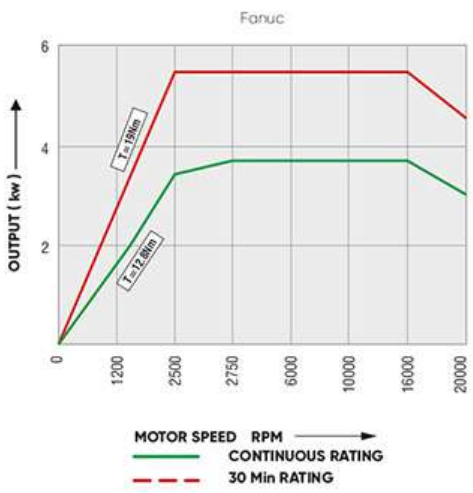


SHA 20 Magna

7 AXES



Power Torque Diagram



Machine Features

- Rigid FEA optimised bed design to cater easy chip and coolant flow
- Powerful compact built in motor for main and sub spindle with oil cooled headstock
- Spindle speed up to 10000 rpm (8000rpm with RGB)
- 5 or 7 Axes capability (includes B & Y2 Axes)
- Suitable for small parts machining
- Collet holding system with synchronous revolving guide bush system
- Houses 24 tools includes 4 rotary tools
- Continuous run with bar feeder from Dia 3 to dia 20mm

Standard Accessories

- Main Spindle Chucking Device
- Sub Spindle Chucking Device
- Headstock Cooling Device
- Rotary Tool Driving Device to accommodate 4 live tools
- Normal Pressure Coolant System
- Centralised Lubrication System (with level detector)
- Door Switch
- Pneumatic device for air sealing
- Knockout device for component ejection
- Built-in Lighting system
- Synchronous rotating guide bush device and GBL kit
- Work piece collecting chute and work piece collecting box
- Work piece Conveyor

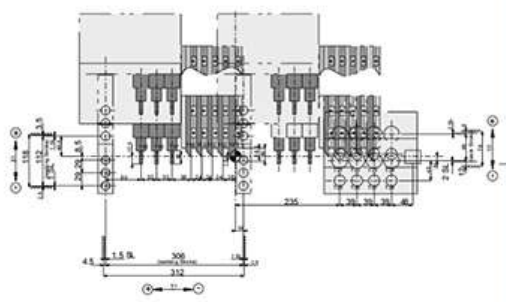
Optional Accessories

- Barfeeder
- Sub spindle driven tools
- Chip Conveyor with Tilting Bin
- Medium pressure cooling system
- Long work piece ejection system
- Back rotary tool device
- Fume extractor system
- B - Axis with plug-in live tools
- Y2 Axis for 4 back rotary tool and 4 back stationery tools

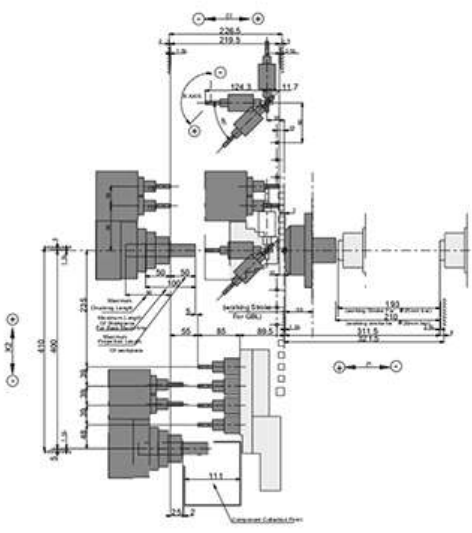
Control System Details

- 10.4" color LCD
- 2 path control
- Simultaneously controlled 4 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 1MB
- No. of registerable programs 800
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid tapping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

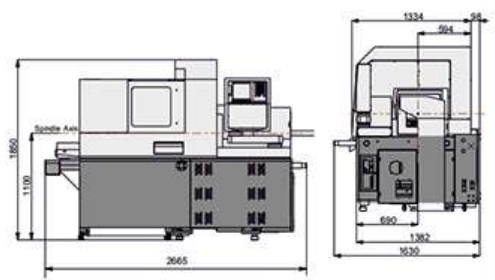
Machining Range (7 Axes)



Interference Diagram (7 Axes)



