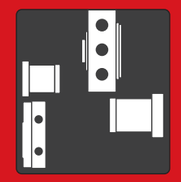
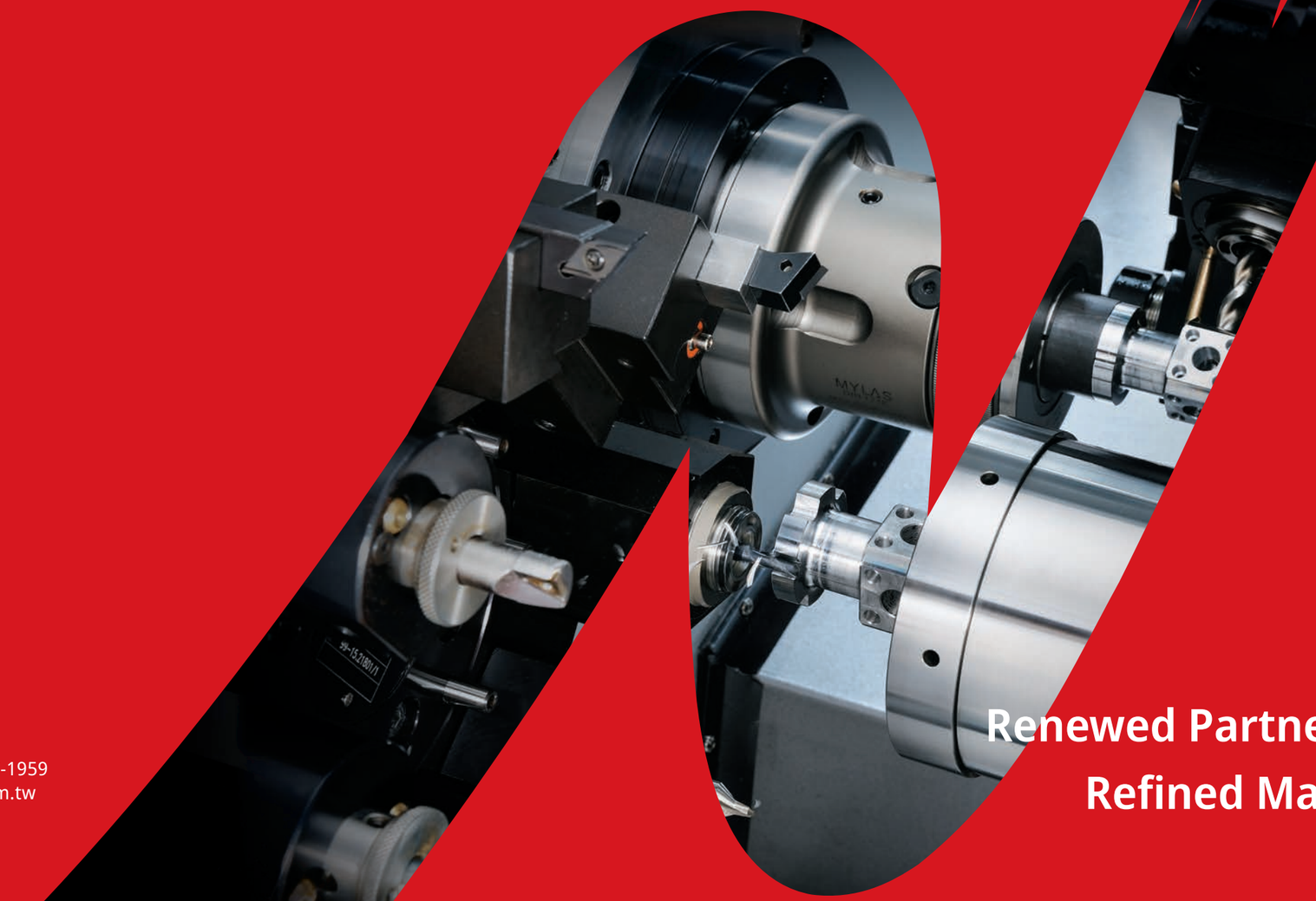
Double Spindle
Double Turret
Multi-Tasking Turning Center



DT42
DT52
DT65

- Aerospace
- Automotive
- Electronics
- Hydraulics
- Medical
- Pneumatics



Renewed Partnerships
Refined Machines

MYLAS

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www.mylascnc.com sales@mym.com.tw

