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ISO 9001-2000



series

State-of-the-Art CNC Lathes Designed

The most comprehensive range of CNC lathe
from 2-axis to turret lathe

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JCL

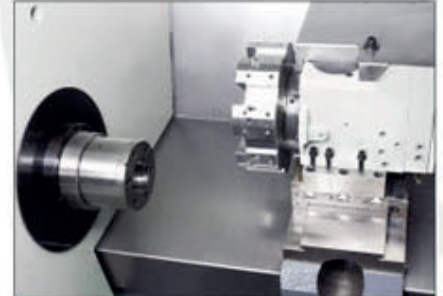


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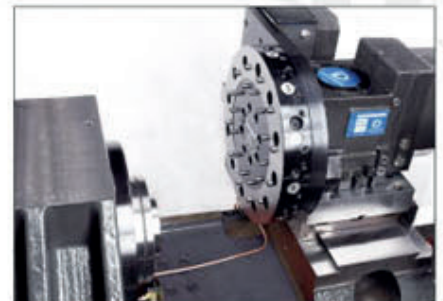
The most comprehensive range of CNC lathe from 2-axis to turret lathe

JCL-42T/52T/42TM/52TM

- 8-position turret.
- The spindle accommodates a 6" 3-jaw chuck or collet chuck.
- 20° slant bed structure facilitates chip disposal and easy workpiece access.
- Bar feeder shown in picture is optional.



TURRET-TYPE
JCL-42T / JCL-52T



POWER TURRET
The power turret features bi-directional tool change. Tool change time between adjacent tools is only 0.2 seconds. The turret loading capacity is 12 tools. The live tool head can be fitted with 6 tools. JCL-42TM / JCL-52TM



JCL-42T/52T/42TM/52TM

JCL-52/60/52A/60A/52M/60M/52AM/60AM

The SPEED series CNC lathe is excellent for heavy duty and continuous machining operations. The machine is carefully designed and built to ensure long term accuracy and fine finish on workpiece surface. The 30° slant bed structure, combined with the use of linear motion guides, provides extremely smooth motion. Fast traverse and quick tool change on the turret saves considerable non-cutting time. The machine features maximum stability when cutting various types of workpiece. Can also be equipped with power turret for milling and drilling operations, and a C-axis to save auxiliary operation time while increasing working efficiency.



HYDRAULIC TURRET AND TAILSTOCK (PROGRAMMABLE TAILSTOCK)

The 12-position hydraulic turret provides quick tool change in only 0.3 seconds. The tailstock movement is hydraulically operated and can be controlled by programs.

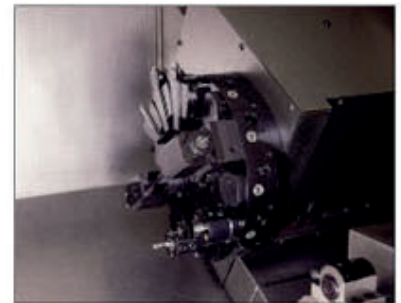


LINEAR GUIDE WAY

- The Z-axis is equipped with extra rigid linear ways. Each linear way has two blocks, producing extremely firm support.

HIGH PRECISION BALL SCREW

- The Z-axis ball screw is directly driven by servomotor. Extra large diameter of ball screw greatly upgrades feeding stability on Z-axis.



POWER TURRET

The power turret features bi-directional tool change. Tool change time between adjacent tools is only 0.2 seconds. The turret loading capacity is 12 tools. The live tool head can be fitted with 6 tools.



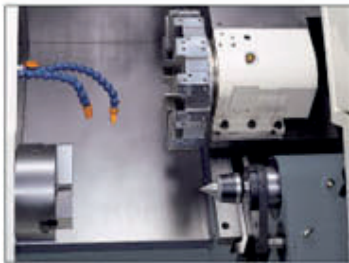
HYDRAULIC TURRET AND TAILSTOCK (PROGRAMMABLE TAILSTOCK)

The 12-position hydraulic turret provides quick tool change in only 0.3 seconds. The tailstock movement is hydraulically operated and can be controlled by programs.

