

Product overview – Cincom and Miyano

Citizen Machinery Europe – Global Innovation Power for Local Markets

Citizen Machinery Europe stands for innovation on the highest international level, hand in hand with traditional German engineering. Customers profit from the strength of an international large-scale enterprise. At the same time, they may fall back on the more than 100-year old history in our local markets.

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Machine Portfolio

Cincom

CNC sliding headstock lathes

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Miyano

CNC high-precision lathes

<div>B12/16E</div> <div>VI</div> <div></div> <div>VI : 4 axis</div> <div>Page 14</div>	<div>R04</div> <div>VI</div> <div></div> <div>VI : 6 axis</div> <div>Page 15</div>	<div>GN 4200</div> <div></div> <div>2 axis</div> <div>Page 28</div>	<div>GN 3200W</div> <div></div> <div>4 axis</div> <div>Page 29</div>	<div>GN 3200</div> <div></div> <div>2 axis</div> <div>Page 29</div>
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CNC fixed headstock lathes

<div>ABX</div> <div>51THY 64THY</div> <div></div> <div>10 axis</div> <div>Page 17</div>	<div>ABX</div> <div>51SY 64SY</div> <div></div> <div>7 axis</div> <div>Page 18</div>	<div>BNE</div> <div>51MSY</div> <div></div> <div>MSY : 7 axis</div> <div>Page 19</div>	<div>BNE</div> <div>51S 51SY</div> <div></div> <div>S : 5 axis SY : 6 axis</div> <div>Page 20</div>	<div>BND</div> <div>51SY</div> <div></div> <div>4 axis</div> <div>Page 21</div>	<div>BNJ</div> <div>42SY 51SY</div> <div></div> <div>SY : 5 axis</div> <div>Page 22</div>	<div>BNA</div> <div>42GT</div> <div></div> <div>8 axis</div> <div>Page 23</div>
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CNC automatic lathes

<div>BNA</div> <div>42DHY</div> <div></div> <div>5 axis</div> <div>Page 24</div>	<div>BNA</div> <div>42MSY 42S</div> <div></div> <div>MSY : 5 axis S : 3 axis</div> <div>Page 25</div>	<div>LX</div> <div>08C</div> <div></div> <div>2 axis</div> <div>Page 26</div>	<div>LZ</div> <div>01R 01RY</div> <div></div> <div>R : 2 axis RY : 3 axis</div> <div>Page 27</div>	<div>VC03</div> <div></div> <div>2 axis</div> <div>Page 30</div>	<div>Multi Station Machining Cell</div> <div>MC20 III</div> <div></div> <div>10 axis</div> <div>Page 31</div>
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Low Frequency
Vibration-cutting

Multi Station
Machining Cell



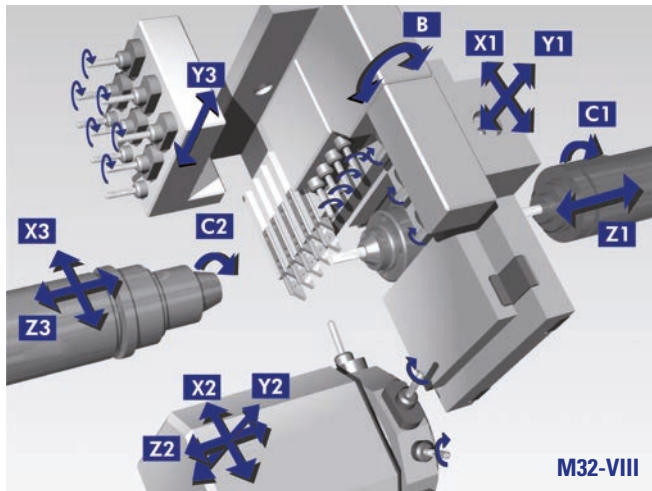
Highest flexibility, outstanding performance & efficiency, simple operation

Cincom sliding head machines are synonymous for CNC automatic lathes. They feature maximum flexibility and are able to handle a wide variety of complex machining tasks.

The sliding head machines have specifically been designed for machining long workpieces and small diameters and use a guide bushing.

M32

The market leader re-defined



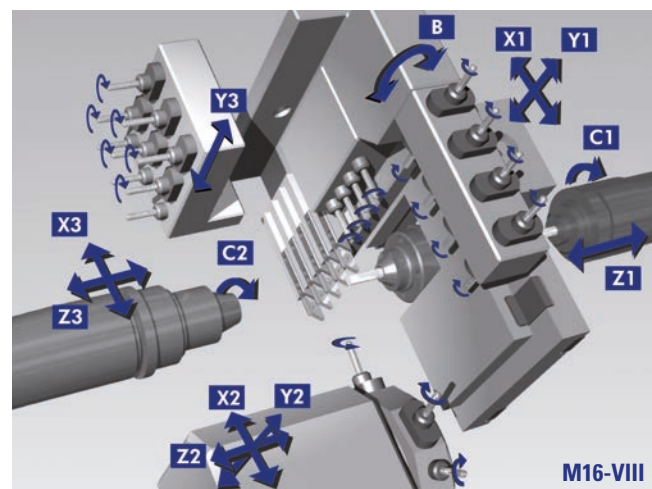
- Sliding Headstock Type CNC Automatic Lathe**
- M32 type VIII is equipped with B axis. Contouring with simultaneous 4-axis control is possible.
 - With a fast CPU on board and Cincom Control, idle time is reduced by 30%.
 - Environmentally friendly products by optimizing consumption of oil/air for lubrication.

5 turning tools and 4 power-driven tools on the linear support, B-axis on the vertical holder with 3 stations, turret with 10 stations (all stations also for power-driven tools, usually double and both sides can be equipped), up to 9 tools for back machining.

Type	M32-V	M32-VIII
	M32-4M5	M32-4M8
NC unit	Mitsubishi	Mitsubishi
No. axes	8 + (C1 and C2)	10 + (C1 and C2)
Max. machining diameter	Ø 32 mm (Ø 35 mm option)	Ø 32 mm (Ø 35 mm option)
1 chuck machining length	320 mm	320 mm
Max. speed main spindle	8,000 min ⁻¹	8,000 min ⁻¹
Max. speed back spindle	8,000 min ⁻¹	8,000 min ⁻¹
No. mountable tools	25 + α	31 + α

M16

The M16: A High-end Model Covering 16 mm. The B axis function of rotary tools on the gang tool post and the back tool post Y axis function give the advantage with complex shapes and secondary machining.