DT

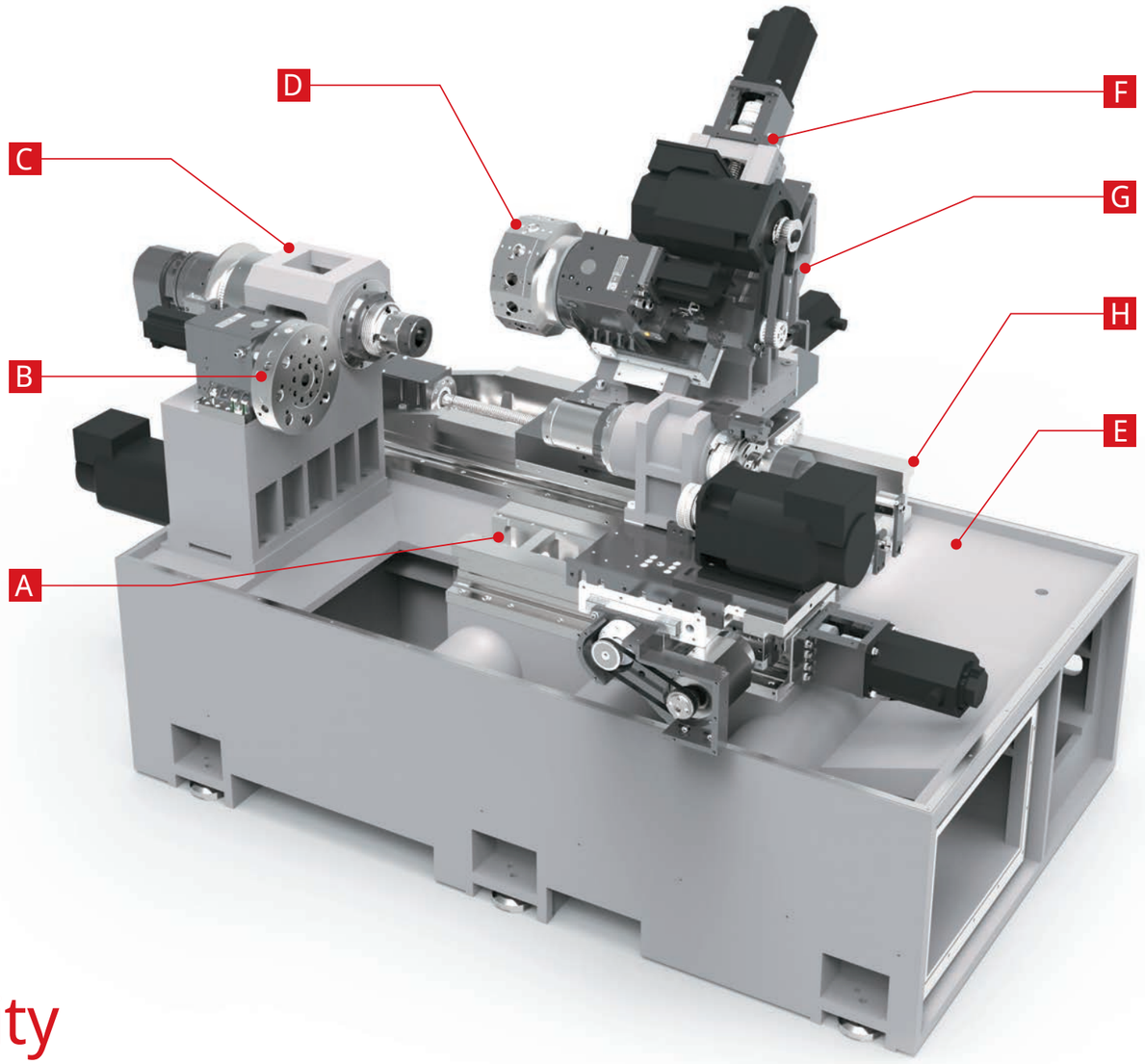
DT42/52/65 Machine Highlights

Front Machining

- BMT45 12-Stations
- Up to 24 tools
- 7.5 / 11 kW Spindle Power
- 65 mm Through Hole

Back Machining

- VDI 25 8-Stations Sub-Turret
- 3.7 / 5.5 kW Spindle Power
- 32 mm Through Hole



Capabilities

This multi-tasking turning center is an advanced machine designed for precision complex parts processed in one setup.

Power & Versatility

It has Double Spindles and Turrets with back machining provided by an 8-station sub-turret and sub-spindle with a total tool capacity of up to 32 tools. This solution is a powerful combination of power, precision and versatility.

