



RAIS

In Quality we trust

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.



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 Bazdighyan - CEO of RAIS Ltd.



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!

(* Based on one-shift operating schedule)

TECHNICAL SUPPORT

We are always there for you!



- LOCAL
- CENTRAL
- FACTORY SERVICE

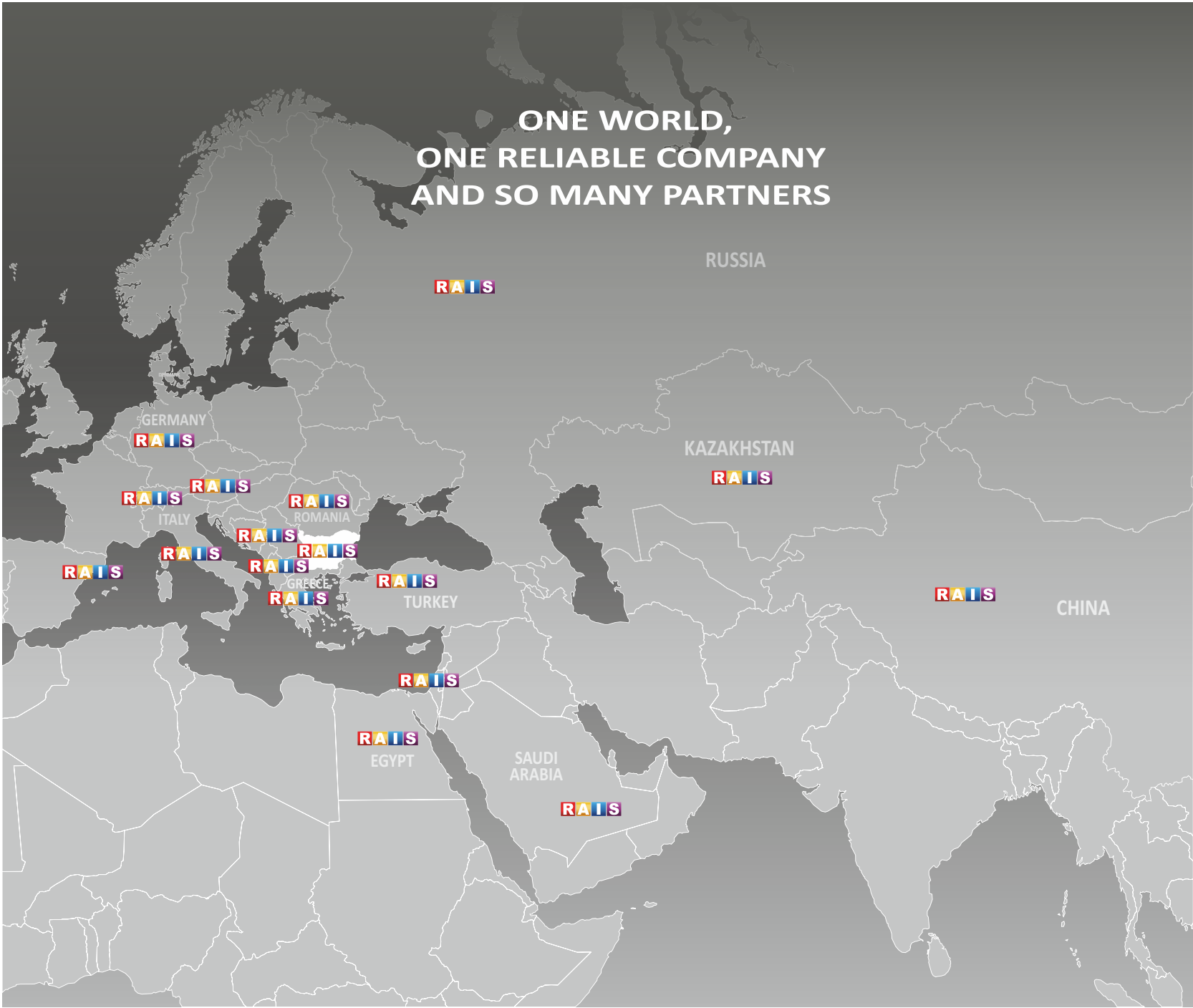
SPARE PARTS SUPPLY



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 available locally and centrally;
- Excellent for companies with multiple locations - for easy handling of sales and services.