Overall Views



All dimensions are in mm

Specifications

SHA 20 Magna (7 Axes)	
Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	ø20 (ø25 optional) mm
Max. machining length (L) with RGB	210 (193 for ø25) mm*
Max. machining length (L) without RGB	20
Max. front drilling diameter main spindle	ø10 mm
Max. front tapping diameter (tap) main spindle	M8
Maximum chuck diameter of sub spindle	20 (ø25mm)
Max. drilling diameter - sub spindle	8 mm
Max. tapping diameter - sub spindle	M6
Max. slitting cutter dia	ø30mm
Max. workpiece length for front side ejection	100mm
Machining Capability	
Max main spindle speed	10000 (8000with RGB) rpm
Max sub spindle speed	10000 rpm
Max. speed of gang rotary tool	6000 (4500) rpm
Max. No. of tools that can be mounted	24
Turning tools on the gang tool post	5
Cross rotary tools	3
Tools beside Sub spindle (Deep hole drill)	2
B Axis live tool (plug-in)	3+3
Y2 Axis tools for subspindle	4(live tools) + 4 (stationery tools)
Tool shank size (Gang tool post)	□12mm(□16mm parting)
Sleeve (boring bar)	ø25mm
X1 axis (Rapid Traverse)	18 m/min
X2, Y1, Z1, Z2, axes (Rapid Traverse)	32 m/min.
Y2 Rapid Traverse	8 m/min.
Motors	
Main Spindle - cont / 30 min	3.7 / 5.5 kW
Sub Spindle - cont / 30 min	2.2 / 3.7 kW
Axis Motors	0.75kW
Rotary Tool Motor	1kW
Lubrication Pump Unit	0.09 kW
Back Rotary Tool Device (Optional)	1kW
Normal Pressure Coolant Pump Unit (RKM 252)	1.1kW
Coolant Pump Nippon or Equivalent - High Pressure	1.5kW
Collet	
Main spindle collet chuck	SF25/64 (Ø25mm SF30/9044)
Sub spindle collet chuck	SF25/64 (Ø25mm SF30/9044)
Rotary tool collet chuck	ER 16
Chuck for drill sleeves	ER 16
Guide bushing	R28/04 (Ø25mm R34/02)
General Information	
Coolant Capacity	165 litres
Spindle Center Height (with pads)	1100 mm
Air pressure	6 Bar
Overall Machine Dimensions (L x W x H)	2980x2050x1850mm
Overall Weight (Without Packing)	- 2650 kg

() Values mentioned in bracket are optional RGB - Rotary Guide Bush
 * With optional long workpiece ejection system

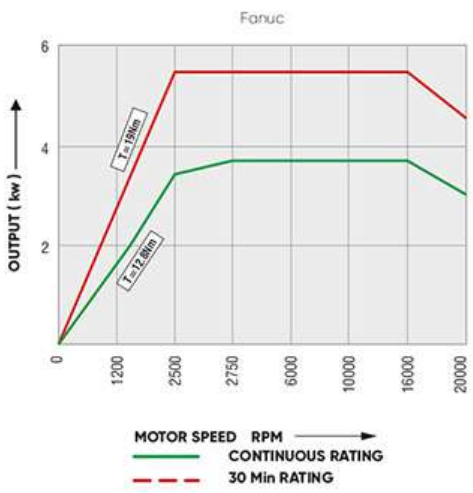
Note: Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering. Features shown may not be part of the standard equipment.

SHA 20 Magna

6 AXES



Power Torque Diagram



Machine Features

- Rigid FEA optimised bed design to cater easy chip flow and coolant flow
- Powerful compact built in motor for main and sub spindle with oil cooled headstock
- Spindle speed up to 10000 rpm (8000rpm with RGB)
- 6 Axes capability - Y2 axis for subspindle
- Suitable for small parts machining
- Collet holding system with synchronous revolving guide bush system
- Houses 27tools includes 4+4 rotary tools (Main and subspindle)
- Continuous run with bar feeder from Dia 3 to dia 20mm

Standard Accessories

- Main Spindle Chucking Device
- Sub Spindle Chucking Device
- Headstock Cooling Device
- Rotary Tool Driving Device to accommodate 4 live tools
- Normal Pressure Coolant System
- Centralised Lubrication System (with level detector)
- Door Switch
- Pneumatic device for air sealing
- Knockout device for component ejection
- Built-in Lighting system
- Synchronous rotating guide bush device and GBL kit
- Work piece collecting chute and work piece collecting box
- Y2 axis with 4 rotary and 4 stationary for subspindle
- Work piece Conveyor

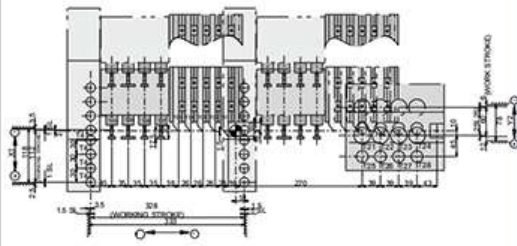
Optional Accessories

- Barfeeder
- Sub spindle driven tools
- Chip Conveyor with Tilting Bin
- Medium pressure cooling system
- Long work piece ejection system
- Back rotary tool device
- Fume extractor system

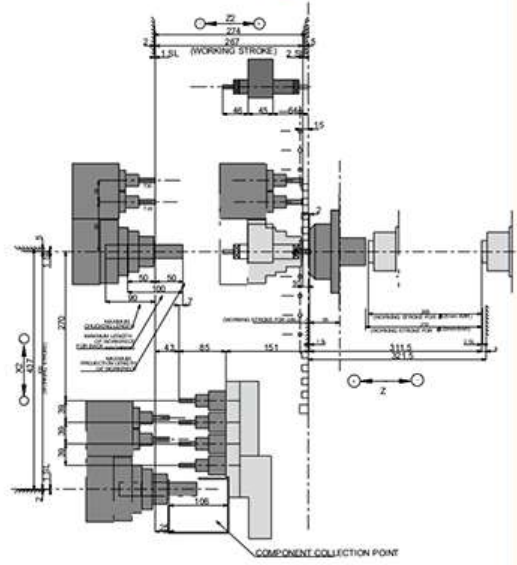
Control System Details

- 10.4" color LCD
- 2 path control
- Simultaneously controlled 4 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 1MB
- No. of registerable programs 800
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid tapping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