Key Features

A Boxways on all axes are oversized and precision ground to a near mirror finish for smooth, fast precision movements providing dynamic rigidity and heavy-duty cutting ability

B The sub-turret for back machining can reduce cycle times significantly with superimposed cutting to complete parts in one setup. Driven tools at all 8 stations are possible

C Heavy-duty precision spindle design for enhanced thermal stability & power

D The main turret has 12 stations and with multi-tool holders up to 24 tools can be equipped. Driven tools at all 12 stations are possible

E Meehanite cast material is used and stress relieved to provide the best possible rigidity and vibration dampening base for machining parts with excellent surface finishes

F Y-axis travel +/- 35mm is supported by two slides, distributing the machining force evenly to ensure accuracy and rigidity

G 45 degree wedge design for fast chip flow and removal from the machining area for a thermally stable work platform

H Z-axis is equipped with precision high-rigidity 32mm ball screws and all other axes use 28mm ball screws to ensure fast feed rates and extended long-term durability for trouble free machining

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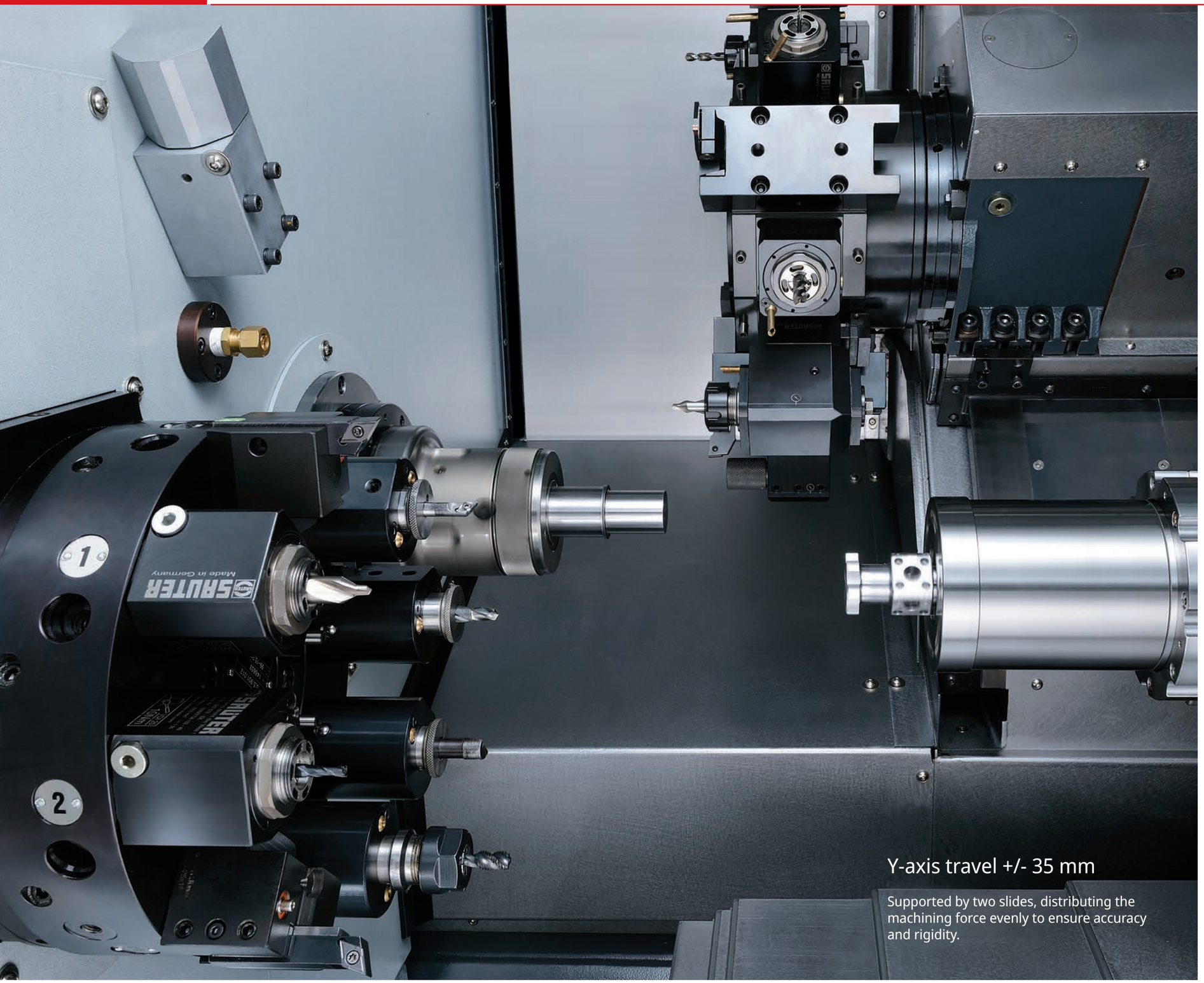
Turrets / Backmachining



Y-axis travel +/- 35 mm

Supported by two slides, distributing the machining force evenly to ensure accuracy and rigidity.

BMT45-12 Stations Main Turret

The main turret has 12 stations, but with multi-tool holders up to 24 tools are possible. Fanuc Alpha 2 motors provide driven tools up to 6000 rpm with high power and speed. Bidirectional turret indexing allows the shortest path to the next tool for faster cycle times. A 20 bar high pressure coolant system provides fast chip removal and longer tool life.

