PRODUCT OVERVIEW

CNC automatic lathes

2026

Star Micronics

OVERVIEW OF MACHINES

AXES		7 AXES	8 AXES
DIAMETER	∅ 10 mm	SR-10J type C	SL-10
	∅ 12 mm	SB-12R type G	
	∅ 16 mm	SB-16 III	
	∅ 20 mm (23 mm)	SB-20RII SR-20J II type A	SR-20J II type B
	∅ 23 mm (26 mm)	SP-23	
	∅ 26 mm		
	∅ 32 mm (36 mm)	SP-32	SR-32J III type B
	∅ 38 mm (42 mm)		

CNC AUTOMATIC LATHES
FROM THE SPECIALISTS

The economic and reliable production of high precision parts requires a trained and motivated workforce in combination with a well-equipped and efficient array of machines. Our innovative force and technological leadership is there to enable you to successfully react to changing market conditions.

For over 40 years thousands of customers have trusted in the reliability, technical expertise and experience of STAR. We are the market leader with more than 7000 star* machines delivered to customers in Germany. In addition to innovative CNC automatic lathes for diameters in the range of 1 to 42 mm, we also offer a range of innovative services.

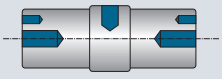
	9 AXES	10 AXES	11 AXES	12 AXES
		SW-12R II		
	SR-20R IV type B/E		SW-20	SV-20R ST-20
	SD-26 type E/G	SD-26 type S		
		SR-38 type B		SX-38 type A ST-38

SR

10J

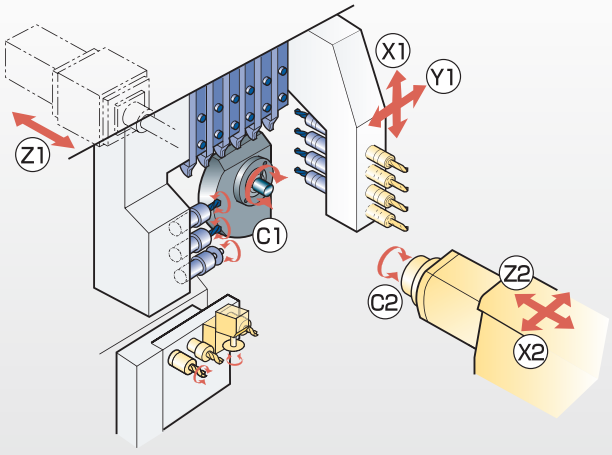
type C

SPECIFICATIONS

Diameter	∅	**10 mm / 12 mm (option)**
Headstock stroke	↔	**105 mm**
Machining possibilities		

ADVANTAGES

- FANUC 32i-B control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Low space requirement
- Ideal replacement for cam-controlled lathes



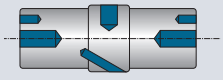
KINEMATICS & TOOLS

- 6 turning tools
- Each with 4 drilling tools (front and rear side)
- 3 power-driven tools on the tool post
- 4 + α power-driven tools including sleeves for backworking on 2 stations
- 7 axes

SL

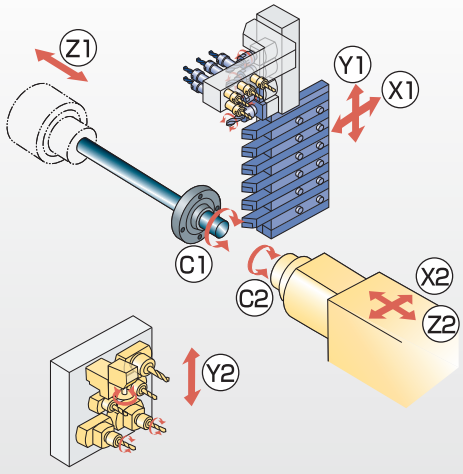
10

SPECIFICATIONS

Diameter	∅	**10 mm / 12 mm (option)**
Headstock stroke	↔	**105 mm**
Machining possibilities		

ADVANTAGES

- FANUC 32i-B Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Low space requirement
- Ideal replacement for cam-controlled lathes