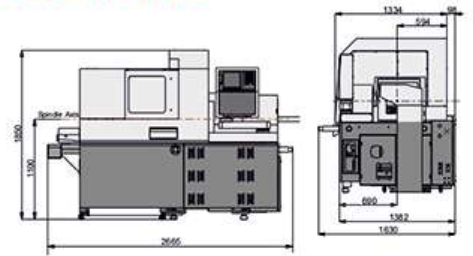
Machining Range (6 Axes)



Interference Diagram (6 Axes)



Overall Views



All dimensions are in mm

Specifications

SHA 20 Magna (6 Axes)	
Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	ø20mm (ø25mm optional)
Max. machining length (L) with RGB	210mm (193 for ø25) mm*
Max. machining length (L) without RGB	2.5D (Max 55mm)
Max. front drilling diameter main spindle	ø10 mm
Max. front tapping diameter (tap) main spindle	M8
Maximum chuck diameter of sub spindle	ø20mm (ø25mm optional)
Max. drilling diameter - sub spindle	ø8 mm
Max. tapping diameter - sub spindle	M6
Max. slitting cutter dia	ø30mm
Max. workpiece length for front side ejection	100mm
Machining Capability	
Max main spindle speed	10000 (8000with RGB) rpm
Max sub spindle speed	10000 rpm
Max. speed of gang rotary tool	6000 (4500) rpm
Max. No. of tools that can be mounted	27
Turning tools on the gang tool post	5
Cross rotary tools	4
Tools for front drilling	4
No Tools for subspindle	12
Y2-Axis tools for sub spindle	8(4 Live+4 Stationary)
Subspindle beside Tools (deep hole drilling)	2
Tool shank size (gang tool post)	□12mm(□16mm parting)
Sleeve (boring bar)	ø25mm
X1 axis (Rapid Traverse)	18 m/min
X2, Y1, Z1, Z2, axes (Rapid Traverse)	32 m/min.
Y2 Rapid Traverse	8 m/min.
Motors	
Main Spindle - cont / 30 min	3.7 / 5.5 kW
Sub Spindle - cont / 30 min	2.2 / 3.7 kW
Axis Motors	0.75kW
Rotary Tool Motor	1kW
Back Rotary Tool Device (optional)	1kW
Lubrication Pump Unit	0.09 kW
Normal Pressure Coolant Pump Unit (RKM 252)	1.1 kW
Coolant Pump Nippon or Equivalent - High Pressure	1.5kW
Collet	
Main spindle collet chuck	SF25/64 (Ø25mm SF30/9044)
Sub spindle collet chuck	SF25/64 (Ø25mm SF30/9044)
Rotary tool collet chuck	ER 16
Chuck for drill sleeves	ER 16
Guide bushing	R28/04 (Ø25mm R34/02)
General Information	
Coolant Capacity	165 litres
Spindle Center Height (with pads)	1100 mm
Air pressure	6 Bar
Overall Machine Dimensions (L x W x H)	2980x2050x1850mm
Overall Weight (Without Packing)	~ 2650 kg

() Values mentioned in bracket are optional RGB - Rotary Guide Bush

* With optional long workpiece ejection system

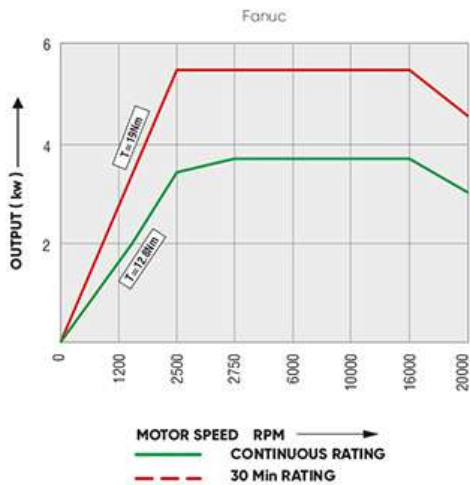
Note: Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering. Features shown may not be part of the standard equipment.

SHA 20 Magna

5 AXES



Power Torque Diagram



Machine Features

- Rigid FEA optimised bed design to cater easy chip and coolant flow
- Powerful compact built in motor for main and sub spindle with oil cooled headstock
- Spindle speed up to 10000 rpm (8000rpm with RGB)
- 5 Axes capability
- Suitable for small parts machining
- Collet holding system with synchronous revolving guide bush system
- Houses 21 tools includes 4 rotary tools
- Continuous run with bar feeder from Dia 3 to dia 20mm

Standard Accessories

- Main Spindle Chucking Device
- Sub Spindle Chucking Device
- Headstock Cooling Device
- Rotary Tool Driving Device to accommodate 4 live tools
- Normal Pressure Coolant System
- Centralised Lubrication System (with level detector)
- Door Switch
- Pneumatic device for air sealing
- Knockout device for component ejection
- Built-in Lighting system
- Synchronous rotating guide bush device and GBL kit
- Work piece collecting chute and work piece collecting box
- Work piece Conveyor

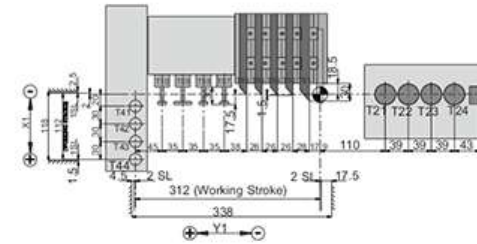
Optional Accessories

- Barfeeder
- Ø25 top tooling
- Chip conveyor with tilting Bin
- Medium pressure cooling system
- Long work piece ejection system
- Back rotary tool device
- Fume extractor system

