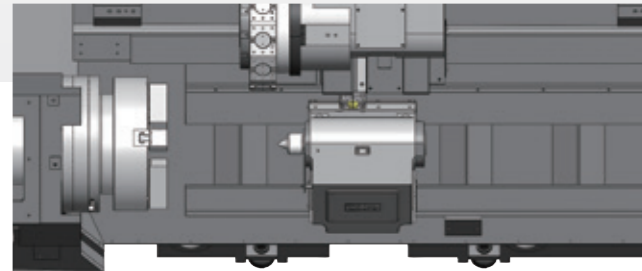


— The largest O.D. of coupling and most rigidity in this class.

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.



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	Ø125 mm	120 mm	1300 kgf	●
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø150 mm	120 mm	1300 kgf	◎
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø150 mm	220 mm	1300 kgf	◎
LS-800 / LS-800M / LS-800Y	Built-In Center	MT.5	Ø150 mm	300 mm	2600 kgf	◎
LS-1000 / LS-1000M	Built-In Center	MT.6	Ø180 mm	150 mm	1300 kgf	●
LS-1000 / LS-1000M	Built-In Center	MT.6	Ø180 mm	220 mm	2600 kgf	◎
LS-1100	Built-In Center	MT.6	Ø200 mm	150 mm	2600 kgf	●

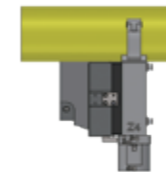
Hydraulic Steady Rest

Hydraulic Steady Rest	Centering Range	LS-800	LS-1000	LS-1100
SMW SLU-Z-3	Ø12 ~ Ø152 mm	◎	-	-
SMW SLU-Z-3.1	Ø20 ~ Ø165 mm	◎	-	-
SMW SLU-Z-3.2	Ø50 ~ Ø200 mm	◎	-	-
SMW SLU-Z-4	Ø30 ~ Ø245 mm	◎	◎	-
SMW SLU-Z-5	Ø45 ~ Ø310 mm	◎	◎	◎
SMW SLU-Z-5.1	Ø85 ~ Ø350 mm	◎	◎	◎
SMW SLU-Z-6	Ø125 ~ Ø460 mm	-	-	◎
SMW SR-Z-4	Ø30 ~ Ø245 mm	◎	-	-
SMW K-Z-6	Ø135 ~ Ø460 mm	-	-	◎

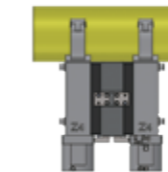
● Standard ◎ Optional - Nope

Manual Steady Rest

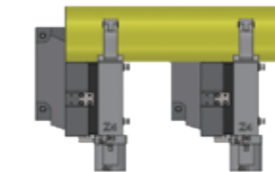
Model	Type	Centering Range
LS-800	Pass Thru	Ø50 ~ Ø350 mm
	Pass Thru	Ø90 ~ Ø500 mm
	Full Wrap	Ø200 ~ Ø520 mm
	Full Wrap	Ø50 ~ Ø300 mm
LS-1000	Full Wrap	Ø25 ~ Ø300 mm
	Pass Thru	Ø50 ~ Ø350 mm
	Pass Thru	Ø90 ~ Ø500 mm
LS-1100	Two-point Support	Ø650 ~ Ø790 mm
	Pass Thru	Ø50 ~ Ø350 mm



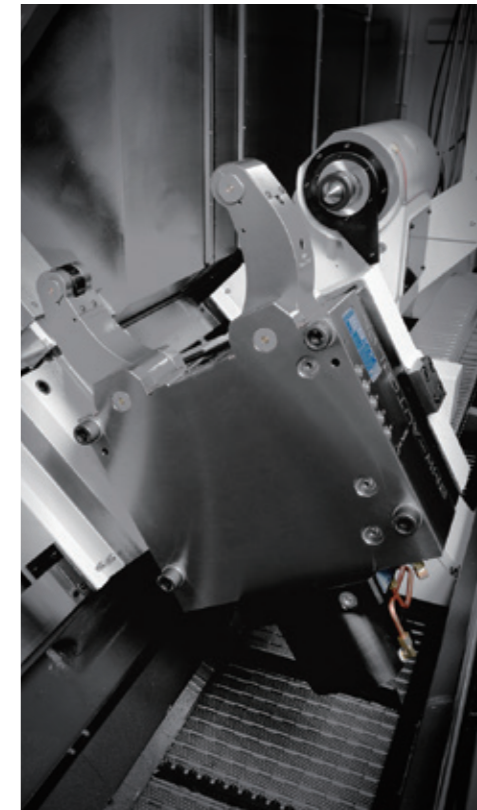
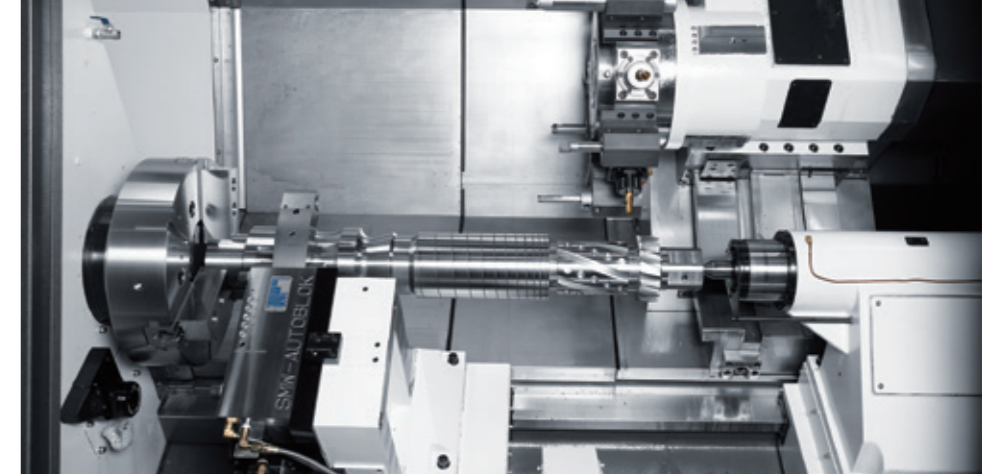
SINGLE



