



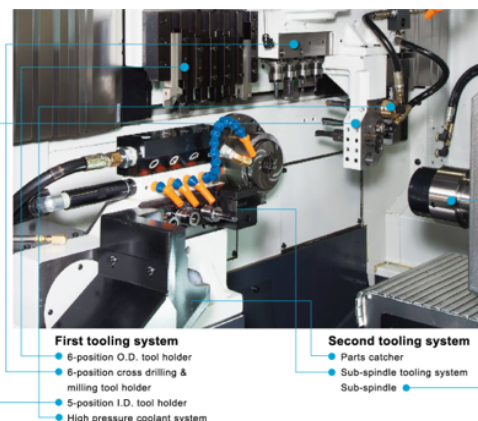
Chester CNC Sliding Head Lathes • SH Series



The Chester SH-32/32Y & 42/42Y of CNC Sliding Head Lathes feature main and sub-spindles combined with comprehensive tooling systems designed with high efficiency and multi-tasking features. The Chester SH32 and 42 Series of turning machines integrate a sliding head and sliding tool in one single machine.

These machines are constructed around three Axis (X,Y & Z) in combination with powered tool functions, it allows for turning, milling, drilling and tapping operations with only one setup.

The main spindle and sub-spindle machine synchronise, saving time for primary and secondary machining whilst ensuring higher accuracy for components.



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

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Chester CNC Sliding Head Lathes



Chester SH-32 42
Sub-spindle Tooling System. The Sub-Spindle Tooling System Allows the Machine to Perform Reverse Machining on a Part.



Chester SH-32Y 42Y
Sub-spindle Tooling System-Y Axis. The Sub-spindle Tooling System Allows the Machine to Perform Reverse Machining on a Work Piece.



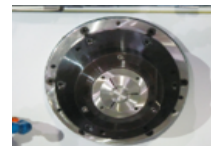
Chester SH-32/32Y 42/42Y
Cross/Face Drilling Function. The Side Drilling Unit Can Be Converted to 3-Position Face Drilling for Main and Sub Spindle. Angle Adjustment (Manual)



Chester SH-32/32Y 42/42Y
Fanuc 32i CNC Control. The Control Panel can be Moved and Swiveled for Upgrading Operating Convenience.



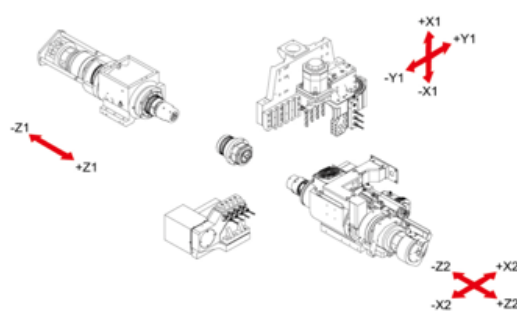
Chester SH-32/32Y 42/42Y
Deep Hole Drilling Device (Max.135mm). The Sub-Spindle Can be Equipped with a Deep Hole Drilling Device with Contract Coolant Through Drill.



Chester SH-32/32Y 42/42Y
Rotary Guide Bushing Holder. For use in Sliding Head Lathe to Increase Stability And Surface Finish for Long Part Machining.

