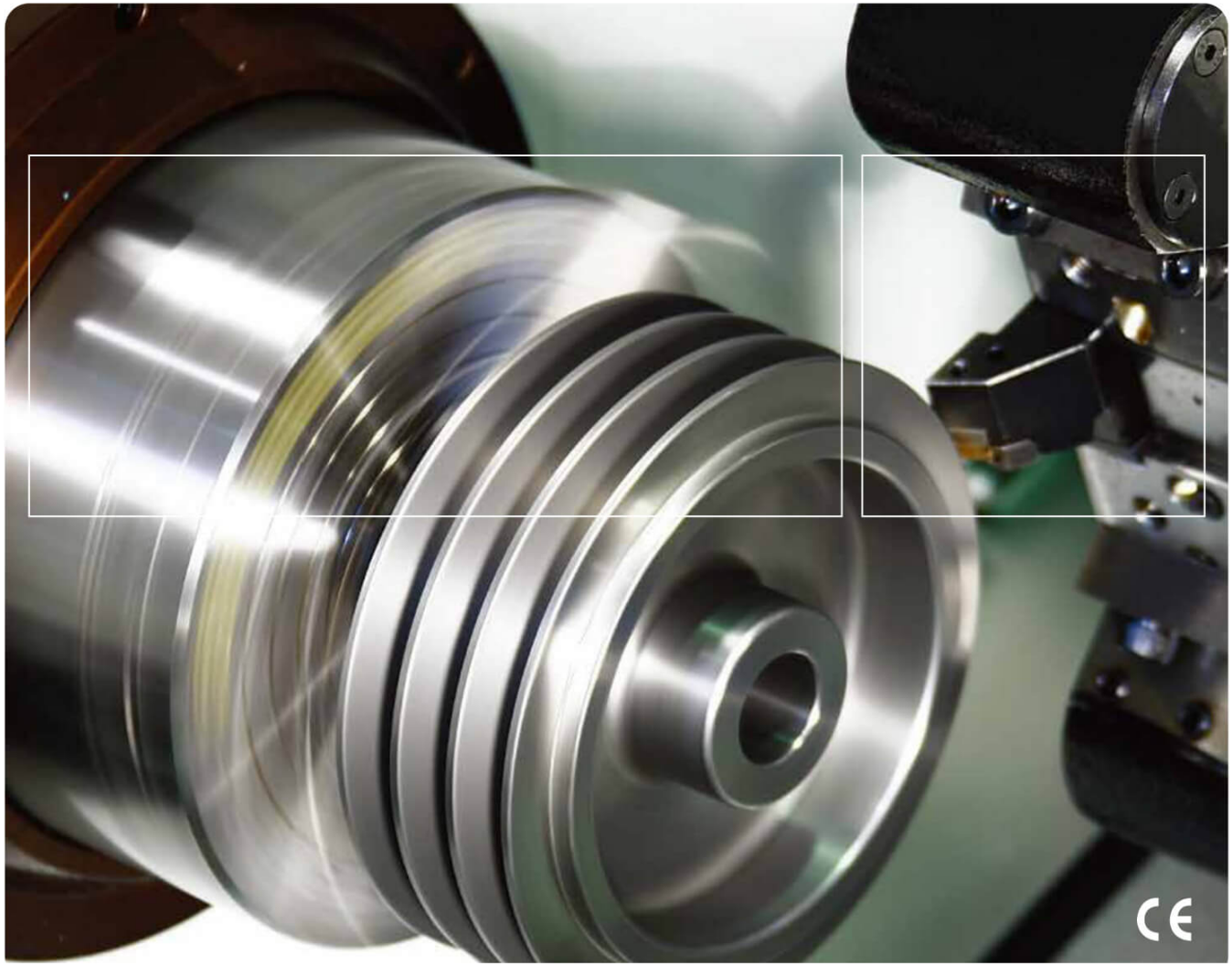
SHUN CHUAN SUN MASTER



SHUN CHUAN PRECISION MACHINERY CO., LTD.

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Company History

Established in 1994, Shun Chuan Precision Machinery Co., Ltd. specializes in the design and manufacture of metalworking machinery. Although Shun Chuan is still comparatively young, but derived extensive knowledge from a former reputed company's 25 years of precision manufacturing experience. Therefore, Shun Chuan is often referred to as "a young but experienced manufacturer."

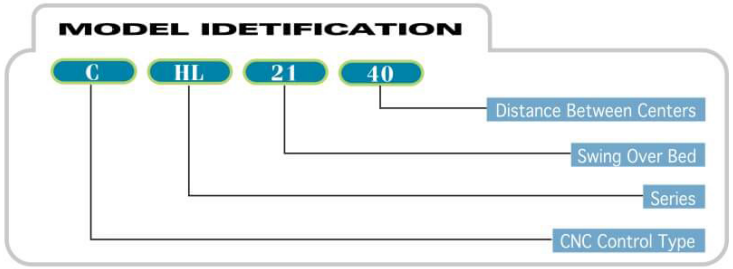
Since establishmend, Shun Chuan has dedicated itself to R&D and innovation based on extensive manufacturing experience. Shun Chuan has won a solid reputation for the dependability of its products.