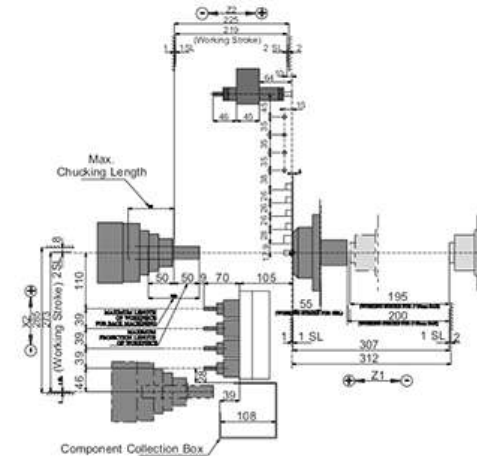
Control System Details

- 10.4" color LCD
- 2 path control
- Simultaneously controlled 4 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 1MB
- No. of registerable programs 800
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid tapping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

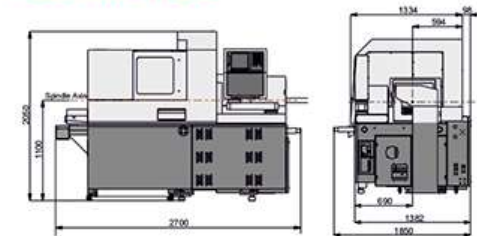
Machining Range (5 Axes)



Interference Diagram (5 Axes)



Overall Views



All dimensions are in mm

Specifications

SHA 20 Magna (5 Axes)

Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	ø20mm (ø25mm optional)
Max. machining length (L) with RGB	200mm (190 for ø25) mm*
Max. machining length (L) without RGB	2.50 (Max 55mm)
Max. front drilling diameter main spindle	ø10 mm
Max. front tapping diameter (tap) main spindle	M8
Maximum chuck diameter of sub spindle	ø20mm (ø25mm optional)
Max. drilling diameter - sub spindle	ø8 mm
Max. tapping diameter - sub spindle	M6
Max. slitting cutter dia	ø30mm
Max. workpiece length for front side ejection	100mm
Machining Capability	
Max main spindle speed	10000 (8000with RGB) rpm
Max sub spindle speed	10000 rpm
Max. Speed of gang rotary tool	6000 (4500) rpm
Max. No. of tools that can be mounted	21
Turning tools on the gang tool post	5
Cross rotary tools	4
Tools for front drilling	4
No Tools for subspindle	8(4+4)
Tool shank size (gang tool post)	□12mm(□16mm parting)
Sleeve (boring bar)	ø25mm
X1 axis (Rapid Traverse)	18 m/min
X2, Y1, Z1, Z2, axes (Rapid Traverse)	32 m/min.
Motors	
Main Spindle - cont / 30 min	3.7 / 5.5 kW
Sub Spindle - cont / 30 min	2.2 / 3.7 kW
Axis Motors	0.75kW
Rotary Tool Motor	1kW
Back Rotary Tool Device (optional)	1kW
Lubrication Pump Unit	0.09 kW
Normal Pressure Coolant Pump Unit (RKM 252)	1.1kW
Coolant Pump Nippon or Equivalent - High Pressure	1.5kW
Collet	
Main spindle collet chuck	SF25/64 (ø25mm SF30/9044)
Sub spindle collet chuck	SF25/64 (ø25mm SF30/9044)
Rotary tool collet chuck	ER 16
Chuck for drill sleeves	ER 16
Guide bushing	R28/04 (ø25mm R34/02)
General Information	
Coolant Capacity	165 litres
Spindle Center Height (with pads)	1100 mm
Air pressure	6 Bar
Overall Machine Dimensions (L x W x H)	2700x2050x1850mm
Overall Weight (Without Packing)	~ 2650 kg

() Values mentioned in bracket are optional RGB - Rotary Guide Bush
 * With optional long workpiece ejection system

Note: Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering. Features shown may not be part of the standard equipment.

SHA 20 Optima



Machine Features

- Rigid FEA optimized bed design
- Powerful built in motor for main & sub spindle; Oil cooled Headstock
- Motorized modular direct drive rotary guide bush(RGB)
- Spindle speed up to 8000 rpm
- 5 Axes capability
- Suitable for small & medium parts machining
- Collet holding system with RGB or without Guide bush option
- Houses 21 tools including 4 rotary tools
- Simultaneous machining on both main & sub spindle to increase productivity
- Continuous run with servo bar feeder from $\varnothing 3$ to $\varnothing 20$ mm

Standard Accessories

- Main spindle chucking device
- Sub spindle chucking device
- Oil cooling unit for both the spindle
- Rotary tool driving device to accommodate 4 live tools
- Normal pressure coolant system
- Centralised lubrication system (with level detector)
- Pneumatic device for rotary tool air sealing
- Knock device for component ejection
- Built in lighting system
- Guide bushless kit
- Workpiece collecting box

