

CNC machine tools

CNC LATHES DOUBLE SPINDLE CNC LATHES

www.raisbg.com

RAIS is a leading Bulgarian company for manufacturing and recycling of CNC machine tools. Created in 1994 in Pazardzhik, the company began its operations with recycling Bulgarian CNC machines. Gradually, its activities are directed towards the production of new machines, the company is the only local manufacturer of vertical machining centers.

The machines are designed and implemented in full production by the company experts.

The company carries also complete overhaul, repair and modernization of CNC machines, including horizontal and vertical centers.

Production list of RAIS includes:

- 10 models vertical machining centers with sizes from 300 to 800 mm (table sizes from 400 to 300 mm to 1600 by 800 mm, spindle speed from 8 000 to 15 000 rpm);
- 5 models CNC lathes with a maximum turning diameter from 200 to 700 mm;
- 3 models 5-axis VMC, 350, 550 and 620 mm size;
- 4 models twin-spindle lathes;
- milling-turning VMC and double column milling machines;
- spare parts for forklifts.







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(* Based on one-shift operating schedule)



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All of them are equipped with reliable CNC systems from Siemens, Heidenhain and Fanuc-Japan.

The stability of machines manufactured by RAIS outperforms all others in this frame size. Precision linear guides and ball screws from "Bosch Rexroth" are built-in.

RAIS provides integrated solutions through the selection, procurement, production estimates for the time, tooling, commissioning, training and after-sales service of all types of CNC machine tools.

Precision in assembly, test and control means provides quality on each machine, meeting the requirements of EN ISO standards for machining centers.

The implemented Quality Management System creates all the prerequisites to meet customer requirements.

The company motto expresses our creed that the excellent quality of products and services is the best guarantee for the loyalty of our clients.

Buying from us, you do not receive just a machine, you receive our commitment and guarantee of quality - before and after the sale. Nishan Bazdigyan - CEO of RAIS Ltd.



SPARE PARTS SUPPLY





24 MONTHS WARRANTY*

Our machines speaks for themselves. We rely on the well-known quality of our machines.

You can always count on us. And benefit from our partnership!

TECHNICAL SUPPORT

We are always there for you!

- LOCAL
- CENTRAL
- FACTORY SERVICE

YOUR BENEFITS:

- Local sales and attendance in their respective countries and also access to other services;
- The same level of service and support in their respective countries;
- Service network of over 20 service technicians;
- Central spare parts supply (95% of the parts in stock);
- Hotline avialable locally and centrally;
- Exellent for companies with multiple locations - for easy handling of sales and services.









Manufacturers from 15 countries in Europe, Asia and Africa trusted RAIS. Among our major clients are:

- **x** Hyunday Heavy Industries in the field of heavy engineering
- **X** OMCO Group in the glass industry and space industry
- M+S Hydraulic in the field of hydraulics
- **x** Liebherr in the field of construction machinery and the production of white goods
- **x** Hertz in climatization, Lenze in drives technology

and many other companies in the fields of mechanical engineering, chemical industry, production of medical equipment and heating technology, thanks to which we constantly develop and for the last 20 years affirm RAIS's name in the CNC machine tools production.

RAIS has offices in Germany, Austria, Switzerland, Russia, Serbia, Macedonia, Turkey, Greece and Romania.











CNC LATHES

CONFIGURATION OPTIONS FOR TURNING CENTERS (Page 6)

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Product specifications, accessories and machine appearance are subject to change without notice



Turrets

FANUC FOR TURNING CENTERS **BAR FEEDER** 0 CONFIGURATION OPTIONS Automatic bar feeders 1.2 or 1.5 m for all type profiles of material. Hydrodynamic 2.5, 3.2 and 3.7 m automatic bar feeders. SPINDLE MOTORS FANUC ZF GEAR BOX



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VDI SERVO TURRET WITH C + Y AXES



Axial Driven Tool VDI tooling system



Radial Driven Tool BMT tooling system















AUTOMATIC COLLET CHUCK





The precise T200 RAIS CNC lathe is designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



STANDARD ACCESSORIES

- S-jaw through-hole power chuck
- Tailstock
- S station turret VDI 30
- Solution Chip conveyor and cart
- Coolant system
- S Working lamp
- Automatic lubrication system for axis ways and ball screws
- Solution Foot switch for chuck operation



High production capacity, stability and speed of all turning operations on various types of material.