The most comprehensive range of CNC lathe from 2-axis to turret lathe

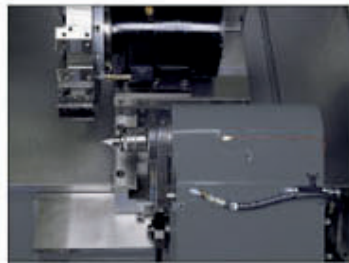
JCL-75/90/75A/90A/75M/90M/75AM/90AM

The SHARP series CNC lathe has a 45° slant bed, featuring powerful cutting, high torque output, and extra rigid structure. It prevents deformation on the bed and assures high stability while in heavy duty machining. The slant bed design facilitates tool mounting, change and inspection. Precision ball screws on two axes combined with high precision spindle provide high machining accuracy and fine finish surface. The SHARP series integrates fine craftsmanship, superior structural rigidity in a compact machine, and creates high value for high precision machining jobs.



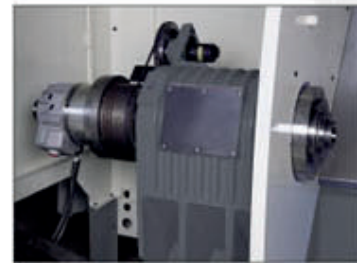
3-JAW CHUCK, TURRET AND TAILSTOCK

The 12-position heavy turret features large diameter curvic coupling and high pressure of 4396 kgf. Tool change time between adjacent tools is 0.3 seconds.



PROGRAMMABLE TAILSTOCK

The widely spaced tailstock slideways and heavy duty construction assure maximum rigidity. The center sleeve can be controlled by foot switch or programs.



PRECISION SPINDLE

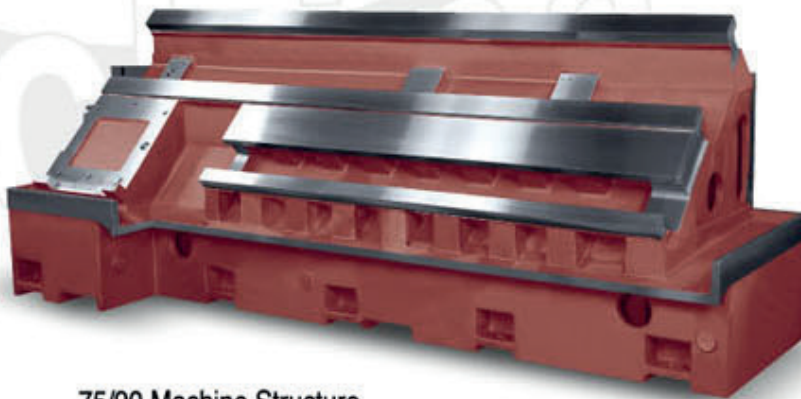
The spindle stock is manufactured from high quality Meehanite cast iron. The spindle stock surface has fins to increase heat dissipation efficiency while assuring spindle accuracy.



JCL-75/90/75A/90A/75M/90M/75AM/90AM

HEAVY DUTY 45° SLANT BED

- Optimal structure design assures outstanding dampening capability, dynamic stability and years of deformation-free performance.
- The massive base and 45° slant bed are one-piece constructed for greatly upgrading the rigidity and stability of the machine
- Box ways on X, Z-axis. Way surfaces are hardened, precision ground and coated with Turcite-B, featuring excellent wear resistance.
- Oversized slideways combined with greater span between ways exhibit maximum stability.



75/90 Machine Structure

One-piece constructed for extra high rigidity.

JCL-42T/52T/42TM/52TM

Accessories List	JCL	42T/52T	42TM/52TM
Lighting device		○	○
Coolant device		○	○
Splash guard		○	○
Tools & Tool Box		○	○
Base block 4 pcs		○	○
Inner cutting tool sleeve dia 8,10,12,16,20mm		○	○
VDI 12-position power turret		—	○
8-position hydraulic turret		○	—
Foot switch		○	○
6 3-jaw chuck		○	○
Operation manual		○	○
NC controller operation manual		○	○
NC controller maintenance manual		○	○
Wedge block 6 pcs		○	—
Heat exchanger		○	○
C-Axis		—	○
Chip conveyor		×	×
Chip cart		×	×
Tailstock		×	×
Chuck Air blow		×	×
VDI 90 degree power tools		—	×
VDI 180 degree power tools		—	×
Voltage stabilizer		×	×
Transformer		×	×
Single bar feeder		×	×
Hydraulic bar feeder		×	×