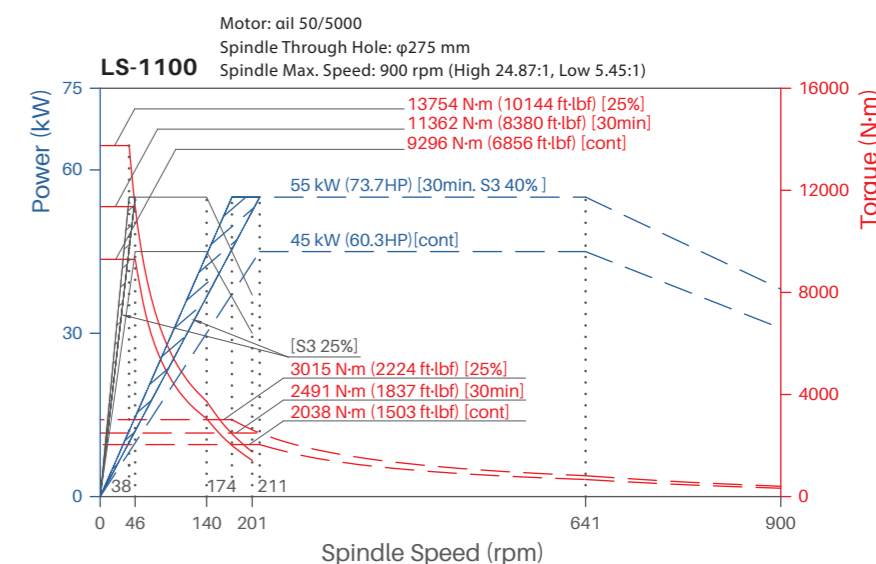
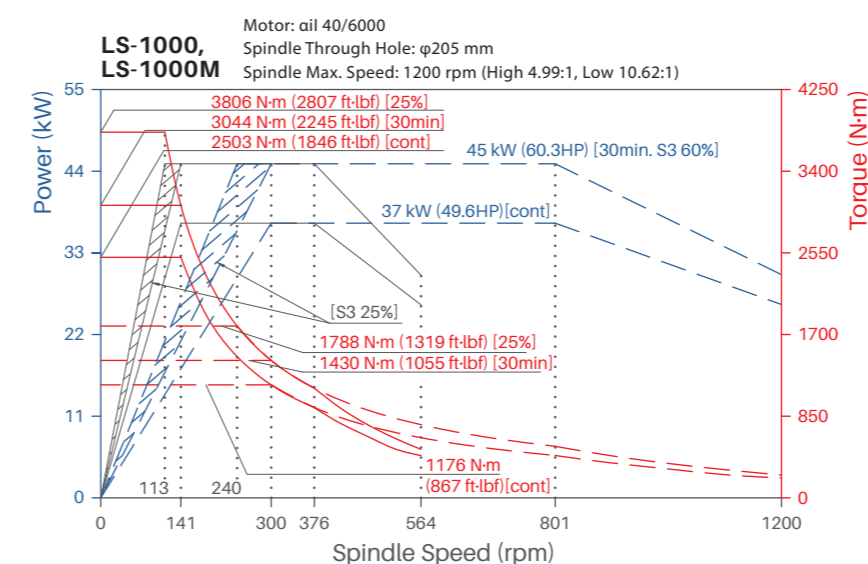
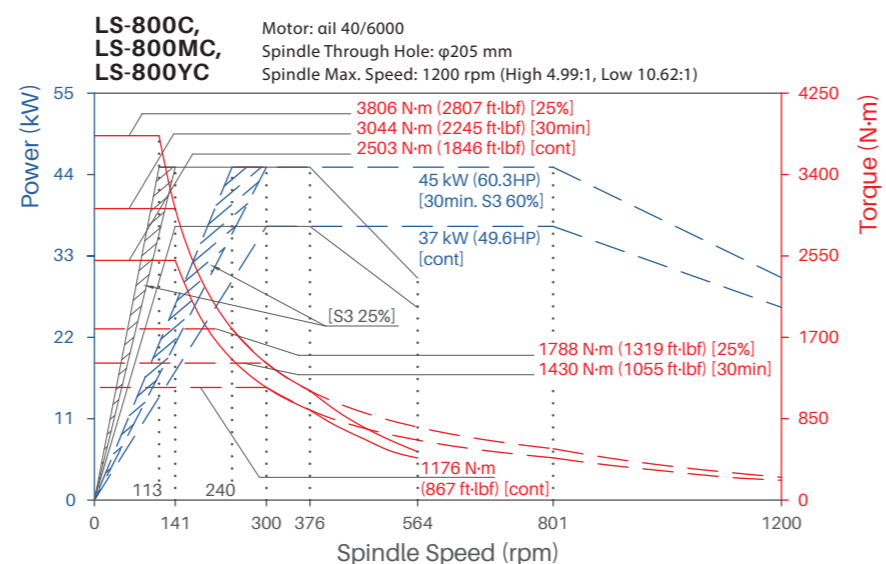
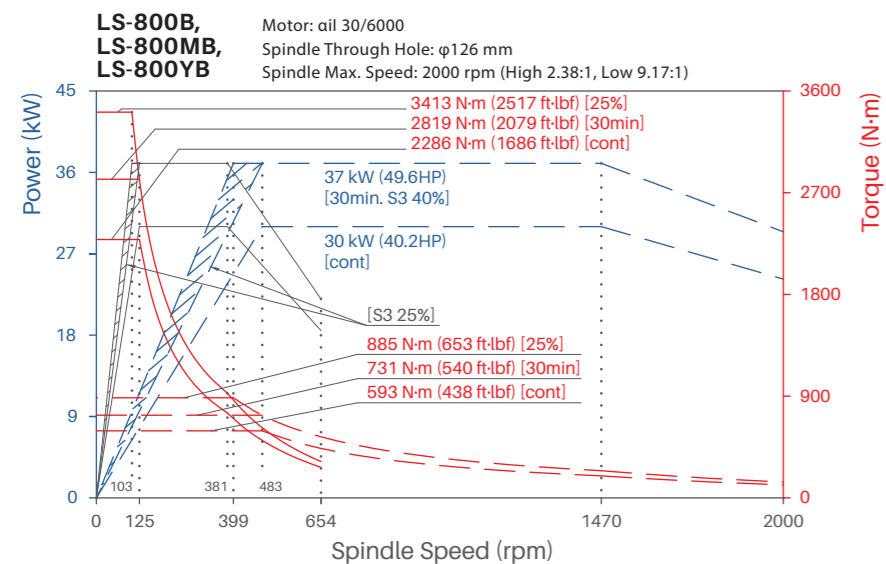
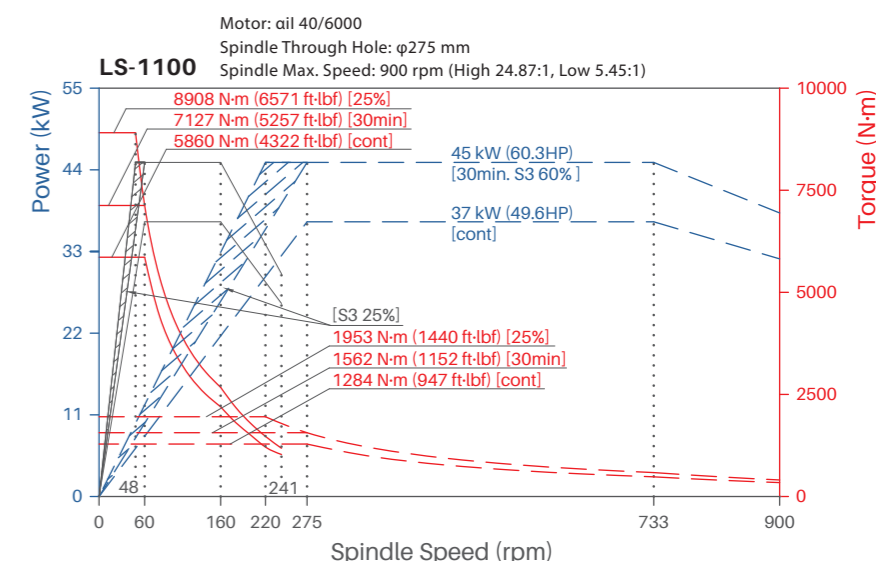
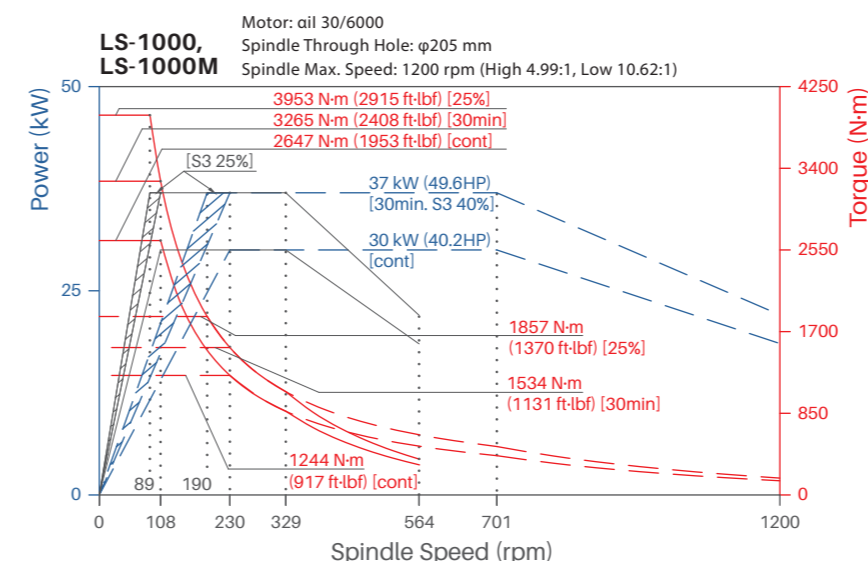
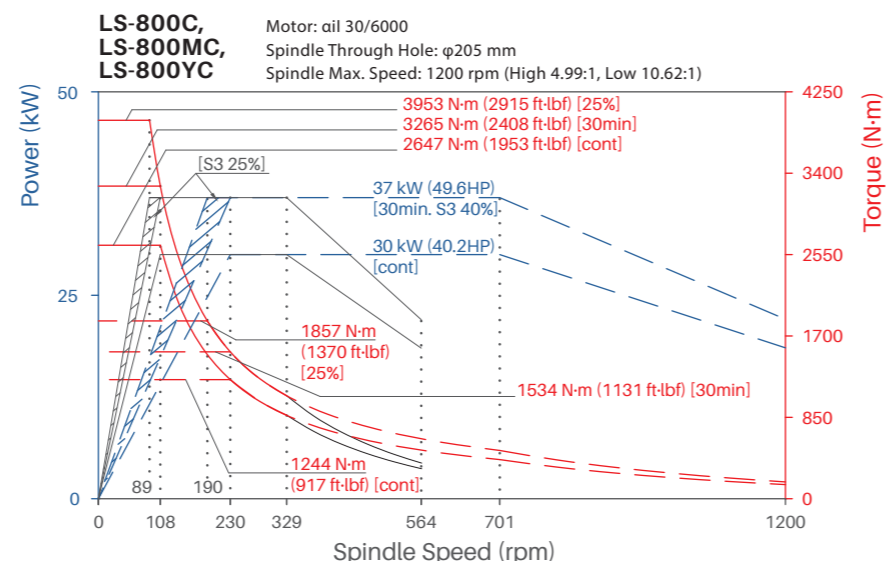
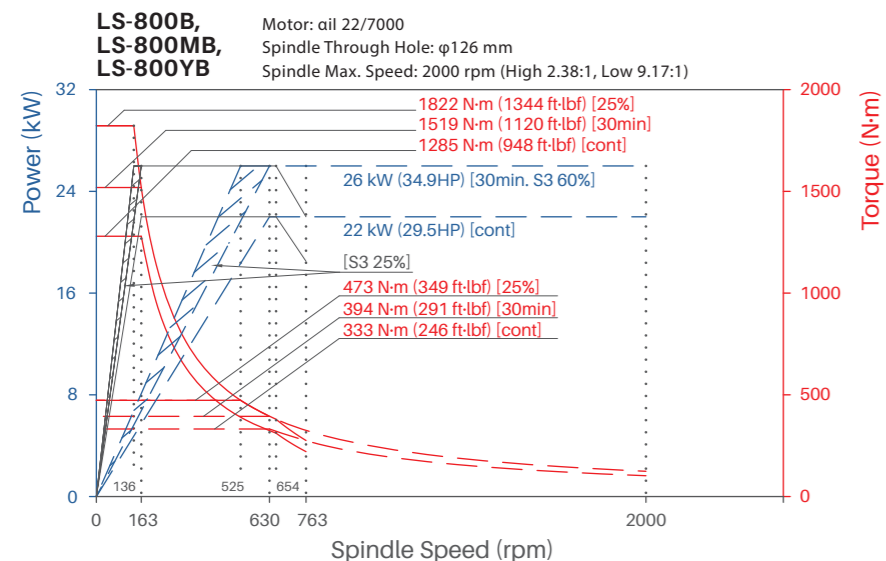
DOUBLE