Sliding Headstock Type CNC Automatic Lathe

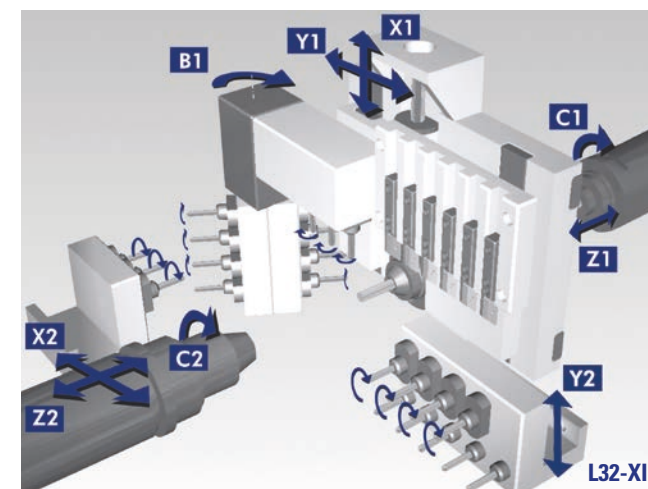
- On the M16 type VIII, the rotary tools on the gang tool post feature a B axis as standard, and four tools each can be mounted for back and front machining.
- The back tool post can accommodate holders at three positions, and up to nine tools can be used (type V and VIII).

5 turning tools and 4 power-driven tools on the vertical holder, B-axis on the vertical holder with 4 stations (front/back), turret with 10 stations (all stations also for power-driven tools, usually double and both sides can be equipped), up to 9 tools for back machining.

Type	M16-V	M16-VIII
	M16-4M5	M16-4M8
NC unit	Mitsubishi	Mitsubishi
No. axes	8 + (C1 and C2)	10 + (C1 and C2)
Max. machining diameter	Ø 16 mm	Ø 16 mm
1 chuck machining length	200 mm	200 mm
Max. speed main spindle	12,000 min ⁻¹	12,000 min ⁻¹
Max. speed back spindle	12,000 min ⁻¹	12,000 min ⁻¹
No. mountable tools	25 + α	36 + α

L32

The new L32 -an 'icon' reinvented



Sliding Headstock Type CNC Automatic Lathe

- Ranging from a 5-axis machine with excellent cost performance to a high-end machine equipped with B axis and back tool post Y axis.
- Workpiece conveyor equipped as standard.
- The guide bushing can be fitted and removed simply.

6 turning tools, 3 cross rotary tools, B-axis with 4 front- and 4 back rotary tools, 3 drilling tools for front machining and 9 drilling tools for back machining.

Type	L32-VIII	L32-X	L32-XII
	L32-1M8	L32-1M10	L32-1M12
NC unit	Mitsubishi	Mitsubishi	Mitsubishi
No. axes	5 + (C1 and C2)	6 + (C1 and C2)	7 + (C1 and C2)
Max. machining diameter	Ø 32 mm, (Ø 38 mm option)	Ø 32 mm, (Ø 38 mm option)	Ø 32 mm, (Ø 38 mm option)
1 chuck machining length	320 mm (GB), 80 mm (GBL)	320 mm (GB), 80 mm (GBL)	320 mm (GB), 80 mm (GBL)
Max. speed main spindle	8,000 min ⁻¹	8,000 min ⁻¹	8,000 min ⁻¹
Max. speed back spindle	8,000 min ⁻¹	8,000 min ⁻¹	8,000 min ⁻¹
No. mountable tools	30	44	40

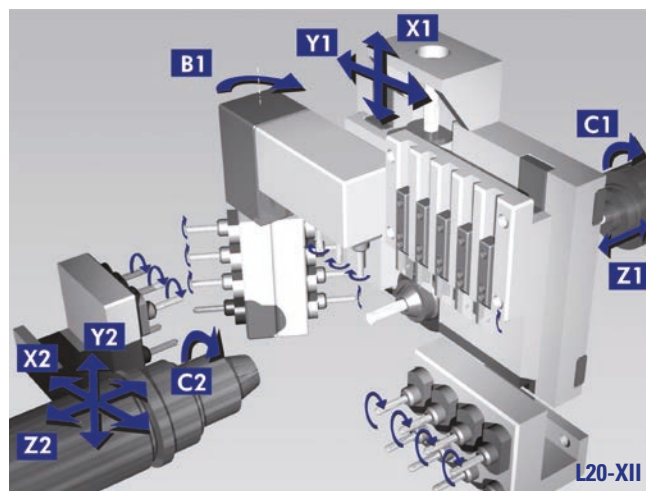
L20

L series revamped.



L12

The L12: Handling All Small-diameter Work with 5-axis Control.
Detachable Guide Bushing and 15,000 min⁻¹ High-speed Spindle.

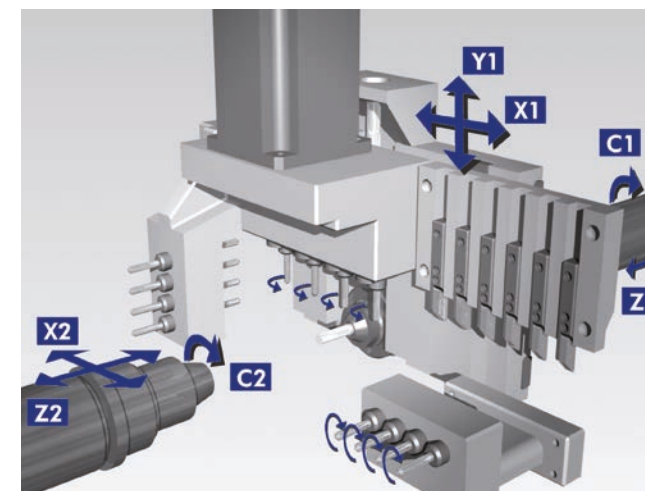


Sliding Headstock Type CNC Automatic Lathe

- Ranging from a 5-axis machine with excellent cost performance to a high-end machine equipped with B axis and opposite tool post Y axis.
- The detachable guide-bushing device is easy to change.

5 turning tools, 3 cross rotary tools, B-axis with 4 front- and 4 back rotary tools, 6–15 drilling tools for front machining, 8–17 drilling tools for back machining.