ONE WORLD,
ONE RELIABLE COMPANY
AND SO MANY PARTNERS



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

- ✕ Hyundai Heavy Industries in the field of heavy engineering
 - ✕ OMCO Group in the glass industry and space industry
 - ✕ M+S Hydraulic in the field of hydraulics
 - ✕ Liebherr in the field of construction machinery and the production of white goods
 - ✕ 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)

CNC LATHES



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DOUBLE SPINDLE CNC LATHES



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..... T350-2S / T400-2S (Page 23)

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

SELECTABLE CNC CONTROL



TOOL SETTER



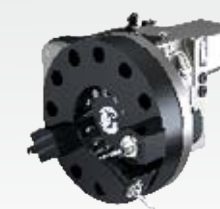
VDI SERVO TURRET WITH C + Y AXES



Turrets with vertical axis



Turrets with horizontal axis



Axial Driven Tool VDI tooling system



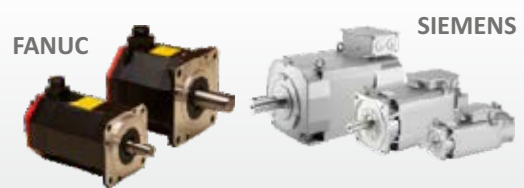
Radial Driven Tool BMT tooling system

BAR FEEDER



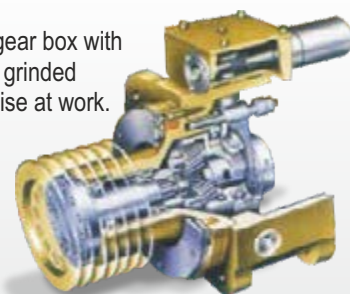
Automatic bar feeders 1.2 or 1.5 m for all type profiles of material.
Hydrodynamic 2.5, 3.2 and 3.7 m automatic bar feeders.

SPINDLE MOTORS



ZF GEAR BOX

Three-speed gear box with hardened and grinded gears. Low noise at work. High torque.