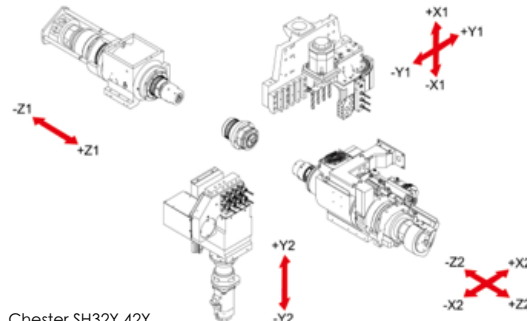
Model	SH-32	SH-32Y	SH-42	SH-42Y
Main Spindle Max. Turning Diameter	32mm	32mm	42mm	42mm
Sub Spindle Max. Turning Diameter	32mm	32mm	42mm	42mm
Max. Turning Length (Rotating Bush)	310mm	310mm	310mm	310mm
Max. Turning Length (Non Bush)	105mm	105mm	105mm	105mm
Max. Turning Length (Fixed Bush)	350mm	350mm	350mm	350mm
Main Spindle Max. Drilling/Tapping Capacity	10/M8mm	10/M8mm	10/M8mm	10/M8mm
Sub Spindle Max. Drilling/Tapping Capacity	10/M6mm	10/M6mm	10/M6mm	10/M6mm
O.D Tool Holder	6(16mm)/5(20mm)	6(16mm)/5(20mm)	6(16mm)/5(20mm)	6(16mm)/5(20mm)
ID Tool Holder	5/25mm	5/25mm	5/25mm	5/25mm
S1 Cross Live Tool Holder	6pcs(ER-16x2&ER-20x4)	6pcs(ER-16x2&ER-20x4)	6pcs(ER-16x2&ER-20x4)	6pcs(ER-16x2&ER-20x4)
Sub Spindle Face Live Tool Holder	4pcs	8pcs	4pcs	8pcs
Control Axis (With C Axis)	7pcs	8pcs	7pcs	8pcs
Main/Sub Spindle Bore	34mm	34mm	44mm	44mm
Main/Sub Spindle Max. Speed	7000rpm	7000rpm	6000rpm	6000rpm
X1/Z1/Y1/X2/Z2/Y2-Axis Rapid Traverse	24m/min	24m/min	24m/min	24m/min
S1 Cross Drilling Max. Speed	4000rpm	4000rpm	4000rpm	4000rpm
S1 Cross Driven Motor	1.6kw(2.18hp)	1.6kw(2.18hp)	1.6kw(2.18hp)	1.6kw(2.18hp)
S2 Face Driven Motor	0.75kw(1.02hp)	0.75kw(1.02hp)	0.75kw(1.02hp)	0.75kw(1.02hp)
S2 Face Drilling Max. Speed	4000rpm	4000rpm	4000rpm	4000rpm
Main Spindle Motor	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)
Sub Spindle Motor	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)	5.5/7.5kw(7.48/10.2hp)
X1/Z1/Y1 Motor	1.4kw(1.90hp)	1.4kw(1.90hp)	1.4kw(1.90hp)	1.4kw(1.90hp)
X2/Z2 Motor	0.75kw(1.02hp)	0.75kw(1.02hp)	0.75kw(1.02hp)	0.75kw(1.02hp)
Y2 Motor	n/a	0.75kw(1.02hp)	n/a	0.75kw(1.02hp)
Coolant Pump	1.29kw(1.75hp)	1.29kw(1.75hp)	1.29kw(1.75hp)	1.29kw(1.75hp)
Power Requirements	30KVA	30KVA	30KVA	30KVA
Lubrication Capacity	2L	2L	2L	2L
Coolant Tank Capacity	250L(100%)	250L(100%)	250L(100%)	250L(100%)
Machine Dimensions (LxWxH)	3106x1690x2100mm	3106x1690x2100mm	3106x1690x2100mm	3106x1690x2100mm
Net Weight	4900kgs	4920kgs	4900kgs	4920kgs

Tooling System Layout

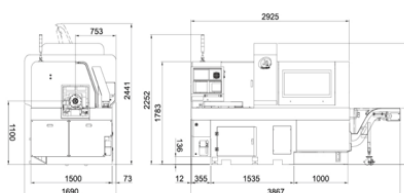
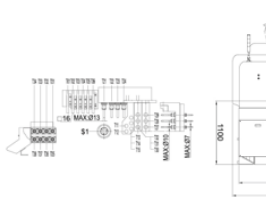
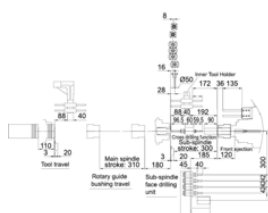
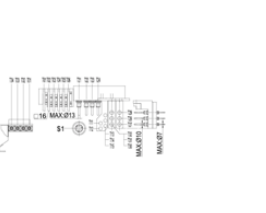
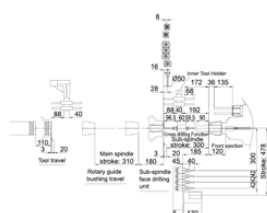


Chester SH32 42

Tooling System Layout



Chester SH32Y 42Y



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