

star

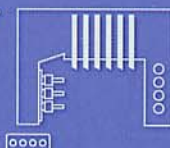
SR-10J type C

CNC SWISS TYPE AUTOMATIC LATHE



User-oriented and state-of-the-art machine for small parts makes its debut from Star.

□ TOOL POST



□ WORK SIZE (MAX.)

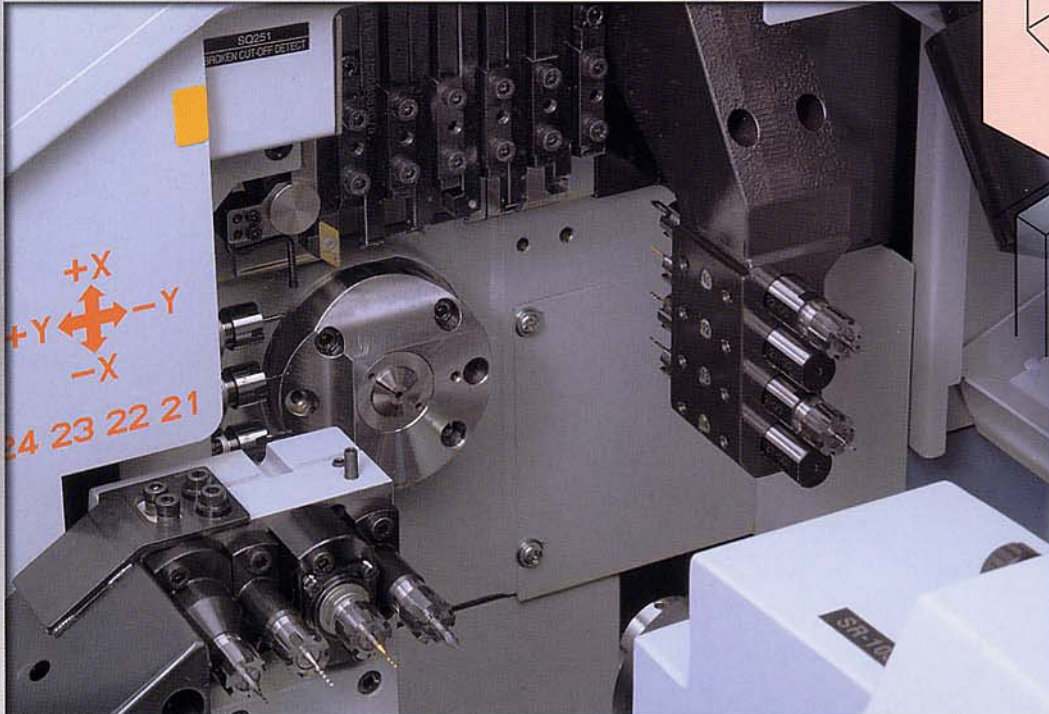
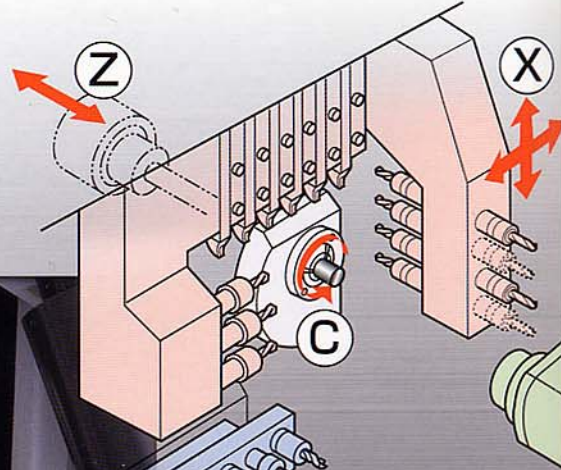


□ CONTROL SYSTEM



CNC SWISS TYPE AUTOMATIC LATHE

SR-10J type C



SR-10J, a 10mm ϕ class machine to satisfy "low cost," "space-saving" and "high productivity" performance

A low-cost and space-saving machine possessing C-axis control and multifunction capabilities achieving high levels of productivity

FEATURE of SR-10J CNC SWISS TYPE AUTOMATIC LATHE

High cost performance

- The ultimate low cost machine achieving dynamic design and manufacture.

Space-saving

- A depth of 775mm. The floor area is 30% less than the area required for SB-16. The productivity per unit area can be increased owing to the footprint size.

Reducing machining time and idle times

- Reduced idle time by using a layout where the tool post traveling distance is shorter than a normal, incorporating an approaching function and a high-speed feed.
- Overlap machining is available for the front and back sides by using a back-working unit.

Satisfactory secondary machining

- The main spindle equipped with the C-axis control.
- The power-driven tool unit for cross working operation attached to the gang tool post.
- The slotting to the rear end is available with a back-working unit.

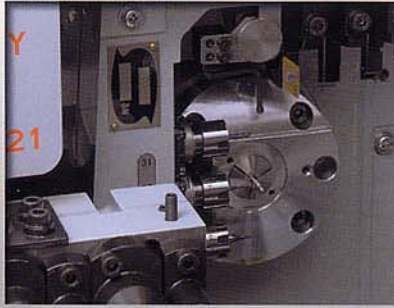
High accuracy

- Adopting a synchronous control of the Z/ZB axes and a phase synchronous control of the main-/sub-spindle.
- Tool cutting position close to the guide bush enhances accuracy for small parts machining.