LOADING BY ROBOTS



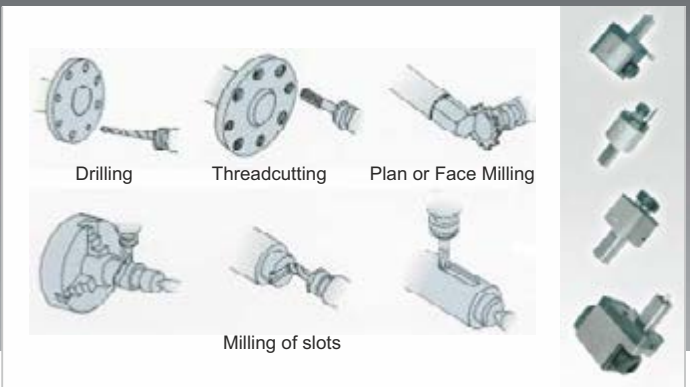
PART CATCHER



AUTOMATIC COLLET CHUCK



PROGRAMMABLE TAILSTOCK



RAIS SYSTEM
T200

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

- ✓ 3-jaw through-hole power chuck
- ✓ Tailstock
- ✓ 8 station turret VDI 30
- ✓ Chip conveyor and cart
- ✓ Coolant system
- ✓ Working lamp
- ✓ Automatic lubrication system for axis ways and ball screws
- ✓ 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 temperature-stabilized 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
- ✓ Bar feeder 1.2 m
- ✓ Bar feeder interface
- ✓ Non through-hole power chuck
- ✓ Auto tools presetter
- ✓ Collet chuck
- ✓ Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS	UNIT	T200
CAPACITY		
Max swing over bed	mm	420
Swing over carriage cover	mm	330
Max turning diameter	mm	200 / 250***
X axis travel	mm	165 + 10
Z axis travel	mm	460 / 370*
X / Z axis rapid traverse	m/min	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10
Guideways		Integrated, size 30(X); 35(Z)
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1020
SPINDLE		
Spindle nose		A2-5 / A2-6*
Spindle bore	mm	52 / 62*
Power chuck diameter	mm	170 / 205*
Spindle motor 100% ED / 30 min.**	kW	11 / 15
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95
Max spindle speed	rpm	6 000 / 4 200*
Bar capacity	mm	41 / 51*
Power chucking system		Hydraulic
TURRET		
Number of tool posts		8 / 12*
Number of rotating tools		12*
Tool holder		VDI 30 / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12*
Y axis on turret 1		Option
TAILSTOCK		
Tailstock quill taper		MK4
Quill travel	mm	90
Quill diameter	mm	50
SIZE		
Machine weight	kg	3 750
Machine dimensions (approx.): L x B x H	mm	3316 x 1622 x 1911
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)****
ACCURACY OF THE MACHINE		DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) with 12 station turret

(****) on customer request

RAIS SYSTEM
T250

The super precision T250 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

- ✓ 3-jaw through-hole power chuck
- ✓ Tailstock
- ✓ 10 station turret VDI 30
- ✓ Chip conveyor and cart
- ✓ Coolant system
- ✓ Working lamp
- ✓ Automatic lubrication system for axis ways and ball screws
- ✓ 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 tools turret (VDI 30) and C-axis of the spindle
- ✓ Part catcher
- ✓ Bar feeder 1.5 m
- ✓ Bar feeder interface
- ✓ Non through-hole power chuck
- ✓ Auto tools presetter
- ✓ Coolant system (high pressure: 20 Bar)
- ✓ Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS

UNIT

T250

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/min	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x10 / 40x10
Guideways		Prismatic
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1120

SPINDLE

Spindle nose		A2-6 / A2-8*
Spindle bore	mm	61 / 87*
Power chuck diameter	mm	205 / 250*
Spindle motor 100% ED / 30 min.**	kW	9 / 11
Main motor torque 100% ED / 30 min.**	Nm	85.9 / 140
Max spindle speed	rpm	4 200 / 3 500*
Bar capacity	mm	51 / 74*
Power chucking system		Hydraulic

TURRET

Number of tool posts		10 / 12*
Number of rotating tools		12*
Tool holder		VDI 30 / VDI 40* / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12
Y axis on turret 1		Option

TAILSTOCK

Tailstock quill taper		MK4
Quill travel	mm	120
Quill diameter	mm	80

SIZE

Machine weight	kg	5 200 / 5 350*
Machine dimensions (approx.): L x B x H	mm	3910 x 1700 x 1950