In the early years, Shun Chuan produced the complete range of conventional lathes originally developed by the former reputed Company. Over the next several years, Shun Chuan constantly improved machine design, construction and developed new models including the currently popular conversational computerized lathes. At the moment, Shun Chuan produces the most complete range of lathes among Taiwan lathe manufacturers.

Shun Chuan machines have been sold to over 70 countries in Europe, America, Africa, the Middle East, and Asia. In addition to our current business, our new customers are gradually increasing providing Shun Chuan with the opportunity to expand our products and services. We will constantly develop new models to provide flexible choices and a competitive edge to our customers all over the world.

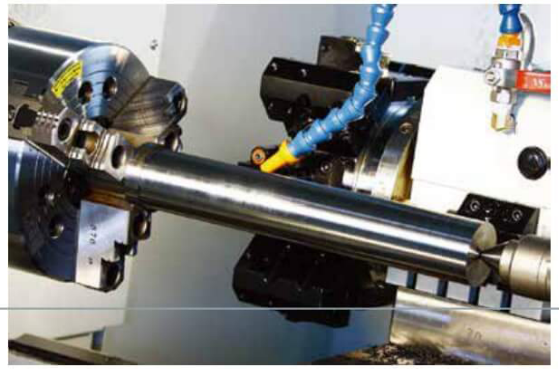
Advanced Turning Technology

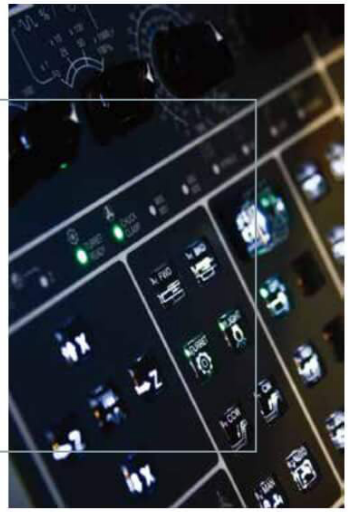
Current Product Range

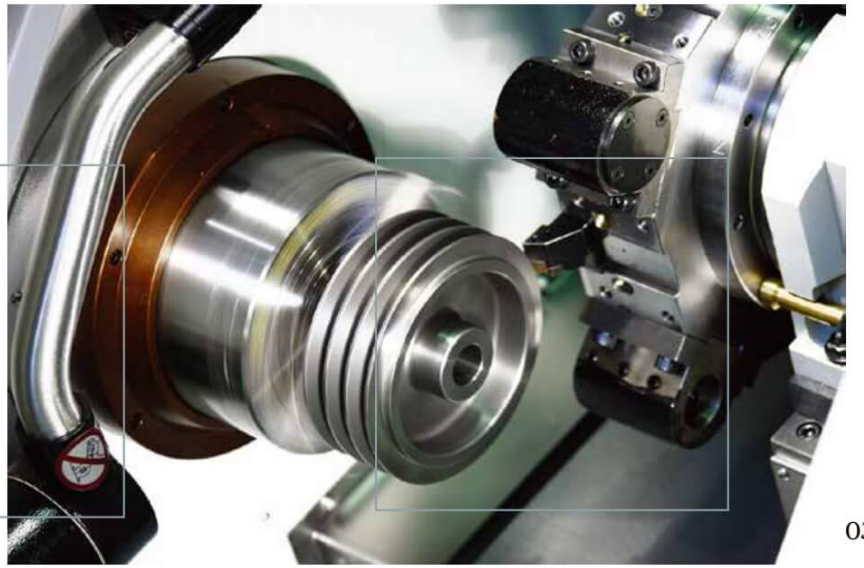


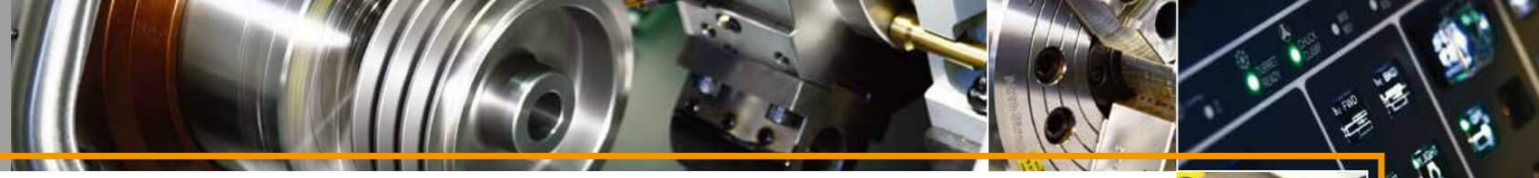
CNC LATHES:

- CNC 1430 / 1440 / 1630 / 1640 / 1660
- CRL 1430 / 1440 / 1630 / 1640 / 1660
- CSR 1840 / 1860
- CHL 2140 / 2160 / 2180 / 21120
- CHC 2240 / 2260 / 2280 / 22120









CNC Series

CNC-1430/1440/1630/1640/1660

STANDARD ACCESSORIES:

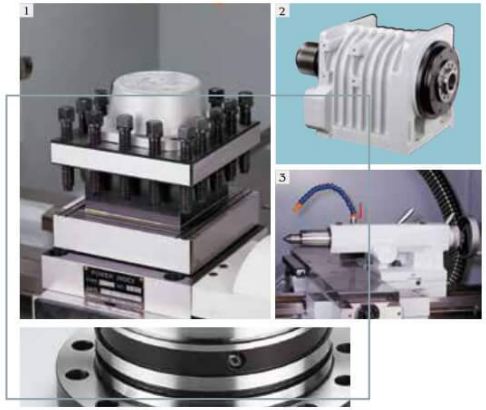
1. CNC controller - FANUC 0i-TF(3)
2. Hydraulic chuck 6" with rotary cylinder
3. Rotating center MT#4
4. Level pads --- 8pcs
5. Tool set & box
6. Machine light
7. Operation manual and parts list

OPTIONAL ACCESSORIES:

1. Electric H4 turret
2. Hydraulic P8 turret with
   boring bar holder Ø20 mm.....2 sets
   boring bar holder Ø25 mm.....1 set
   O.D / facing tool holder.....4 sets
   I.D / facing tool holder.....1 set
3. Boring socket Ø6 x Ø20 ~ Ø16 x Ø20
4. Drilling socket MT#1 x Ø20
5. Steady rest w / ball bearing
6. High pressure coolant pump 1bar 370W
7. Quick change tool post
8. Hydraulic tailstock quill
9. Chip conveyor & chip bucket cart

MODEL			CNC-1430	CNC-1440	CNC-1630	CNC-1640	CNC-1660
Capacity	No. of control axis		2 axes				
	Swing over bed		Ø360 mm (14.17")	Ø360 mm (14.17")	Ø410 mm (16.14")	Ø410 mm (16.14")	Ø410 mm (16.14")
	Distance Between Centers (Manual tailstock)		690 mm (27.17")	910 mm (35.82")	690 mm (27.17")	910 mm (35.82")	1420 mm (55.9")
	Max. Working length	4 way tool post	500 mm (19.68")	700 mm (27.55")	500 mm (19.68")	700 mm (27.55")	1210 mm (47.63")
		Hyd. P8 turret	430 mm (16.93")	645 mm (25.4")	430 mm (16.93")	645 mm (25.4")	1155 mm (45.47")
	Max. Working dia.	4 way tool post	Ø170 mm (6.7")		Ø220 mm (8.66")		
		Hyd. P8 turret	Ø160 mm (6.29")		Ø210 mm (8.27")		
	Width of bed		260 mm (10.236")				
Headstock and Main Spindle	Spindle nose, internal taper		ASA A2-5, Ø52 mm, Taper 1/19.18				
	Spindle bore / Bar capacity		Ø58 mm (2.283") / Ø45 mm (1.772")				
	Range of spindle speed		40 ~ 5000 rpm				
	No. of spindle speed		Infinitely variable				
Cross Slide (X axis) and Carriage (Z axis)	X axis travel	4 way tool post	205 mm (8.07")		216 mm (8.5")		
		Hyd. P8 turret (Rear position)	272 mm (10.7")				
	Z axis travel	4 way tool post	615 mm (24.21")	815 mm (32")	615 mm (24.21")	815 mm (32")	1325 mm (52")
		Hyd. P8 turret (Rear position)	460 mm (18.11")	670 mm (26.38")	460 mm (18.11")	670 mm (26.38")	1180 mm (46.45")
	AC servo motor (X axis)		0.75 kW 3.5 N.m. Fanuc ß 4 / 4000is				
	AC servo motor (Z axis)		1.2 kW 7.0 N.m. Fanuc ß 8 / 3000is				
	Dia. of ball screw (X axis)		Ø20 mm (0.787") P5 C5				
	Dia. of ball screw (Z axis)		Ø32 mm (1.259") P10 C5				
	Rapid travel speed of X axis		7.5 M / min (295 IPM)				
	Rapid travel speed of Z axis		10 M / min (394 IPM)				
Turret	Tool station		Standard Manual 4 way tool post		Opt. Electric H4 or	Hydraulic P8 tool turret	
	Size of tool shank		□ 20 mm (0.787")		□ 20 mm	□ 20 mm	
	Boring bar diameter					Ø20 mm	
Tailstock (Manual type)	Quill diameter		Ø58 mm (2.283")				
	Quill travel		140 mm (5.5")				
	Taper of center		MT NO. 4				
Motor	Main spindle motor		STD. 5.5 / 7.5 kW (Con. / 15 min rated); OPT. 7.5 / 11 kW (Con. / 15 min rated)				
	Hyd. oil pump		STD. 0.75 kW (1 HP); OPT. 1.5 kW (2 HP)				
	Coolant pump		1/6 HP (0.125 kW)				
Tank Capacity	Hydraulic tank		40 Liter				
	Coolant tank		50 Liter				70 Liter
Packing Dimension	Weight (Net / Gross) approx., KG		2040 / 2340	2100 / 2400	2090 / 2390	2150 / 2450	2250 / 2650
	Packing sizes	Length	2270 mm (89.37")	2680 mm (105.51")	2270 mm (89.37")	2680 mm (105.51")	3190 mm (125.6")
		Width X Height	Width 2030 mm (79.92") X Height 2200 mm (86.61")				

