



Chester CNC Sliding Head Lathes • SH Series



The Chester SH Series of CNC Sliding Head Lathes feature not only a highly rigid structure but also multiple functions for Eccentric and Tool-Travelling Turning. The tool travels turning on X,Y and Z Axes. These machines provide superior performance on both long and short work piece machining. The exceptional machining capabilities, accuracy and stability ensure the Valais Series are the best in their class. You will be amazed at the versatile machining performance of the Chester SH20/20Y CNC Sliding Head Lathes. Although compact in construction it offers multi-functions for maximum flexibility. The machine is equipped with a sub-spindle allowing turning, milling, drilling and tapping.

Standard Accessories:

- ✓ FANUC 32i Controller
- ✓ External Tool Holder(6 Tools)
- ✓ Inner Tool Holder(5 Tools)
- ✓ Cross Drilling Tool Holder(6 Tools)
- ✓ Parts Catcher and Conveyor
- ✓ Tool & Toolbox
- ✓ Lighting Device
- ✓ Fixed Guide Bushing Holder
- ✓ Main Spindle Servo Motor
- ✓ Main Spindle With C-Axis Function
- ✓ Cutting Coolant
- ✓ Cutting Coolant Inspection (Electronic Type)
- ✓ Cut-off Inspection
- ✓ Lubrication Device
- ✓ Sub-Spindle with C-Axis Function
- ✓ Sub-spindle
- ✓ Face Drilling/Milling Tool Holder(4 Tools) for Sub-Spindle (20 only)
- ✓ Face Drilling/Milling Tool Holder(8 Tools) for Sub-Spindle(20Y only)
- ✓ Y2-Axis(20Y only)
- ✓ Fixed Tool Holder(Sub-Spindle)
- ✓ Rotary Tool Holder(Sub-Spindle)
- ✓ 3-Position O.D. Tool Holder(Sub-Spindle) (20 only)
- ✓ Chuck Gripper
- ✓ Machining Room With Safety Lock
- ✓ Guide Bush
- ✓ Spindle Collet Chuck
- ✓ Operation Manual
- ✓ Nc Control Operation Manual
- ✓ Nc Control Maintenance Manual
- ✓ Cutting Oil Cooler
- ✓ Main And Sub-spindle Oil Cooling System
- ✓ Transformer

Optional Accessories:

- ER16 M2 Double Side Inner Tool Holder
- Simultaneous Rotary Guide Bush Holder
- Non Guide Bush Holder
- Long Parts Catcher
- Chip Conveyor&Cart
- ER 16/20 Collet Set
- Cutting Oil Chiller
- Stationary Drilling Tool Holder(Sub-Spindle)
- Rotary Drilling Tool Holder(Sub-Spindle)
- Thread Whirling Unit(without Insets and Insert Holder)
- Power Driven Saw Unit
- 3-Position Eccentric Tool Holder(Main and Sub-Spindle)
- 3-Position Angle Drilling Tool Holder(Manual)
- 1-Position Cross Live Tool Holder(Sub-Spindle)
- O.D. Tool Holder(Sub-Spindle)
- Shortened Type 16 Id Tool Holder(Sub-Spindle)
- 16 Id Tool Holder(Sub-Spindle)
- Extended Id Tool Holder For Sub-Spindle(16,1-2)
- Extended Tool Holder 16
- Oil Mist Collector
- High Pressure Coolant System
- 15/50/100 Bars(With Sub-Coolant Tank)
- Hydraulic Bar Feeder Vito-42 /3M Or 2M
- Hydraulic Chuck For Sub-Spindle
- Voltage Stabilizer
- ER16 Collect Chuck Shank25X100L
- Extra 10 Sets M Codes
- Sub-spindle Hydraulic System

* The above specifications are subject to change without prior notice, no liability for mistakes. Machines may be shown with optional equipment.





Chester CNC Sliding Head Lathes



Chester SH-20/20Y

Deep Hole Drilling Device
The Sub-Spindle Side is Available to Equip with Deep Hole Drilling Device with Coolant Through Drill. Choice of Live or Fixed Drill.



Chester SH-20Y

Main Spindle and Tooling System
OD Tool Holder 6 Tools
ID Tool Holder 4 Tools
Cross Live Tool Holder 5 Tools



Chester SH-20Y

Sub-spindle Tooling System. The Sub-Spindle Tooling System Allows the Machine to Perform Back Side Machining on a Part.