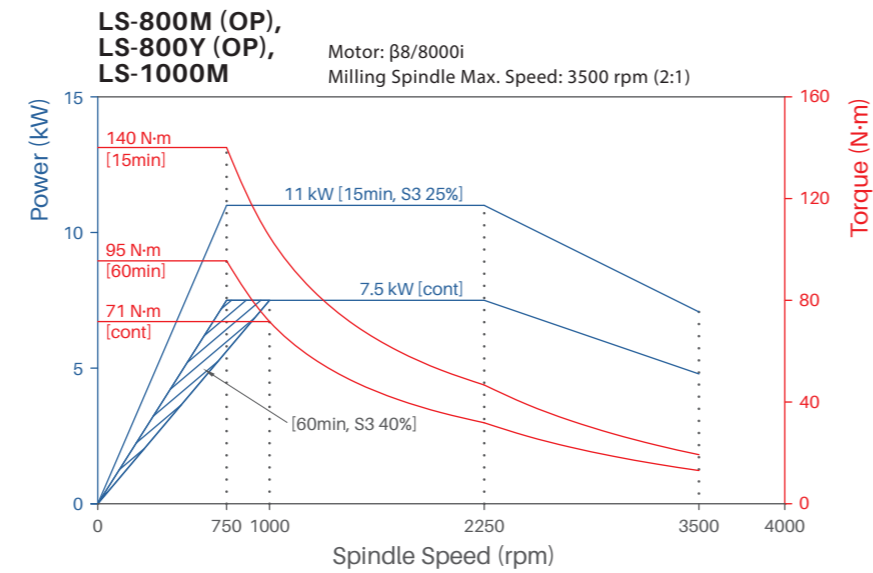
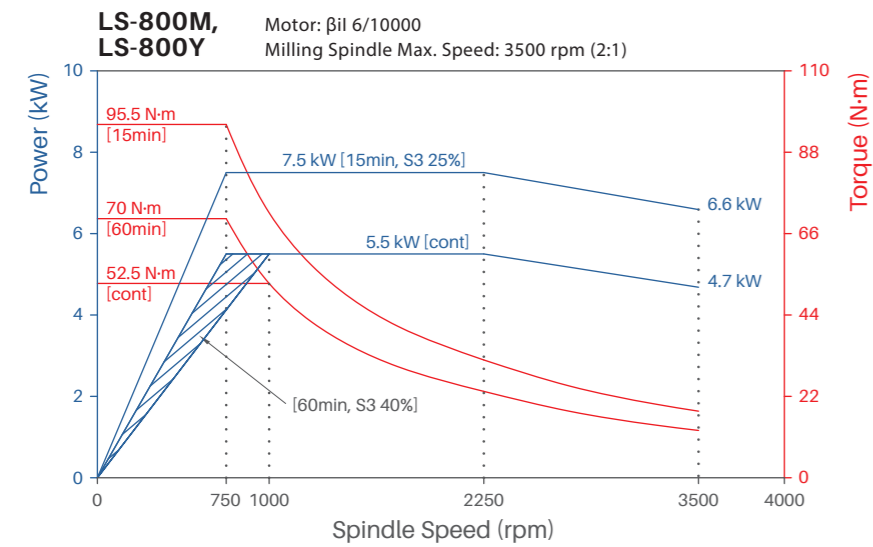
TWIN



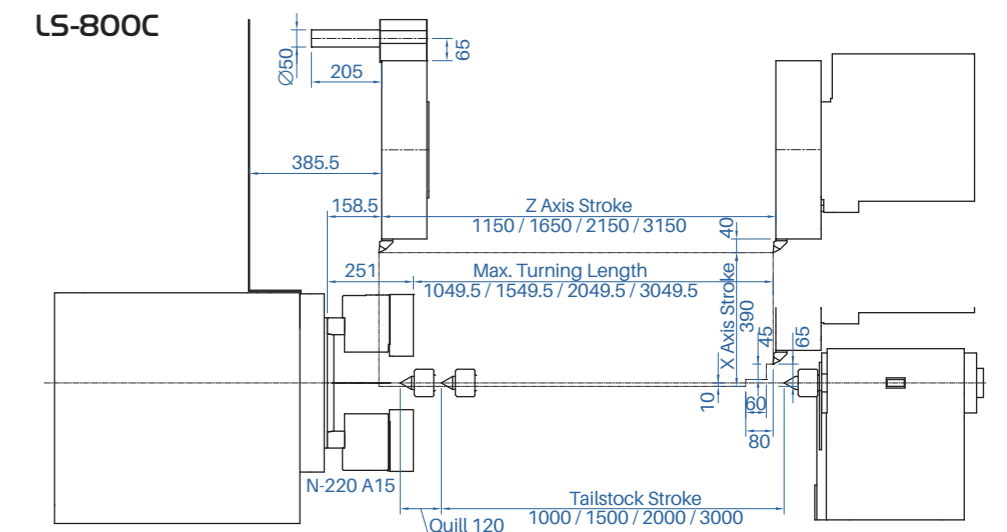
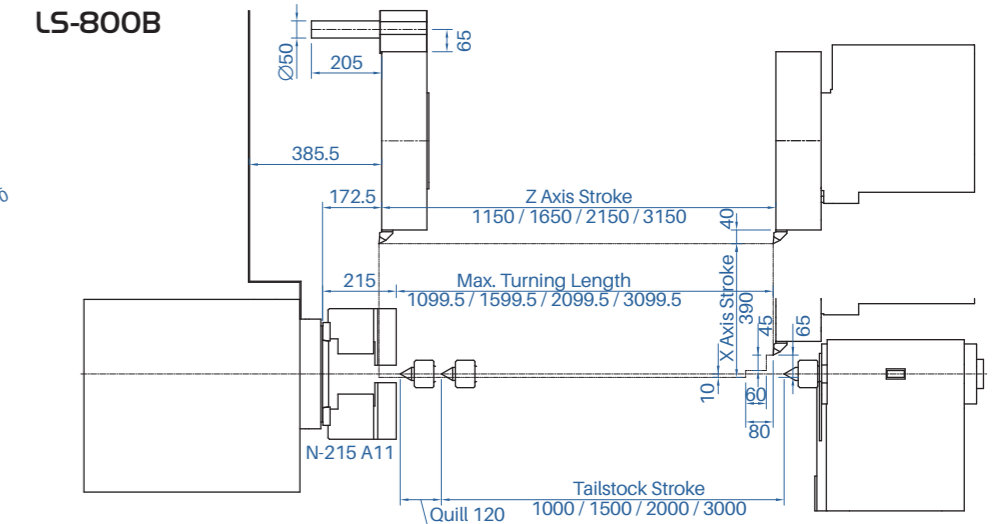
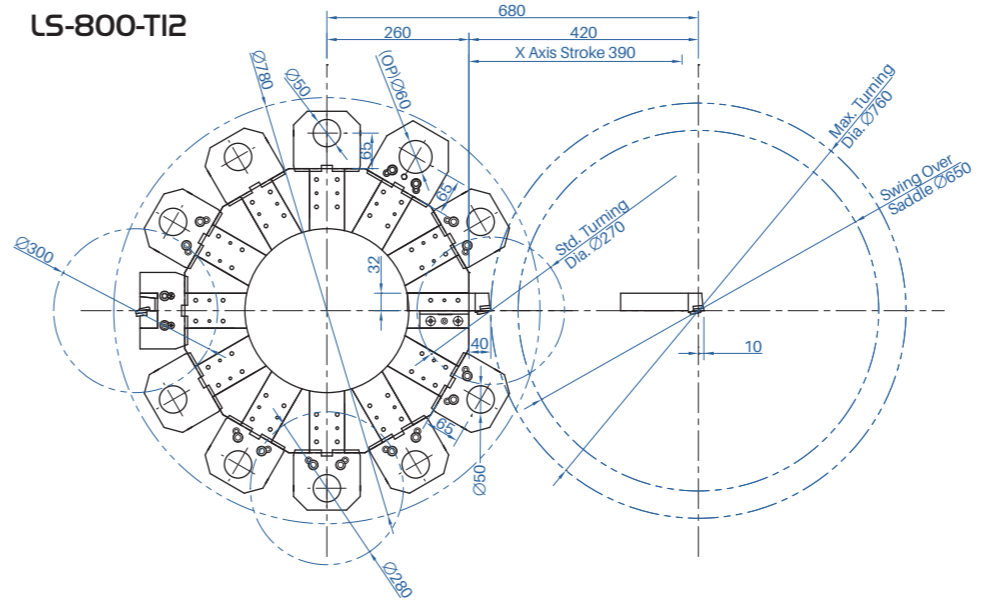
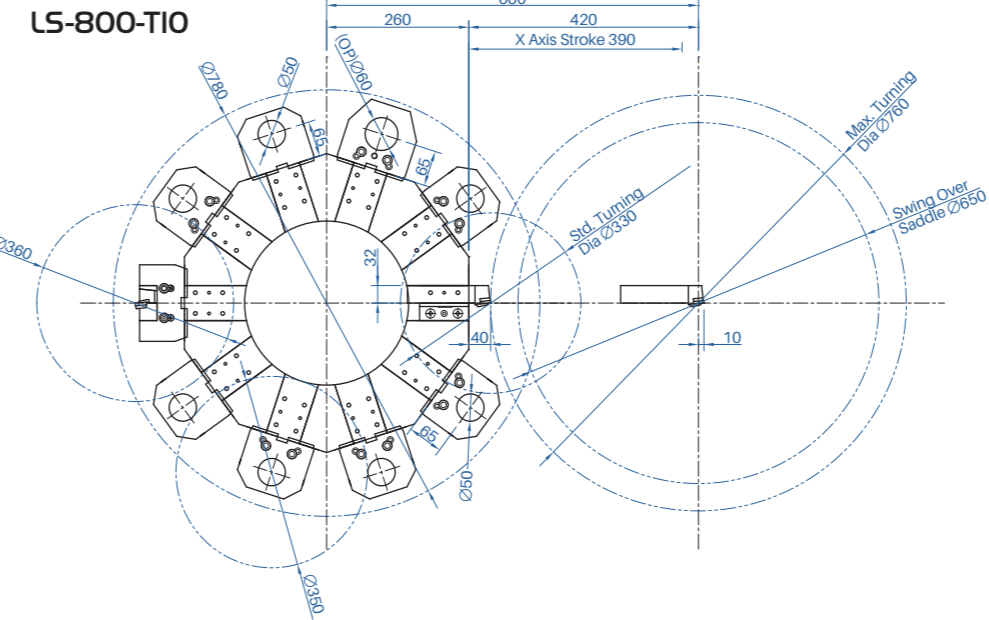
Spindle Output Diagram