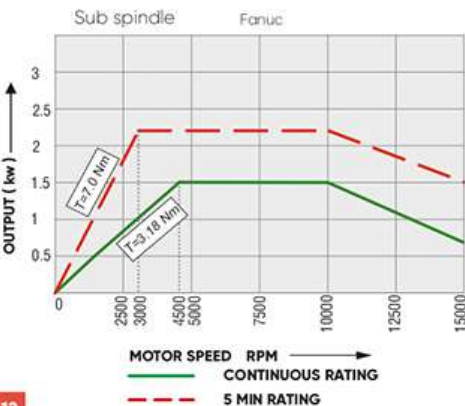
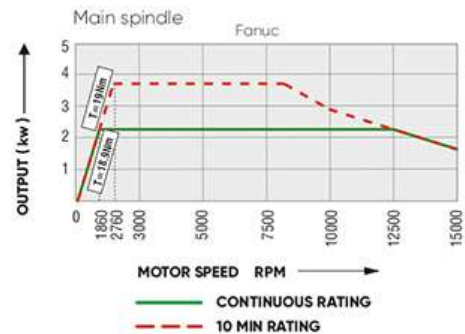
Optional Accessories

- Bar feeder
- Chip conveyor with tilting bin
- Direct drive rotary guidebush
- Carrier type guide bush
- High pressure coolant system
- Mist collector system

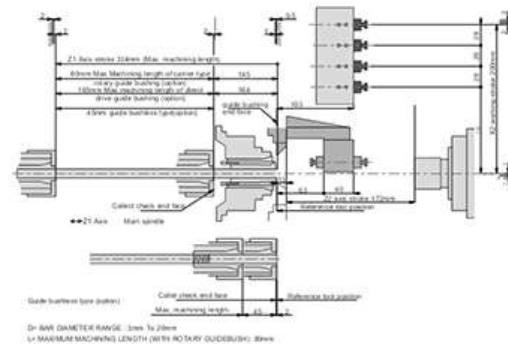
Control System Details

- 10.4" color LCD
- 2 path control
- Simultaneously controlled 4 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 1MB
- No. of registerable programs 800
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid tapping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

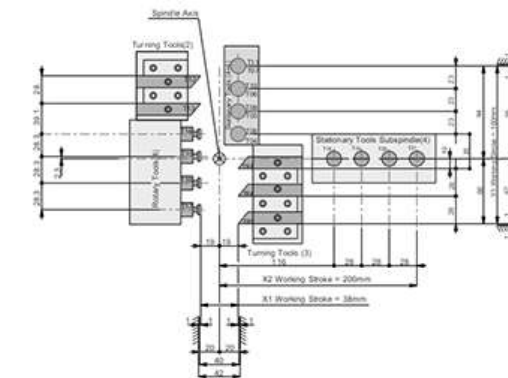
Power Torque Diagram



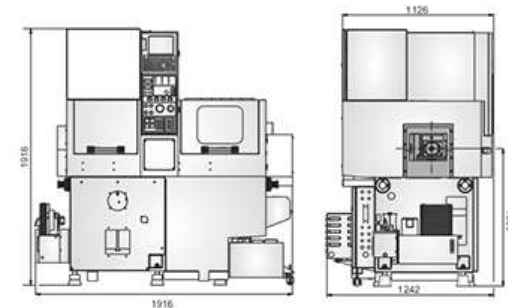
Machining Range



Interference Diagram



Overall Views



All dimensions are in mm

Specifications

SHA 20 Optima

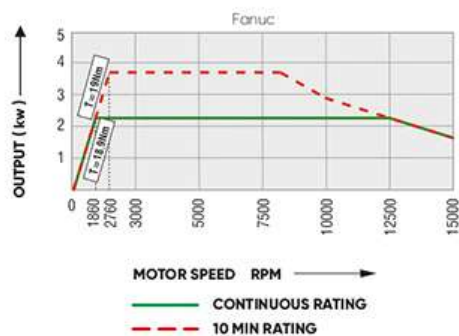
Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	20 mm
Max. machining length (L) without guide bush	2D
Max. machining length (L) with carrier type guide bush	80 mm
Max. machining length (L) with direct drive guide bush	165 mm
Max. front drilling diameter - Main Spindle	10 mm
Max. front tapping diameter (tap, die) - Main spindle	M8
Maximum chuck diameter of Sub spindle	$\varnothing 20$ mm
Max. Drilling diameter in back machining	$\varnothing 8$ mm
Max. Tapping in back machining	M8
Max. Drilling diameter of cross rotary tool	6 mm
Max. Tapping of cross rotary tool	M5x0.8
Max. Slotting cutting dia	30mm
Machining Capability	
Max Main spindle speed	8000 RPM
Max. Sub Spindle Speed	12000 RPM
Max. Speed of cross rotary tool	6000 RPM
Max. No. of tools that can be mounted	21
Turning tools on the gang tool post	5(3+2)
Number of cross rotary tools	4
Tools for front drilling	4
Tools for back drilling	8(4+4)
Tool size (turning tool shank)	12 mm
Sleeve size (tool holder)	$\varnothing 20$ mm
Rapid feed rate Z1,Z2,X1,X2	32 m/min.
Rapid feed rate X1,Y1	24 m/min.
Motors	
Main Spindle - cont./10min	2.2 / 3.7 kW
Back Spindle - cont./5min	1.5 / 2.2 kW
Cross rotary tool	0.75 kW
Z1,Z2,X1,X2	0.5 kW
Y1 (Vertical Axis)	0.75 kW
Coolant Pump Unit	0.2 kW
Lubrication Pump Unit	0.09 kW
Collet	
Main spindle collet chuck	SF25/64
Sub spindle collet chuck	SF25/64
Rotary tool collet chuck	ER16, ER11
Chuck for drill sleeves	ER11
Guide bushing	CGB R28/04, DDGB R26/02
General Information	
Coolant Capacity	115 litres
Spindle Center Height	1000 mm
Air pressure	6 Bar
Overall Machine Dimension (L x W x H)	1242 X 1916 X 1916 mm
Overall Weight (Without Packing) (Approx)	~ 2000 kg

Note:
Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.