BMT45

- Fanuc Alpha 2 Motor-High torque, resolution & precision
- Driven tools: 2.2/3.75 kW & 23.5 N.m
- Optional 70 bar High Pressure Coolant Systems

VDI 25-8 Stations Sub-turret

The sub-turret for back machining can help reduce idle time. Cycle times can also be significantly reduced with superimposed cutting utilizing the sub-spindle and sub-turret. Optional Sub Turret types: Power Turret, Servo Turret and Hydraulic Turret

VDI 25

- Fanuc Alpha 8 Motor-High torque, resolution & precision
- Driven tool power: 2.2 kW & 22 N.m
- Turrets designed for faster indexing time and outstanding thermal stability

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Workpiece Applications

Industry	Aerospace
Material	Aluminum 7005
Size	66 x 16 mm
Cycle time	240 sec
Operations	Turning, Milling, Engraving, Back machining

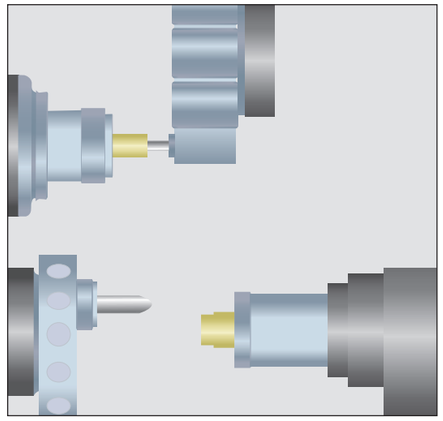
Industry	Machinery
Material	SUS 340
Size	33 x 185 mm
Cycle time	720 sec
Operations	Turning and Wrap Contour Milling

Industry	Mechanical Parts
Material	S45C
Size	11 x 31 mm
Cycle time	300 sec
Operations	Turning, Milling, Back machining

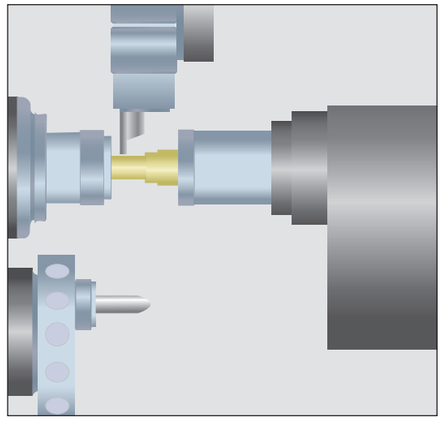
Industry	Automotive
Material	Aluminum 7005
Size	45 x 16 mm
Cycle time	540 sec
Operations	Turning, Milling, Back machining