Type	L20-VIII	L20-X	L20-XII
NC unit	L20E-2M8	L20E-2M10	L20E-2M12
No. axes	5 + (C1 and C2)	6 + (C1 and C2)	7 + (C1 and C2)
Max. machining diameter	Ø 20 mm, (Ø 25 mm option)	Ø 20 mm, (Ø 25 mm option)	Ø 20 mm, (Ø 25 mm option)
1 chuck machining length	200 mm (GB), 50 mm (GBL)	200 mm (GB), 50 mm (GBL)	200 mm (GB), 50 mm (GBL)
Max. speed main spindle	10,000 min ⁻¹	10,000 min ⁻¹	10,000 min ⁻¹
Max. speed back spindle	8,000 min ⁻¹	8,000 min ⁻¹	8,000 min ⁻¹
No. mountable tools	37	44	40



Sliding Headstock Type CNC Automatic Lathe

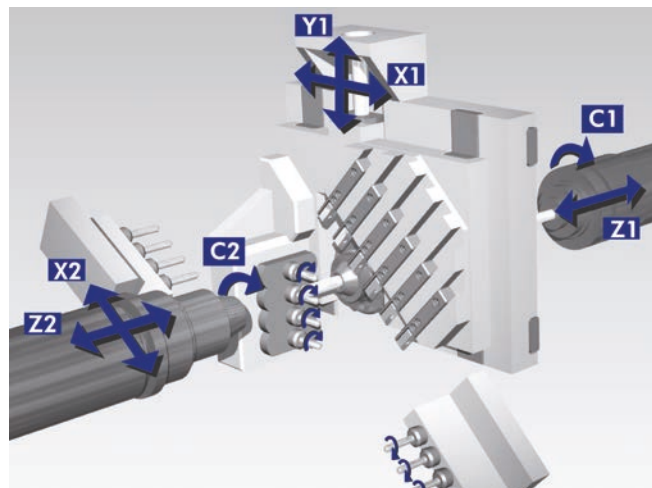
- The guide bushing can be fitted and removed simply.
- It shortens cycle times with a front spindle capable of high-speed rotation of 15,000 min⁻¹ and 10,000 min⁻¹ rotary tools.
- A full range of optional tooling is available. It is possible to mount end face rotary tools and a slitting spindle for back machining.

6 turning tools, 4 power-driven tools, 4 drilling for front machining and 4 drilling tools for back machining, 4 power-driven tools for back machining.

Type	L12-VII
NC unit	L12-1M7
No. axes	5 + (C1 and C2)
Max. machining diameter	Ø 12 mm
1 chuck machining length	135 mm (GB), 30 mm (GBL)
Max. speed main spindle	15,000 min ⁻¹
Max. speed back spindle	10,000 min ⁻¹
No. mountable tools	27

K16E

The K16E – faster processing with outstanding ease-of-use.



Sliding Headstock Type CNC Automatic Lathe

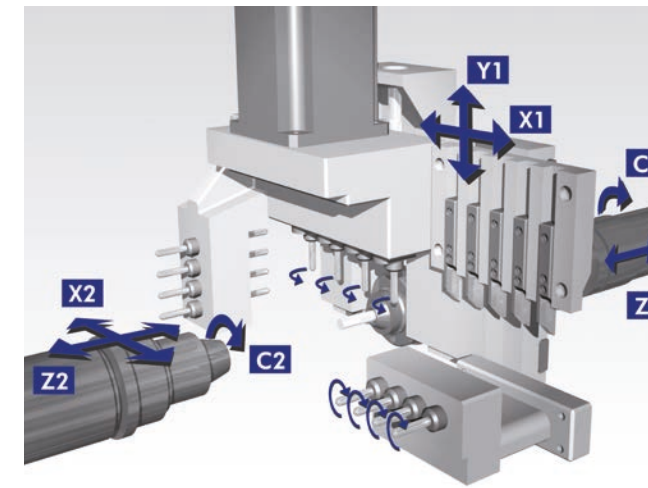
- The new control and user interface makes using the K series even easier than before.
- New control delivers significant cycle time savings for complex parts.
- Same holder is adaptable for both slitting and cross drilling.

6 turning tools, 4 power-driven tools, 4× drilling tools for front machining and 4× drilling tools for back machining, 3 front-end power-driven tools for back machining (optional)

Type	K16E-VII
NC unit	K16E-1M7P
No. axes	5 + (C1 and C2)
Max. machining diameter	Ø 16 mm
1 chuck machining length	200 mm
Max. speed main spindle	15,000 min ⁻¹
Max. speed back spindle	10,000 min ⁻¹
No. mountable tools	23

A20

An evolving 5-Axis CNC sliding head machine, featuring the ability to switch between guide bush and non-guide bush types.



Sliding Headstock Type CNC Automatic Lathe

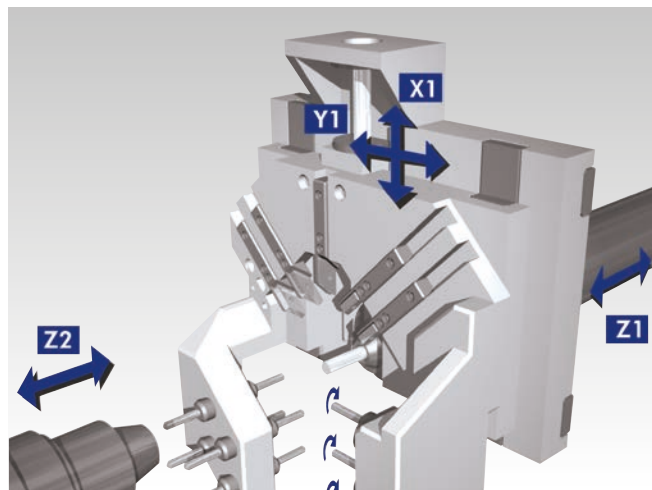
- New capability to switch between guide bush and non-guide bush operating modes.
- A20 is capable of machining bar stockup to 25 mm dia. by installing the optional 25 mm size chuck device.

5 turning tools, 4 power-driven tools, 4 drilling tools for front machining and 8 drilling tools for back machining, 4 power-driven tools for back machining.

Type	A20-VII
NC unit	A20-3F7N
No. axes	5 + (C1 and C2)
Max. machining diameter	Ø 20 mm, (Ø 25 mm option)
1 chuck machining length	200 mm (GB), 50 mm (GBL)
Max. speed main spindle	10,000 min ⁻¹
Max. speed back spindle	8,000 min ⁻¹
No. mountable tools	21

B12/16E

Cincom's B series 'best seller' model has been revamped to expand the machining range up to 16 mm. And the cost has been substantially reduced.



Sliding Headstock Type CNC Automatic Lathe

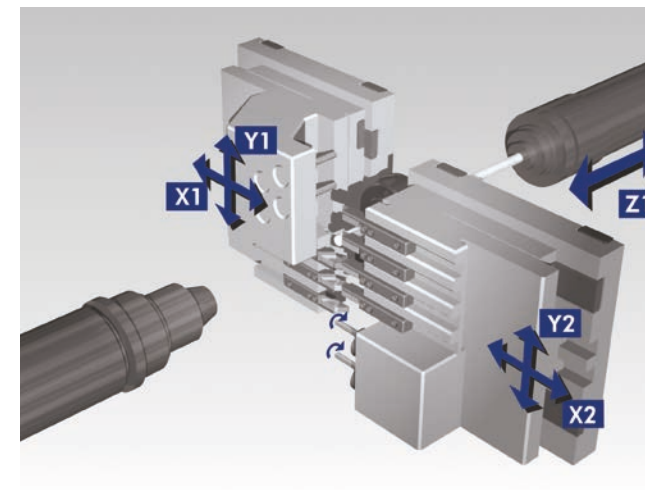
- Running the calculations in NC programs in advance shortens the processing time during operation, which helps to cut cycle times.
- Virtual XY axis control is used to achieve a tool layout that is not too focused on the ball screw axis.