Specification subject to change without notice.



|1| **Efficient, Accurate Power Turret (Optional)** • The electric H4 turret is driven by a worm gear/worm wheel mechanism for convenient tool change. It is powered by a 375 W. motor with great clamping force up to 1 ton. • Specially designed post body prevents coolant and chips getting into post. Body will not move up and down during indexing. • P8 hydraulic turret and quick change tool post are also available upon request.

|2| **Unique Design Spindle** • The spindle is supported by a single cylinder bearing housing equipped with SP level precision angular contact thrust bearings and lubricated with HI-class grease. The front spindle is designed with a labyrinthian collar and protector cover to prevent the entering of coolant or chips. • Encased in a well-ribbed headstock for maximum heat dissipation. Prevents any thermal distortion after long periods of turning thereby ensuring accurate cutting.

|3| **Tailstock** • Rigid construction and increased throat depth on tailstock with MT#4 interior taper quill. When applying manual 4-way tool post, electric H4 turret or hydraulic P8 turret, it allows free cutting of long workpieces. When performing manual drilling, the quill can be set to zero for drill depth measurement. Can by optionally equipped with a hydraulic quill to automatically forward and reverse.

CRL Series

CRL-1430/1440/1630/1640/1660

|1| **Efficient, Accurate Power Turret (Optional)** • The electric H4 turret is driven by a worm gear/worm wheel mechanism for convenient tool change. It is powered by a 375 W. motor with great clamping force up to 1 ton. • Specially designed post body prevents coolant and chips getting into post. Body will not move up and down during indexing.
• P8 hydraulic turret and quick change tool post are also available upon request.

|2| **Headstock** • Rugged headstock and gears are hardened. Ground for smooth, quiet and vibration-free running.
• Pressurized cyclic lubrication from separate electric pump and oil reservoir provides a constant flow to all gears and bearings which maintains excellent thermal stability. Hot oil does not stay in the headstock thus reducing thermal expansion and workpiece intolerance.
• The 4 parallel V-belt assures drive in extremely stable, smooth running with minimum vibration.

|3| **Convenient Manual Control** • Providing convenient manual control for X, Z axis. Moveable operation control box is also equipped with two electronic handwheels. • Comprehensive, waterproof function keys and push buttons enhance operational convenience.

STANDARD ACCESSORIES:

1. CNC controller - FANUC 0i-TF(3)
2. Rotating center MT#4
3. Level pads - 8pcs
4. Tool set and box
5. Machine light
6. Operation manual and parts list

OPTIONAL ACCESSORIES:

1. 3-Jaws scroll 8" chuck
2. 4-Jaws independent 10" chuck
3. Electric H4 turret
4. Hydraulic P8 turret with
   boring bar holder Ø20 mm.....2 sets
   boring bar holder Ø25 mm.....1 set
   O.D / facing tool holder.....4 sets
   I.D / facing tool holder.....1 set
5. Boring socket Ø6 xØ20~Ø16 x Ø20
6. Drilling socket MT#1 x Ø20
7. Steady rest w / ball bearing
8. High pressure coolant pump 1bar 370W
9. Quick change tool post
10. Hydraulic tailstock quill
11. Chip conveyor & chip bucket cart
12. Hydraulic hollow chuck 8"
    with rotary cylinder / bar capacity Ø42
    for A1-6 spindle only