Machining Applications

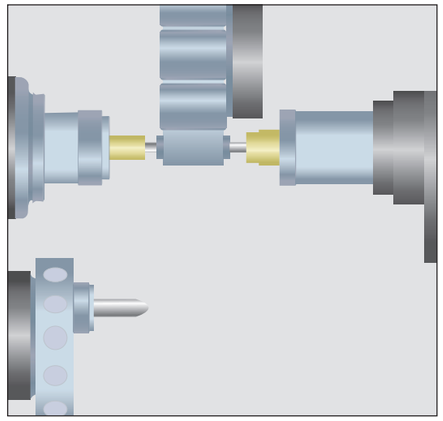
Spindle 1, Turret 1 ID Turning



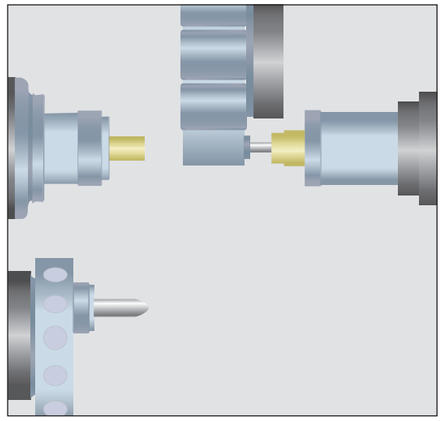
Cutoff & Transfer to Spindle 2



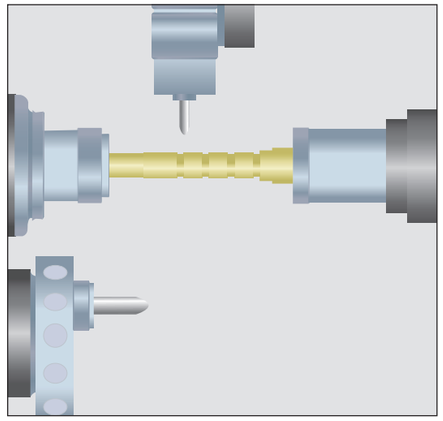
Superimposed Machining



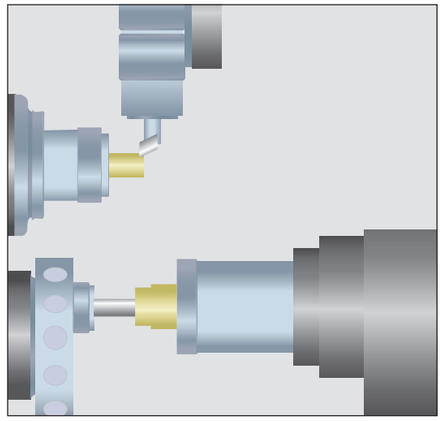
Turret 1 Back Machining



Spindle 1 & 2 Milling



Turret 1 OD Turning & Sub-turret Back Machining



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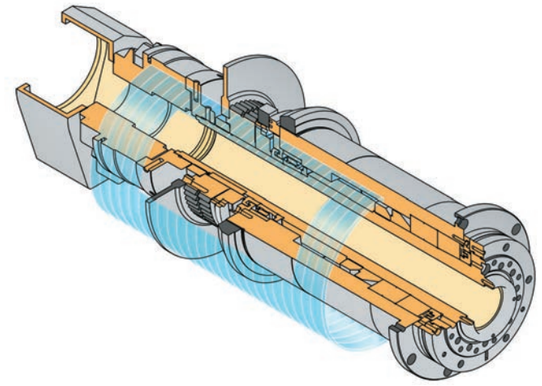
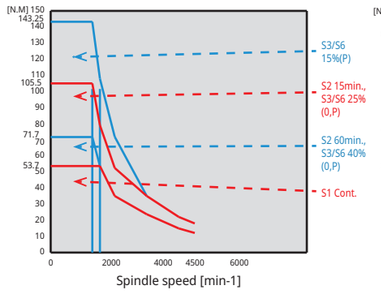
Precision Spindles

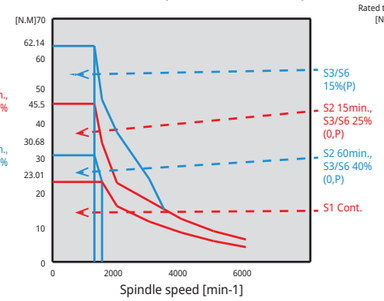
- Extremely rigid main and sub-spindles with purpose built roller bearings on the front and rear to concentrate power directly to the cutting surface and resist axial and radial forces
- Higher speeds and heavy-cuts are possible with this bearing arrangement
- Simultaneous independent machining of the front and back of the workpiece and C-axis with resolution of 0.001 degrees allows for complex contouring of parts