Precise spindle assembly mounted in a temperaturestabilized and ribbed casing by means of class P4 spindle bearings featuring minimum radial runout and minimum axial clearance. Guaranteed high cutting speed with no vibration.

Linear (integrated) guideways: precise SP/P-class along X and Z axes. Precise ball screws (class P3) with a pre-loaded double nut and minimum backlash.

High precision of part positioning and long life. Minimized temperature and vibration deviations.

OPTIONAL ACCESSORIES

- ✓ 12 tools turret (VDI 30) and C-axis of the spindle
- Part catcher
- Sar feeder 1.2 m
- Sar feeder interface
- Son through-hole power chuck
- Auto tools presetter
- Collet chuck
- Sector Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS

CAPACITY

Max swing over bed Swing over carriage cover Max turning diameter X axis travel Z axis travel X / Z axis rapid traverse Ball screw (X / Z): diameter x pitch Guideways Carriage inclination Spindle center height (from floor)

SPINDLE

Spindle nose Spindle bore Power chuck diameter Spindle motor 100% ED / 30 min.**

Main motor torgue 100% ED / 30 min.**

Max spindle speed

Bar capacity

Power chucking system

TURRET

Number of tool posts

Number of rotating tools

Tool holder

Torque of rotating tools 100% / 40% / max.** Y axis on turret 1

TAILSTOCK

Tailstock quill taper Quill travel

Quill diameter

SIZE

Machine weight

Machine dimensions (approx.): L x B x H

CNC CONTROL

ACCURACY OF THE MACHINE

 (*) option
(**) technical data for Fanuc equipment (***) whith 12 station turret (****) on customer request

UNIT

T200

	(Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)**** DIN8605-8607
	Fanuc 0 <i>i</i>
mm	3316 x 1622 x 1911
kg	3 750
mm	50
mm	90
	MK4
	Option
Nm	12*
	VDI 30 / BMT*
	12*
	8 / 12*
	Hydraulic
mm	41 / 51*
rpm	6 000 / 4 200*
Nm	52.5 / 95
kW	11 / 15
mm	170 / 205*
mm	52 / 62*
	A2-5 / A2-6*
mm	1020
deg	45
	Integrated, size 30(X); 35(Z)
mm	32x5/40x10
m/min	12 / 20
mm	460 / 370*
mm	165 + 10
mm	200 / 250***
mm	330
mm	420



The super precision T250 RAIS CNC lathe is designed to perform a wide range of turning operations on mediumsized parts and components on a serial production basis.



STANDARD ACCESSORIES

- S-jaw through-hole power chuck
- S Tailstock
- 10 station turret VDI 30
- Chip conveyor and cart
- S Coolant system
- S Working lamp
- Automatic lubrication system for axis ways and ball screws
- Soot switch for chuck operation

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

High strength hardness guide and low resistance design provide prefer cutting surface.

The spindle is mounted with high precision class P4 NN type roller bearings and trust bearings, providing outstanding radial and trust loads.

Transmission with low thermal, preload ball screws, provided higher rigidity control.

Hydraulic tailstock. Programmable positioning is available.

OPTIONAL ACCESSORIES

- ✓ 12 tools turret (VDI 30) and C-axis of the spindle
- Part catcher
- Sar feeder 1.5 m
- Sar feeder interface
- Non through-hole power chuck
- Solution Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS

CAPACITY

Max swing over bed Swing over carriage cover Max turning diameter X axis travel Z axis travel X / Z axis rapid traverse Ball screw (X / Z): diameter x pitch Guideways Carriage inclination

Spindle center height (from floor)

SPINDLE

Spindle nose Spindle bore Power chuck diameter Spindle motor 100% ED / 30 min.** Main motor torgue 100% ED / 30 min.** Max spindle speed Bar capacity Power chucking system

TURRET

Number of tool posts

Number of rotating tools

Tool holder

Torque of rotating tools 100% / 40% / max.** Y axis on turret 1

TAILSTOCK

Tailstock quill taper Quill travel

Quill diameter

SIZE

Machine weight

Machine dimensions (approx.): L x B x H

CNC CONTROL

ACCURACY OF THE MACHINE

 (*) option
(**) technical data for Fanuc equipment (***) whith 12 station turret (****) on customer request

