



SUN MASTER ER



▶▶▶ CNC Lathe

CSC- 1840 / 1860

CHC- 2240 / 2260 / 2280 / 22120

Cs-Axis series



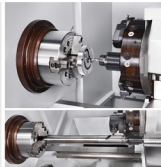


Model : CSC-1860



GEAR-LESS 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 coolant or chips from entering.
- Encased in a well-ribbed headstock for maximum heat dissipation. Prevents any thermal distortion after long periods of turning, thereby ensuring accurate cutting.



**CS AXIS FOR DRILLING
GROOVING & MILLING
JOBS.**



Model : CHC-22120



**EXTRA RIGID SOLID
CONSTRUCTION BRACKET,
FOR BALL SCREW AND MOTOR
(Z-AXIS)**



TOOL PRE-SETTER (OPT.)

- Equipped with Renishaw tool probe for measuring the status of tools and making the compensation to ensure accuracy.



POWER TURRET (OPT.)

- Equipped with Burafaldì V8 power turret. (VDI 30 for CSC series, VDI 40 for CHC series)
- Driven by Fanuc spindle motor.
- Suitable for drilling, grooving & milling jobs.

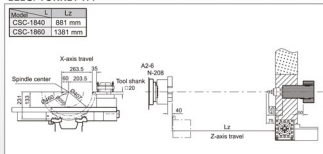
Cs Axis Feature

Cs Axis+Live Tooling System,
Suitable for Turning, Drilling
and Milling Functions