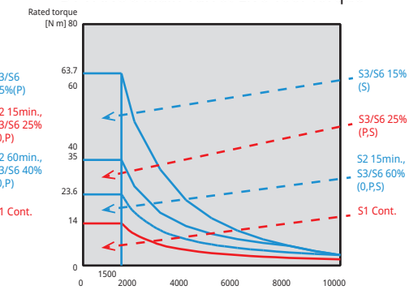
DT FANUC Spindle Motor Torque



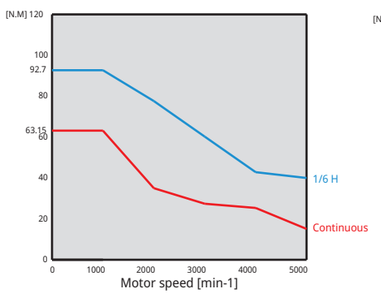
DT FANUC Sub-spindle Motor Torque



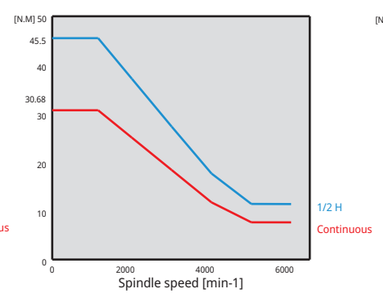
DT FANUC Main Turret Live Tool Torque



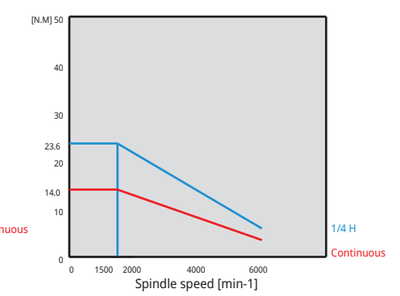
DT MITSUBISHI Spindle Motor Torque



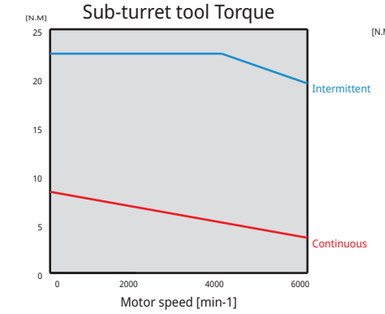
DT MITSUBISHI Sub-spindle Motor Torque



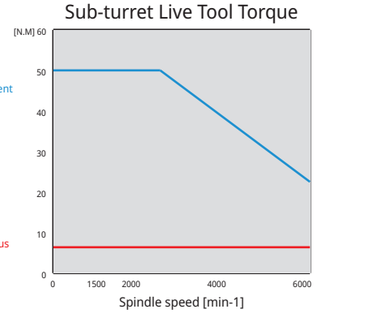
DT MITSUBISHI Main Turret Live Tool Torque