SHA 20/3



Power Torque Diagram



Machine Features

- Powerful built in motor for main spindle.
- High speed spindle, range upto 10000 rpm.
- Suitable for small part machining with 3 axes capability.
- Collet holding system with synchronous revolving guide bush & without guide bush options.
- Houses 12 tools including 3 rotary tools.
- Continuous run with bar feeder from $\phi 3\text{mm}$ to $\phi 20\text{mm}$.

Standard Accessories

- Main Spindle Chucking Device
- Headstock Cooling Device
- Rotary Tool Driving Device to accommodate 3 live tools
- Normal Pressure Coolant System
- Centralised Lubrication System (with level detector)
- Door Switch
- Pneumatic device for air sealing
- Built-in Lighting system
- Synchronous rotating guide bush device
- Work piece collecting chute and work piece collecting box
- Guide bushless kit

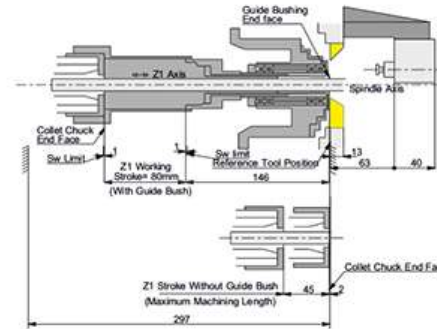
Optional Accessories

- Barfeeder
- Chip Conveyor with Tilting Bin
- Medium pressure cooling system
- 4 rotary tool device
- Mist collector system.

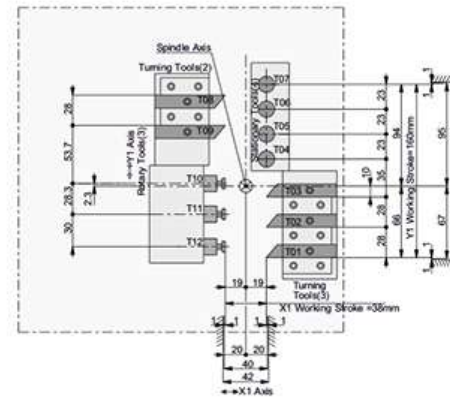
Control System Details

- 10.4" color LCD
- 1 path control
- Simultaneously controlled 3 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 512 KB
- No. of registerable programs 400
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid tapping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

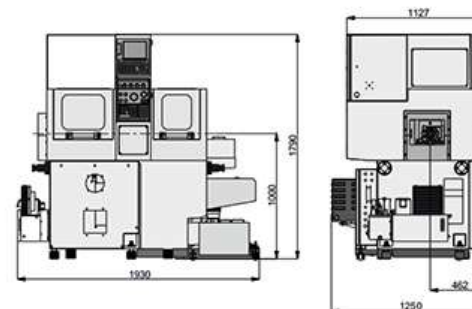
Machining Range



Interference Diagram



Overall Views



All dimensions are in mm

Specifications

SHA 20/3

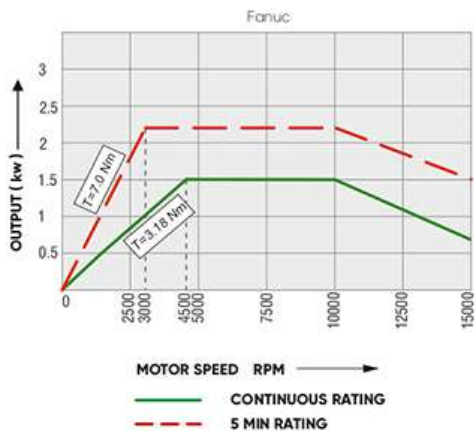
Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	20mm
Max. machining length (L) with rotary guide bush	80mm
Maximum machining Length with out guide bush	2D
Max. front drilling diameter	10mm
Max. front tapping diameter - main spindle	M8
Max. drilling diameter of cross rotary tool	6mm
Max. tapping diameter of cross rotary tool	M5 x 0.8
Max. Tool spindle slotting cutter diameter	$\phi 30\text{mm}$
Machining Capability	
Max main spindle speed	10000rpm
Max main spindle speed with carrier type rotary guide bush	8000rpm
Max. Speed of cross rotary tool	6000rpm
Max. No. of tools that can be mounted	12
Turning tools on the gang tool post	5(3+2)
Number of Cross rotary tools	3(4 option)
Tools for front drilling	4
Tool size (turning tool shank)	12mm X 12mm
Sleeve size (tool holder)	$\phi 20\text{mm}$
Rapid feed rate Z1	32 m/min
Rapid feed rate X1, Y1	24 m/min
Motors	
Main Spindle - cont / 10 min	2.2 / 3.7kW
Cross rotary tool	0.75 kW
Z1, X1	0.5 kW
Y1 (Vertical Axis)	0.75 kW
Coolant Pump - Medium pressure	0.54 kW
Lubrication Pump Unit	0.09 kW
Collet	
Main spindle collet chuck	SF 25/64
Rotary tool collet chuck	ER 16, ER 11
Chuck for drill sleeves	ER 11
Guide bushing	R 28 / 04
General Information	
Coolant Capacity	115 litres
Spindle Center Height (with pads)	1000mm
Air pressure	6 Bar
Overall Machine Dimensions (L x W x H)	1930 x 1250 x 1790 mm
Overall Weight (Without Packing)	1500 kg

Note:
Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.