Chester SH-20/20Y

Non-guide Bushing Holder
For use on The Conserving Tool Lathe to Reduce End Bar for Saving Material and Cost.



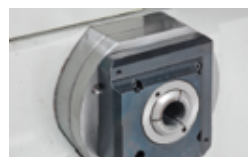
Chester SH-20/20Y

Fanuc 321B Control. Control panel can be moved and swivelled for upgrading convenience of operation.



Chester SH-20

Sub-spindle Tooling System
The Sub-Spindle Tooling System Allows the Machine to Perform Back Side Machining on a Part.

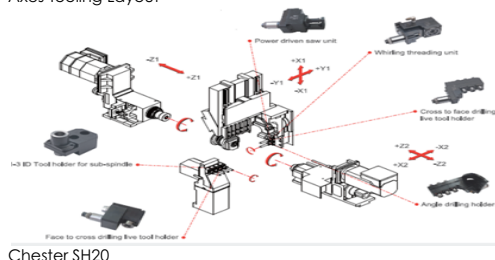


Chester SH-20/20Y

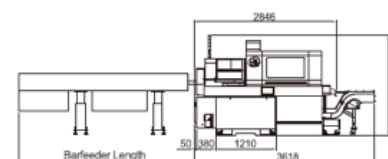
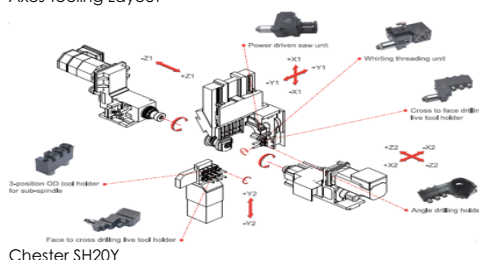
Rotary Guide Bushing Holder
For use on the Sliding Head Lathe to Increase Stability and Surface Finish in Long Part Machining.

Model	SH-20	SH-20Y
Main Spindle Max. Turning Diameter	20mm	20mm
Sub Spindle Max. Turning Diameter	20mm	20mm
Max. Turning Length (Rotating Bush)	250/190mm	250/190mm
Max. Turning Length (Non Bush)	non/50mm	non/50mm
Max. Turning Length (Fixed Bush)	280/220mm	280/220mm
Main Spindle Max. Drilling/Tapping Capacity	10/M8mm	10/M8mm
Sub Spindle Max. Drilling/Tapping Capacity	10/M6mm	10/M6mm
O.D Tool Holder	6/12mm	6/12mm
ID Tool Holder	4/22mm	4/22mm
S1 Cross Live Tool Holder	5pcs/ER-16	5pcs/ER-16
Sub Spindle Face Live Tool Holder	4pcs	8pcs
Control Axis (With C Axis)	7pcs	8pcs
Main/Sub Spindle Bore	26.6mm	26.6mm
Main/Sub Spindle Max. Speed	10000/8000rpm	10000/8000rpm
X1/Z1/Y1/X2/Z2/Y2-Axis Rapid Traverse	24m/min	24m/min
S1 Cross Drilling Max. Speed	8000rpm	8000rpm
S1 Cross Driven Motor	1.2kw(1.63hp)	1.2kw(1.63hp)
S2 Face Driven Motor	0.5kw(0.68hp)	0.75kw(1.02hp)
S2 Face Drilling Max. Speed	8000rpm	8000rpm
Main Spindle Motor	2.2/3.7kw(2.99/5.03hp)	2.2/3.7kw(2.99/5.03hp)
Sub Spindle Motor	2.2/3.7kw(2.99/5.03hp)	2.2/3.7kw(2.99/5.03hp)
X1/Z1/Y1 Motor	0.75kw(1.02hp)	0.75kw(1.02hp)
X2/Z2 Motor	0.5kw(0.68hp)	0.5kw(0.68hp)
Y2 Motor	n/a	0.5kw(0.68hp)
Coolant Pump	2.3kw(3.13hp)	2.3kw(3.13hp)
Power Requirements	20KVA	20KVA
Lubrication Capacity	2L	2L
Coolant Tank Capacity	220L(100%)	220L(100%)
Machine Dimensions (Lxwxh)	2846x1284x2024mm	2846x1284x2024mm
Net Weight	2670kgs	2700kgs

Axes Tooling Layout



Axes Tooling Layout



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