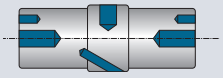
KINEMATICS & TOOLS

- 6 turning tools
- Each with 4 drilling tools (front and rear side)
- 4 (5) + α power-driven tools on the tool post
- 6 + α backworking tools, power-driven on 4 stations
- 8 axes

SB 12R

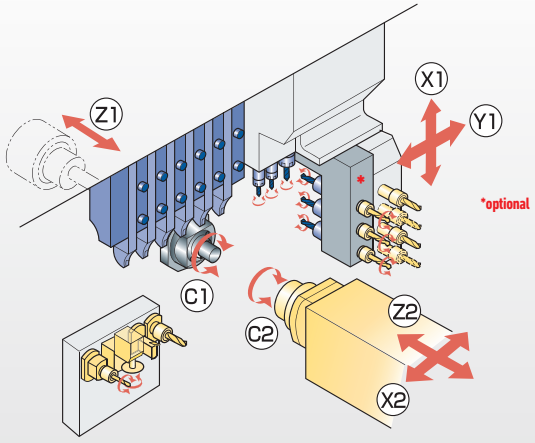
type G

SPECIFICATIONS

Diameter	∅	12 mm / 13 mm (option)
Headstock stroke	↔	205 mm / 30 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 0i-TF Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Low space requirement
- Ideal replacement for cam-controlled lathes

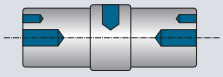


KINEMATICS & TOOLS

- 7 turning tools
- Each with 4 drilling tools (front and rear side)
- 4 (5) + α power-driven tools on the tool post
- 4 + α power-driven tools for backworking
- 7 axes

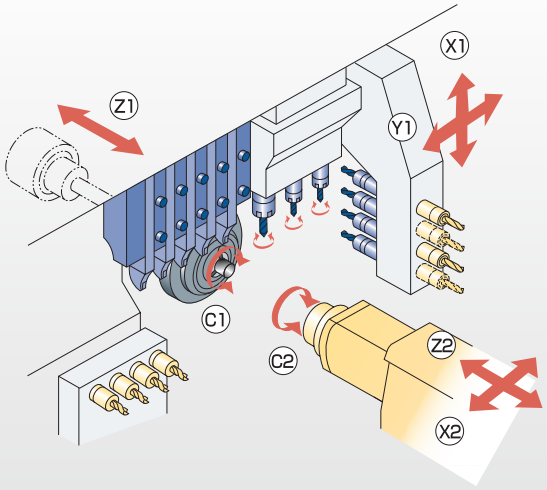
SB 16 III

SPECIFICATIONS

Diameter	∅	16 mm
Headstock stroke	↔	155 mm
Machining possibilities		

ADVANTAGES

- FANUC 0i-TF Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Low space requirement
- Ideal replacement for cam-controlled lathes



KINEMATICS & TOOLS

- 5 turning tools
- Each with 4 drilling tools (front and rear side)
- 3 power-driven tools on the tool post
- 4 backworking tools
- 7 axes

SB 20R II

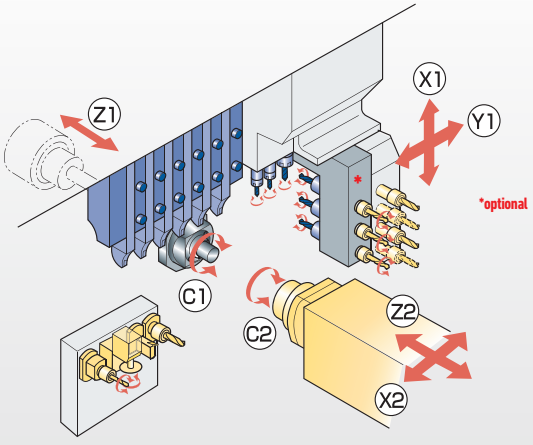
NEW

SPECIFICATIONS

Diameter	∅	20 mm / 26 mm (option)
Headstock stroke	⟷	205 mm / 50 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 0i-TF Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Low space requirement
- Ideal replacement for cam-controlled lathes

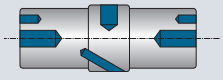


KINEMATICS & TOOLS

- 6 turning tools
- Each with 5 drilling tools (front and rear side)
- 4 (5) + α power-driven tools on the tool post
- 4 + α power-driven tools for backworking
- 7 axes