5 turning tools, 3 power-driven tools, 4 drilling tools for front machining, 4 drilling tools for back machining.

Type	B12E-VI	B16E-VI
NC unit	B12E-1F6	B16E-1F6
No. axes	4	4
Max. machining diameter	Ø 12 mm	Ø 16 mm
1 chuck machining length	60 mm	60 mm
Max. speed main spindle	12,000 min ⁻¹ / 8,000 min ⁻¹ with RGB	12,000 min ⁻¹ / 8,000 min ⁻¹ with RGB
Max. speed back spindle	6,000 min ⁻¹	6,000 min ⁻¹
No. mountable tools	16	16

R04

New R series – the solution for ultra-small-diameter parts.



Sliding Headstock Type CNC Automatic Lathe

- The R04 Type has a compact design with a depth of only 455 mm. This means it can be installed in restricted spaces in plants.
- All the models in the R series achieve a maximum continuous spindle speed of 20,000 min⁻¹. These spindles can be used together with a rotary guide bushing device.

5 turning tools, 2 power-driven tools (optional 3), 4x drilling tools for front and back machining.

Type	R04-VI
NC unit	R04-5F6
No. axes	6 + (C1 and C2)
Max. machining diameter	Ø 4 mm
1 chuck machining length	40 mm
Max. speed main spindle	20,000 min ⁻¹
Max. speed back spindle	20,000 min ⁻¹
No. mountable tools	17

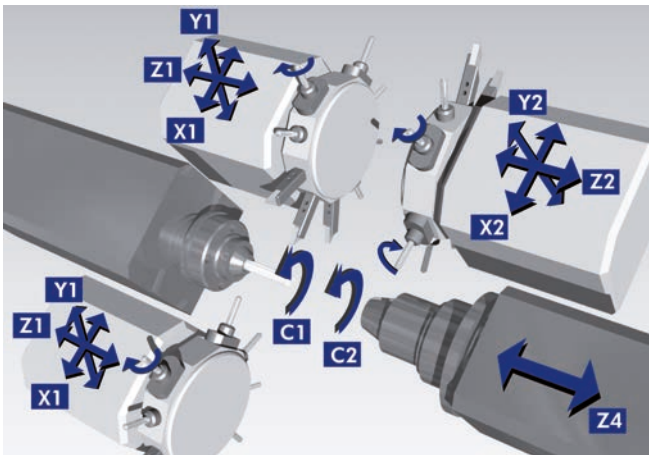


High productivity combined with outstanding precision and speed.

Miyano fixed head automatic lathes boast high productivity, excellent quality and tremendous precision - and thus ensure perfect results in record time. Within the diameter range of up to 64 mm, the Miyano fixed head automatic lathes are an investment for life. They feature high productivity, high speed and outstanding precision – to name just a few of their proven characteristics. The hand-scraped slideways are highly reliable and ensure maximum precision. If you put the focus on maximum efficiency and productivity, Miyano fixed head automatic lathes are the right choice as they flexibly adapt to all specific requirements.

ABX_{THY}

The flagship of Miyano CNCs for bar work. The perfect turning center



Fixed Headstock Type CNC Automatic Lathe

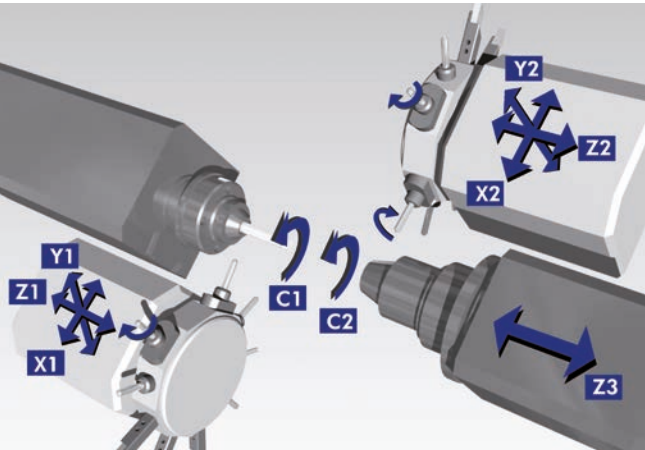
- Upper/lower turrets equipped with Y-axis function and left/right spindles for simultaneous left and right processing, enabling faster completion of products requiring front/back processing
- Up to 36 revolving tools (40 Nm) realize high rigidity and stable milling

Turret 1 with 12 stations and Y-axis, turret 2 with 12 stations and Y-axis, turret 3 with 12 stations and Y-axis, main and back spindle with C-axis.

Type	ABX-51THY	ABX-64THY
NC unit	ABX-51THY2	ABX-64THY2
No. axes	Fanuc	Fanuc
No. axes	10 + (C1 and C2)	10 + (C1 and C2)
Max. machining diameter of bar work	Ø 51 mm	Ø 64 mm
Max. workpiece length	125 mm	118 mm
Max. speed main spindle	5,000 min ⁻¹	4,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹	5,000 min ⁻¹
No. turret stations	12	12
No. power-driven tools	36	36

ABX_{SY}

Simultaneous left/right machining with 2 Y-axis turrets enables faster processing.



Fixed Headstock Type CNC Automatic Lathe

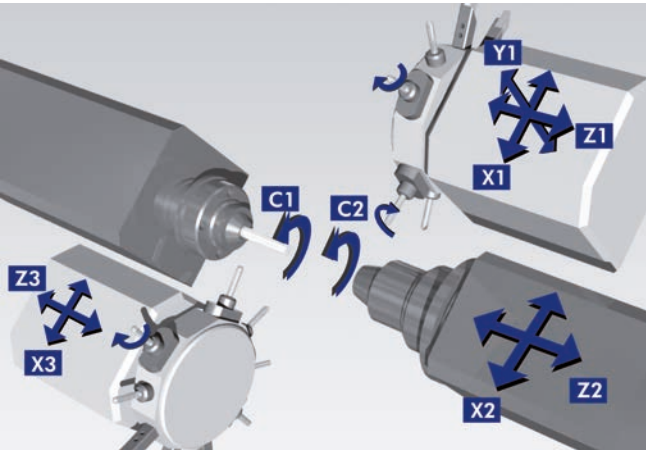
- Both 2 turrets with the Y-axis function means flexible tooling without any concern for processing balance restrictions
- Up to 24 high-rigidity, high-torque (40 Nm) revolving tool stations

Turret 1 with 12 stations and Y-axis, turret 2 with 12 stations and Y-axis, main and back spindle with C-axis.