Milling Output Diagram

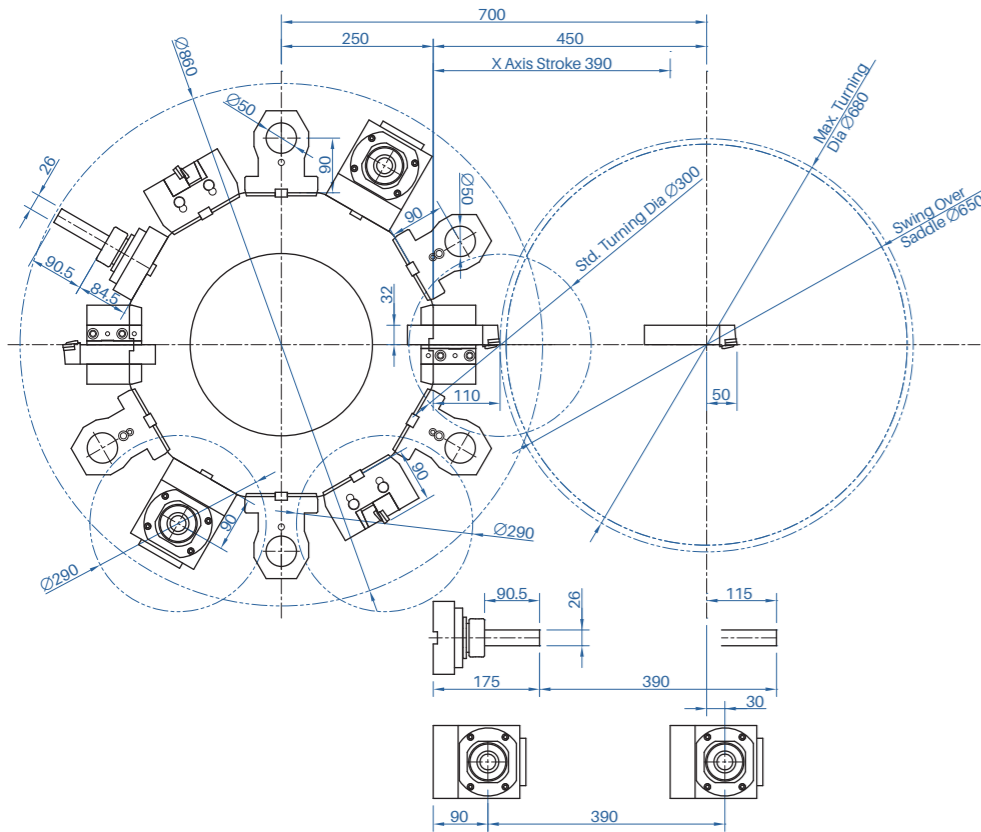


Interference & Travel Range

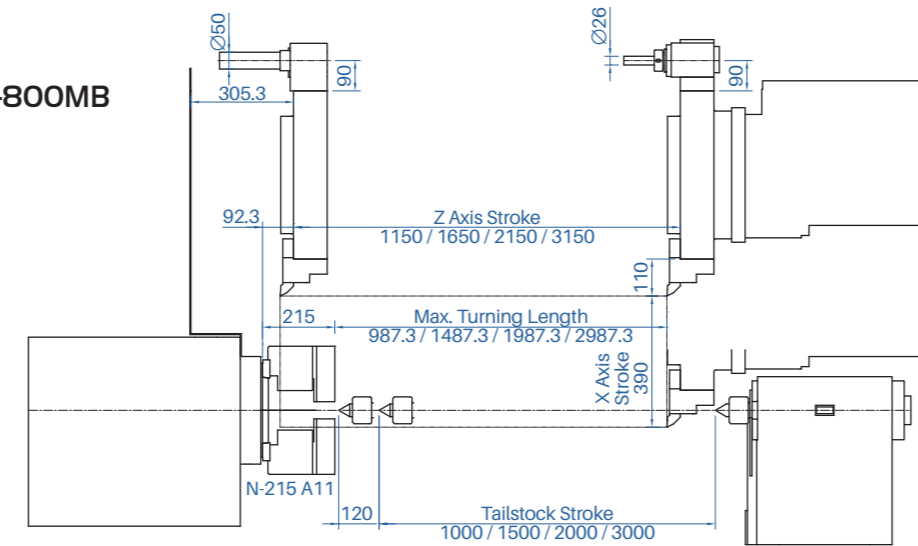


Interference & Travel Range

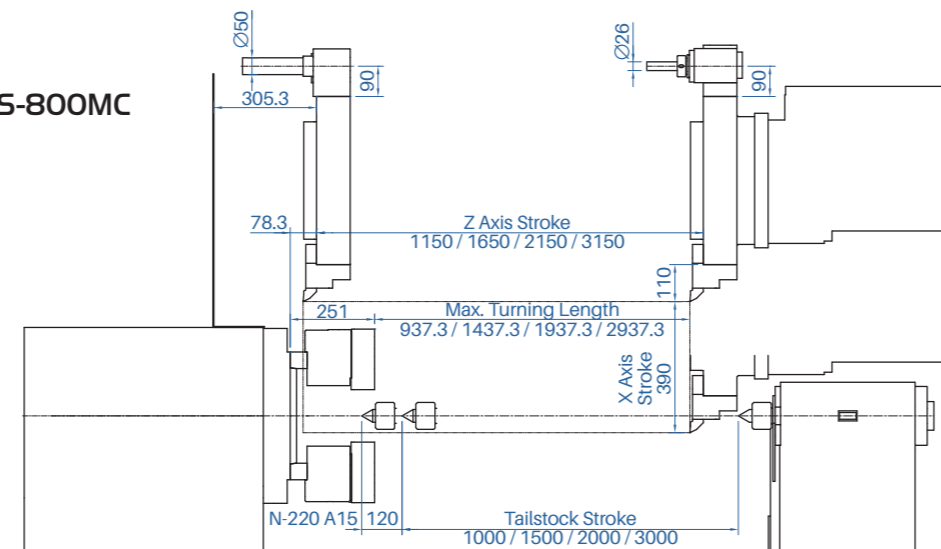
LS-800M-T12



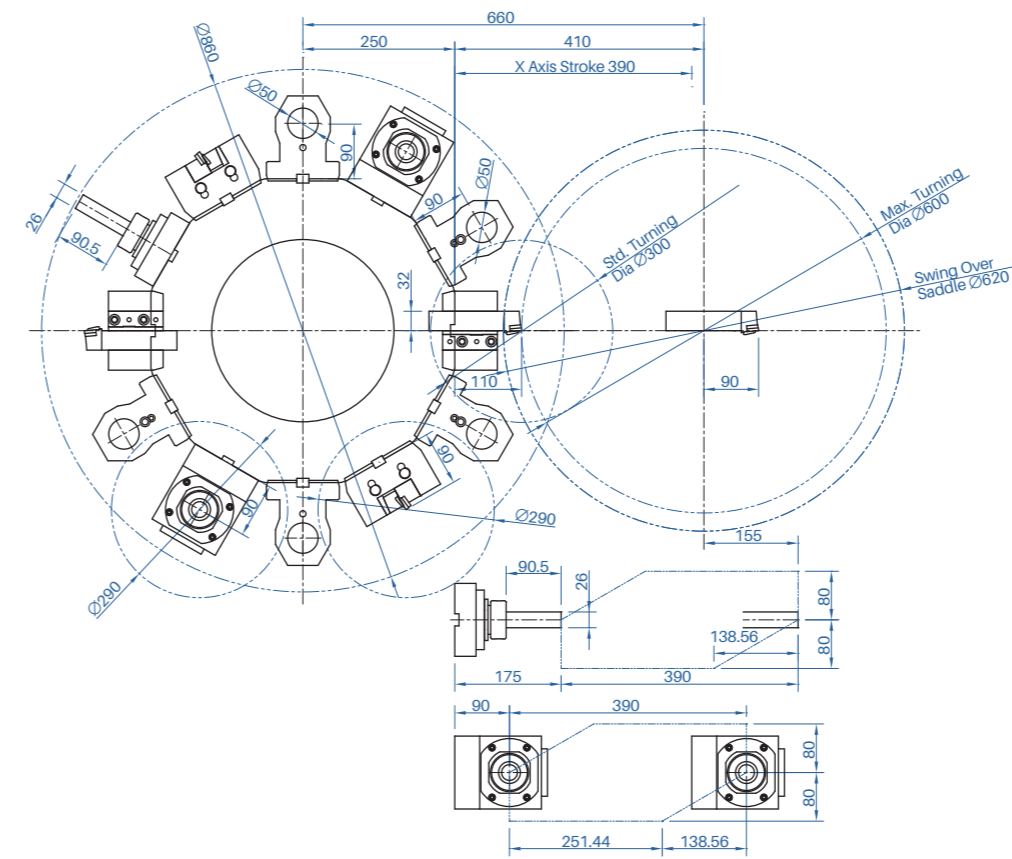
LS-800MB



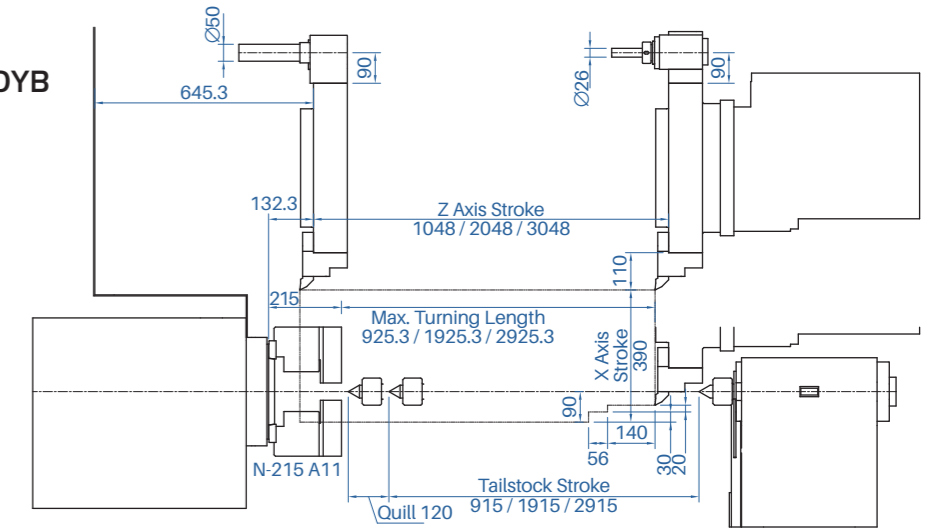
LS-800MC



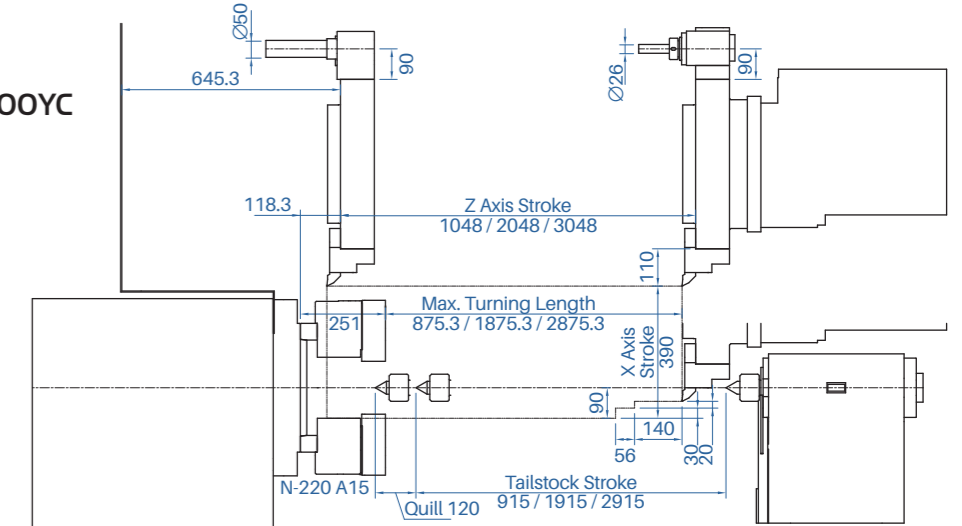
LS-800Y-T12



LS-800YB

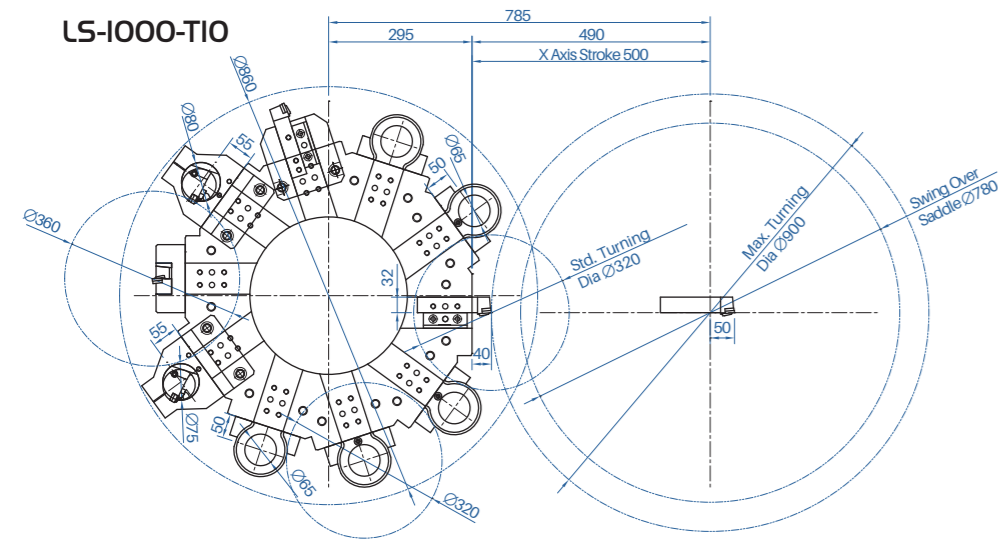


LS-800YC