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RAIS

UNIT	T250		
mm	510		
mm	310		
mm	310 / 250***		
mm	155 + 30		
mm	600		
m/min	12 / 20		
mm	32x10/40x10		
	Prismatic		
deg	45		
mm	1120		
	A2-6 / A2-8*		
mm	61 / 87*		
mm	205 / 250*		
kW	9 / 11		
Nm	85.9 / 140		
rpm	4 200 / 3 500*		
mm	51 / 74*		
	Hydraulic		
	10 / 12*		
	12*		
	VDI 30 / VDI 40* / BMT*		
Nm	12		
	Option		
	MK4		
mm	120		
mm	80		
kg	5 200 / 5 350*		
mm	3910 x 1700 x 1950		
	Fanuc 0 <i>i</i>		
	(Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)****		
	DIN8605-8607		



The super precision T350 and T400 RAIS CNC lathes are designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



STANDARD ACCESSORIES

- S-jaw through-hole power chuck
- Tailstock
- 12 station turret
- Schip conveyor and cart
- Coolant system
- Solution Working lamp
- Solution Automatic lubrication system for axis ways and ball screws
- Solution Foot switch for chuck operation



All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

High strength hardness guide and low resistance design provide prefer cutting surface.

The spindle is mounted with high precision class P4 NN type roller bearings and trust bearings, providing outstanding radial and trust loads.

Transmission with low thermal, preload ball screws, provided higher rigidity control.

Hydraulic tailstock. Programmable positioning is available.

OPTIONAL ACCESSORIES

- ✓ 12 station tools turret (VDI 40) with 12 rotating tools
- C-axis of the spindle
- Solution Non through-hole power chuck
- Part catcher
- Sar feeder 1.5 m
- Sar feeder interface
- Solution Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Solution Heat exchanger for electrical cabinet

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	TECHNICAL PARAMETERS	UNIT	
	CAPACITY		
	Max swing over bed	mm	
	Swing over carriage cover	mm	
	Max turning diameter	mm	
	X axis travel	mm	
	Z axis travel	mm	
	X / Z axis rapid traverse	m/min	
	Ball screw (X / Z): diameter x pitch	mm	
	Guideways		
	Carriage inclination	deg	
	SPINDLE		
	Spindle nose		
	Spindle bore	mm	
	Power chuck diameter	mm	
	Spindle motor 100% ED / 30 min.**	kW	
	Main motor torque 100% ED / 30 min.**	Nm	
	Max spindle speed	rpm	
	Bar capacity	mm	
	Power chucking system		
	TURRET		
	Number of tool posts		
	Number of rotating tools		
	Tool holder		
	Torque of rotating tools 100% / 40% / max.**	Nm	
	TAILSTOCK		
	Tailstock quill taper		
	Quill travel	mm	
	Quill diameter	mm	
	SIZE		
	Machine weight	kg	
	Machine dimensions (approx.): L x B x H	mm	
ĺ	CNC CONTROL		

CNC CONTROL

ACCURACY OF THE MACHINE

- (*) option (**) technical data for Fanuc equipment
- (***) on customer request



T350

T400

600	700
400	450
400	450
210 + 40	235 + 30
750	1 000 (1 200 / 1 600 / 2 150)*
20	20
32x10/40x10	40x10 / 50x10
Prismatic	Prismatic
45	45
A2-8	A2-11 / A2-8*
92	95
250 / 315*	380 / 315*
18.5 / 22	18.5 / 22
52.5 / 95.5	52.5 / 95.5
3 000	2500/3000*
76	76
Hydraulic	Hydraulic
12	12
12*	12*
VDI 40 / BMT*	VDI 40 / BMT*
12*	12*
MK5	MK5
100	100
80	80
5600	5800 (6 000 / 6 200 / 6 400)*
3200 x 2200 x 2000	3 200 (3 600 / 3 900 / 4 400)* x 2200 x 2000
	Fanuc 0 <i>i</i>
(Fanuc 321/ Sieme	ns 828D / Siemens 840D)***
DIN8605-8607	DIN8605-8607



A spindle seated in precise double-row roller bearings. Stable cutting operation even by large chip thicknesses.

Three-step spindle gear box. Smooth switching between gears with high torque. All gear wheels are made of alloy steel, hardened and precisely ground to size. Low noise and excellent smoothness of cut.

Precise ball-screws (class P5) with a double-tightened nut and minimum backlash. Impressive precision of part positioning.