CNC CONTROL

Fanuc 0i
(Fanuc 32i / Siemens 828D / Siemens 840D)****

ACCURACY OF THE MACHINE

DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) with 12 station turret

(****) on customer request

RAIS SYSTEM
T350
T400

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

- ✓ 3-jaw through-hole power chuck
- ✓ Tailstock
- ✓ 12 station turret
- ✓ Chip conveyor and cart
- ✓ Coolant system
- ✓ Working lamp
- ✓ Automatic lubrication system for axis ways and ball screws
- ✓ 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
- ✓ Non through-hole power chuck
- ✓ Part catcher
- ✓ Bar feeder 1.5 m
- ✓ Bar feeder interface
- ✓ Auto tools presetter
- ✓ Coolant system (high pressure: 20 Bar)
- ✓ Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS	UNIT	T350	T400
CAPACITY			
Max swing over bed	mm	600	700
Swing over carriage cover	mm	400	450
Max turning diameter	mm	400	450
X axis travel	mm	210 + 40	235 + 30
Z axis travel	mm	750	1 000 (1 200 / 1 600 / 2 150)*
X / Z axis rapid traverse	m/min	20	20
Ball screw (X / Z): diameter x pitch	mm	32x10 / 40x10	40x10 / 50x10
Guideways		Prismatic	Prismatic
Carriage inclination	deg	45	45
SPINDLE			
Spindle nose		A2-8	A2-11 / A2-8*
Spindle bore	mm	92	95
Power chuck diameter	mm	250 / 315*	380 / 315*
Spindle motor 100% ED / 30 min.**	kW	18.5 / 22	18.5 / 22
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95.5	52.5 / 95.5
Max spindle speed	rpm	3 000	2 500 / 3 000*
Bar capacity	mm	76	76
Power chucking system		Hydraulic	Hydraulic
TURRET			
Number of tool posts		12	12
Number of rotating tools		12*	12*
Tool holder		VDI 40 / BMT*	VDI 40 / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12*	12*
TAILSTOCK			
Tailstock quill taper		MK5	MK5
Quill travel	mm	100	100
Quill diameter	mm	80	80
SIZE			
Machine weight	kg	5 600	5 800 (6 000 / 6 200 / 6 400)*
Machine dimensions (approx.): L x B x H	mm	3200 x 2200 x 2000	3 200 (3 600 / 3 900 / 4 400)* x 2200 x 2000
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***	
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) on customer request

RAIS SYSTEM
T500
T600



The T500, T600 and T700 RAIS CNC lathes are designed for the machining of large-size rotational component parts with high power of cutting and feeding. Optimum design; lack of vibration during operation; high and stable geometric precision.

Aspindle 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
T700



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



OPTIONAL ACCESSORIES

- ✓ 3-jaw through-hole power chuck Ø315 mm
- ✓ Follow and steady rest
- ✓ 12 station VDI turret with C-axes for rotating tools
- ✓ Hydraulic clamped tail stock
- ✓ 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

Type		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 / 6000
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 / 5700 x 2415 x 1980

CNC CONTROL

Fanuc Oi
(Fanuc 32i / Siemens 828D / Siemens 840D***)

ACCURACY OF THE MACHINE

DIN8605-8607 DIN8605-8607 DIN8605-8607

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

RAIS SYSTEM
T202-2S

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.



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

STANDARD ACCESSORIES

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



Precise spindle assembly mounted in a temperature-stabilized 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.



TECHNICAL PARAMETERS	UNIT	T202-2S
CAPACITY		
Max swing over bed	mm	250
Swing over carriage cover	mm	250
Max turning diameter	mm	200
X axis travel	mm	165 + 10
Z axis travel (Z1 / Z2)	mm	380 / 370
X / Z axis rapid traverse	m/min	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10
Guideways		Integrated, size 30(X); 35(Z)
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1020
SPINDLE		
		MAIN SPINDLE SUB SPINDLE
Spindle nose		A2-6 / A2-5* A2-4
Spindle bore	mm	62 / 52* 36
Power chuck diameter	mm	205 / 170* 135
Spindle motor 100% ED / 30 min.**	kW	11 / 15 3.7 / 5.5
Main motor torque	Nm	52.5 / 95 35.3 / 70
Max spindle speed	rpm	4 200 / 6 000* 4 500
Bar capacity	mm	51 / 41* 26
Power chucking system		Hydraulic Hydraulic
TURRET		
Number of tool posts		12
Number of rotating tools		12*
Tool holder		VDI 30 / BMT*
Tools torque	Nm	12*
Y axis on turret 1		Option
SIZE		
Machine weight	kg	3 750
Machine dimensions (approx.): L x B x H	mm	3316 x 1622 x 1911
CNC CONTROL		
		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***
ACCURACY OF THE MACHINE		DIN8605-8607

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

OPTIONAL ACCESSORIES

- ✓ 12 station BMT turret and C-axes of the spindles
- ✓ Auto tools presetter
- ✓ Bar feeder 1.2 / 3.2 m
- ✓ Bar feeder interface
- ✓ Y axis
- ✓ Part catcher
- ✓ Collet chuck
- ✓ Heat exchanger for electrical cabinet

RAIS SYSTEM
T252-2S

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.



An exclusively stable and rigid construction for maximum lathe productivity.