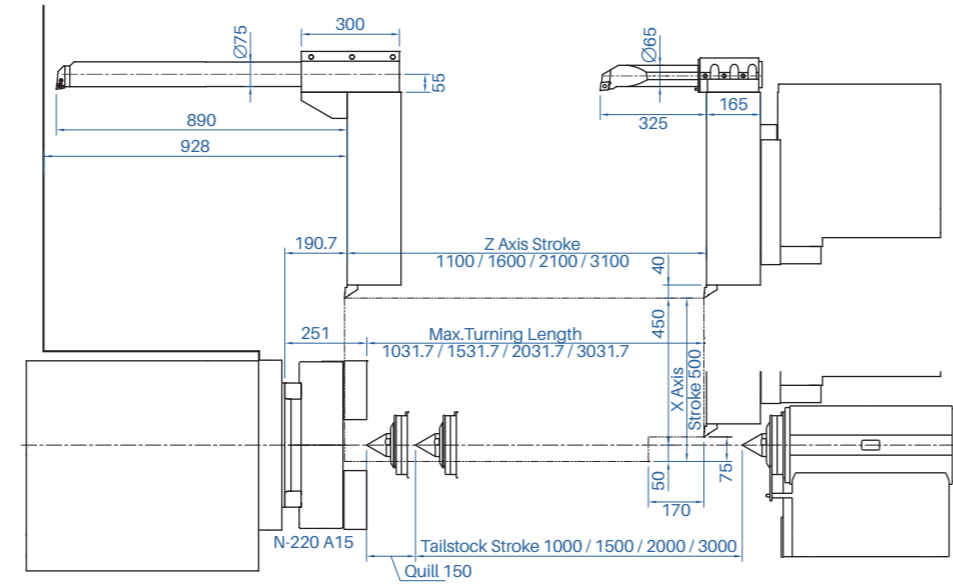


Interference & Travel Range

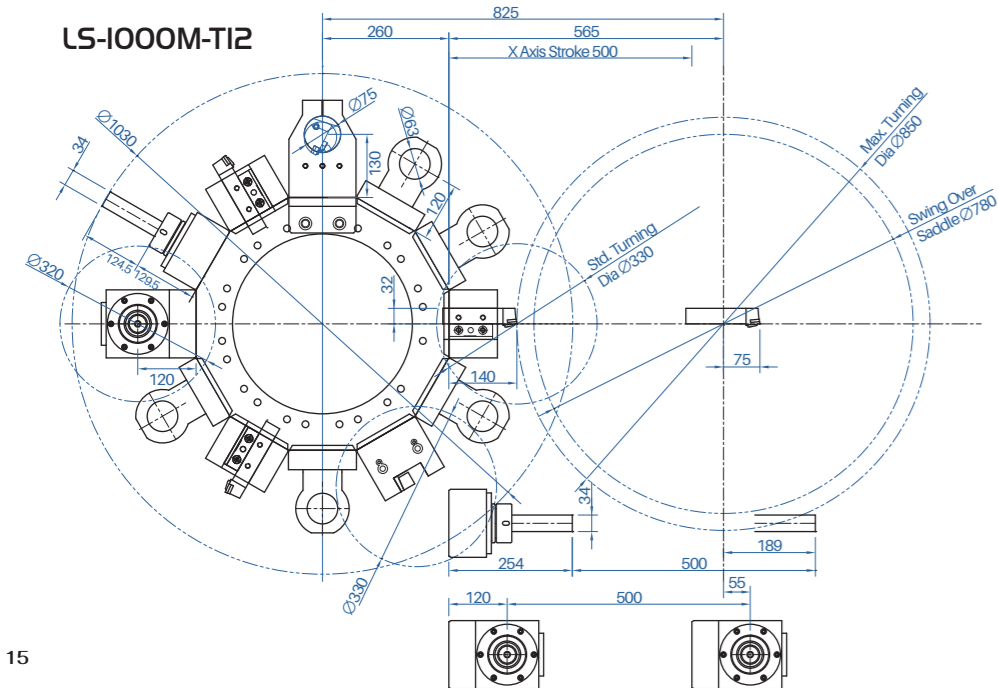
LS-1000-T10



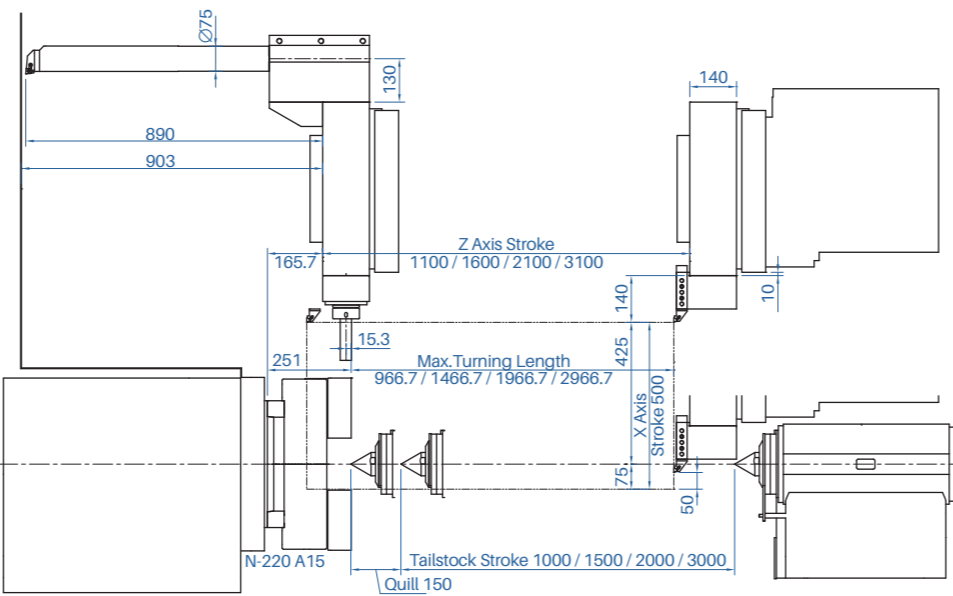
LS-1000



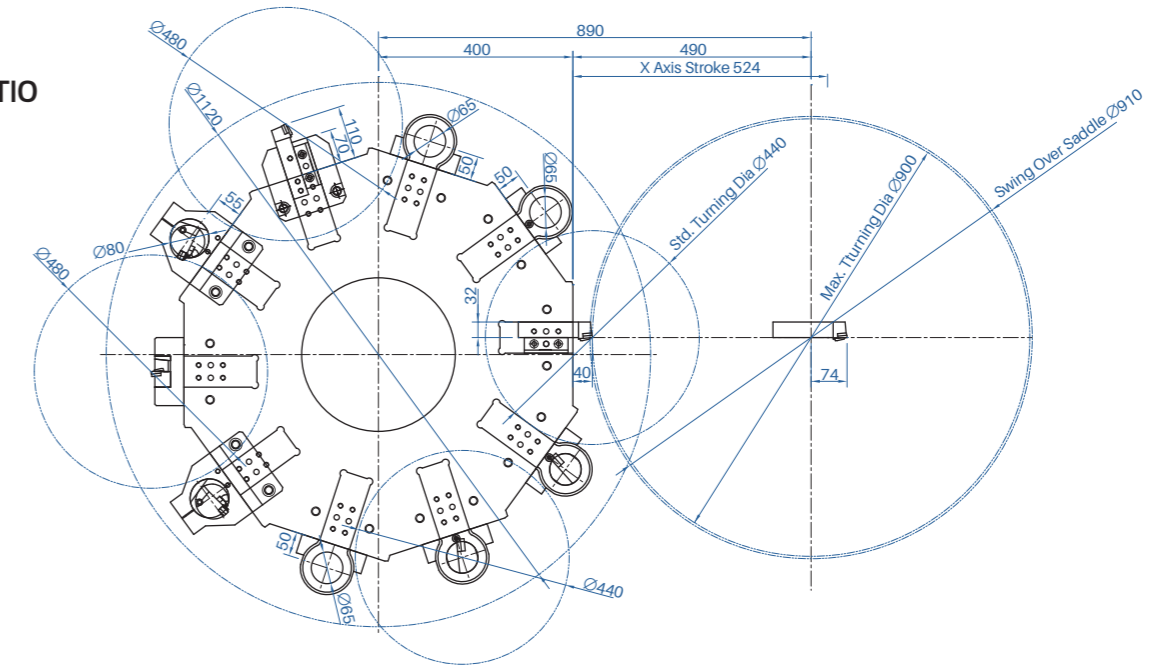
LS-1000M-T12



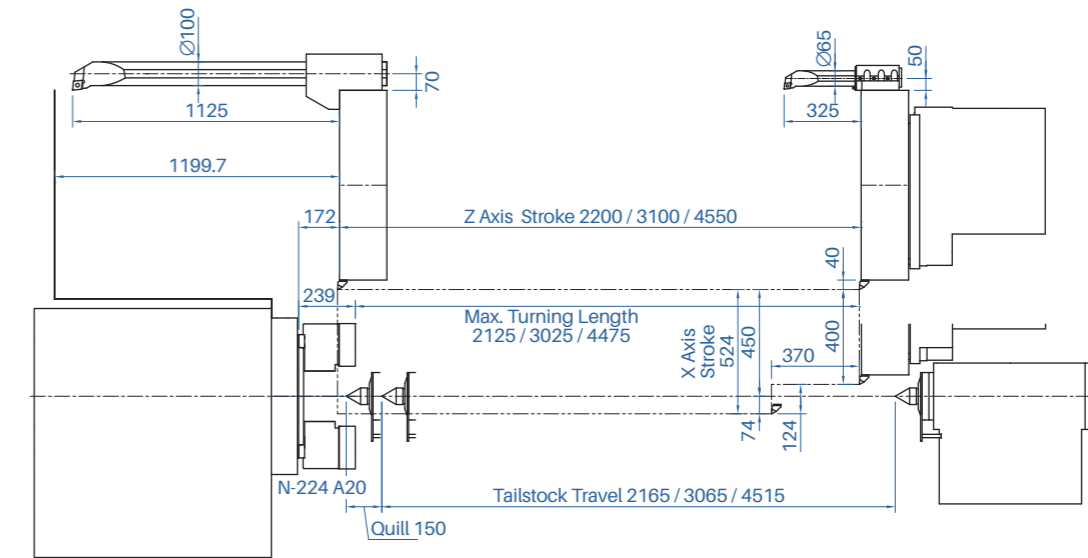
LS-1000M



LS-1100-T10

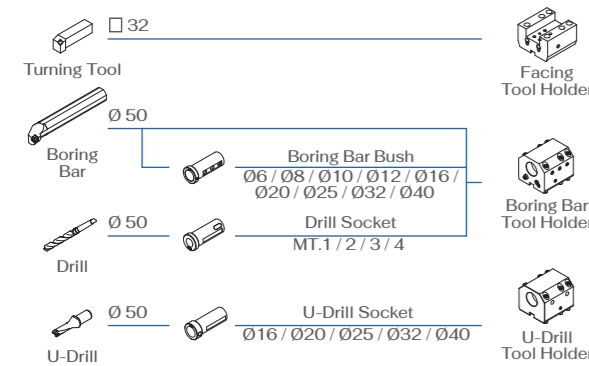


LS-1100

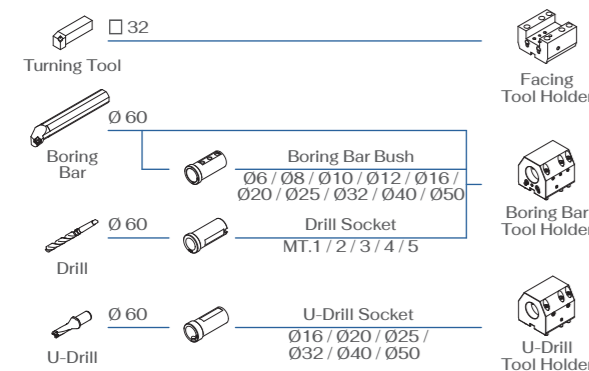


Tooling System

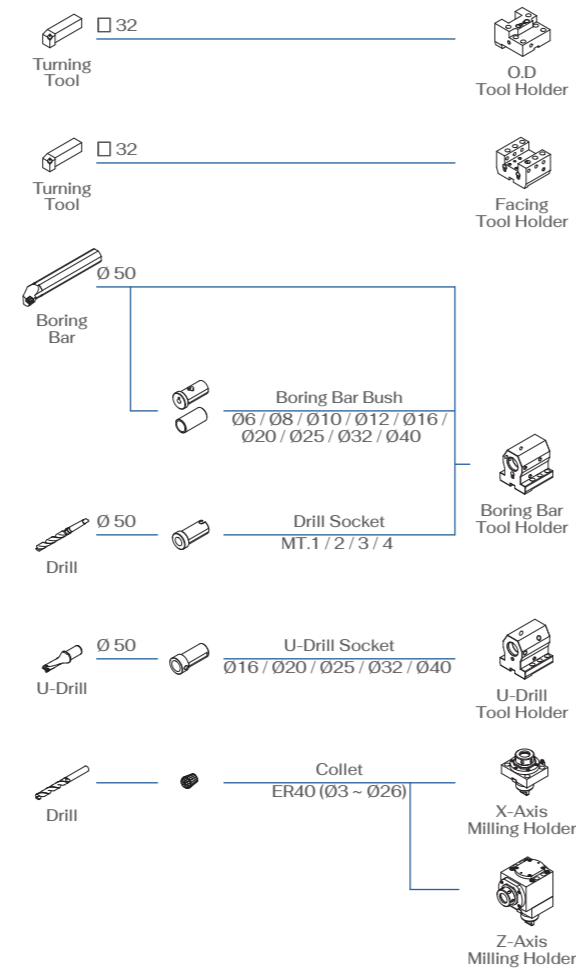
LS-800 T10/T12