Type	ABX-51SYY	ABX-64SYY
NC unit	ABX-51SYY2	ABX-64SYY2
No. axes	Fanuc	Fanuc
No. axes	7 + (C1 and C2)	7 + (C1 and C2)
Max. machining diameter of bar work	Ø 51 mm	Ø 64 mm
Max. workpiece length	125 mm	118 mm
Max. speed main spindle	5,000 min ⁻¹	4,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹	5,000 min ⁻¹
No. turret stations	12	12
No. power-driven tools	24	24

BNE_{MS}

Realizes “simultaneous hole machining at both ends” and “simultaneous machining with three tools” using superimposition control



Fixed Headstock Type CNC Automatic Lathe

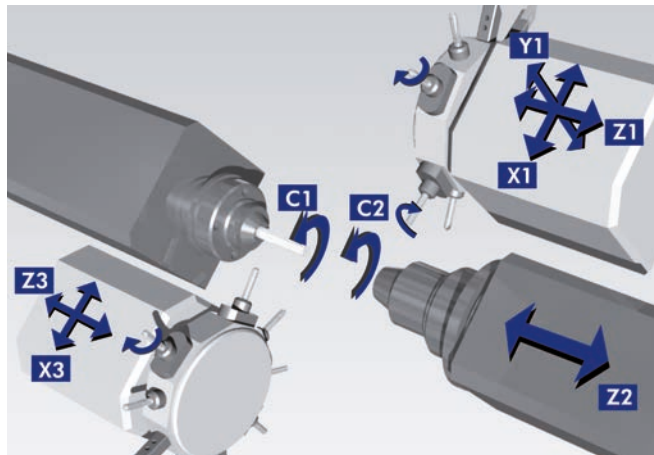
- Mitsubishi’s NC unit is used. Its useful support screens for programming assistance and other purposes present the necessary information in an easy-to-find manner, helping to improve operating convenience.
- The machining diameter on SP2 has been increased to 51 mm dia. , expanding the range of products.

Turret 1 with 12 stations and Y-axis, turret 2 with 12 stations, X-axis on the back spindle.

Type	BNE-51MSY
NC unit	BNE-51MSY
No. axes	Mitsubishi
No. axes	7 + (C1 and C2)
Max. machining diameter of bar work	Ø 51 mm
Max. workpiece length	90 mm
Max. speed main spindle	5,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹
No. turret stations	12
No. power-driven tools	24

BNE

2 spindle + 2 Turret Model enables high productivity, high-accuracy and complex processing.



Fixed Headstock Type CNC Automatic Lathe

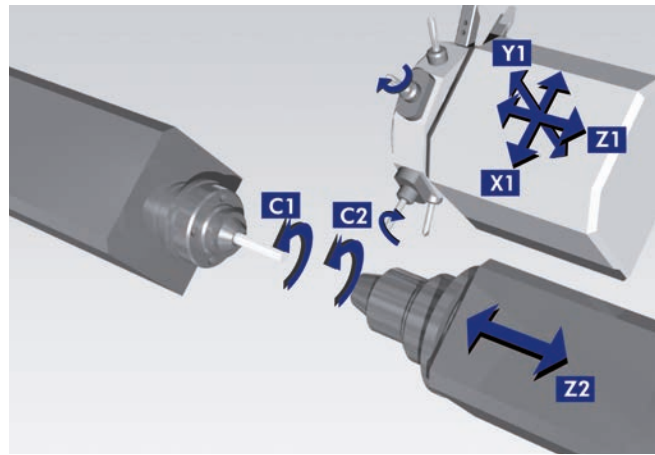
- Upper/lower turrets enable balanced cutting and complex machine.

Turret 1 with 12 stations and Y-axis, turret 2 with 12 stations, main and back spindle with C-axis.

Type	BNE-51S	BNE-51SY
NC unit	BNE-51S6	BNE-51SY6
No. axes	Fanuc	Fanuc
No. axes	5 + (C1 and C2)	6 + (C1 and C2)
Max. machining diameter of bar work	Ø 51 mm	Ø 51 mm
Max. workpiece length	90 mm	90 mm
Max. speed main spindle	5,000 min ⁻¹	5,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹	5,000 min ⁻¹
No. turret stations	12	12
No. power-driven tools	24	24

BND

Multipurpose midsize high precision CNC turning center 51mm bar capacity, 2 spindles and 1 turret with Y-Axis.



Fixed Headstock Type CNC Automatic Lathe

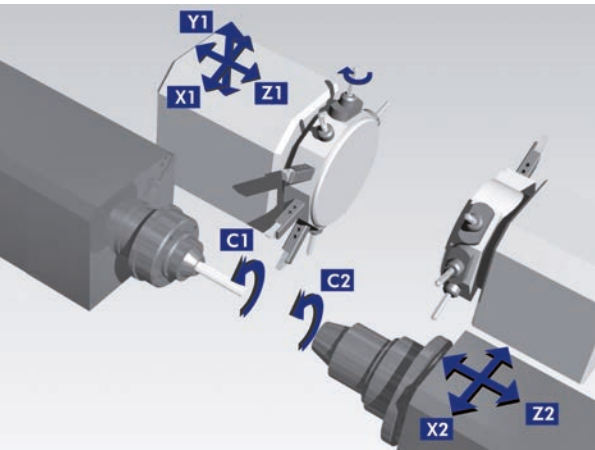
- Excellent quality and tremendous precision.
- Y-axis function is more capable for complex high-value parts.
- Mono block slant bed and square slide for efficient chip flow and high accuracy.

Turret with 12 stations and Y-axis, main and back spindle with C-axis.

Type	BND-51SY
NC unit	BND-51SY2
No. axes	Fanuc
No. axes	4 + (C1 and C2)
Max. machining diameter of bar work	Ø 51 mm
Max. workpiece length	320 mm
Max. speed main spindle	5,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹
No. turret stations	12
No. power-driven tools	12

BNJ

Uniquely shaped back-working turret reduces production time greatly.



Fixed Headstock Type CNC Automatic Lathe

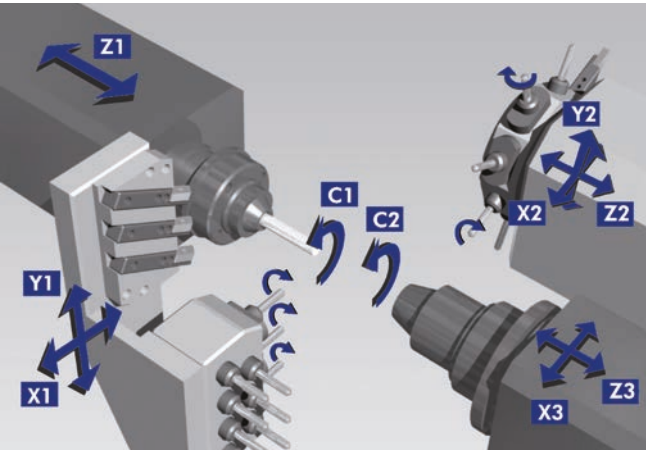
- Overlap control on main turret with both of main and Sub-Spindles, or independent simultaneously machining on main spindle to main turret and sub-spindle to Sub-turret for fast production.
- Compact floor space although 2 spindles and 2 turrets machine construction.

