



SUN MASTER



▶▶▶ CNC Lathe

CSC- 1840 / 1860

CHC- 2240 / 2260 / 2280 / 22120

Cs-Axis series

CE



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 Buraffaldi 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

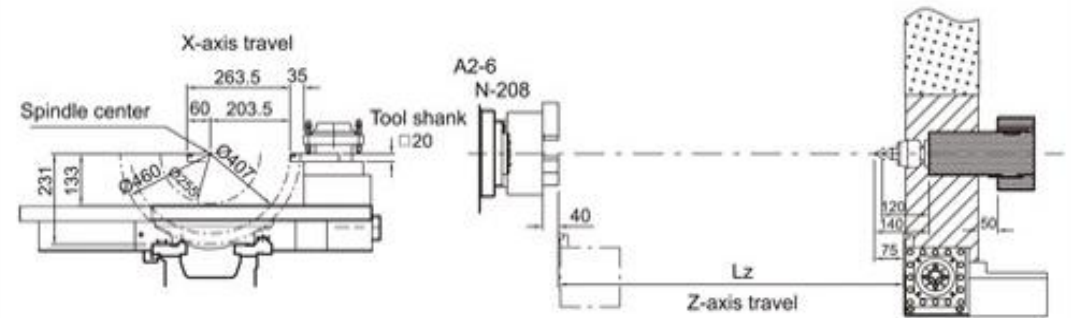
Cs Axis+Live Tooling System,
Suitable for Turning, Drilling
and Milling Functions



CSC MACHINE WORKING RANGE

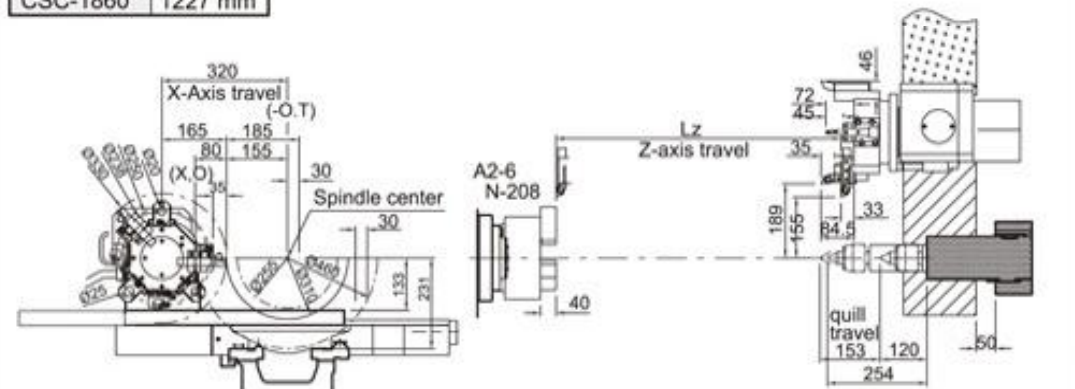
ELEC. TURRET H4

Model	L	Lz
CSC-1840	881 mm	
CSC-1860	1381 mm	



HYDRAULIC TURRET P8

Model	L	Lz
CSC-1840	727 mm	
CSC-1860	1227 mm	



SPECIFICATIONS

MODEL		CSC-1840	CSC-1860	CHC-2240	CHC-2260	CHC-2280	CHC-22120	
Capacity	No. of control axis	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. working length	4 way tool post Hyd. P8 turret	800 mm (31.49") 650 mm (25.59")	1300 mm (51.18") 1150 mm (45.27")	-----			
	Max. working length	4 way tool post Hyd. P8 turret Elec. VDI turret	-----		680 mm (26.77") 590 mm (23.22") 550 mm (21.65")	1180 mm (46.45") 1090 mm (42.91") 1050 mm (41.33")	1680 mm (66.14") 1590 mm (62.60") 1550 mm (61.02")	2680 mm (105.5") 2590 mm (102.0") 2550 mm (100.4")
	Max. working diameter	4 way tool post Hyd. P8 turret	std. ø255 mm (10") Max. ø407 mm (16") std. ø255 mm (10") Max. ø310 mm (12.2")		std. ø325 mm (12.795") Max. ø460 mm (18.11")			
	Width of bed	305 mm (12")		345 mm (13.58")				
	Headstock and Main Spindle	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 (X-axis) and Carriage (Z-axis)	Cross slide travel (X-axis) STD.	230 mm (9.56")		300 mm (11.8")				
	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 β8/3000is		1.8kW 11N.m - FANUC β12/3000is				
	AC servo motor (Z-axis)	7.0N.m - FANUC β8/3000is		2.5kW 20N.m - FANUC β22/2000is				
	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 P8	OPT. Elec. VDI V8			Hydraulic P8	
	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")				
	Taper of center	MT. No.4		MT. No.5				
Motor	Main spindle motor (continuous rated)	STD. AC11kW (15HP) - FANUC β8/3000is		AC 9kW (12HP)	Wide range heavy duty FANUC AC spindle motor			
	(30 min. rated)	-----		AC 11kW (15HP)	MODEL βiIP 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.)				
	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)	
Measurement	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 (12.3")	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")			

STANDARD ACCESSORIES

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

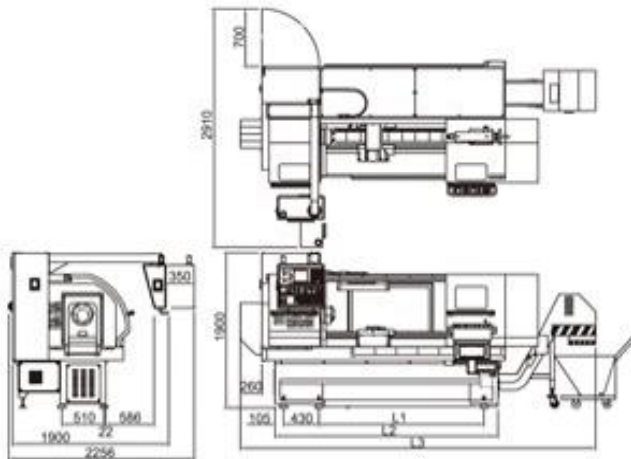
OPTIONAL ACCESSORIES

- Hydraulic P8 turret with boring bar holder $\varnothing 20\text{mm}$2sets
- boring bar holder $\varnothing 25\text{mm}$1sets
- O.D / facing tool holder.....3sets
- I.D / facing tool holder.....1sets
- Boring socket $\varnothing 6 \times \varnothing 20 - \varnothing 16 \times \varnothing 20$
- Drilling socket M.T.1 $\times \varnothing 20$
- 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, P8

FOUNDATION PLAN

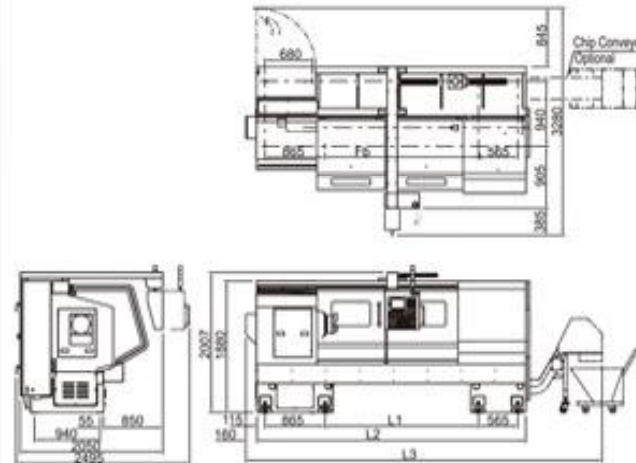
CSC-18

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