MODEL			CRL-1430	CRL-1440	CRL-1630	CRL-1640	CRL-1660
Capacity	No. of control axis		2 axes				
	Swing over bed		Ø360 mm (14.17")	Ø360 mm (14.17")	Ø410 mm (16.14")	Ø410 mm (16.14")	Ø410 mm (16.14")
	Distance Between Centers (Manual tailstock)		690 mm (27.17")	890 mm (35")	690 mm (27.17")	890 mm (35")	1400 mm (55")
	Max. Working length	4 way tool post	550 mm (21.65")	750 mm (29.52")	550 mm (21.65")	750 mm (29.52")	1260 mm (49.61")
		Hyd. P8 turret	430 mm (16.93")	630 mm (24.8")	430 mm (16.93")	630 mm (24.8")	1140 mm (44.88")
	Max. Working dia.	4 way tool post	Ø170 mm (6.7")		Ø220 mm (8.66")		
		Hyd. P8 turret	Ø160 mm (6.29")		Ø210 mm (8.27")		
	Width of bed		260 mm (10.236")				
Headstock and Main Spindle	Spindle nose, internal taper		STD. D1- 6, MT # 6; OPT. A1- 6, MT # 6				
	Spindle bore		STD. Ø52.5 mm (2.066"); OPT. Ø51 mm (2")				
	Spindle speed	Gear steps	Pneumatic change 2 steps				
		Range	L: 25 ~ 480 R.P.M. / H : 481 ~ 3000 R.P.M.				
Cross Slide (X axis) and Carriage (Z axis)	X axis travel	4 way tool post	205 mm (8.07")		216 mm (8.5")		
		Hyd. P8 turret (Rear position)	272 mm (10.7")				
	Z axis travel	4 way tool post	615 mm (24.21")	815 mm (32")	615 mm (24.21")	815 mm (32")	1325 mm (52")
		Hyd. P8 turret (Rear position)	460 mm (18.11")	670 mm (26.38")	460 mm (18.11")	670 mm (26.38")	1180 mm (46.45")
	AC servo motor (X axis)		0.75 kW 3.5 N.m. Fanuc ß 4 / 4000is				
	AC servo motor (Z axis)		1.2 kW 7.0 N.m. Fanuc ß 8 / 3000is				
	Dia. of ball screw (X axis)		Ø20 mm (0.787") P5 C5				
	Dia. of ball screw (Z axis)		Ø32 mm (1.259") P10 C5				
	Rapid travel speed of X axis		7.5 M / min (295 IPM)				
	Rapid travel speed of Z axis		10 M / min (394 IPM)				
Turret	Tool station		Standard Manual 4 way tool post		Opt. Electric H4 or	Hydraulic P8 tool turret	
	Size of tool shank		□ 20 mm (0.787")		□ 20 mm	□ 20 mm	
	Boring bar diameter					Ø20 mm	
Tailstock (Manual type)	Quill diameter		Ø58 mm (2.283")				
	Quill travel		140 mm (5.5")				
	Taper of center		MT NO. 4				
Motor	Main spindle motor		5.5 kW (7.33 HP) / 7.5 kW (10 HP) (Con. / 15 min rated)				
	Hyd. oil pump		OPT. 0.75 kW (1 HP); OPT. 1.5 kW (2 HP)				
	Forced lubrication for headstock		1/4 HP (0.188 kW)				
	Coolant pump		1/6 HP (0.125 kW)				
Tank Capacity	Hydraulic tank		OPT. 40 Liter				
	Coolant tank		50 Liter				70 Liter
Packing Dimension	Weight (Net / Gross) approx., KG		2040 / 2390	2100 / 2450	2090 / 2440	2150 / 2500	2250 / 2650
	Packing sizes	Length	2270 mm (89.37")	2470 mm (97.24")	2270 mm (89.37")	2470 mm (97.24")	2980 mm (117.32")
		Width X Height	Width 2030 mm (79.92") X Height 2200 mm (86.61")				

Specification subject to change without notice.

CSR Series

CSR-1840/1860

STANDARD ACCESSORIES:

1. CNC controller - FANUC 0i-TF(3)
2. Rotating center MT#4
3. Level pads 6pcs
4. Tool set & box
5. Machine light
6. Operation manual & parts list

OPTIONAL ACCESSORIES:

1. 3-Jaws scroll 8" chuck
2. 4-Jaws independent 10" chuck
3. Electric H4 turret
4. Hydraulic P8 turret with
   boring bar holder Ø20 mm.....2 sets
   boring bar holder Ø25 mm.....1 set
   O.D / facing tool holder.....4 sets
   I.D / facing tool holder.....1 set
5. Boring socket Ø6 x Ø20~Ø16 x Ø20
6. Drilling socket MT#1 x Ø20
7. Steady rest w / ball bearing
8. High pressure coolant pump 3bar 750W
9. Quick change tool post
10. Hydraulic tailstock quill
11. Chip conveyor & chip bucket cart
12. Hydraulic hollow chuck 8"
    with rotary cylinder / bar capacity Ø52