Hardened and fine-ground longitudinal and transverse guides. Guaranteed stable cut under heavy-duty conditions. Super high grade fitted slides with "Turcite-B". Minimum friction when moving. High precision and smoothness of operation.

RAIS SYSTEM 000-----201 00 AND DESCRIPT. 10 BBBBBBBBB 1026 1000

These outstanding features

enable stable heavy duty in continuous operation for a highly productive serial details.





OPTIONAL ACCESSORIES

- S-jaw through-hole power chuck Ø315 mm
- Sollow and steady rest
- ✓ 12 station VDI turret with C-axes for rotating tools
- Solution Hydraulic clamped tail stock
- Solution Milling tool holder

TECHNICAL PARAMETERS	UNIT	T500	T600	T700
CAPACITY				
Max swing over bed	mm	610	710	760
Max swing over cross slide	mm	390	490	540
Max swing over gap	mm	790	890	940
X axis travel	mm	405	405	405
Distance between centers (DBC)	mm	930 / 1430 / 1930 / 2930	930 / 1430 / 1930 / 2930	930 / 1430 / 1930 / 2930 / 3930
Z axis travel (maximal turned length)	mm	970 / 1430 / 1970 / 2970	970 / 1470 / 1970 / 2970 / 3970	970 / 1470 / 1970 / 2970 / 3970
Width of bed	mm	450	450	450
Spindle center height (from the guides)	mm	305	355	380
X / Z axis rapid traverse	m/min	6 / 10	6 / 10	6 / 10
Ball screw (X / Z): diameter x pitch	mm	32x5 / 50x10	32x5 / 50x10	32x5 / 50x10
Guideways		Prismatic, HB>450	Prismatic, HB>450	Prismatic, HB>450
SPINDLE				
Spindle nose		D1-11/A2-11 (D1-15/A2-15)*	D1-11/A2-11 (D1-15/A2-15)*	D1-11/A2-11 (D1-15/A2-15)*
Spindle bore	mm	83 (105 / 155)*	83 (105 / 155)*	105 / 155*
Chuck: manual, 3-jaw	mm	315 / 400*	315 / 400*	315 / 400*
Max spindle speed	rpm	30 2200	20 1500	20 1500
Spindle motor	kW	7.5 / 15*	7.5 / 15*	7.5 / 15*
TURRET				
Туре		Vertical, 4 st. (8 / 12 VDI 3425/40)*	Vertical, 4 st. (8 / 12 VDI 3425/40)*	Vertical, 4 st. (8 / 12 VDI 3425/40)
Number of tool posts		4 (8 / 10 / 12)*	4 (8 / 12)*	4 (8 / 12)*
Turning tool shank dimensions	mm	25 x 25	25 x 25	25 x 25
Max boring bar diameter	mm	40	40	40
Tool travel behind center line	mm	20	20	30
TAILSTOCK				
Tailstock quill taper		MK5	MK5	MK5 / MK6*
Quill travel	mm	225	225	225
Quill diameter	mm	105	105	105
SIZE				
Machine weight	kg	4100 / 4300 / 4900 / 5700	4000 / 4400 / 5000 / 5800	4200 / 4400 / 5000 / 5800 / 600
Machine dimensions (approx.): L x B x H	mm	2700 / 3200 / 3700 / 4700 x 1750 x 1620	3000 / 3500 / 4000 / 5000 x 1750 x 1620	2700 / 3200 / 3700 / 4700 / 570 x 2415 x 1980
CNC CONTROL		(Fanu	Fanuc 0 <i>i</i> c 32 <i>i</i> / Siemens 828D / Siemens 8	40D***

(**) technical data for Fanuc equipment

(***) on customer request

BED LATHES PRISMATIC CNC





T202

The double spindle T202-2S RAIS CNC lathe is designed to perform a wide range of complex turning operations on medium-sized parts and components on a serial production basis.

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SPINDLE CNC SLANT BED LATH

DOUBLE



STANDARD ACCESSORIES

- ✓ 3-jaw through-hole power chucks
- 12 tools turret VDI 30
- Chip conveyor and cart
- 📀 Coolant system
- S Working lamp
- Automatic lubrication system for axis ways and ball screws
- Soot switches for chuck operation



Precise spindle assembly mounted in a temperaturestabilized and ribbed casing by means of class P4 spindle bearings featuring minimum radial runout and minimum axial clearance. Guaranteed high cutting speed with no vibration.

Precise ballscrews (class P3) with a pre-loaded double nut and minimum backlash. High precision of part positioning and long life.