SHA 12



Power Torque Diagram



Machine Features

- Powerful built in motor for main & sub spindle.
- High speed spindle, range upto 12000 rpm.
- Suitable for small part machining with 5 axes capability.
- Collet holding system with synchronous revolving guide bush, fixed guide bush & without guide bush options.
- Houses 20 tools including 3 rotary tools.
- Simultaneous machining on both main & sub spindle to increase productivity.
- Continuous run with bar feeder from ø3mm to ø12mm.

Standard Accessories

- Main spindle chucking device
- Sub spindle chucking device
- Oil cooling unit for both the spindle
- Rotary tool driving device to accommodate 3 live tools
- Normal pressure coolant system
- Centralised lubrication system (with level detector)
- Pneumatic device for rotary tool air sealing
- Knock device for component ejection
- Built in lighting system
- Synchronous rotating guidebush device
- Workpiece collecting box

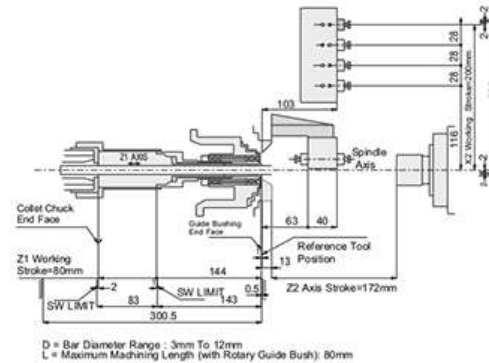
Optional Accessories

- Bar feeder
- Chip conveyor with tilting bin
- Mist collector system

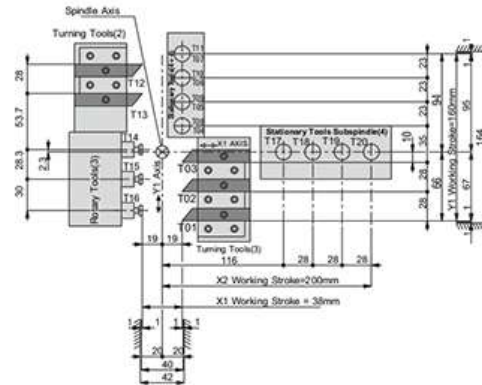
Control System Details

- 10.4" color LCD
- 2 path control
- Simultaneously controlled 4 axes
- PMC Axis control
- Tool nose radius compensation
- Tool life management
- Self-diagnostics
- Part program storage size 1MB
- No. of registerable programs 800
- Absolute/incremental programming
- Diameter/radius programming (X axis)
- Custom macro
- Multiple repetitive cycles
- Thread/Synchronous cutting
- Rigid topping
- Direct drawing dimension programming
- Inch/metric switchable
- Graphic display
- Clock function
- Multi-language display
- Alarm/operation history display
- Unexpected disturbance torque detection function

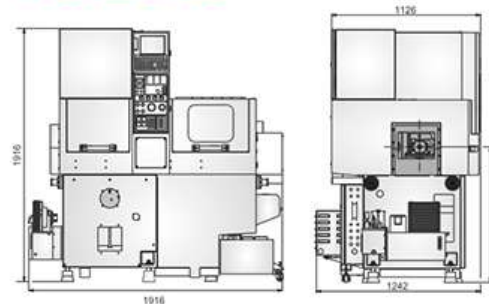
Machining Range



Interference Diagram



Overall Views



All dimensions are in mm

Specifications

SHA 12

Control System	Fanuc
Machining Capacity	
Max. machining diameter (D)	Ø3-12 mm
Max. machining length (L) with rotary guide bush	80 mm
Max. machining length (L) with fixed guide bush	210 mm
Max. machining length (L) without guide bush	2D
Max. front drilling diameter - Main Spindle	7 mm
Max. front tapping diameter (tap, die)-Main spindle	M6x1
Maximum chuck diameter of Sub spindle	12 mm
Max. Drilling diameter in back machining	7 mm
Max. Tapping in back machining	M6x1
Max. Drilling diameter of cross rotary tool	6 mm
Max. Tapping of cross rotary tool	M5x0.8
Machining Capability	
Max Main spindle speed	12000 (8000 with RGB)RPM
Max. Sub spindle Speed	12000 RPM
Max. Speed of cross rotary tool	6000 RPM
Max. No. of tools that can be mounted	20
Turning tools on the gang tool post	5(3+2)
Number of cross rotary tools	3
Tools for front drilling	4
Tools for back drilling	8(4+4)
Tool size (turning tool shank)	12 mm
Sleeve size (tool holder)	Ø20 mm
Rapid feed rate Z1, Z2, X2	32 m/min.
Rapid feed rate X1, Y1	24 m/min.
Motors	
Main Spindle - cont./5min	1.5 / 2.2 kW
Back Spindle - cont./5min	1.5 / 2.2 kW
Cross rotary tool	0.75 kW
Z1, Z2, X1, X2,	0.5 kW
Y1 (Vertical Axis)	0.75 kW
Coolant Pump Unit	0.2 kW
Lubrication Pump Unit	0.09 kW
Collet	
Main spindle collet chuck	SF 20/201
Sub spindle collet chuck	SF 20/201
Rotary tool collet chuck	ER 16, ER 11
Chuck for drill sleeves	ER 11
Guide bushing	R 24/Ø3
General Information	
Coolant Capacity	115 litres
Spindle Center Height	1000 mm
Air pressure	6 Bar
Overall Machine Dimension (L x W x H)	1242 X 1916 X 1916 mm
Overall Weight (Without Packing) (Approx)	~ 1950 kg

Note:
Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.