[1] Advanced User-Friendly CNC Control Interface

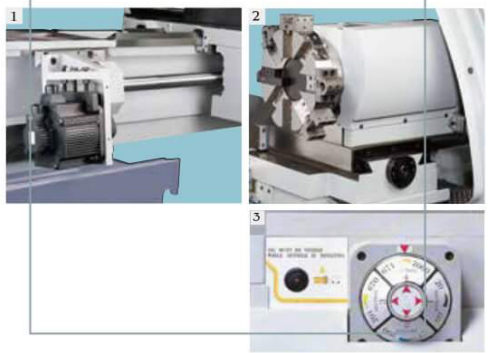
[2] Well-Machined Parts

MODEL			CSR-1840	CSR-1860
Capacity	No. of control axis		2 axes	
	Swing over bed		Ø460 mm (18.11")	
	Distance Between Centers (Manual tailstock)		950 mm (37.40")	1450 mm (57.08")
	Max. Working length	4 way tool post	775 mm (30.55")	1275 mm (50.2")
		Hyd. P8 turret	650 mm (25.59")	1150 mm (45.27")
	Max. Working dia.	4 way tool post	Ø255 mm (10.05")	
		Hyd. P8 turret	Ø255 mm (10.05")	
	Width of bed		305 mm (12.0")	
Headstock and Main Spindle	Spindle nose, internal taper		STD. D1- 6, MT # 6; OPT. A2- 6, Ø69 mm, Taper 1/20	
	Spindle bore		STD. Ø60 mm (2.36") ; OPT. Ø65 mm (2.56")	
	Spindle speed	Gear steps	Pneumatic change 2 steps	
		Range	L: 27 ~ 870 R.P.M. / H : 871 ~ 2500 R.P.M.	
Cross Slide (X axis) and Carriage (Z axis)	X axis travel	4 way tool post	263 mm (10.35")	
		Hyd. P8 turret (Rear position)	292 mm (11.5")	
	Z axis travel	4 way tool post	850 mm (33.46")	1350 mm (53.15")
		Hyd. P8 turret (Rear position)	710 mm (27.95")	1210 mm (47.64")
	AC servo motor (X axis)		1.2 kW 7.0 N.m. Fanuc ß 8 / 3000is	
	AC servo motor (Z axis)		1.2 kW 7.0 N.m. Fanuc ß 8 / 3000is	
	Dia. of ball screw (X axis)		Ø20 mm (0.787") P5 C5	
	Dia. of ball screw (Z axis)		Ø40 mm (1.57") P10 C5	
	Rapid travel speed of X axis		7.5 M / min (295 IPM)	
	Rapid travel speed of Z axis		10 M / min (394 IPM)	
Turret	Tool station		Standard Manual 4 way tool post / Opt. Electric H4 / or Hydraulic P8	
	Size of tool shank		□ 25 mm / □ 20 mm / □ 20 mm	
	Boring bar diameter		Ø20 mm	
Tailstock (Manual type)	Quill diameter		Ø68 mm (2.677")	
	Quill travel		153 mm (6")	
	Taper of center		MT NO. 4	
Motor	Main spindle motor		7.5 kW (10 HP) / 11 kW (15 HP) (con. / 15 min rated)	
	Hyd. oil pump		OPT. 0.75 kW (1 HP); OPT. 1.5 kW (2 HP)	
	Forced lubrication for headstock		1/4 HP (0.188 kW)	
	Coolant pump		1/6 HP (0.125 kW)	
Tank Capacity	Hydraulic tank		OPT. 25 Liter	OPT. 40 Liter
	Coolant tank		60 Liter	85 Liter
Packing Dimension	Weight (Net / Gross) approx., KG		2350 / 2750	2600 / 3100
	Packing sizes	Length	2860 mm (112.6")	3360 mm (132.3")
		Width X Height	Width 2115 mm (83.3") X Height 2240 mm (88.2")	

Specification subject to change without notice.

CHL Series

CHL-2140/2160/2180/21120



[1] Extra Rigid Solid Construction Bracket for Ball Screw and Motor (Z-axis)

[2] 8-Station Hydraulic Turret (Optional)

[3] **Headstock** • Four gear range of spindle speeds driven by built-in AC motor. The operator can input the required spindle speed by M code, and the spindle will automatically reach the required speed. • The headstock has forced oil lubrication, with lubricant pumped from a large tank to maintain constant temperature. • The 3 ultra-precision bearing spindle support maintains stability in heavy cuts. Ø80 mm (D3.15") spindle bore through diameter shafts. • ASA A2-8 short taper for power chuck or Cam-Lock D1-8 spindle nose for quick and accurate chuck mounting.

STANDARD ACCESSORIES:

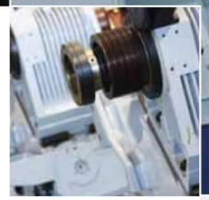
1. CNC controller - FANUC 0i-TF(3)
2. Rotating center MT#5
3. Level pads (2140/2160/2180) 8pcs
   Level pads (21120) 10pcs
4. Tool set and box
5. Machine light
6. Operation manual & parts list

OPTIONAL ACCESSORIES:

1. 3-Jaw scroll 12" chuck
2. 4-Jaw independent 14" chuck
3. Hyd. VDI 40 disc V8 w/o tool holder
4. Hydraulic P8 turret with
   boring bar holder Ø32 mm.....2 sets
   facing tool holder □25 mm.....2 sets
5. Boring socket Ø8 x Ø32~Ø25 x Ø32
6. Drilling socket MT#1 x Ø32, MT#2 x Ø32, MT#3 x Ø32
7. Steady rest w / ball bearing
8. High pressure coolant pump 3bar 750W
9. Quick change tool post
10. Manual quill feed 1/1 & 1/4
11. Hydraulic tailstock quill
12. Chip conveyor & chip bucket cart
13. Hydraulic hollow chuck 10" with rotary cylinder / bar capacity Ø68 for A2-8 spindle only