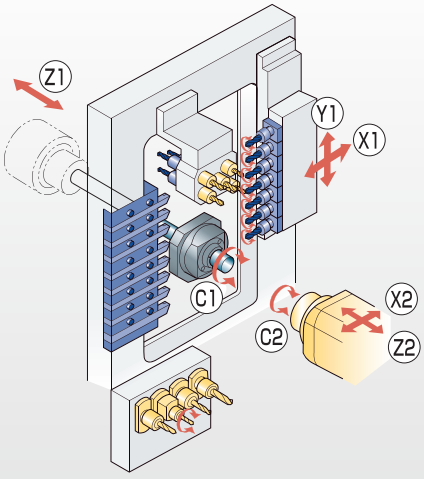
SP 23

SPECIFICATIONS

Diameter	∅	23 mm / 26 mm (option)
Headstock stroke	⟷	196 mm / 50 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 0i-TF Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel



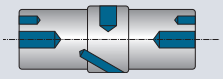
KINEMATICS & TOOLS

- 8 turning tools
- Each with 5 drilling tools (front and rear side)
- 7 + α power-driven tools on the tool post
- 4 + α power-driven tools for backworking
- 7 axes

SP 32

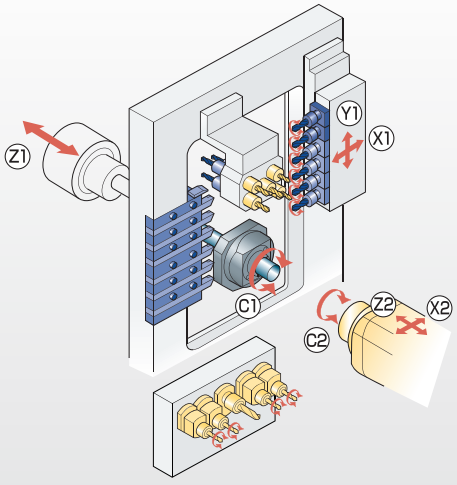
NEW

SPECIFICATIONS

Diameter	∅	32 mm
Headstock stroke	⟷	310 mm / 80 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 0i-TF Plus control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel



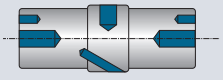
KINEMATICS & TOOLS

- 6 turning tools
- Each with 5 drilling tools (front and rear side)
- 6 + α power-driven tools on the tool post
- 5 + α power-driven tools for backworking
- 7 axes

SR 20J II

type A/B

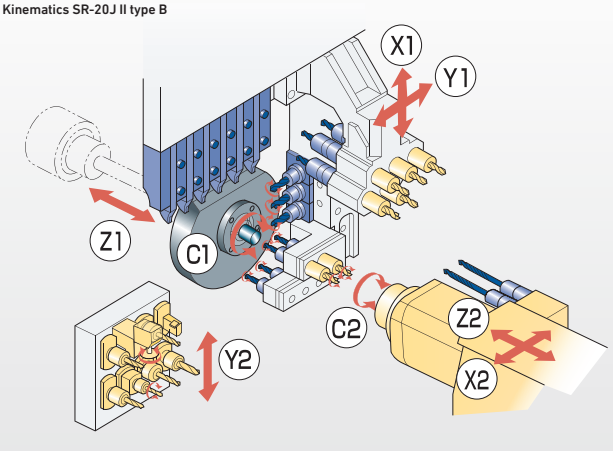
SPECIFICATIONS

Diameter	∅	20 mm / 23 mm (option)
Headstock stroke	⟷	205 mm / 50 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 32i-B control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- 2 additional deep hole drilling stations

Kinematics SR-20J II type B



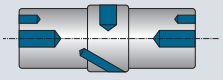
KINEMATICS & TOOLS

- 6 turning tools
- Each with 5 drilling tools (front and rear side)
- 5 + α power-driven tools on the tool post
- 2 deep hole drilling stations
- 4 (type A) / 8 (type B) + α power-driven tools for backworking
- 7 axes (type A) / 8 axes (type B)