STANDARD ACCESSORIES

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

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
- ✓ Bar feeder 1.5 m / 3.2 m
- ✓ Bar feeder interface
- ✓ Non through-hole power chuck
- ✓ Auto tools presetter
- ✓ Coolant system (high pressure: 20 Bar)
- ✓ Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS	UNIT	T252-2S
CAPACITY		
Max swing over bed	mm	210
Swing over carriage cover	mm	210
Max turning diameter	mm	200
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 / 20 / 10
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10
Guideways	Integrated, size 30 (X1); 30 (X2); 32 (Z1); 40 (Z2); box way (Y)	
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 6 000 / 4 500*	6 000 / 4 500*
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 5 700	
Machine dimensions (approx.): L x B x H	mm 4230 x 1750 x 2050	
CNC CONTROL		
	Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***	
ACCURACY OF THE MACHINE		DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) on customer request

RAIS SYSTEM
T250 MY2S

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

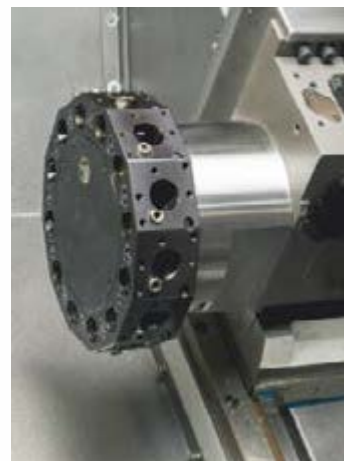
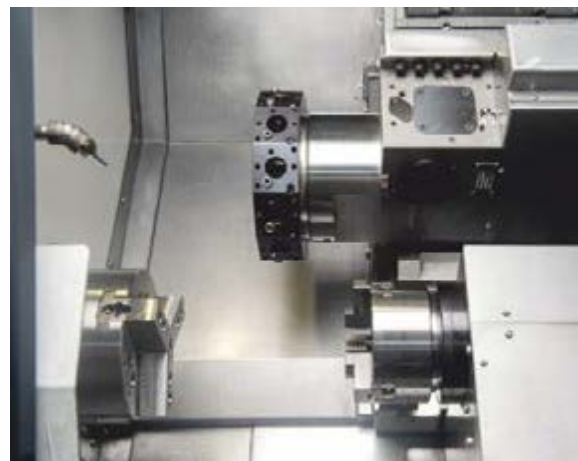
- ✓ Y-axis
- ✓ 3-jaw through-hole power chucks
- ✓ 12 station turret
- ✓ Chip conveyor and cart
- ✓ Coolant system
- ✓ Working lamp
- ✓ Automatic lubrication system for axis ways and ball screws
- ✓ Foot switches for operation with both chucks

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	535
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	965
SPINDLE		
		MAIN SPINDLE
		SUB SPINDLE
Spindle nose		A2-6
Spindle bore	mm	65
Power chuck diameter	mm	200
Spindle motor 100% ED / 30 min.**	kW	15
Main motor torque	Nm	140
Max spindle speed	rpm	4500
Bar capacity	mm	52
Power chucking system		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	5350
Machine dimensions (approx.): L x B x H	mm	3910 x 1950 x 1700
CNC CONTROL		
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***		
ACCURACY OF THE MACHINE		
DIN8605-8607		