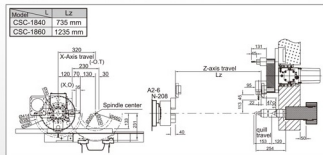


CSC MACHINE WORKING RANGE

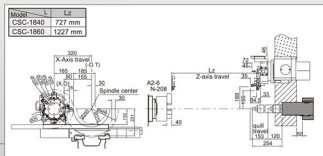
ELEC. TURRET H4



V8_C AXIS

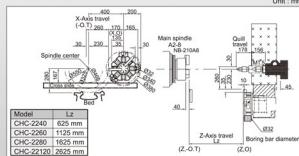


HYDRAULIC TURRET P8



□ 25 EXTERNAL TOOLS

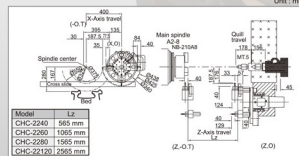
Unit : mm



V8_C AXIS

□ 25 EXTERNAL TOOLS

Unit : mm



SPECIFICATIONS

MODEL	CSC-1840	CSC-1860	CHC-2240	CHC-2260	CHC-2280	CHC-22120	
Capacity	2 Axis (Cs axis opt.)		2 Axis (Cs axis opt.)				
	Swing over bed ø460 mm (18.11")		ø550 mm (21.653")				
	Swing over cross slide ø255 mm (10")		ø325 mm (12.795")				
	STD. A1-6 distance between centers 950 mm (37.4") 1450 mm (57.08")		-----				
	Distance between centers		870 mm (34.25")	1370 mm (53.93")	1870 mm (73.62")	2870 mm (113.0")	
	STD. A1-6 max. 4 way tool post working length Hyd. PB turret 800 mm (31.49") 1300 mm (51.18")		-----				
	4 way tool post Hyd. PB turret 650 mm (25.59") 1150 mm (45.27")		-----				
	Max. working length		680 mm (26.77")	1180 mm (46.45")	1680 mm (66.14")	2680 mm (105.5")	
	4 way tool post Hyd. PB turret 590 mm (23.22")		1090 mm (42.91")	1590 mm (62.60")	2590 mm (102.0")	-----	
	Elec. VDI turret 4 way tool post 550 mm (21.65")		1050 mm (41.33")	1550 mm (61.02")	2550 mm (100.4")	-----	
Max. working diameter	std. ø255 mm (10") Max. ø407 mm (16")		std. ø325 mm (12.795") Max. ø460 mm (18.11")				
	Hyd. PB turret std. ø255 mm (10") Max. ø310 mm (12.2")		-----				
Headstock and Main Spindle	Width of bed 305 mm (12")		345 mm (13.58")				
	Spindle nose, internal taper A2-6, ø69 mm Taper 1/20		ASA A2-8, ø97 mm Taper 1/20				
	Spindle bore / Bar capacity ø65 mm (2.56")		ø91 mm (3.582") / ø78mm (3.07")				
	Range of spindle speed 40-4000 R.P.M. infinitely variable		35-3500 R.P.M. infinitely variable				
	Rate of spindle speed		-----				
	Cross slide travel (X-axis) STD. 230 mm (9.56")		300 mm (11.8")				
Cross slide (X-axis) and Carriage (Z-axis)	Longitudinal travel (Z-axis) STD. 850 mm (33.46") 1650 mm (53.15")		740 mm (29.1")	1240 mm (48.8")	1740 mm (68.5")	2740 mm (107.8")	
	AC servo motor (X-axis) 7.0N.m - FANUC ß8/3000is		1.8kW 11N.m - FANUC ß12/3000is				
	AC servo motor (Z-axis) 7.0N.m - FANUC ß8/3000is		2.5kW 20N.m - FANUC ß22/2000is				
	Dia. of ball screw (X-axis) ø20 mm (0.787") P5 C5		ø25 mm (0.98") P5 C5				
	Dia. of ball screw (Z-axis) ø40mm (1.57") P10 C5		ø50mm (1.97") P10 C5		ø63 mm (2.48") P10 C5		
	Rapid traverse speed (X-axis) 7.5 m/min (295.3 ipm)		7.5 m/min (295.3 ipm)				
	Rapid traverse speed (Z-axis) 10 m/min (393.6 ipm)		10 m/min (394 ipm)				
	Turret	Tool station OPT. Elec. H4 Hydraulic PB		OPT. Elec. VDI V8		Hydraulic PB	
		Size of external turning tool □ 20 mm □ 20 mm		□ 25 mm		□ 25 mm	
		Boring bar diameter ø20 mm (0.787")		ø40 mm (1.575")		ø32 mm (1.26")	
Tailstock	Quill diameter ø68 mm (2.677")		ø85 mm (3.346")				
	Quill travel 153 mm (6")		178 mm (7")				
Motor	Taper of center MT. No.4		MT. No.5				
	Main spindle motor (continuous rated) STD. AC 11kW (15HP) - FANUC ß8/3000is		AC 9kW (12HP)		Wide range heavy duty FANUC AC spindle motor		
	(30 min. rated)		AC 11kW (15HP)		MODEL ß1P 18/6000		
	Hydraulic oil pump OPT. 0.75 kW (1HP) OPT. 1.5 kW (2HP)		STD. 0.75 kW (1HP) OPT. 1.5 kW (2HP)				
	Forced lubrication for headstock 1/4 HP		-----				
Tank capacity	Coolant pump 1/6 HP		1/6 HP				
	Hydraulic tank OPT. 25 Litre (5.5 gal.) OPT. 40 Litre (8.8 gal.)		STD. 25 Litre (5.5 gal.) OPT. 40 Litre (8.8 gal.)				
Measurement	Coolant tank 60 L (13.2 gal) 85 L (18.7 gal)		60 L (13.2 gal)	120 L (26.4 gal)	180 L (39.6 gal)	240 L (52.8 gal)	
	Weight (Net / Gross) Approx. 2350kgs / 2850kgs 2600kgs / 3100kgs		4050kgs / 4450kgs	4400kgs / 4900kgs	4800kgs / 5400kgs	5300kgs / 6000kgs	
	Packing sizes Length 2860 mm (112.6") 3360 mm (132.3")		3200 mm (126")	3700 mm (145.7")	4200 mm (165.4")	5200 mm (204.7")	
Width x Height Width 2115 mm (83.3") x Height 2340 mm (92.1")		Width 2300 mm (90.6") x Height 2230 mm (87.8")					

© Specifications subject to change without notice.

STANDARD ACCESSORIES

- CNC controller
- Level pads---6pcs
- Toolset & Box
- Machine light (CSC-1840 / 1860)
- Operation manual & parts list
- 3 jaw hyd. chuck 8"
- Roofing Center
- Fully Enclosed Sheet Metal

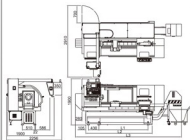
OPTIONAL ACCESSORIES

- Hydraulic PB turret with boring bar holder Ø20mm.....2sets
- Boring bar holder Ø25mm.....1sets
- O.D / facing tool holder.....3sets
- I.D / facing tool holder.....1sets
- Boring socket Ø6 x Ø20— Ø16 x Ø20
- Drilling socket M.T.1 x Ø20
- Steady rest w/ball bearing
- Follow rest w/bronze tip
- High pressure coolant pump 3bar 750W
- Drill chuck & arbor
- Hydraulic tailstock quill
- Chip conveyor & CART
- Transformer
- CE mark
- CS axis w/live tooling system, PB

FOUNDATION PLAN

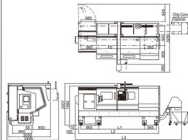
CSC-18

Model	L1	L2	L3
CSC-1840	1505 mm	2210 mm	3820 mm
CSC-1860	2005 mm	2710 mm	4320 mm

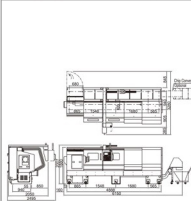


CHC-2240.60.80

Model	L1	L2	L3
CHC-2240	1205 mm	2864 mm	4125 mm
CHC-2260	1705 mm	3364 mm	4625 mm
CHC-2280	2205 mm	3864 mm	5125 mm



CHC-22120





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