SR 20RIV

type E

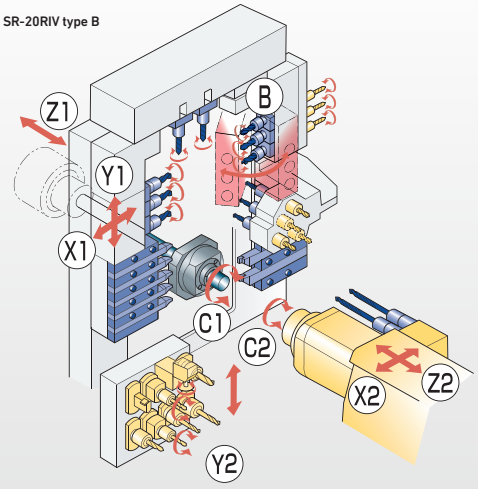
SPECIFICATIONS

Diameter	∅	**20 mm / 23 mm (option)**
Headstock stroke	⟷	**205 mm / 50 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- 2 additional deep hole drilling stations
- B-axis for main and sub spindle on the tool post

Kinematics SR-20RIV type B



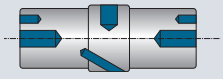
KINEMATICS & TOOLS

- 7 turning tools
- Each with 4 drilling tools (front and rear side)
- 5 + α power-driven tools on the tool post
- B-axis on the tool post with 3 power-driven tools
- 2 deep hole drilling stations
- 11 + α power-driven tools for backworking
- 9 axes

SR 32JIII

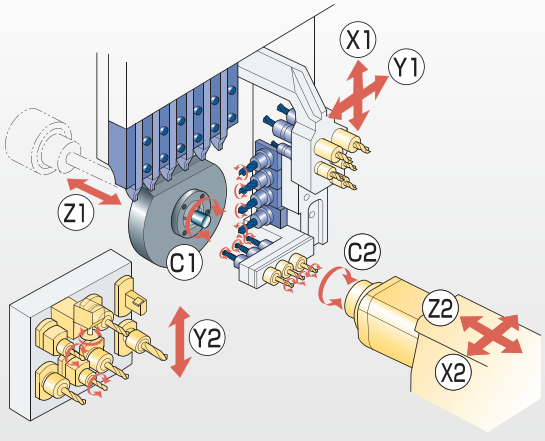
type B

SPECIFICATIONS

Diameter	∅	**32 mm / 36 mm (option)**
Headstock stroke	⟷	**320 mm / 80 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 32i-B control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel



KINEMATICS & TOOLS

- 6 turning tools
- Each with 5 drilling tools (front and rear side)
- 5 + α power-driven tools on the tool post
- 8 + α power-driven tools for backworking
- 8 axes

SR

38

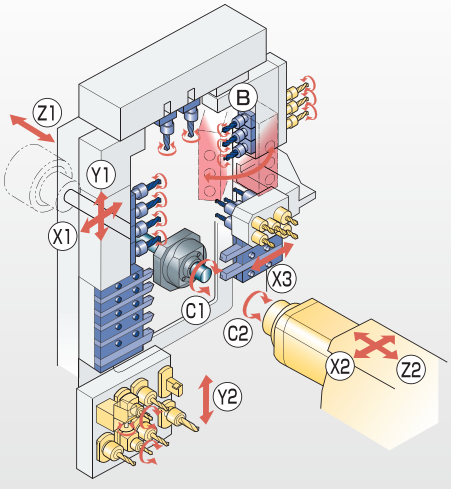
type B

SPECIFICATIONS

Diameter	∅	38 mm / 42 mm (option)
Headstock stroke	⟷	320 mm / 95 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Additional X3-axis for simultaneous turning on the front side
- B-axis programmable for main and sub spindle on the tool post



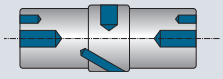
KINEMATICS & TOOLS

- 7 turning tools
- Each with 5 drilling tools (front and rear side)
- 6 + α power-driven tools on the tool post
- B-axis on the tool post with 3 power-driven tools
- 11 + α power-driven tools for backworking
- 10 axes