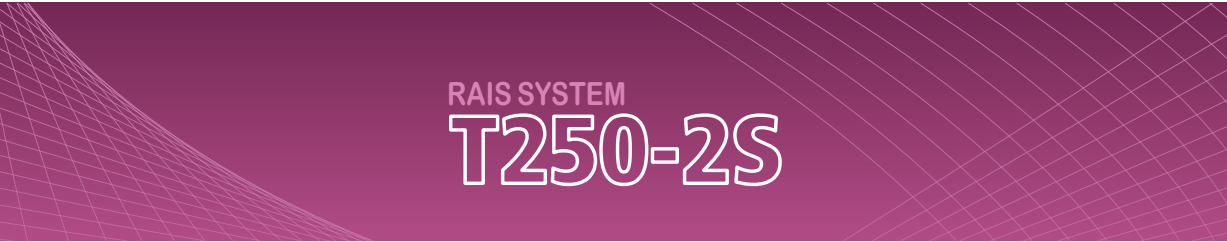
(*) option

(**) technical data for Fanuc equipment

(***) on customer request

OPTIONAL ACCESSORIES

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



TECHNICAL PARAMETERS		UNIT	T250-2S
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		Prismatic	
Carriage inclination	deg	45	
Spindle center height (from floor)	mm	1120	
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	4 200 / 3 500*	6 000
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	12	
Y axis on turret 1		Option	
TAILSTOCK			
Tailstock quill taper		MK4	
Quill travel	mm	120	
Quill diameter	mm	80	
SIZE			
Machine weight	kg	5 200 / 5 350*	
Machine dimensions (approx.): L x B x H	mm	3910 x 1700 x 1950	
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)****	

ACCURACY OF THE MACHINE

DIN8605-8607

(*) 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

✔ Part catcher
- ✔ Bar feeder 1.5 / 3.2 m

✔ Bar feeder interface

✔ Heat exchanger for electrical cabinet
- ✔ Non through-hole power chuck

✔ Auto tools presetter

✔ Coolant system (high pressure: 20 Bar)



TECHNICAL PARAMETERS	UNIT	T350-2S		T400-2S	
CAPACITY					
Max swing over bed	mm	600		700	
Swing over carriage cover	mm	400		450	
Max turning diameter	mm	400		450	
X axis travel	mm	210 + 40		235 + 30	
Z axis travel	mm	600		600 / 1200*	
X / Z axis rapid traverse	m/min	20		20	
Ball screw (X / Z): diameter x pitch	mm	32x10 / 40x10		40x10 / 50x10	
Guideways		Prismatic		Prismatic	
Carriage inclination	deg	45		45	
SPINDLE					
		MAIN SPINDLE	SUB SPINDLE	MAIN SPINDLE	SUB SPINDLE
Spindle nose		A2-8	A2-5	A2-6 / A2-8*	A2-5
Spindle bore	mm	92	52	61 / 87*	52
Power chuck diameter	mm	250 / 315*	169	205 / 250*	169
Spindle motor 100% ED / 30 min.**	kW	18.5 / 22	11 / 15	18.5 / 22	11 / 15
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95.5	52.5 / 95.5	85.9 / 140	52.5 / 95.5
Max spindle speed	rpm	3000	6000	4200 / 3500*	6000
Bar capacity	mm	76	41	51 / 74*	41
Power chucking system		Hydraulic	Hydraulic	Hydraulic	Hydraulic
TURRET					
Number of tool posts		12		12	
Number of rotating tools		12*		12*	
Tool holder		VDI 40 / BMT*		VDI 40 / BMT*	
Torque of rotating tools 100% / 40% / max.**	Nm	12*		12*	
TAILSTOCK					
Tailstock quill taper		MK5		MK5	
Quill travel	mm	100		100	
Quill diameter	mm	80		80	
SIZE					
Machine weight	kg	5600		5800 / 6200*	
Machine dimensions (approx.): L x B x H	mm	4100 x 2200 x 2000		4400 x 2200 x 2000	
CNC CONTROL					
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***					
ACCURACY OF THE MACHINE		DIN8605-8607		DIN8605-8607	

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

OPTIONAL ACCESSORIES

- ✔ 12 station tools turret (VDI 40) with 12 rotating tools

✔ C-axis of the spindle

✔ Non through-hole power chuck
- ✔ Part catcher

✔ Bar feeder 1.5 m

✔ Bar feeder interface
- ✔ Auto tools presetter

✔ Coolant system (high pressure: 20 Bar)

✔ Heat exchanger for electrical cabinet

RAIS ^{cnc} machine tools

**VERTICAL
MILLING
MACHINES**

**5-AXIS
MACHINING
CENTERS**

**CNC
LATHES**

**DOUBLE
SPINDLE
CNC LATHES**



ISO 9001 ISO 18001 



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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.