MODEL			CHL-2140	CHL-2160	CHL-2180	CHL-21120
Capacity	No. of control axis		2 axes			
	Swing over bed		Ø533 mm (20.98")			
	Distance Between Centers (Manual tailstock)		860 mm (33.86")	1360 mm (53.54")	1860 mm (73.23")	2860 mm (112.59")
	Max. working length	4 way tool post	620 mm (24.41")	1120 mm (44.09")	1620 mm (63.78")	2620 mm (103.1")
		Hyd. P8 turret	530 mm (20.87")	1030 mm (40.55")	1530 mm (60.24")	2530 mm (99.61")
		Hyd. V8 tool disc	490 mm (19.29")	990 mm (38.98")	1490 mm (58.66")	2490 mm (98.03")
	Max. working diameter		Ø305 mm (12.0")			
	Width of bed		345 mm (13.58")			
Headstock and Main Spindle	Spindle nose, internal taper		STD. D1- 8, OPT. A2- 8, Ø85 mm Taper 1/19.18			
	Spindle center sleeve		Ø85 mm (3.35") Taper 1/19.18 x MT # 5			
	Spindle bore		Ø80 mm (3.149")			
	Spindle speed : Gear steps / Range		M Code Automatic 4 steps Infinitely variable		M41 20 ~ 60 R.P.M. M42 61 ~ 200 R.P.M. M43 201 ~ 670 R.P.M. M44 671 ~ 2000 R.P.M.	
Cross Slide (X axis) and Carriage (Z axis)	X axis travel		300 mm (11.8")			
	Z axis travel (Based on D1- 8 spindle nose)	4 way tool post	720 mm (28.30")	1220 mm (48.03")	1720 mm (67.72")	2720 mm (107.09")
		Hyd. P8 turret	620 mm (24.41")	1120 mm (44.09")	1620 mm (63.78")	2650 mm (104.33")
		Hyd. V8 tool disc	590 mm (23.23")	1090 mm (42.91")	1590 mm (62.60")	2620 mm (103.15")
	AC servo motor (X axis)		1.8 kW 11.0 N.m. Fanuc ß 12 / 3000is			
	AC servo motor (Z axis)		2.5 kW 20.0 N.m. Fanuc ß 22 / 2000is			
	Dia. of ball screw (X axis)		Ø25 mm (0.98") P5 C5			
	Dia. of ball screw (Z axis)		Ø50 mm (1.97") P10 C5			Ø63 mm (2.48") P10 C5
	Rapid travel speed of X axis		7.5 M / min (295 IPM)			
	Rapid travel speed of Z axis		10 M / min (394 IPM)			
Turret	Tool station		STD. Manual 4 way tool post	Opt. Hyd. VDI V8	or	Hyd. P8
	Size of tool shank		□ 25 mm	□ 25 mm		□ 25 mm
	Boring bar diameter		Ø40 mm (1.575")			Ø32 mm (1.26")
Tailstock (Manual type)	Quill diameter		Ø85 mm (3.346")			
	Quill travel		178 mm (7")			
	Taper of center		MT NO. 5			
Motor	Main spindle motor		AC 9 kW (12 HP, rated) / 11 kW (15 HP, 15 min) Fanuc Model ßilp18/6000			
	Hyd. oil pump		OPT. 0.75 kW (1 HP); OPT. 1.5 kW (2 HP)			
	Forced lubrication for headstock		1/4 HP (0.188 kW)			
	Automatic gears shift		60 W			
	Coolant pump		1/6 HP (0.125 kW)			
Tank Capacity	Hydraulic tank		OPT. 25 Liter		OPT. 40 Liter	
	Coolant tank		60 Liter	120 Liter	180 Liter	240 Liter
Packing Dimension	Weight (Net / Gross) approx., KG		4050 / 4450	4400 / 4900	4800 / 5350	5300 / 5900
	Packing sizes	Length	3200 mm (126")	3700 mm (145.7")	4200 mm (165.4")	5200 mm (204.7")
		Width X Height	Width 2300 mm (90.6") X Height 2240 mm (88.2")			

Specification subject to change without notice.