DT FANUC
Sub-turret tool Torque

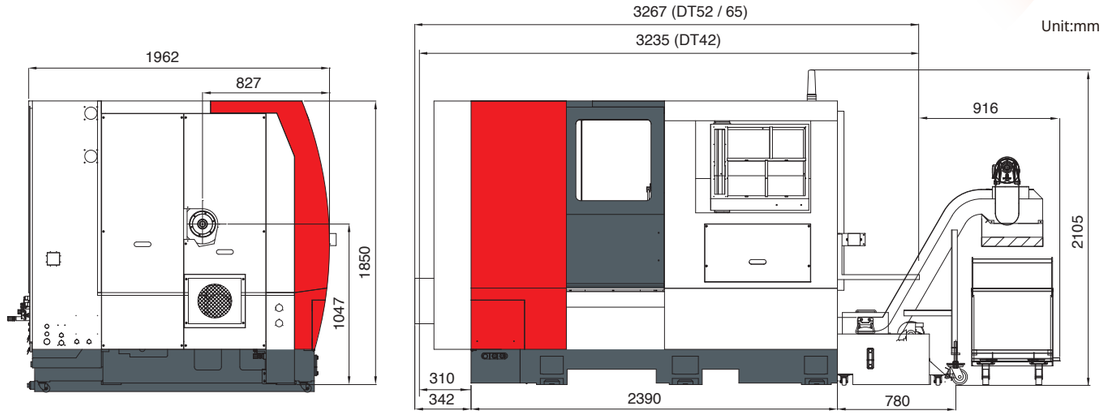


DT MITSUBISHI
Sub-turret Live Tool Torque



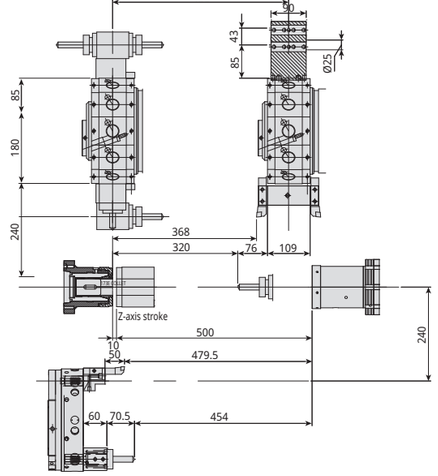
Machine Dimensions

Unit:mm

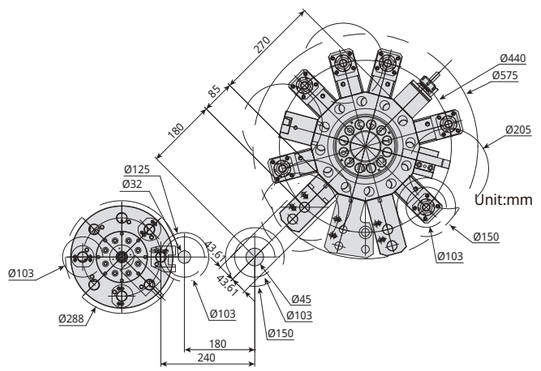


Tool Interference Diagrams

Machining Zone



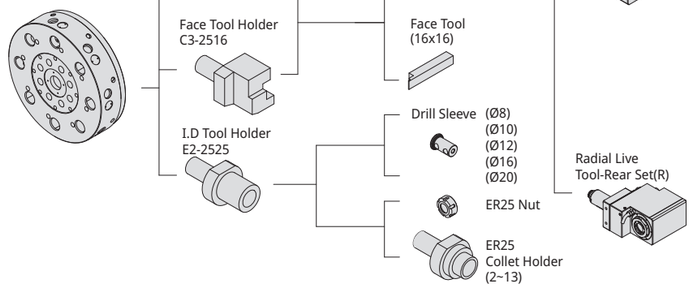
Tool Interference



Tooling System

VDI 25 8-Station Live Turret

VDI 25.8 Tooling System

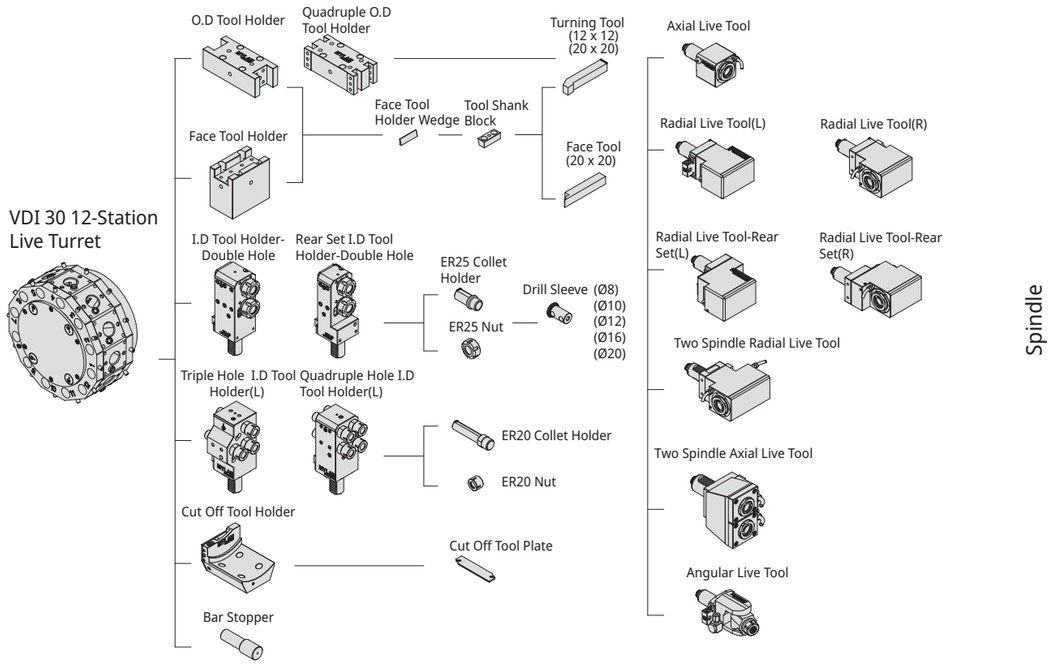


DT

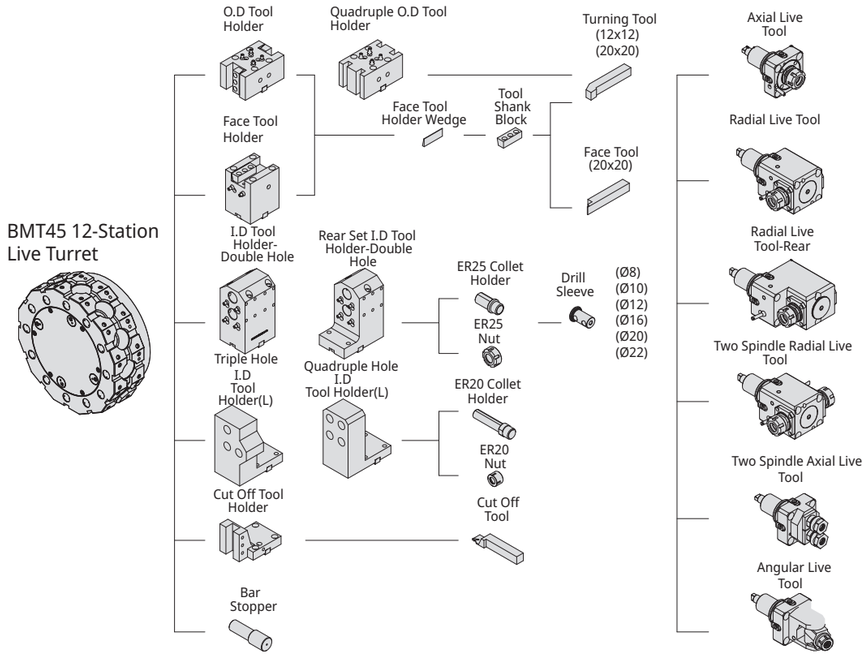
Tooling System

VDI 30.12 Tooling System

Unit:mm



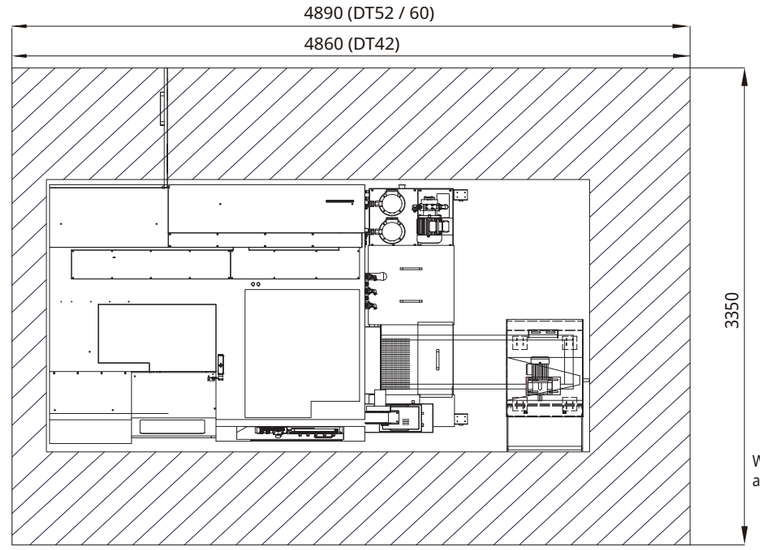
BMT45. 12 Tooling System



Specifications

	Item	Unit	DT42	DT52	DT65
Capacity	Chuck Type (Main / Sub Spindle)	type	DIN173E / DIN173E	DIN177E / DIN173E	SAD-65 / DIN173E
	Max. Bar Turning Length (Main / Sub Spindle)	mm	135 / 60	135 / 60	135 / 60
	Max. Turning Length (Main / Sub Spindle)	mm	350	350	350
	Max. Turning Diameter (Main / Sub Spindle)	mm	Ø42 / 42	Ø51 / 42	Ø65 / 42
	Max. Turning Bar Diameter (Main / Sub Spindle)	mm	150 / 135	150 / 135	150 / 135
Travel	X1 / X2 Axis Travel	mm	175 / 240	175 / 240	175 / 240
	Z1 / Z2 Axis Travel	mm	450 / 500	450 / 500	450 / 500
	Y1 Axis Travel	mm	±35	±35	±35
	X1 / X2 Axis Rapid Traverse	M/min	18 / 18	18 / 18	18 / 18
	Z1 / Z2 Axis Rapid Traverse	M/min	24 / 24	24 / 24	24 / 24
	Y1 Axis Rapid Traverse	M/min	18	18	18
Main Spindle	Spindle Nose	type	A2-5	A2-6	A2-6
	Spindle Speed	rpm	50 - 5000	50 - 4500	50 - 4000
	Spindle Motor (Cont./15min)	kW	7.5 / 11	7.5 / 11	7.5 / 11
Sub Spindle	Spindle Nose	type	A2-4	A2-4	A2-4
	Spindle Speed	rpm	50 - 5500	50 - 5500	50 - 5500