○: Standard ×: Optional -: Non

JCL-52/60/52A/60A/52M/60M/52AM/60AM

Accessories List	JCL	52/60	52A/60A	52M/60M	52AM/60AM
Lighting device		○	○	○	○
Coolant device		○	○	○	○
Splash guard		○	○	○	○
12-position hydraulic turret		○	○	—	—
Tailstock		○	○	○	○
Tools & Tool Box		○	○	○	○
Wedge block 8 pcs		○	○	×	×
Base block 5pcs		○	○	○	○
Inner cutting tool sleeve dia 8,10,12,16,20mm		○	○	×	×
Foot switch		○	○	○	○
Inner tool holder (turret) 5 pcs		○	○	×	×
8" 3-jaw chuck		○	○	○	○
Heat exchanger		○	○	○	○
Operation manual		○	○	○	○
NC controller operation manual		○	○	○	○
NC controller maintenance manual		○	○	○	○
Chuck air blow		○	○	○	○
VDI 12-position power turret		—	—	○	○
C-Axis		—	—	○	○
Chip conveyor		×	×	×	×
Chip cart		×	×	×	×
Collect chuck		×	×	×	×
Parts conveyor		×	×	×	×
Parts catcher		×	×	×	×
Tool pre-setter		×	×	×	×
5 degree multiple cycle setting device (max. 12 position)		—	—	×	×
Programmable tailstock		×	×	×	×
12-position servo hydraulic turret		×	×	—	—
Transformer		×	×	×	×
Voltage stabilizer		×	×	×	×
Single bar feeder		×	×	×	×
Hydraulic bar feeder		×	×	×	×

○: Standard ×: Optional -: Non

JCL-75/90/75A/90A/75M/90M/75AM/90AM

Accessories List	JCL	75/90	75A/90A	75M/90M	75AM/90AM
Lighting device		○	○	○	○
Coolant device		○	○	○	○
Splash guard		○	○	○	○
12-position hydraulic turret		○	○	—	—
Tailstock		○	○	○	○
Chuck Air blow		○	○	○	○
Tools & Tool Box		○	○	○	○
Wedge block 12 pcs		○	○	—	—
Base block 10pcs		○	○	○	○
Inner cutting tool sleeve dia 8,10,12,16,20mm		○	○	×	×
Foot switch		○	○	○	○
10/12" 3-jaw chuck		○(10")/12"	○(10")/12"	○(10")/12"	○(10")/12"
Inner tool holder (turret) 5 pcs		○	○	×	×
Heat exchanger		○	○	○	○
Operation manual		○	○	○	○
NC controller operation manual		○	○	○	○
NC controller maintenance manual		○	○	○	○
Power turret		—	—	○	○
C-Axis		—	—	○	○
Chip conveyor		×	×	×	×
Chip cart		×	×	×	×
Transformer		×	×	×	×
Parts conveyor		×	×	×	×
Parts catcher		×	×	×	×
Tool pre-setter		×	×	×	×
5 degree multiple cycle setting device (max. 12 position)		—	—	×	×
Programmable tailstock		×	×	×	×
Servo hydraulic turret		×	×	—	—
Voltage stabilizer		×	×	×	×

○: Standard ×: Optional -: Non

SPECIFICATIONS:

ITEM	UNIT	JCL-42/52T	JCL-52/60	JCL-52/60A	JCL-75/90
Max. swing over bed	mm	Ø440	Ø510	Ø510	Ø670
Max. turning diameter	mm	Ø200	Ø320	Ø320	Ø520
Max. turning length	mm	215/205	320	500	610
Material collect length	mm	100	130	130	150
Spindle max. bar capacity	mm	Ø42/Ø50	Ø50/Ø60	Ø50/Ø60	Ø73/Ø89
Spindle bore diameter	mm	Ø55.5/Ø70	Ø70/Ø75	Ø70/Ø75	Ø87/Ø102
Spindle nose		A2-5	A2-5/A2-6	A2-5/A2-6	A2-8
Spindle speed range	rpm	45~4000	45~3500	45~3500	45~3000
Spindle motor	kw	5.5(7.5)/7.5	15	15	18.5/22
Number of tool stations		8	12(8)	12(8)	12/10
Max. stroke X-axis	mm	120	170	170	270
Max. stroke Z-axis	mm	225/215	360	550	650
Rapid traverse X-axis	m/min	12(16)	16	16	16
Rapid traverse Z-axis	m/min	12(16)	20	20	20
Turret indexing time	sec	0.3	0.3	0.3	0.3
Machine design	deg	20°	30°	30°	45°
Slideway type		Square Guideway	Linear Guideway	Linear Guideway	Square Guideway
Tailstock taper		-	MT4	MT4	MT5
Tailstock traverse	mm	-	100	100	160
Spindle hydraulic chuck	inch	6"	8"	8"	10" /12"
Turning tool diameter	mm	□20	□20(25)	□20(25)	□32
Boring tool diameter	mm	Ø25	Ø32(40)	Ø32(40)	Ø50
Driven tool motor power /30min	kw	-	-	-	-
Hydraulic motor	kw	0.75	1.5	1.5	1.5
Lubrication motor	w	3.5	3.5	3.5	75
Power requirement	kva	15	32	32	44
Coolant tank capacity	L	100L(85%)	120L(85%)	120L(85%)	190L(85%)
Machine dimensions (LxWxH)	mm	2255x1800x1800	2475x1605x1910	2780x1625x1948	3209x1990x2200
Weight	kg	2235/2265	2800	3200	6350/6380