SW

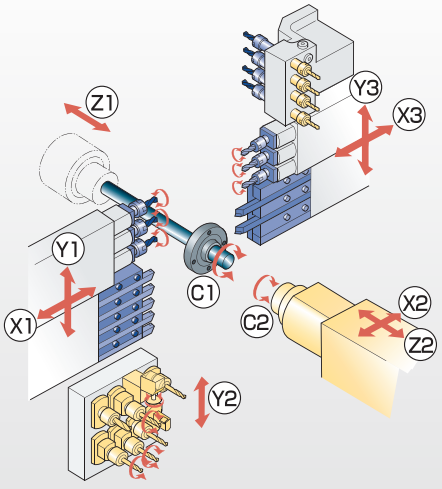
12RII

SPECIFICATIONS

Diameter	∅	12 mm / 13 mm (option)
Headstock stroke	⟷	135 mm / 30 mm (fixed headstock lathe)
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- 2 tool posts for simultaneous machining on the front side
- Three fully independent tool systems
- Low space requirement



KINEMATICS & TOOLS

- 7 turning tools
- Each with 4 drilling tools (front and rear side)
- 6 + α power-driven tools on the tool post
- 8 + α power-driven tools for backworking
- 10 axes

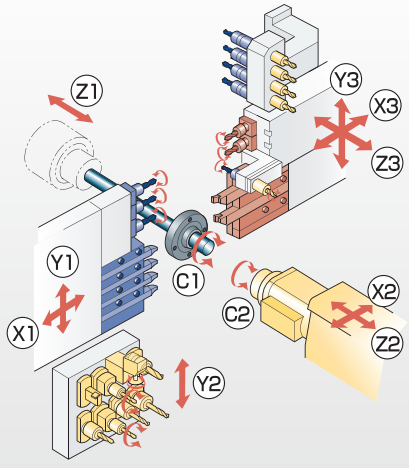
SW 20

SPECIFICATIONS

Diameter	∅	**20 mm / 23 mm (option)**
Headstock stroke	↔	**205 mm**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Movable control panel
- 2 tool posts for simultaneous machining on the front side
- Additional longitudinal axis on the tool post 3
- Three fully independent tool systems



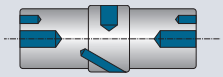
KINEMATICS & TOOLS

- 6 turning tools
- Each with 4 drilling tools (front and rear side)
- 6 + α power-driven tools on the tool post
- 8 + α backworking tools, power-driven on 6 stations
- 11 axes

SD 26

type E/G/S

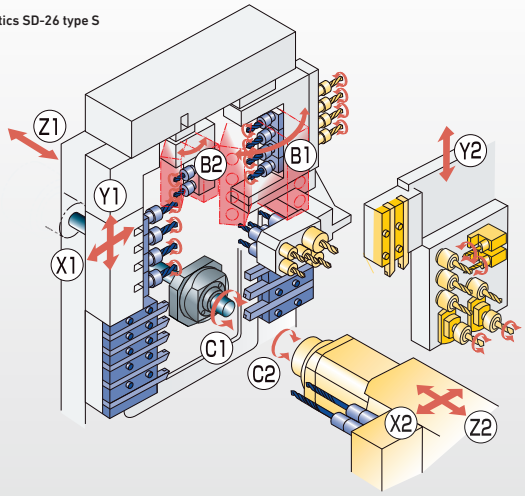
SPECIFICATIONS

Diameter	∅	**26 mm**
Headstock stroke	↔	**260 mm / 65 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 Plus control (type S/G)
  FANUC 32i-B Plus control (type E)
- C-axis control as standard on main and sub spindle
- Backworking: 8 stations and 2 turning tools
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- 2 additional deep hole drilling stations
- B-axis for main and sub spindle on the tool post (type S: additional second B-axis)

Kinematics SD-26 type S



KINEMATICS & TOOLS

- 7 turning tools
- Each with 5 drilling tools (front and rear side)
- 10 + α power-driven tools on the tool post (type E/G)
- 9 + α power-driven tools on the tool post (type S)
- 2 deep hole drilling stations
- 8 + α power-driven tools for backworking and 2 additional turning tools
- 9/10 axes (type E+G / type S)