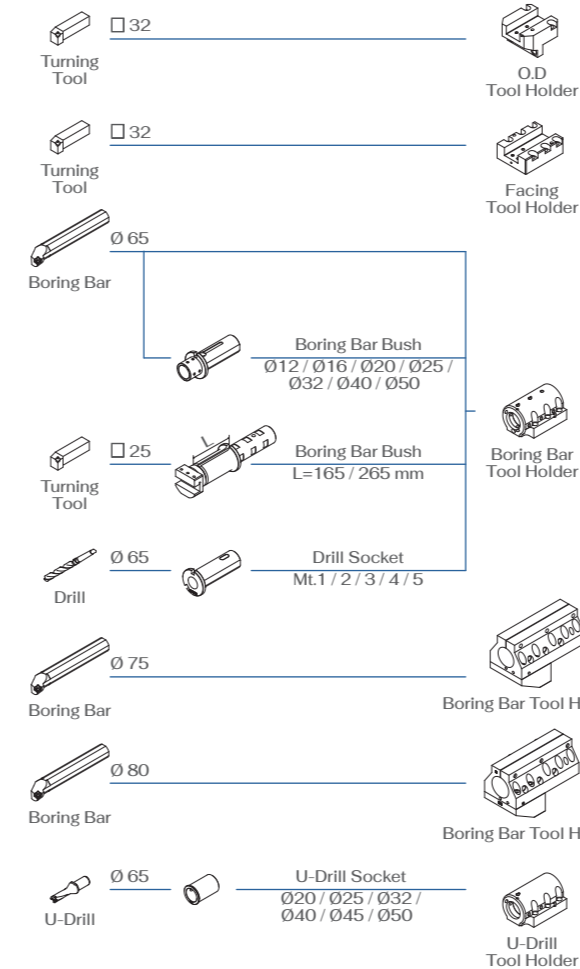
LS-800 T10/T12



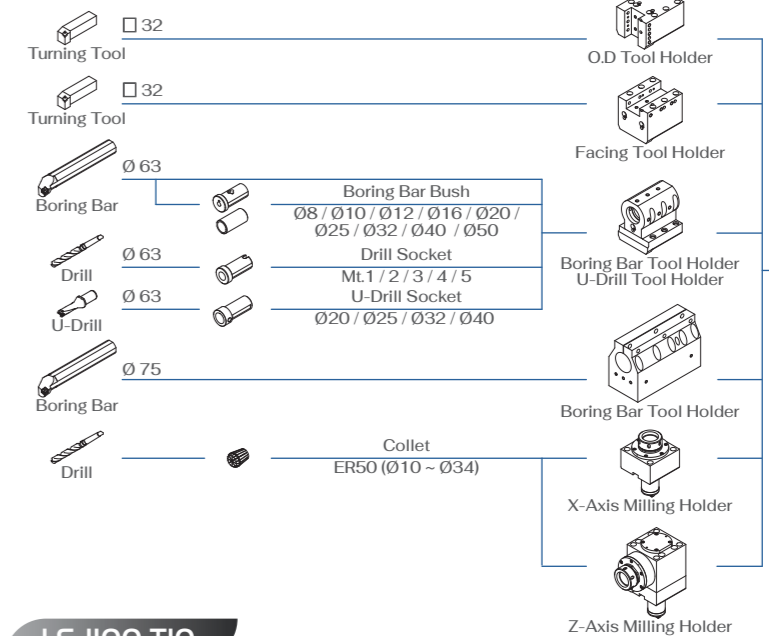
LS-800M/Y T12



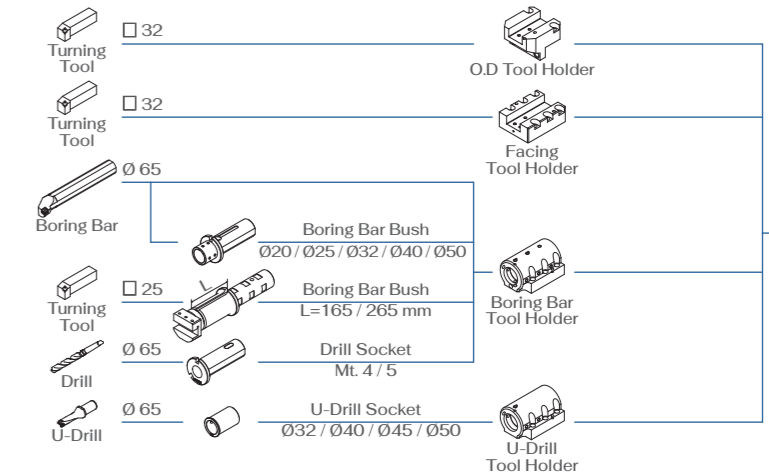
LS-1000 T10/T12



LS-1000M T12

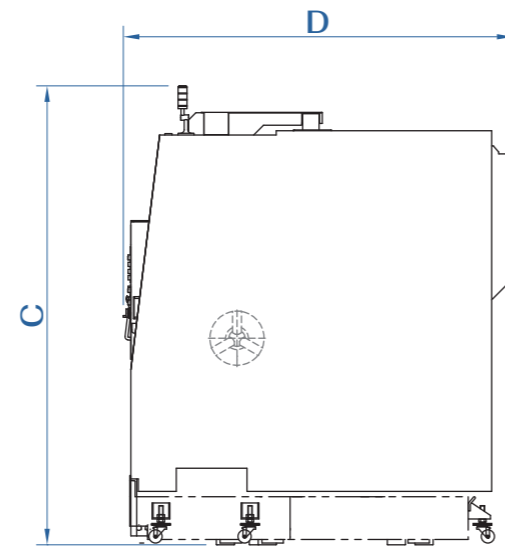
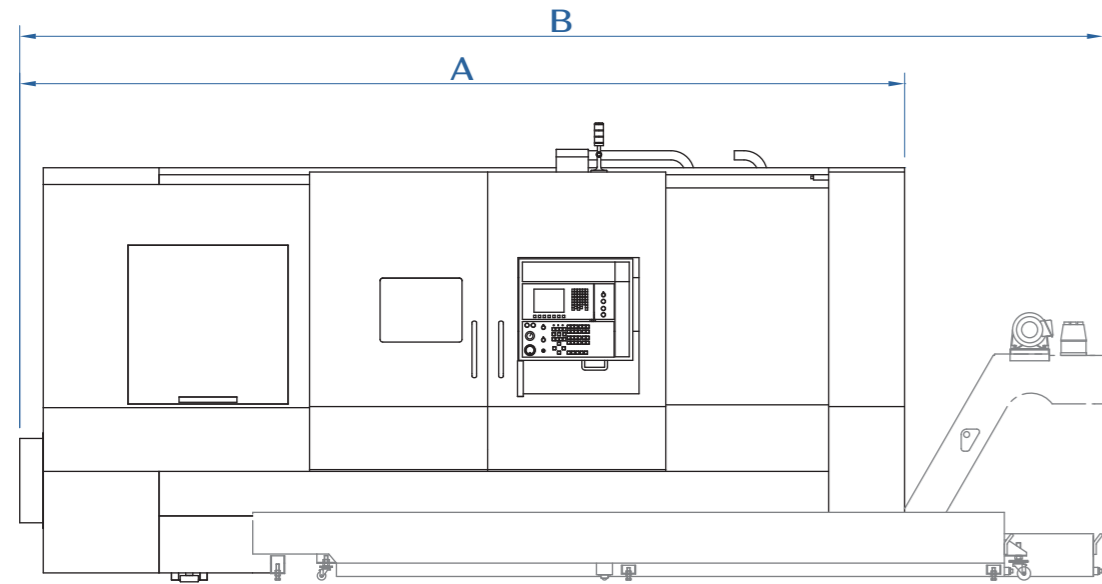


LS-1100 T10



Machine Dimensions

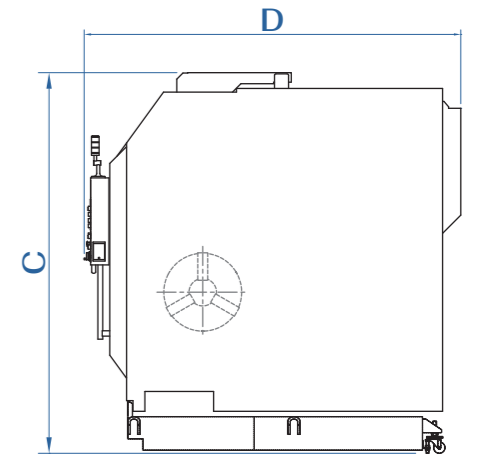
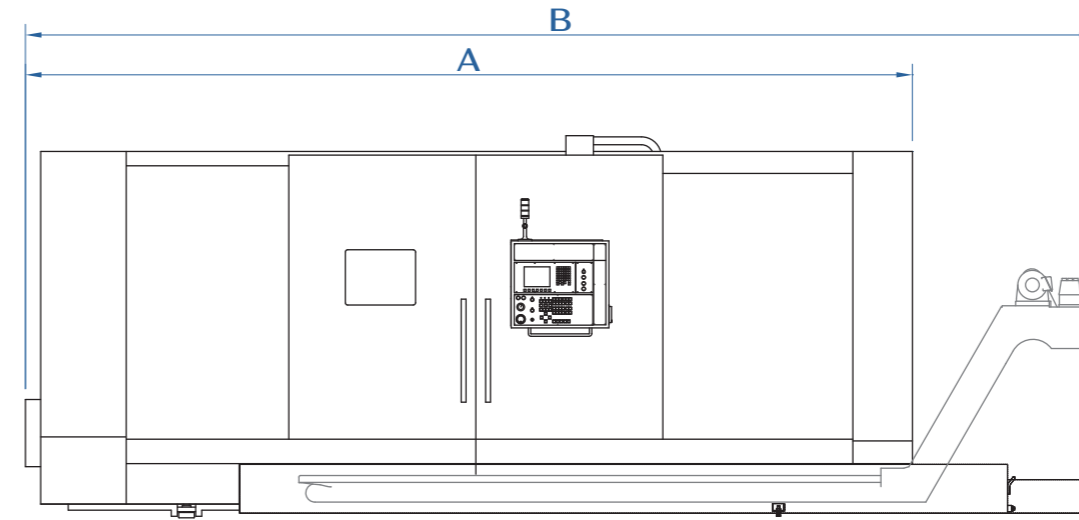
LS-800



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	4538	4968	5658	6882	4667	5632	6942
