



Chester CNC Sliding Head Lathes • SH Series



The SH51 / 51Y Series of CNC Sliding Head Lathes feature not only a high 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 this series are the best in their class.

You will be amazed at the versatile machining performance of this CNC Sliding Head Lathe. 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/sub-spindle Hydraulic Rotary Cylinder
- ✓ Main Spindle With C-Axis Function
- ✓ Cutting Coolant
- ✓ Cutting Coolant Inspection (Electronic Type)
- ✓ Cut-off Inspection
- ✓ Lubrication Device
- ✓ Sub-Spindle with C-Axis Function
- ✓ Face Drilling/Milling Tool Holder(4 Tools) for Sub-Spindle (51 only)
- ✓ Face Drilling/Milling Tool Holder(8 Tools) for Sub-Spindle(51Y only)
- ✓ Y2-Axis(51Y only)
- ✓ Fixed Tool Holder(Sub-Spindle)
- ✓ Rotary Tool Holder(Sub-Spindle)
- ✓ 3-Position O.D. Tool Holder(Sub-Spindle) (51Y only)
- ✓ Spindle Collet Chuck
- ✓ Operation Manual
- ✓ CNC Control Operation Manual
- ✓ CNC Control Maintenance Manual

Optional Accessories:

- ER16 M2 Double Side Inner Tool Holder
- Simultaneous Rotary Guide Bush Holder
- Long Parts Catcher
- Chip Conveyor&Cart
- ER 16/20 Collet Set
- Cutting Oil Chiller
- Stationary Drilling Tool Holder(Sub-Spindle)
- Power 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

* 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-51/51Y

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-51Y

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



Chester SH-51Y

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



Chester SH-51/51Y

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



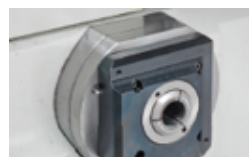
Chester SH-50/51Y

Fanuc 32iB Control. Control
panel can be moved and
swivelled for upgrading
convenience of operation.



Chester SH-51

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

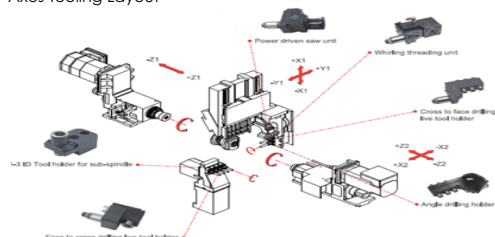


Chester SH-51/51Y

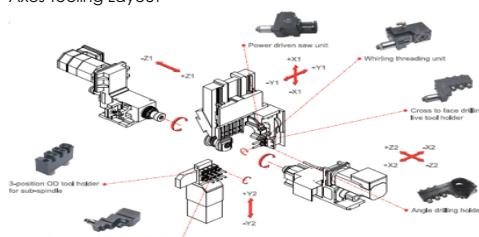
Rotary Guide Bushing Holder
For use on the Sliding Head Lathe
to Increase Stability and Surface
Finish in Long Part Machining.

Model	SH-51	SH-51Y
Main Spindle Max. Turning Diameter	51mm	51mm
Sub Spindle Max. Turning Diameter	51mm	51mm
Max. Turning Length (Rotating Bush)	300mm	300mm
Max. Turning Length (Non Bush)	130mm	130mm
Max. Turning Length (Fixed Bush)	n/a	n/a
Main Spindle Max. Drilling/Tapping Capacity	26mm/M16	26mm/M16
Sub Spindle Max. Drilling/Tapping Capacity	16mm/M12	16mm/M12
O.D Tool Holder	5pcs/(20mm)	5pcs/(20mm)
ID Tool Holder	5pcs/25mm	5pcs/25mm
S1 Cross Live Tool Holder	6pcs(ER-20)	6pcs(ER-20)
Sub Spindle Face Live Tool Holder	4pcs	8pcs
Control Axis (With C Axis)	7pcs	8pcs
Main/Sub Spindle Bore	52mm	52mm
Main/Sub Spindle Max. Speed	4500rpm	4500rpm
X1/Z1/Y1/X2/Z2/Y2-Axis Rapid Traverse	24m/min	24m/min
S1 Cross Drilling Max. Speed	4000rpm	4000rpm
S1 Cross Driven Motor	2.5kw(3.4hp)	2.5kw(3.4hp)
S2 Face Driven Motor	2.5kw(3.4hp)	2.5kw(3.4hp)
S2 Face Drilling Max. Speed	4000rpm	4000rpm
Main Spindle Motor	11/15kw(14.96/20.4hp)	11/15kw(14.96/20.4hp)
Sub Spindle Motor	7.5/11kw(10.2/14.96hp)	7.5/11kw(10.2/14.96hp)
X1/Z1/Y1 Motor	2.5kw(3.4hp)	2.5kw(3.4hp)
X2/Z2 Motor	2.5kw(3.4hp)	2.5kw(3.4hp)
Y2 Motor	n/a	2.5kw(3.4hp)
Coolant Pump	1.29kw(1.75hp)	1.29kw(1.75hp)
Power Requirements	30KVA	30KVA
Lubrication Capacity	2L	2L
Coolant Tank Capacity	250L(100%)	250L(100%)
Machine Dimensions (Lxwxh)	3173x1695x2146mm	3173x1695x2146mm
Net Weight	5450kg	5480kg

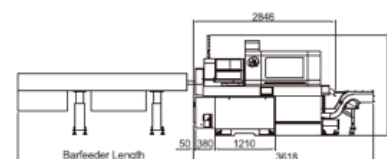
Axes Tooling Layout



Axes Tooling Layout



SH-51Y



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