CHC Series

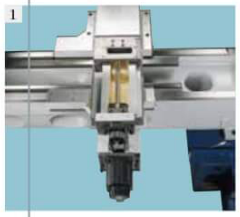
CHC-2240/2260/2280/22120

STANDARD ACCESSORIES:

1. CNC controller - FANUC 0i TF(3)
2. Hydraulic chuck 10" with rotary cylinder
3. Rotating center MT#5
4. Level pads (2240/2260/2280).....8pcs
   Level pads (22120).....10pcs
5. Tool set and box
6. Machine light
7. Operation manual & parts list

OPTIONAL ACCESSORIES:

1. Hyd. VDI 40 disc V8 w/o tool holder
2. Hydraulic P8 turret with
   boring bar holder Ø32mm..... 2 sets
   facing tool holder □25mm..... 2 sets
3. Boring socket Ø8 x Ø32~Ø25 x Ø32
4. Drilling socket MT#1 x Ø32, MT#2 x Ø32, MT#3 x Ø32
5. Steady rest w / ball bearing
6. High pressure coolant pump 3bar 750W
7. Quick change tool post
8. Manual quill feed 1/1 & 1/4
9. Hydraulic tailstock quill
10. Chip conveyor & chip buck cart



[1] Enlarged Saddles and Fully Supported Cross Slide (X-axis) • Bed ways and cross slide are hardened and ground to min HS70. •Turcite "B" coating between the bed and carriage.

[2] 8-Station Hydraulic Turret (Optional)

[3] Unique Design Spindle • The spindle is supported by a single cylinder bearing housing equipped with SP level precision double row cylindrical roller bearings angular contact thrust bearings and lubricated with HI-class grease. The front spindle is designed with a labyrinthian collar and protector cover to prevent the entering of coolant or chips. • Encased in a well-ribbed headstock for maximum heat dissipation. Prevents any thermal distortion after long periods of turning thereby ensuring accurate cutting.

MODEL			CHC-2240	CHC-2260	CHC-2280	CHC-22120
Capacity	No. of control axis		2 axes			
	Swing over bed		Ø550 mm (21.653")			
	Distance Between Centers (Manual tailstock)		870 mm (34.25")	1370 mm (53.93")	1870 mm (73.62")	2870 mm (113.0")
	Max. working length	4 way tool post	680 mm (26.77")	1180 mm (46.45")	1680 mm (66.14")	2680 mm (105.5")
		Hyd. P8 turret	590 mm (23.22")	1090 mm (42.91")	1590 mm (62.60")	2590 mm (102.0")
		Hyd. V8 tool disc	550 mm (21.65")	1050 mm (41.33")	1550 mm (61.02")	2550 mm (100.4")
	Max. working diameter		Ø325 mm (12.8")			
	Width of bed		345 mm (13.58")			
Headstock and Main Spindle	Spindle nose, internal taper		ASA A2- 8, Ø97mm, Taper 1/20			
	Spindle bore / Bar capacity		Ø91 mm (3.582") / Ø78 mm (3.07")			
	Spindle speed range		35 ~ 3000 R.P.M.			
	No. of spindle speed		Infinitely variable			
Cross Slide (X axis) and Carriage (Z axis)	X axis travel		300 mm (11.8")			
	Z axis travel (Based on A2 - 8 spindle nose)	4 way tool post	740 mm (29.13")	1240 mm (48.82")	1740 mm (68.5")	2740 mm (107.87")
		Hyd. P8 turret	650 mm (25.59")	1150 mm (45.27")	1650 mm (64.96")	2650 mm (104.33")
		Hyd. V8 tool disc	565 mm (22.24")	1065 mm (41.93")	1565 mm (61.61")	2565 mm (100.98")
	AC servo motor (X axis)		1.8 kW 11.0 N.m. Fanuc ß 12 / 3000is			
	AC servo motor (Z axis)		2.5 kW 20.0 N.m. Fanuc ß 22 / 2000is			
	Dia. of ball screw (X axis)		Ø25 mm (0.98") P5 C5			
	Dia. of ball screw (Z axis)		Ø50 mm (1.97") P10 C5			Ø63 mm (2.48") P10 C5
	Rapid travel speed of X axis		7.5 M / min (295 IPM)			
	Rapid travel speed of Z axis		10 M / min (394 IPM)			
Turret	Tool station		STD. Manual 4 way tool post	Opt. Hyd. VDI V8	or	Hyd. P8
	Size of tool shank		□ 25 mm	□ 25 mm		□ 25 mm
	Boring bar diameter		Ø40 mm (1.575")			Ø32 mm (1.26")
Tailstock (Manual type)	Quill diameter		Ø85 mm (3.346")			
	Quill travel		178 mm (7")			
	Taper of center		MT NO. 5			
Motor	Main spindle motor		AC 9 kW (12 HP, rated) / 11 kW (15 HP, 15 min) Fanuc Model ßilp18/6000			
	Hyd. oil pump		STD. 0.75 kW (1 HP); OPT. 1.5 kW (2 HP)			
	Coolant pump		1/6 HP (0.125 kW)			
Tank Capacity	Hydraulic tank		STD. 25 LITER OPT. 40 LITER			
	Coolant tank		60 Liter	120 Liter	180 Liter	240 Liter
Packing Dimension	Weight (Net / Gross) approx., KG		4050 / 4450	4400 / 4900	4800 / 5350	5300 / 5900
	Packing sizes	Length	3200 mm (126")	3700 mm (145.7")	4200 mm (165.4")	5200 mm (204.7")
		Width X Height	Width 2300 mm (90.6") X Height 2230 mm (87.8")			

Specification subject to change without notice.