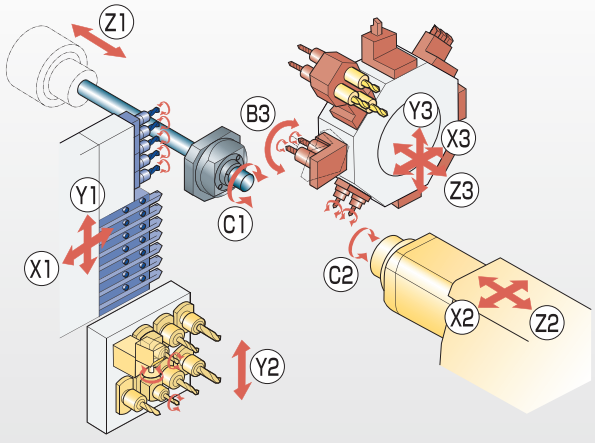
SV 20R

SPECIFICATIONS

Diameter	∅	**20 mm / 23 mm (option)**
Headstock stroke	⟷	**205 mm / 50 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Tool post and turret for simultaneous machining on the front side
- Additional longitudinal axis on the turret
- Three fully independent tool systems
- Turret drive power 4 kW



KINEMATICS & TOOLS

- 7 turning tools
- 5 power-driven tools on the tool post
- 8 + α tools for turning, drilling and cross-machining on the turret
- 4 turret stations (programmable) for B-axis machining
- 8 + α power-driven tools for backworking
- 12 axes

SX 38

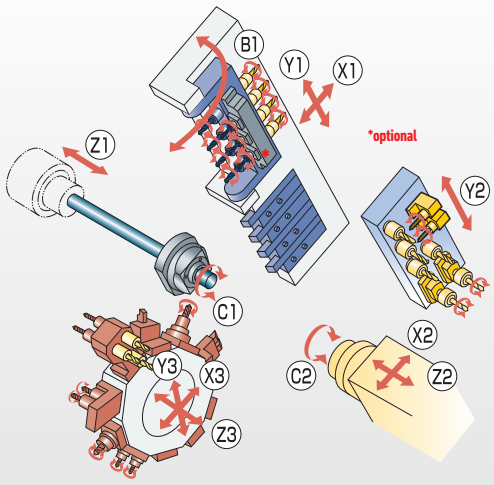
type A

SPECIFICATIONS

Diameter	∅	**38 mm / 42 mm (option)**
Headstock stroke	⟷	**320 mm / 95 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Tool post and turret for simultaneous machining on the front side
- Additional longitudinal axis on the turret
- B-axis programmable for main and sub spindle on the tool post
- Three fully independent tool systems
- Turret drive power 4 kW



KINEMATICS & TOOLS

- 4 turning tools
- B-axis programmable on the tool post with 4 power-driven tools (front and rear side)
- 3-station sleeve holder for high speed spindles on the B-axis
- 10 + α tools for turning, drilling and cross-machining on the turret
- 8 + α power-driven tools for backworking
- 12 axes

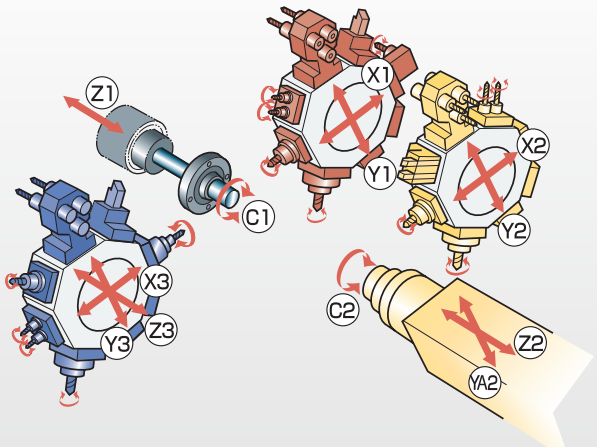
ST 20

SPECIFICATIONS

Diameter	∅	**20 mm / 23 mm (option)**
Headstock stroke	↔	**350 mm**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Movable control panel
- 2 turrets for simultaneous machining on the front side
- Additional longitudinal axis on the tool post 3
- Three fully independent tool systems
- Turret drive power 2,5 kW



KINEMATICS & TOOLS

- 24 + α tools for turning, drilling and cross-machining on 3 turrets
- 8 power-driven tool stations per turret
- 12 axes