	Spindle Motor (Cont./15min)	kW	3.7 / 5.5	3.7 / 5.5	3.7 / 5.5
Turret	No.of Tool Stations	set	12	12	12
	O.D. Tool Size	mm	20	20	20
	I.D. of Boring Bar Holder	mm	25	25	25
	Turret Indexing	sec	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3
	Tool Spindle Speed	rpm	6000	6000	6000
	Tool Spindle Motor (Cont./30mins)	kW	2.2 / 3.7	2.2 / 3.7	2.2 / 3.7
	Tool Spindle Torque (Cont./30mins)	NM	14 / 23.5	14 / 23.5	14 / 23.5
Sub-Turret	No.of Tool Stations	set	8	8	8
	O.D. Tool Size	mm	20	20	20
	I.D. of Boring Bar Holder	mm	20	20	20
	Turret Indexing	sec	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3
	Tool Spindle Speed	rpm	6000	6000	6000
	Tool Spindle Motor (Cont./30mins)	kW	2.2	2.2	2.2
	Tool Spindle Torque (Cont./30mins)	NM	22	22	22
Machine Dimension	Coolant Tank Capacity	Liter	250	250	250
	Machine Dimension	mm	2950 x 1961 x 2105	2980 x 1961 x 2105	2980 x 1961 x 2105
	Machine Weight	kg	5100	5100	5100
	Foundation Plan	mm	4860 x 3350	4890 x 3350	4890 x 3350
	Power Supply	Kva	55	55	55

Foundation Plan



Standard Accessories:

- Fanuc Controller
- Collet Chuck
- Workpiece Ejector
- 12-Station Power Turret
- 8-Station Sub Turret
- Auto Lubrication System
- Coolant System
- Sub-Spindle Inner Coolant & Air Blow
- Coolant Level Sensor
- Auto Power Shut-Off
- Signal Tower
- Parts Catcher
- Parts Conveyor

Optional Accessories:

- Live Tool Holder
- Static Tool Holder
- 6" Power Chuck for SP1
- 5" Power Chuck for SP2
- High Pressure Coolant System (70 Bar)
- Chip Conveyor
- Oil Mist Collector
- Bar Feeder
- Transformer
- Regulator
- Mitsubishi Controller

We reserve the right to modify the above specifications without notice.