HYDRAULIC POWER UNIT

- The hydraulic power unit provides power for 3-jaw chuck, hydraulic turret and hydraulic tailstock.
- The hydraulic power unit consists of high quality components, assuring extremely stable motions, low noise and long service life.

HEAT EXCHANGER FOR ELECTRICAL CABINET

- The high efficiency heat exchanger allows for constant temperature in the electrical cabinet. It also ensures the performance dependability of electronic components.



TOOL PRESETTER

The automatic tool setter is designed to minimize cutting tests. It permits for measuring the tool length and tool diameter. The tool adjustment arm is powered and programmable controlled.

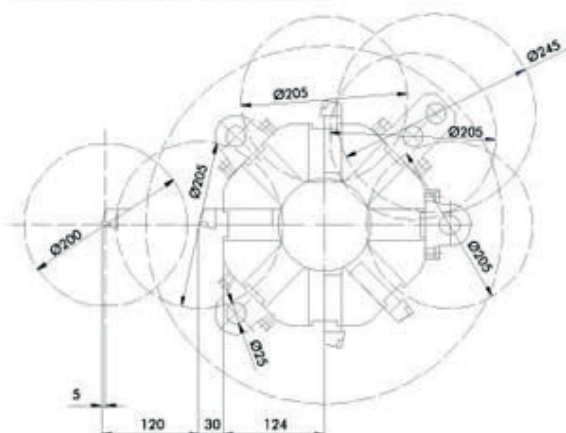
JCL-50/60/75/90

JCL-75/90A	JCL-42/52TM	JCL-52/60M	JCL-52/60AM	JCL-75/90M	JCL-75/90AM
Ø670	Ø440	Ø510	Ø510	Ø670	Ø670
Ø520	Ø140	Ø230	Ø230	Ø400	Ø400
1100	180/160	260	440	540	1100
150	100	130	130	150	150
Ø73/Ø89	Ø42/Ø50	Ø50/Ø60	Ø50/Ø60	Ø73/Ø89	Ø73/Ø89
Ø87/Ø102	Ø55.5/Ø70	Ø70/Ø75	Ø70/Ø75	Ø87/Ø102	Ø87/Ø102
A2-8	A2-5	A2-5/A2-6	A2-5/A2-6	A2-8	A2-8
45~3000	45~4000	45~3500	45~3500	45~3000	45~3000
18.5/22	7.5	15	15	18.5/22	18.5/22
12/10	12	12	12	12	12
270	120	170	170	270	270
1150	190/170	300	480	550	1050
16	12(16)	16	16	16	16
20	12(16)	20	20	20	20
0.3	0.3	0.3	0.3	0.3	0.3
45°	20°	30°	30°	45°	45°
Square Guideway	Square Guideway	Linear Guideway	Linear Guideway	Square Guideway	Square Guideway
MT5	-	MT4	MT4	MT5	MT5
160	-	100	100	160	160
10" / 12"	6"	8"	8"	10" / 12"	10" / 12"
□32	□16	□20(25)	□20(25)	□32	□32
Ø50	VDI 20	VDI 30	VDI 30	VDI 50	VDI 50
-	1.5	2.2	2.2	7.5	7.5
1.5	0.75	1.5	1.5	1.5	1.5
75	3.5	3.5	3.5	75	75
44	17	36	36	56/62	56/62
190L(85%)	100L(85%)	120(85%)	120(85%)	190L(85%)	190L(85%)
3965x1990x2200	2255x1800x1800	2475x1605x1910	2780x1625x1948	3290x1990x2200	3965x1990x2200
7510/7530	2260/2290	2900	3300	6400/6430	7560/7590