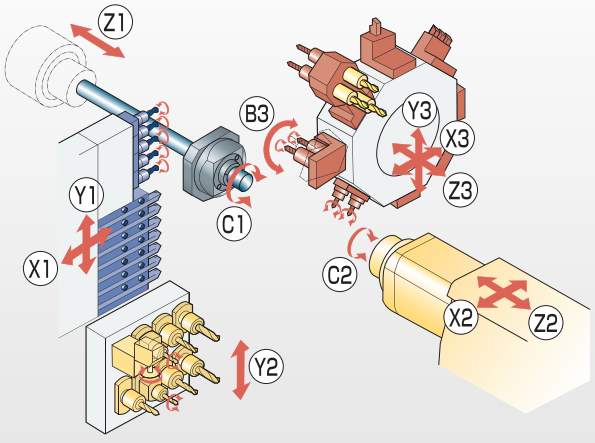
ST 38

SPECIFICATIONS

Diameter	∅	**20 mm / 23 mm (option)**
Headstock stroke	↔	**205 mm / 50 mm (fixed headstock lathe)**
Machining possibilities		

ADVANTAGES

- FANUC 31i-B5 control with electronic handwheel
- C-axis control as standard on main and sub spindle
- Fully independent backworking
- Changeable from sliding head to fixed headstock lathe
- Movable control panel
- Tool post and turret for simultaneous machining on the front side
- Additional longitudinal axis on the turret
- Three fully independent tool systems
- Turret drive power 4 kW



KINEMATICS & TOOLS

- 7 turning tools
- 5 power-driven tools on the tool post
- 8 + α tools for turning, drilling and cross-machining on the turret
- 4 turret stations (programmable) for B-axis machining
- 8 + α power-driven tools for backworking
- 12 axes

TPM

Tool Process Monitoring

Reproducible process and tool monitoring has long since been essential for companies looking to ensure their long-term productivity and quality. With its Tool Process Monitoring (TPM), STAR has developed a retrofit solution for process monitoring. The system permits the simultaneous monitoring of more than 50 tools. TPM has now been successfully deployed at more than 20 customers. This close collaboration with our customers has been a crucial factor in the constant improvement and lasting success of our TPM solution.

ADVANTAGES

- Monitoring of D=2 mm drilling tool (process-dependent)
- No need to stop during the measurement cycle
- Integrated tool and program management
- Freely selectable number of teach cycles
- Automatic saving of measurement data for tool optimisation and error analysis
- Simultaneously multi-monitoring of up to 12 tools / axes
- Display of history data to improve process
- User interface intuitive and easy to use
- Retrofit possible from FANUC 30i (all types from approx. 2008)
- Option: network connection to display process data in office

HFT UND SCP

High Frequency Turning and Step-Cycle-Pro – Our metal cutting innovations

CHIP PROBLEMS? WITH **HFT** FROM STAR THESE PROBLEMS ARE A THING OF THE PAST.

ADVANTAGES

- Controlled chips
- Higher machine availability
- Less action required by operating personnel
- More stable process reliability
- Less heat development

Suitable for all types of machining and materials (internal and external machining)

before
Chip generation
with conventional machining

afterwards
Chip generation
with high frequency turning

SCP STEP-CYCLE-PRO – A PIONEERING DEVELOPMENT FOR THE MANAGEMENT OF CHIPS

ADVANTAGES

- Prevents chip problems and considerably reduces scrap
- Even surface finish
- Cycle time easy to control
- Reduces machine downtimes
- Shortens setup times
- Easy to retrofit for a reasonable price
- Easy to handle using the G codes

SCP (Step-Cycle-Pro) is the latest breakthrough in the fight to deal with the challenges of awkwardly long cutting chips found with the machining of difficult materials such as aluminium, stainless steel, copper and plastics.

NC-FOX

Programming software for star* CNC automatic lathes

NC-FOX from STAR

The software used to program CNC machines needs to be straightforward and intuitive to use. For over 20 years, NC-FOX has been the software of choice when it comes to the rapid and efficient programming of star* CNC automatic lathes. Featuring a modular design, this programming system consists of six modules. In addition, it can be used together with the NC editor (FOX Edit) and the respective applications for the management of NC programs, for data transfer (PC to machine and vice versa), and as a tool database.