Linear guideways along the two axes - zero clearance. Minimum friction when in motion. High precision and high speed with no need for adjustment during operational life. Minimized temperature and vibration deviations.

Fully enclosed protection of the operational area. Telescopic guards for the guides.



UNIT **TECHNICAL PARAMETERS** CAPACITY Max swing over bed Swing over carriage cover m Max turning diameter X axis travel Z axis travel (Z1 / Z2) X / Z axis rapid traverse m/ Ball screw (X / Z): diameter x pitch Guideways Carriage inclination Spindle center height (from floor) m SPINDLE Spindle nose Spindle bore Power chuck diameter Spindle motor 100% ED / 30 min.** Main motor torque Max spindle speed Bar capacity Power chucking system TURRET Number of tool posts Number of rotating tools Tool holder Tools torque Y axis on turret 1 SIZE Machine weight Machine dimensions (approx.): L x B x H m CNC CONTROL ACCURACY OF THE MACHINE (*) option (**) technical data for Fanuc equipment (***) on customer request



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T202-2S

nm		250		
nm		250		
nm		200		
nm	16	65 + 10		
nm	38	0/370		
/min	1	2/20		
nm	32x5	5 / 40x10		
	Integrated, s	size 30(X); 35(Z)		
leg		45		
nm		1020		
	MAIN SPINDLE	SUB SPINDLE		
	A2-6 / A2-5*	A2-4		
nm	62 / 52*	36		
nm	205 / 170*	135		
٢W	11 / 15	3.7 / 5.5		
١m	52.5 / 95	35.3 / 70		
pm	4 200 / 6 000*	4 500		
nm	51 / 41*	26		
	Hydraulic	Hydraulic		
		12		
		12*		
	VDI 3	30 / BMT*		
٧m		12*		
	C	Dption		
kg	;	3 750		
nm		1622 x 1911		
		anua ();		
	(Fanuc 32 <i>i</i> / Siemens	anuc 0 <i>i</i> 828D / Siemens 840D)***		
	2010	605-8607		
	DINO	000 0001		

OPTIONAL ACCESSORIES

- Y axis
- Part catcher
- Collet chuck
- Solution Heat exchanger for electrical cabinet



The double spindle T252-2S RAIS CNC lathe is designed to perform a wide range of complex turning operations with simultaneous operation of both spindles and two turrets into series production.





- S-jaw through-hole power chuck
- 12 station turrets
- Chip conveyor and cart
- Coolant system
- Solution Working lamp
- Automatic lubrication system for axis ways and ball screws
- Solution Foot switches for chuck operation



An exclusively stable and rigid construction for

maximum lathe productivity.

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

Linear guideways: precise SP / P-class along X / Z1, Z2 axes zero clearance.

Dynamically balanced spindles - cassette type. An exclusive resistance in radial and axial loads.

OPTIONAL ACCESSORIES

- ✓ 12 tools turret head (VDI 40)
- C-axis of the spindle
- Part catcher
- Sar feeder 1.5 m / 3.2 m
- Sar feeder interface
- Son through-hole power chuck
- Solution Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Solution Heat exchanger for electrical cabinet

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TECHNICAL PARAMETERS	UNIT	T252-2S		
CAPACITY				
Max swing over bed	mm	210		
Swing over carriage cover	mm	210		
Max turning diameter	mm	20	00	
X axis travel	mm	170	+ 15	
Z axis travel (Z1 / Z2)	mm	270 / 700		
Y axis travel	mm	±30		
X / Y / Z axis rapid traverse	m/min	12 / 2	0 / 10	
Ball screw (X / Z): diameter x pitch	mm	32x5/	40x10	
Guideways		Integrated, size 30 (X1); 30 (X2); 32 (Z1); 40 (Z2); box way (
Carriage inclination	deg	45		
Spindle center height (from floor)	mm	965		
SPINDLE		MAIN SPINDLE	SUB SPINDLE	
Spindle nose		A2-5 / A2-6*	A2-5 / A2-6*	
Spindle bore	mm	51 / 65*	51 / 65*	
Power chuck diameter	mm	170 / 210*	170 / 210*	
Spindle motor 100% ED / 30 min.**	kW	11 / 15	11 / 15	
Main motor torque	Nm	85.9 / 140	85.9 / 140	
Max spindle speed	rpm	6000 / 4500*	6000 / 4500*	
Bar capacity	mm	42 / 51*	42 / 51*	
Power chucking system		Hydraulic	Hydraulic	
TURRET		TURRET 1	TURRET 2	
Number of tool posts		12	12	
Number of rotating tools		12*	12*	
Tool holder		VDI 30 / BMT*	VDI 30 / BMT*	
Tools torque	Nm	11	11	
Y axis on turret 1		Option	-	
SIZE				
Machine weight	kg	5700		
Machine dimensions (approx.): L x B x H	mm	4230 x 1750 x 2050		
CNC CONTROL		Fanuc 0 <i>i</i> (Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)***		
ACCURACY OF THE MACHINE		DIN8605-8607		