CUTTING TOOL SYSTEM:

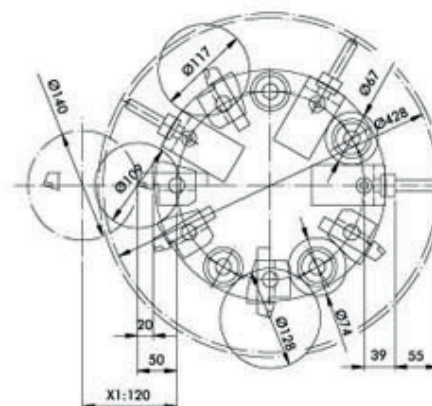
JCL-42/52T

TOOL INTERFERENCE DIAGRAM



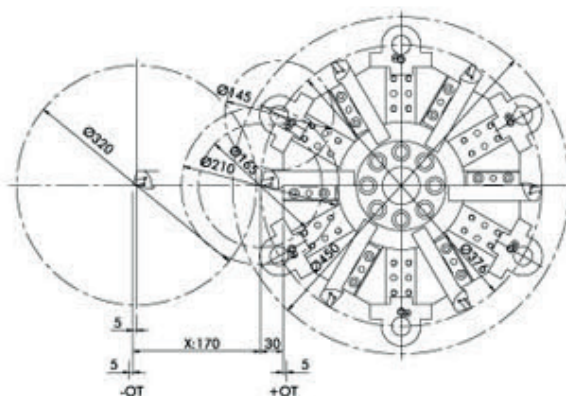
JCL-42/52TM

TOOL INTERFERENCE DIAGRAM



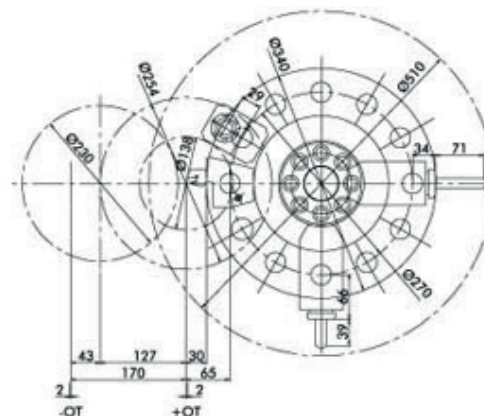
JCL-52/60/52A/60A

TOOL INTERFERENCE DIAGRAM



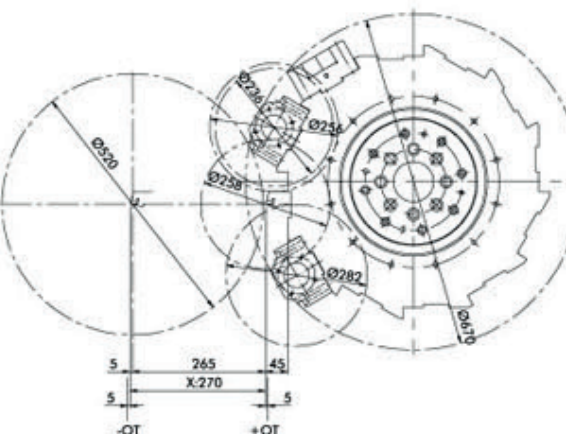
JCL-52M/60M/52AM/60AM

TOOL INTERFERENCE DIAGRAM



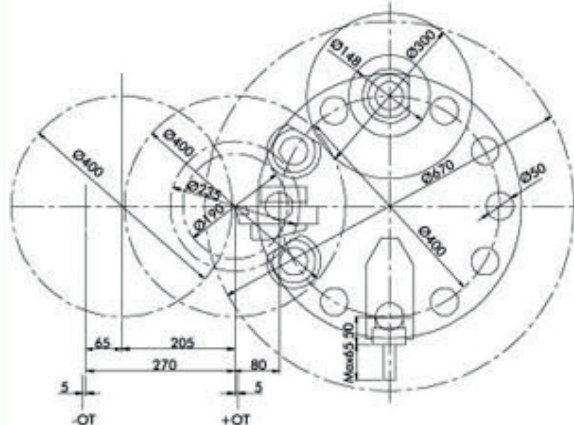
JCL-75/90/75A/90A

TOOL INTERFERENCE DIAGRAM



JCL-75M/90M/75AM/90AM

TOOL INTERFERENCE DIAGRAM



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