Turret 1 with 12 stations and Y-axis, turret 2 with 8 stations, main and back spindle with C-axis.

Type	BNJ-42SY	BNJ-51SY
NC unit	BNJ-42SY6	BNJ-51SY6
No. axes	Fanuc	Fanuc
No. axes	5 + (C1 and C2)	5 + (C1 and C2)
Max. machining diameter of bar work	Ø 42 mm	Ø 51 mm
Max. workpiece length	100	100
Max. speed main spindle	5,000 min ⁻¹	5,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹	5,000 min ⁻¹
No. turret stations	12 stations and 6 stations	12 stations and 6 stations
No. power-driven tools	16	16

BNA_{GT}Y

The high speed of gang tools is added to the diversity of the turret, opening up a wide range of machining possibilities.



Fixed Headstock Type CNC Automatic Lathe

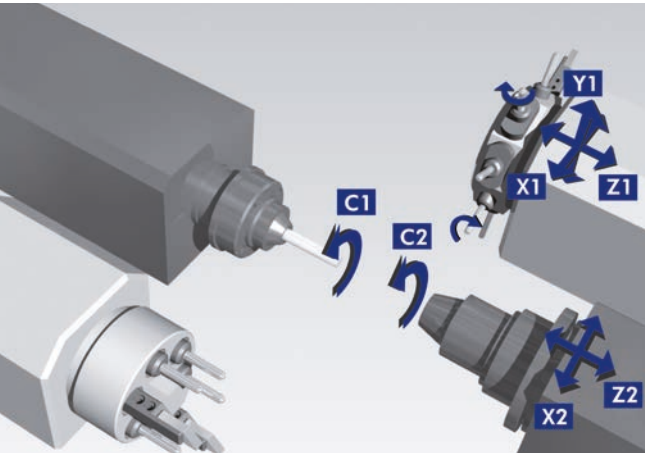
- The machine can handle balance cutting and pinch milling in addition to 3-axis-control-group overlapping, giving exceptional machining efficiency.
- By using 4 hole tool holder and tool holders for back machining, up to 45 tools can be mounted.
- Realizes „simultaneous hole machining at both ends“ and „simultaneous machining with 2 tools“ using superimposition control.

Turret with 8 stations and Y-axis, vertical holder on the main spindle, main and back spindle with C-axis.

Type	BNA-42GT
NC unit	BNA-42GT
No. axes	Mitsubishi
No. axes	8 + (C1 and C2)
Max. machining diameter of bar work	Ø 42 mm
Max. workpiece length	110 mm
Max. speed main spindle	6,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹
No. turret stations	8 stations and linear support
No. power-driven tools	45

BNA_{DHY}

Main turret with Y-axis function.
Equipped with sub turret with 2 turrets for rapid processing of complex-shaped work.



Fixed Headstock Type CNC Automatic Lathe

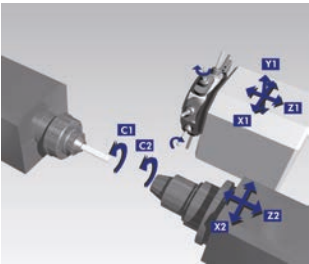
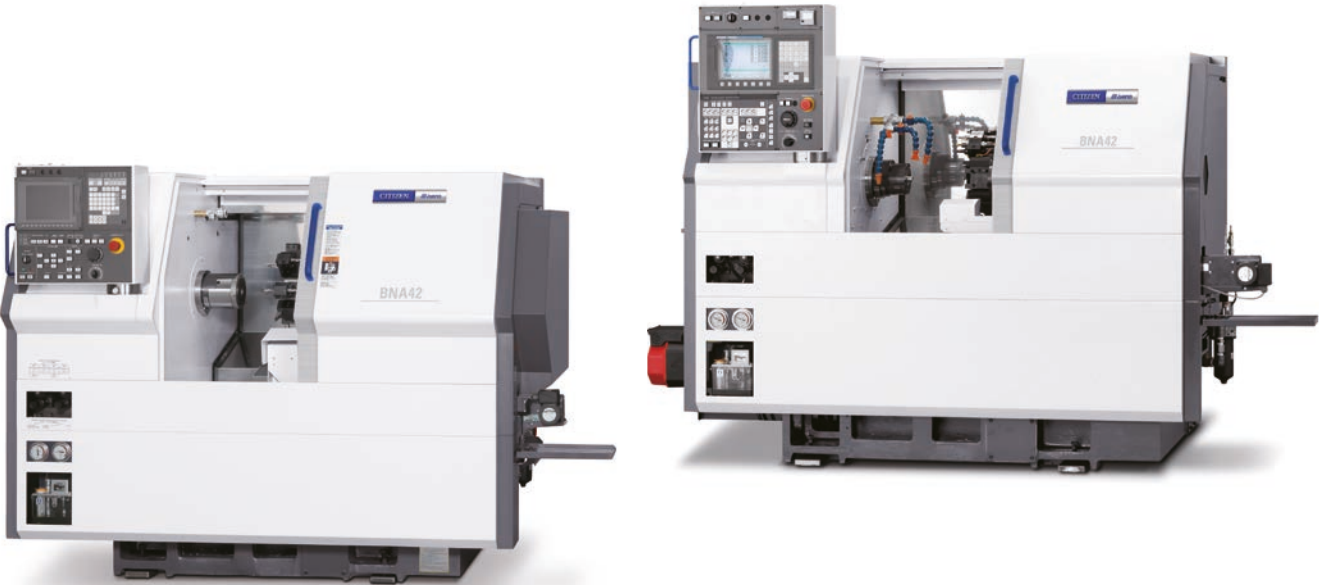
- Simultaneous left/right processing with a main turret and compact sub-turret and overlap processing sharply cut the machining time

Revolver 1 mit 8 Stationen und Y-Achse, Revolver 2 mit 6 Stationen, Haupt- und Abgreifspindel mit C-Achse.

Type	BNA-42DHY
NC unit	BNA-42DHY2
No. axes	5 + (C1 and C2)
Max. machining diameter of bar work	Ø 42 mm
Max. workpiece length	100 mm
Max. speed main spindle	5,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹
No. turret stations	8 stations and 6 stations
No. power-driven tools	8

BNA_{MSY/S}

MSY: The unique control system improves productivity by enabling overlap control and reduction of non-cutting time.
S: Space-saving design combined with advanced functions and high accuracy.
A new standard for bar work machines



Turret with 8 stations, main and back spindle with C-axis, additional X2 axis on the back spindle.