ACCURACY OF THE MACHINE

(*) option
(**) technical data for Fanuc equipment
(***) on customer request

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The double spindle T250 MY2S RAIS CNC lathe is designed to perform a wide range of complex turning operations with simultaneous operation of both spindles and two turrets into series production.



STANDARD ACCESSORIES

- Y-axis
- S-jaw through-hole power chucks
- 12 station turret
- Chip conveyor and cart
- Coolant system
- Solution Working lamp
- Automatic lubrication system for axis ways nd ball screws
- Soot switches for operation with both chucks

An exclusively stable and rigid construction for maximum lathe productivity.

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

Dynamically balanced spindles - cassette type. An exclusive resistance in radial and axial loads.







TECHNICAL PARAMETERS	UNIT	T250	MY2S	
CAPACITY				
Max swing over bed	mm	53	35	
Swing over carriage cover	mm	330		
Max turning diameter	mm	230 (12 station VDI 30) / 200* (12 station BMT 45 / 55)*		
X axis travel	mm	170 + 15		
Z axis travel (Z1 / Z2)	mm	205 / 620		
Y axis travel	mm	±30		
X / Y / Z axis rapid traverse	m/min	12 / 20 / 20		
Ball screw (X / Z): diameter x pitch	mm	32x5/40x10		
Guideways		box way		
Carriage inclination	deg	45		
Spindle center height (from floor)	mm	96	65	
SPINDLE		MAIN SPINDLE	SUB SPINDLE	
Spindle nose		A2-6	A2-5	
Spindle bore	mm	65	51	
Power chuck diameter	mm	200	170	
Spindle motor 100% ED / 30 min.**	kW	15	11 / 15	
Main motor torque	Nm	140	85.9 / 140	
Max spindle speed	rpm	4 500	6 0 0 0	
Bar capacity	mm	52	42	
Power chucking system		Hydraulic	Hydraulic	
TURRET				
Number of tool posts		12		
Number of rotating tools		12*		
Tool holder		VDI 30 / BMT*		
Tools torque	Nm	11		
SIZE				
Machine weight	kg	5 350		
Machine dimensions (approx.): L x B x H	mm	3910 x 1950 x 1700		
CNC CONTROL		Fanuc 0 <i>i</i> (Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)***		
ACCURACY OF THE MACHINE		DIN860	5-8607	

 (*) option
(**) technical data for Fanuc equipment (***) on customer request

0	12 station tools turret (VDI 40) with 12 rotating tools	C
0	C-axis of the spindle	C
Ø	Non through-hole power chuck	C

OPTIONAL ACCESSORIES

- Service Part catcher
- Sar feeder 1.5 m / 3.2 m
- Sar feeder interface
- ✓ Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Solution Heat exchanger for electrical cabinet

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TECHNICAL PARAMETERS	UNIT	T25(0-2S	
CAPACITY				
Max swing over bed	mm	510		
Swing over carriage cover	mm	310		
Max turning diameter	mm	310 / 250***		
X axis travel	mm	155 + 30		
Z axis travel	mm	600		
X / Z axis rapid traverse	m/mm	12 / 20		
Ball screw (X / Z): diameter x pitch	mm	32x10	/ 40x10	
Guideways		Prisr	natic	
Carriage inclination	deg	4	5	
Spindle center height (from floor)	mm	11	20	
SPINDLE		MAIN SPINDLE	SUB SPINDLE	
Spindle nose		A2-6 / A2-8*	A2-5	
Spindle bore	mm	61 / 87*	52	
Power chuck diameter	mm	205 / 250*	169	
Spindle motor 100% ED / 30 min.**	kW	9 / 11	11 / 15	
Main motor torque 100% ED / 30 min.**	Nm	85.9 / 140	52.5 / 95	
Max spindle speed	rpm	4200 / 3500*	6000	
Bar capacity	mm	51 / 74*	41	
Power chucking system		Hydraulic	Hydraulic	
TURRET				
Number of tool posts		10 /	12*	
Number of rotating tools		12*		
Tool holder		VDI 40 / VDI 30* / BMT*		
Torque of rotating tools 100% / 40% / max.**	Nm	1	2	
Y axis on turret 1		Option		
TAILSTOCK				
Tailstock quill taper		MK4		
Quill travel	mm	120		
Quill diameter	mm	80		
SIZE				
Machine weight	kg	5200 / 5350*		
Machine dimensions (approx.): L x B x H	mm	3910 x 1700 x 1950		
CNC CONTROL		Fanuc 0 <i>i</i> (Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)****		
ACCURACY OF THE MACHINE		DIN860	· · ·	