B	5669	6082	6847	8048	5833	6730	8088
C	2572	2572	2572	2572	2767	2767	2767
D	2188	2188	2188	2777	2436	2436	2900

LS-1000 / LS-1100



Machine Dimensions

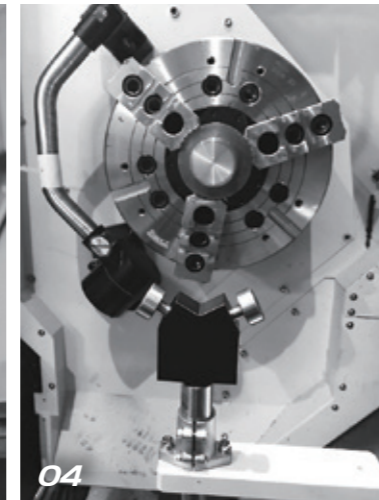
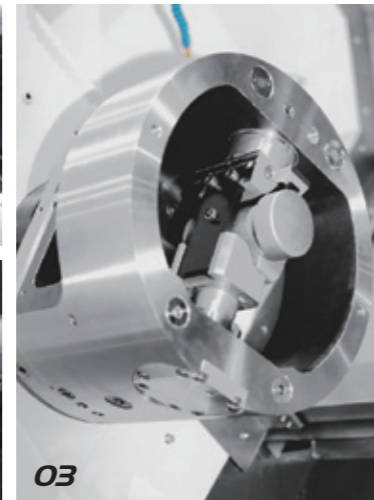
	LS-1000(M) L10	LS-1000(M) L15	LS-1000(M) L20	LS-1000(M) L30	LS-1100 L20	LS-1100 L30
A	4733	5202	5810	7060	6596	7530
B	6042	6392	7010	8260	7574	8414
C	2573	2573	2691	2812	2738	2738
D	2472	2472	2472	2809	2968	2968