BNA-MSY: Fixed Headstock Type CNC Automatic Lathe

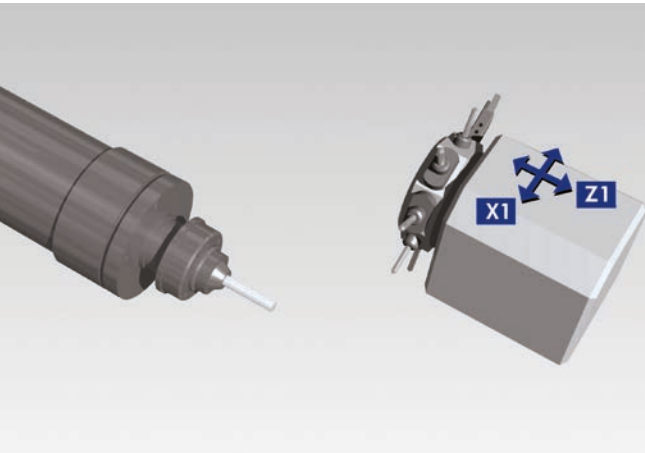
- The turret features a Y axis and half-indexing, expanding the machining possibilities.
- The machine is equipped with the largest spindle motor in the series, enabling powerful cutting.

- Realizes „simultaneous hole machining at both ends“ and „simultaneous machining with 2 tools“ using superimposition control.

Type	BNA-42MSY	BNA-42S
NC unit	BNA-42MSY2	BNA-42S2
No. axes	Mitsubishi	Fanuc
No. axes	5 + (C1 and C2)	3 + (C1 and C2)
Max. machining diameter of bar work	Ø 42 mm	Ø 42 mm
Max. workpiece length	100 mm	100 mm
Max. speed main spindle	6,000 min ⁻¹	6,000 min ⁻¹
Max. speed back spindle	5,000 min ⁻¹	5,000 min ⁻¹
No. turret stations	8 stations	8 stations
No. power-driven tools	8	8

LX08_c

Chucker featuring high-rigidity, mono block slant bed, and 10-position turret for intensive machining work.



CNC Lathe

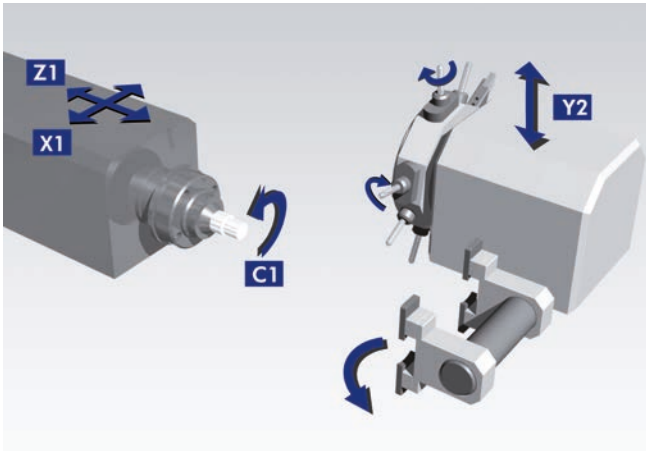
- Powerful 10 station turret, powerful curvic coupling, positive tool holding by direct wedge clamping for OD Turning, mono block slant bed for efficient chip flow and rigid spindle construction. Ideal for High powered and accurate machining such as hardened material work pieces (Hard turning).

Turret with 10 stations for turning and drilling operations.

Type	LX08C
NC unit	Fanuc
No. axes	2
Max. machining diameter of bar work	Ø 210 mm
Max. workpiece length	320 mm
Max. speed main spindle	4,000 min ⁻¹
Max. speed back spindle	–
No. turret stations	10 stations
No. power-driven tools	–

LZ

Chucker featuring movable spindle and automation system, for high-speed loading.



CNC Lathe

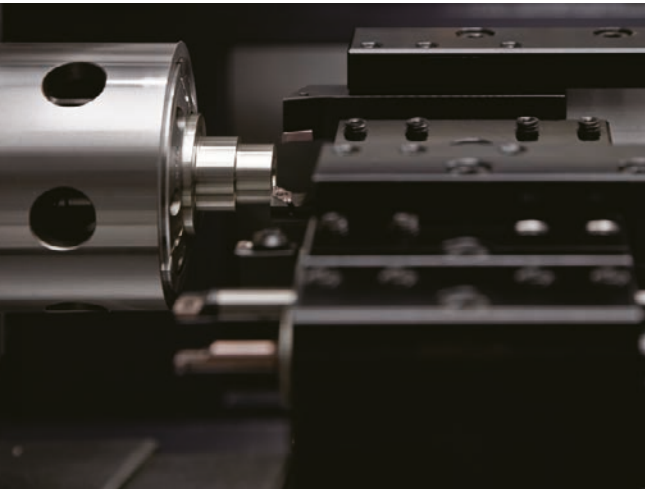
- Reduces loading time substantially, a movable spindle that transfers processed work pieces to a hand inside the machine.
- Appropriate for hard turning.

Turret with 12 stations, 6 stations power-driven, automatic feed system with part gripper.

Type	LZ-01RY
NC unit	LZ-01RY2
NC unit	Fanuc
No. axes	3 + C-axis
Max. machining diameter of bar work	Ø 70 mm
Max. workpiece length	80 mm
Max. speed main spindle	6,000 min ⁻¹
Max. speed back spindle	–
No. turret stations	12 stations
No. power-driven tools	6

GN4200

Advanced high precision machining is achieved with extended slide stroke and higher rapid feed on slides.



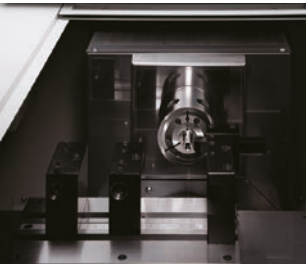
High Precision CNC Lathe

- Designed for high-precision machining, A tool table with an X-axis slide stroke 50 mm bigger than on existing machines allows a wide range of tools. Can of course be handled manually, but the machine also flexibly accommodates high-speed gantry loaders or robots.
- Appropriate for hard turning.

Type	GN-4200
	GN-4200
NC unit	Fanuc
No. axes	2
Max. machining diameter of bar work	Ø 40 mm
Max. workpiece length	80 mm
Max. speed main spindle	8,000 min ⁻¹
Linear slides	1

GN3200_w / GN3200

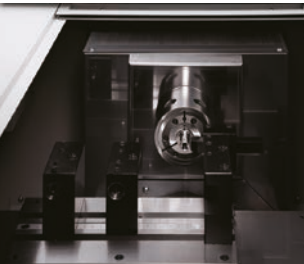
GN3200W: Functions equivalent to two GN-3200 have been integrated into one for further improvement of productivity.
GN3200: Space-saving, high-precision chucker inheriting the traditional high-accuracy design.