Barfeeder

Accessories



Back rotary tool device



4 Rotary tool device



Broaching



Radial Adjustable plugin (± 90°)



Radial Set Back



Thread Whirling



Mist collector



Work piece conveyor



Long work piece ejection system



Chip Conveyor



Chiller Unit



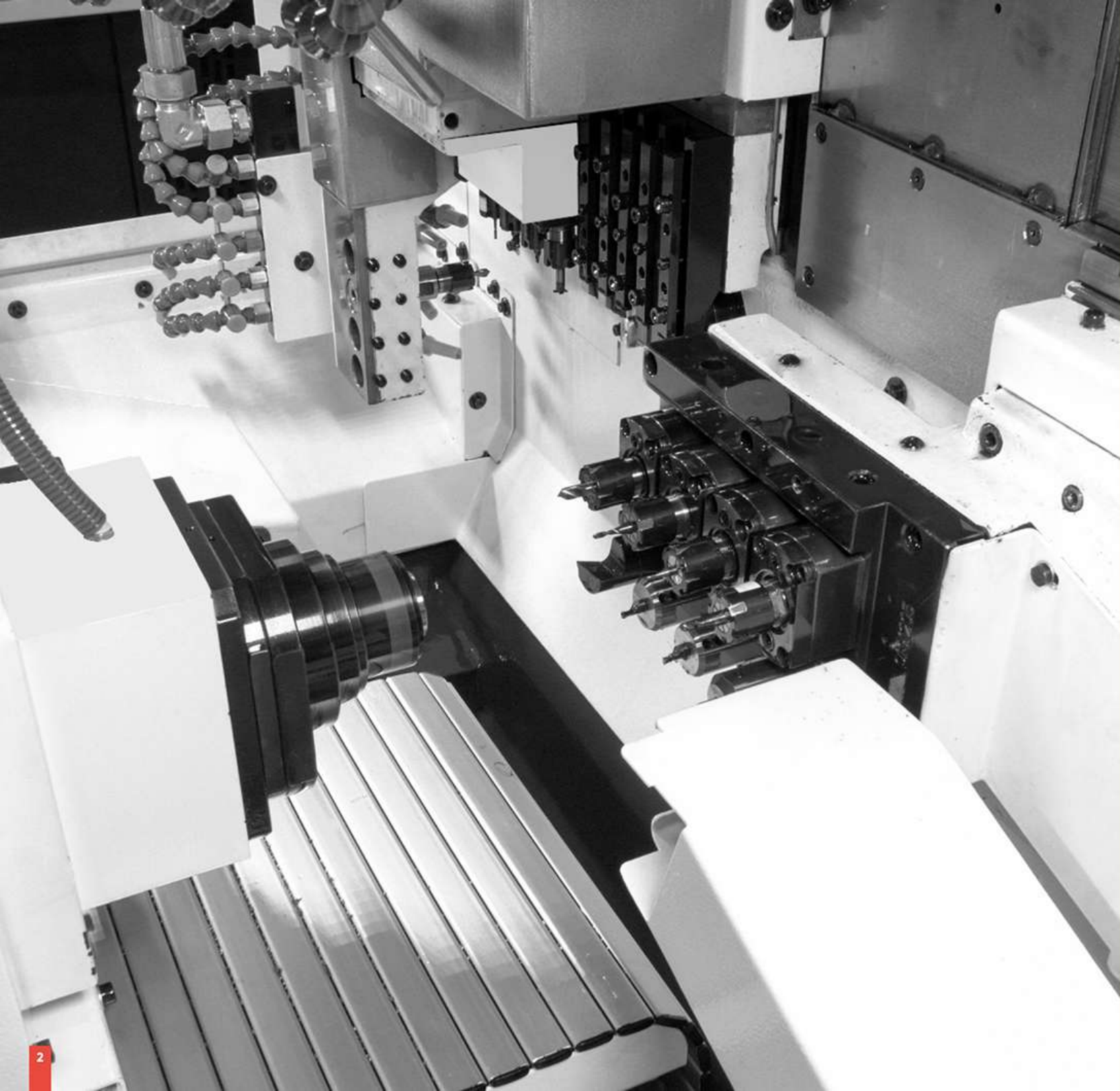
Air Compressor with Dryer

CNC Sliding Headstock Automats

The CNC Sliding Headstock Automat machine is of twin spindle sliding head design to bring in productivity of Swiss style automat. The machine elements such as ball screws, bearings, CNC system and drives have been chosen from the best available technology in the world. The machine is built by a dedicated, experienced and skilled team under the guidance of domain experts.

SHA Application Examples





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Max. Work Piece Size Ø12

- 8 SHA 12

Max. Work Piece Size Ø20

- 10 SHA 20/3
- 12 SHA 20 Optima
- 14 SHA 20 Magna **5 Axes**
- 16 SHA 20 Magna **6 Axes**
- 18 SHA 20 Magna **7 Axes**

Max. Work Piece Size Ø32

- 20 SHA 32 **5 Axes**
- 22 SHA 32 **6 Axes**

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