TECHNICAL PARAMETERS	UNI
CAPACITY	
Max swing over bed	mm
Swing over carriage cover	mm
Max turning diameter	mm
X axis travel	mm
Z axis travel	mm
X / Z axis rapid traverse	m/mi
Ball screw (X / Z): diameter x pitch	mm
Guideways	
Carriage inclination	deg
SPINDLE	
Spindle nose	
Spindle bore	mm
Power chuck diameter	mm
Spindle motor 100% ED / 30 min.**	kW
Main motor torque 100% ED / 30 min.**	Nm
Max spindle speed	rpm
Bar capacity	mm
Power chucking system	
TURRET	
Number of tool posts	
Number of rotating tools	
Tool holder	
Torque of rotating tools 100% / 40% / max.**	Nm
TAILSTOCK	
Tailstock quill taper	
Quill travel	mm
Quill diameter	mm
SIZE	
Machine weight	kg
Machine dimensions (approx.): L x B x H	mm
CNC CONTROL	
ACCURACY OF THE MACHINE	
(*) option	
(**) technical data for Fanuc equipment	

(*) option (**) technical data for Fanuc equipment

(***) whith 12 station turret

(****) on customer request

OPTIONAL ACCESSORIES

✓ 12 tools turret head (VDI 40)

C-axis of the spindle

Seart catcher

- Sar feeder 1.5 / 3.2 m Sar feeder interface
- Auto tools presetter

Son through-hole power chuck

Sector Heat exchanger for electrical cabinet Coolant system (high pressure: 20 Bar)

12 station tools turret (VDI 40) v	vith 12 rotating tools
C-axis of the spindle	
Non through-hole power chuck	

rais system T350-25/T400-25

T350-2S

T400-2S

600		70	700		
400		45	450		
400		45	0		
210	+ 40	235 -	+ 30		
6	00	600 / 1	1200*		
2	20	20)		
32x10	/ 40x10	40x10/	40x10/50x10		
Prisi	matic	Prism	Prismatic		
4	15	45	5		
MAIN SPINDLE	SUB SPINDLE	MAIN SPINDLE	SUB SPINDLE		
A2-8	A2-5	A2-6 / A2-8*	A2-5		
92	52	61 / 87*	52		
250 / 315*	169	205 / 250*	169		
18.5 / 22	11 / 15	18.5 / 22	11 / 15		
52.5 / 95.5	52.5 / 95.5	85.9 / 140	52.5 / 95.5		
3000	6000	4 200 / 3 500*	6 000		
76	41	51 / 74*	41		
Hydraulic	Hydraulic	Hydraulic	Hydraulic		
1	2	12	2		
1.	2*	12	12*		
VDI 40 / BMT*		VDI 40 /	VDI 40 / BMT*		
12*		12	12*		
MK5		MK	MK5		
100		10	100		
80		80	80		
56	600	5800/6	5800/6200*		
4100 x 2200 x 2000		4400 x 220	4400 x 2200 x 2000		
Fanuc 0 <i>i</i>					
(Fanuc 32 <i>i</i> / Siemens 828D / Siemens 840D)***					
DIN8605-8607		DIN860	DIN8605-8607		

OPTIONAL ACCESSORIES

- Part catcher
- Sar feeder 1.5 m
- Sar feeder interface
- Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Sector Heat exchanger for electrical cabinet





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Manufacturer's specifications are accurate as of the date of publication and may be changed without prior notice to incorporate improvements resulting from ongoing research and development programs.