GN3200w High Precision CNC Lathes

- Various automation needs are met by combining peripheral devices such as the high-speed gantry loader that allows selection of either one or two 2 saddles, in/out stocker, etc.
- Appropriate for hard turning.
- Front and back machining or parallel machining between Sp.1 and Sp.2.

Type	GN3200W
	GN3200W
NC unit	Fanuc
No. axes	2 + 2
Max. machining diameter of bar work	Ø 40 mm
Max. workpiece length	50 mm
Max. speed main spindle	8,000 min ⁻¹
Linear slides	1 + 1



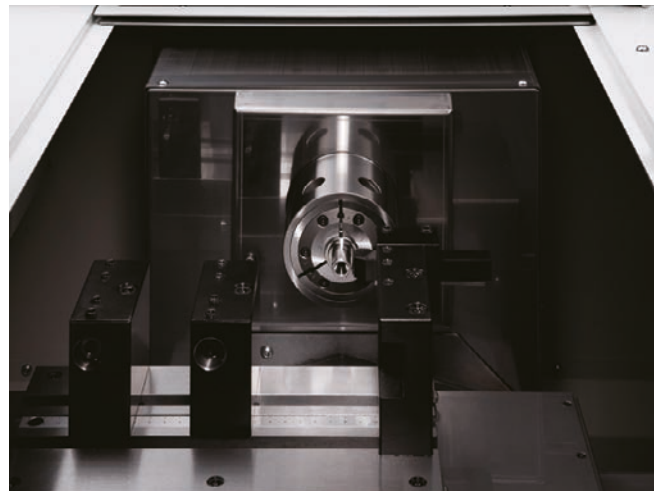
GN3200 High Precision CNC Lathes

- Heat symmetric machine frame and bed, wing type headstock and separate coolant tank that all for high precision.
- Appropriate for hard turning.

Type	GN3200W	GN3200
	GN3200W	GN3200
NC unit	Fanuc	Fanuc
No. axes	2 + 2	2
Max. machining diameter of bar work	Ø 40 mm	Ø 40 mm
Max. workpiece length	50 mm	50 mm
Max. speed main spindle	8,000 min ⁻¹	8,000 min ⁻¹
Linear slides	1 + 1	1

VC03

Opening up new possibilities in machining technology with Low Frequency Vibration-cutting.



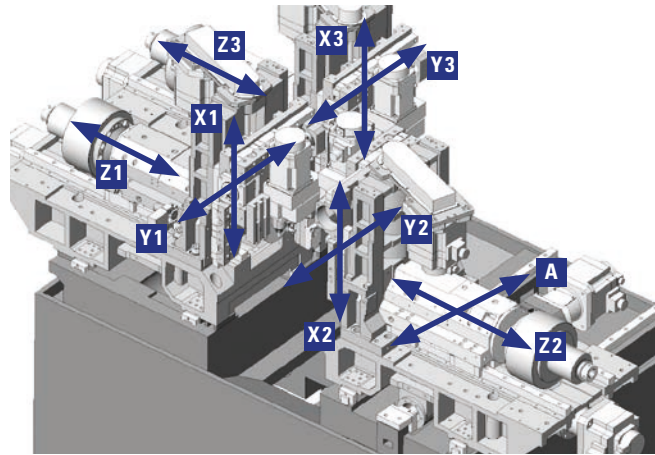
Low Frequency Vibration-cutting

- Vibrating slide makes chips split, reducing the troubles of tangled chips.
- Low cutting resistance reduces the load on a chuck.
- Highest precision achievable by using drive axis in corporate linear motors and scale feedback control.

Type	VC03
NC unit	VC03II
No. axes	Mitsubishi
Max. machining diameter of bar work	2
Max. workpiece length	Ø 40 mm
Max. speed main spindle	50 mm
Linear slides	8,000 min ⁻¹
	1

MC20

Integrating three NC lathes into a single machine unit with three modules realizes an ultra-high-productivity machine.



Multi Station Machining Cell

- Machining processes are shared by three modules. Simultaneous multi-spindle machining improves productivity.
- It is possible to substantially reduce the floor space requirements while maintaining the same production capacity.
- No loader between processes is required: improves accuracy and reduces setup time.

Type	MC20
NC unit	MC20-III
No. axes	Mitsubishi
Max. through-spindle workpiece diameter	9 + (C1 and C2 and C3)
Chuck size	Ø 20mm
Max. workpiece length	4 inch
Max. speed spindle	60 mm
No. vertical holders	8,000 min ⁻¹
No. tools per vertical holder	3
	5 + α

New perspectives – by low frequency vibration cutting (LFV).

Citizen Machinery Europe stands for innovation at the highest international level. The best example of this is our new LFV technology.

LFV – standing for „Low Frequency Vibration“ cutting – is a brand-new universally applicable and highly efficient cutting technology which allows for machining almost all part geometries from the most varied materials. Chips are broken up in a controlled way thus eliminating machine stops due to tangled long chips.

Our machines equipped with LFV technology efficiently handle the controlled breaking up of chips when cutting difficult to machine materials thanks to their special control technology. In combination with the basic principle of the GN series, namely “machine construction for high accuracy”, this opens up new opportunities in machining technology. Discover now the „groundbreaking“ new technology.

Further LFV advantages at a glance:

- Reduced cutting resistance
- No formation of built-up edges
- No unnecessary machine stops
- Extended tool life



Tradition and Global Innovation Power for Local Markets.

Citizen Holdings Co., LTD. is a Japanese manufacturer operating in micro-technology and also being the world market leader in this sector. Citizen Group is divided into the five business sectors Watches, Electronic components, Electronic products, Other products and Lathes. The Group employs approx. 18,000 employees worldwide. The holding company is headquartered in Tokyo, Japan. The company is listed on the Tokyo stock exchange. Citizen Machinery Europe stands for innovation on the highest international level, hand in hand with traditional German engineering. German customers profit from the strength of an international large-scale enterprise. At the same time, they may fall back on the more than 100-year old history in our local markets.



Excellent service – always in your vicinity and there for you.

With your decision in favor of a Citizen lathe, you have not only opted for absolute precision and efficiency - but also for our outstanding service included with every machine we deliver.

Together with you, we develop individual solutions for your production and accompany you through their optimization. In the process, we attach high importance to personal contact. In our three German Technology Centers, we are always in your vicinity and will be glad to advise and assist you in regular training courses and demonstrations, but will also be happy to meet you in person. Our central spare part warehouse is located in the South of Germany and will serve you quickly and reliably to support and ensure your smooth production processes.

We will not rest until your production is as simple and efficient as possible. Make the most of your opportunities – we will show you how.

Well looked after throughout:

- Comprehensive service for your machine and your process
- Competent process support and optimization
- Always in your vicinity due to a close-knit service and distribution network
- Excellent availability and short reaction time in case of service calls
- Timely and fast delivery of spare parts

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