Machine Specifications

Item		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	mm	830		830		830		830	
	Swing Over Saddle	mm	650		650		650		650	
	Std. Turning Diameter	mm	330 (270)		300		300		300	
	Max. Turning Diameter	mm	760		680		680		680	
	Max. Turning Length	mm	1099.5 / 1599.5 / 2099.5 / 3099.5		1049.5 / 1549.5 / 2049.5 / 3049.5		987.3 / 1487.3 / 1987.3 / 2987.3		937.3 / 1437.3 / 1937.3 / 2937.3	
	Max. Bar Work Capacity	mm	115		180		115		180	
Travel	X Axis Travel	mm	390		390		390		390	
	Z Axis Travel	mm	1150 / 1650 / 2150 / 3150		1150 / 1650 / 2150 / 3150		1150 / 1650 / 2150 / 3150		1150 / 1650 / 2150 / 3150	
	Y Axis Travel	mm	---		---		---		---	
Spindle	Spindle Speed	rpm	2000 (1500)		1200		2000 (1500)		1200	
	Chuck Size		15" (18")		20"		15" (18")		20"	
	Spindle Nose		A2-11		A2-15		A2-11		A2-15	
	Through Hole Diameter	mm	126		205		126		205	
	Bearing Diameter	mm	170		266		170		266	
Turret	Number of Tools		T10 (T12)		T12		T12		T12	
	Turning Tool Shank	mm	32		32		32		32	
	Boring Bar Shank Diameter	mm	50 (60)		50		50		50	
	Milling Tool Shank Diameter	mm	---		26		26		26	
Tailstock	Tailstock Travel	mm	1000 / 1500 / 2000 / 3000		1000 / 1500 / 2000 / 3000		1000 / 1500 / 2000 / 3000		1000 / 1500 / 2000 / 3000	
	Tailstock Spindle Diameter	mm	125 (150)		125 (150)		125 (150)		125 (150)	
	Taper Hole of Tailstock Spindle		MT.5 (MT.6)		MT.5 (MT.6)		MT.5 (MT.6)		MT.5 (MT.6)	
	Tailstock Spindle Travel	mm	120 (150)		120 (150)		120 (150)		120 (150)	
Feedrate	X Axis Rapid Traverse Rate	m/min	12		12		12		12	
	Z Axis Rapid Traverse Rate	m/min	20 / 16 / 16 / 12		20 / 16 / 16 / 12		20 / 16 / 16 / 12		20 / 16 / 16 / 12	
	Y Axis Rapid Traverse Rate	m/min	---		---		---		---	
Motor	Spindle Motor	kW	22 / 26 (30 / 37)		30 / 37		22 / 26 (30 / 37)		30 / 37	
	Index Motor	kW	1.2		1.2		1.2		1.2	
	Milling Motor	kW	---		5.5 / 7.5 (7.5 / 11)		5.5 / 7.5 (7.5 / 11)		5.5 / 7.5 (7.5 / 11)	
	X Axis Servo Motor	kW	4		4		4		4	
	Z Axis Servo Motor	kW	4 (7) / 4 (7) / 7 / 7		7 / 7 / 7 / 7		4 (7) / 4 (7) / 7 / 7		7 / 7 / 7 / 7	
	Y Axis Servo Motor	kW	---		---		---		---	
Size	Height	mm	2572		2572		2572		2572	
	Width	mm	4538 / 4968 / 5658 / 6882		4538 / 4968 / 5658 / 6882		4538 / 4968 / 5658 / 6882		4538 / 4968 / 5658 / 6882	
	Depth	mm	2188 / 2188 / 2188 / 2777		2188 / 2188 / 2188 / 2777		2188 / 2188 / 2188 / 2777		2188 / 2188 / 2188 / 2777	
	Weight	kg	10500 / 11300 / 13600 / 15100		11500 / 12300 / 14600 / 16100		10600 / 11400 / 13700 / 15200		11600 / 12400 / 14700 / 16200	

Item		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	mm	830		1030		1030		1030		1120	
	Swing Over Saddle	mm	620		780		780		780		910	
	Std. Turning Diameter	mm	300		320		330		330		440	
	Max. Turning Diameter	mm	600		900		850		850		900	
	Max. Turning Length	mm	925.3 / 1925.3 / 2925.3		875.3 / 1875.3 / 2875.3		1031.7 / 1531.7 / 2031.7 / 3031.7		966.7 / 1466.7 / 1966.7 / 2966.7		2125 / 3025 / 4475	
	Max. Bar Work Capacity	mm	115		180		180		180		205 (254)*	
Travel	X Axis Travel	mm	390		500		500		500		524	
	Z Axis Travel	mm	1048 / 2048 / 3048		1100 / 1600 / 2100 / 3100		1100 / 1600 / 2100 / 3100		1100 / 1600 / 2100 / 3100		2200 / 3100 / 4550	
	Y Axis Travel	mm	±80		---		---		---		---	
Spindle	Spindle Speed	rpm	2000 (1500)		1200		1200 (1000)		1200 (1000)		900	
	Chuck Size		15" (18")		20"		20" (24")		20" (24")		24" (32")	
	Spindle Nose		A2-11		A2-15		A2-15		A2-15		A2-20	
	Through Hole Diameter	mm	126		205		205		205		275	
	Bearing Diameter	mm	170		266		266		266		360	
Turret	Number of Tools		T12		T10 (T12) (T8)		T12		T12		T10	
	Turning Tool Shank	mm	32		32		32		32		32	
	Boring Bar Shank Diameter	mm	50		65 (75)		63		63		65 (75) / (100)	
	Milling Tool Shank Diameter	mm	26		---		34		34		---	
Tailstock	Tailstock Travel	mm	915 / 1915 / 2915		1000 / 1500 / 2000 / 3000		1000 / 1500 / 2000 / 3000		1000 / 1500 / 2000 / 3000		2165 / 3065 / 4515	
	Tailstock Spindle Diameter	mm	125 (150)		180		180		180		200	
	Taper Hole of Tailstock Spindle		MT.5 (MT.6)		MT.6		MT.6		MT.6		MT.6	
	Tailstock Spindle Travel	mm	120 (150)		150		150		150		150	
Feedrate	X Axis Rapid Traverse Rate	m/min	12		12		12		12		12	
	Z Axis Rapid Traverse Rate	m/min	20 / 16 / 12		16 / 16 / 16 / 12		16 / 16 / 16 / 12		16 / 16 / 16 / 12		12 / 10 / 6	
	Y Axis Rapid Traverse Rate	m/min	6		---		---		---		---	
Motor	Spindle Motor	kW	22 / 26 (30 / 37)		30 / 37		30 / 37 (37 / 45)		30 / 37 (37 / 45)		37 / 45 (45 / 55)	
	Index Motor	kW	1.2		1.2		1.2		1.2		1.2	
	Milling Motor	kW	5.5 / 7.5 (7.5 / 11)		---		7.5 / 11		7.5 / 11		---	
	X Axis Servo Motor	kW	7		4		4		4		6	
	Z Axis Servo Motor	kW	7		6		6		6		6 (11)	
	Y Axis Servo Motor	kW	7		---		---		---		---	
Size	Height	mm	2767		2573 / 2573 / 2691 / 2812		2573 / 2573 / 2691 / 2812		2573 / 2573 / 2691 / 2812		2738	
	Width	mm	4667 / 5632 / 6942		4733 / 5202 / 5810 / 7060		4733 / 5202 / 5810 / 7060		4733 / 5202 / 5810 / 7060		6596 / 7530 / 8860	
	Depth	mm	2436 / 2436 / 2900		2472 / 2472 / 2472 / 2809		2472 / 2472 / 2472 / 2809		2472 / 2472 / 2472 / 2809		2968	
	Weight	kg	12400 / 14600 / 16800		12900 / 15100 / 17300		12000 / 13500 / 16500 / 18000		12600 / 14100 / 17100 / 18600		24000 / 27000 / 31000	

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.



01

Linear Scales



02

Automatic & Manual Tool Setter



03

Nut Cooling Ball Screw



04

Cutting Fluid Cooling



05

High Pressure Coolant



06

Hydraulic Oil Cooling

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 6	●	●	●	—	—	—
Boring Bar Bush ø 8	●	●	●	—	—	—
Boring Bar Bush ø 10	●	●	●	—	—	—
Boring Bar Bush ø 12	●	●	●	—	—	—
Boring Bar Bush ø 16	●	●	●	—	—	—
Boring Bar Bush ø 20	●	●	●	●	●	●
Boring Bar Bush ø 25	●	●	●	●	●	●
Boring Bar Bush ø 32	●	●	●	●	●	●
Boring Bar Bush ø 40	●	●	●	●	●	●
Boring Bar Bush ø 50	—	—	—	●	●	●
U-drill Socket ø 16	●	●	●	—	—	—
U-drill Socket ø 20	●	●	●	—	—	—
U-drill Socket ø 25	●	●	●	—	—	—
U-drill Socket ø 32	●	●	●	●	●	●
U-drill Socket ø 40	●	●	●	●	●	●
U-drill Socket ø 45	—	—	—	●	●	●
U-drill Socket ø 50	—	—	—	●	●	●

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 Ø50 - 350	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-3.2 (Ø50 - 200)	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-4 (Ø30 - 245)	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-5 (Ø45 - 310)	◎	◎	◎	◎	◎	◎
Hydraulic Steady Rest SLU-5.1 (Ø85 - 350)	◎	◎	◎	◎	◎	◎
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-800M	LS-1100	LS-1000M
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-800M	LS-1100	LS-1000M
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	●	●	●	●

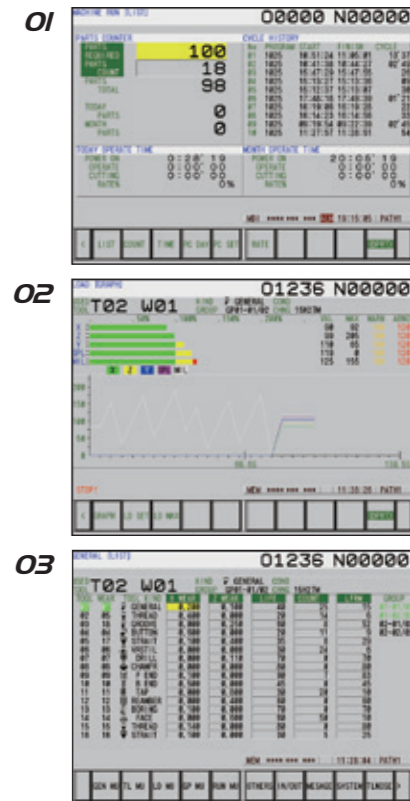
Specifications · Contents	LS-800			
	LS-1000	LS-800M	LS-1100	LS-1000M
Manual Feed Per Revolution	▲	▲	▲	▲
Program Input				
Tape Code (EIA / ISO Auto Recognition)	●	●	●	●
Label Skip	●	●	●	●
Parity Check	●	●	●	●
Control In / Out	●	●	●	●
Optional Block Skip, 1 Piece	●	●	●	●
Optional Block Skip (2 to 9 Pieces)	⊕	⊕	⊕	⊕
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-800M	LS-1100	LS-1000M
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-800M	LS-1100	LS-1000M
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

Smart Work Manager (Option)



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.