When used together with an optionally available CAD system, even complex contours can be programmed quickly and easily. Sales and service for NC-FOX – only for companies based in the Federal Republic of Germany.

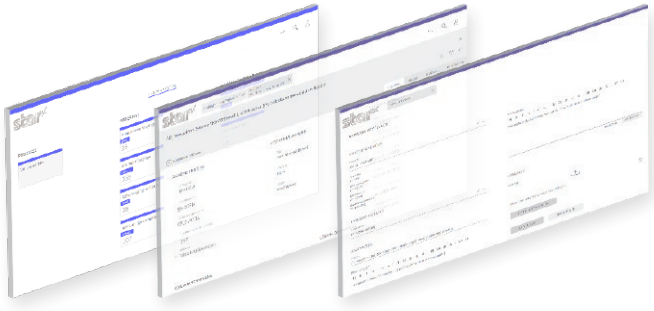
Focused on practice

The overall package is rounded off by professional advice and application-based training from STAR.

SSC

star* Service Connect – Quickest Service 24/7

Fast internet and high-performance data servers let us access any information needed in a matter of seconds – which is ideal for you, the customer, when you need reliable support to help you work with your star* machines. This has led us to launch our new STAR Customer Portal for you: SSC star* Service Connect.



ADVANTAGES

- Always available – 24 hours a day, 7 days a week
- Personal login area in the Customer Portal, for viewing and managing your data and your star* machines
- Create and view the current status of service tickets on any topic – from maintenance to machine faults
- Save typing with clicks: wide range of smart selections available for machine data and descriptions of potential faults – plus the option of uploading photos, videos or analysis reports
- Know-how from a single source: thanks to our comprehensive, searchable knowledge base, you can find all of the information you need about servicing and repair work that you can carry out yourself
- Individual configuration of your Info Cockpit to suit company-internal requirements
- Special area for supervisors: direct, at-a-glance access to key data on servicing, shutdowns and costs

YOUR CONTACTS

Sales at STAR

SALES MANAGER NORTH, BENELUX (OUDE REIMER BV)

Herbert Kohlenbeck

Tel. +49 (203) 7297076
Mobile +49 (151) 4021 9062
herbert.kohlenbeck@starmicronics.de

SALES REPRESENTATIVE BAVARIA

Denis Knapp

Tel. +49 (7082) 7920-28
Mobile +49 (151) 4021 9028
denis.knapp@starmicronics.de

SALES REPRESENTATIVE BW SOUTH-WEST, DENMARK (FLEXTEK A/S), **FINLAND, NORWAY, ESTONIA, LATVIA, LITHUANIA**

Dennis Reiser

Tel. +49 (7082) 7920-32
Mobile +49 (151) 4021 9032
dennis.reiser@starmicronics.de

SALES REPRESENTATIVE BW SOUTH-EAST

Witali Friedrich

Tel. +49 (7082) 7920-46
Mobile +49 (151) 4021 9046
witali.friedrich@starmicronics.de

Star Micronics GmbH
Robert-Grob-Straße 1 · 75305 Neuenbürg
Tel. +49 (7082) 7920-0 · Fax +49 (7082) 7920-20
info@starmicronics.de **www.starmicronics.de**

Service-Hotline:
Tel. +49 (7082) 7920-30
Mon. to Thur. 8 am to 4 pm
Frid. 8 am to 1:30 pm

Spare parts:
Tel. +49 (7082) 7920-17
Mon. to Thur. 8 am to 4 pm
Frid. 8 am to 1:30 pm

Visit us at:

TechniShow
by fpt vimag
10. – 13. March 2026 · Utrecht, Netherlands

ELMIA
MACHINE TOOLS
MACHINE TOOLS, TOOLS & MEASURMENT TECHNOLOGY
19. – 22. May 2026 · Jönköping, Sweden

AMB
15. – 19. September 2026 · Stuttgart

star

Star Micronics GmbH
Robert-Grob-Straße 1
75305 Neuenbürg
Tel. +49 (7082) 7920-0
Fax +49 (7082) 7920-20
info@starmicronics.de
www.starmicronics.de