Harmony within the environment

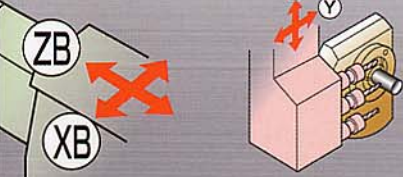
- Hydraulic units eliminated, reducing oil waste and electric power consumption.

VARIATION : 01

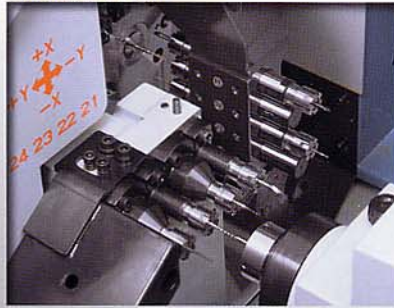


Cross milling

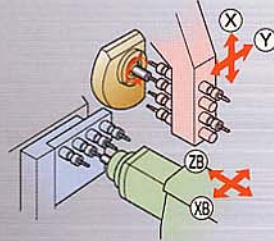
Y



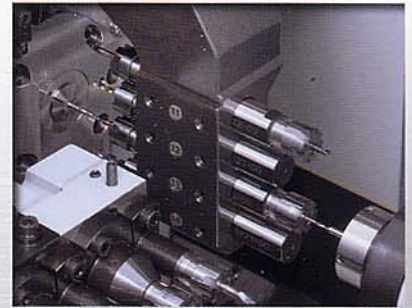
VARIATION : 02



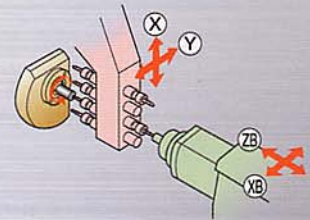
Main/sub spindle rigid tapping



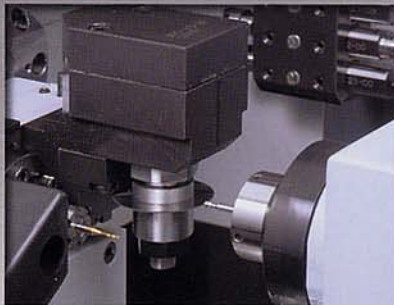
VARIATION : 03



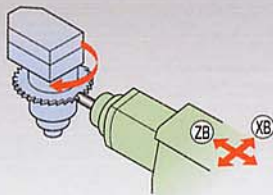
Main/sub spindle simultaneous drilling



VARIATION : 04



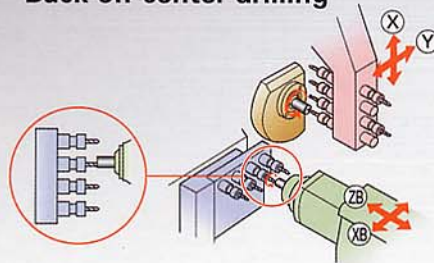
Back Slotting



VARIATION : 05

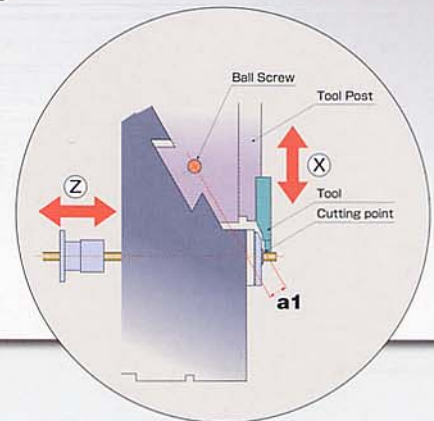


Back off-center drilling



A Variety of back machining with power-driven tools (optional)

Mounting a drive unit for power-driven tools on the back 4-spindle unit enables such machining as off-center drilling, off-center tapping, milling and rigid tapping.



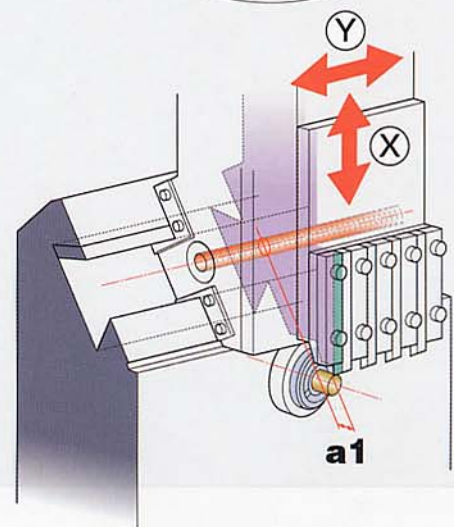
HIGH PRECISION

DESIGN

Star original rigid "slanted dovetail slideway structure" for improved dimensional accuracy and tool life.

The Y-axis slideway of the tool post incorporates a slanted dovetail structure. Because of this, the X- and Y-axis slideways can be arranged in a radial pattern close to the cutting point, increasing machine rigidity. In addition, a straight line, passing through the ball screw center, in parallel with the Y-axis slideway and the cutting point are close to each other (a1), reducing the moment load caused by cutting resistance and improving rigidity.

This enhanced rigidity leads to dynamic stability during cutting, improves dimensional accuracy during long continuous operation, and contributes to the productivity increases.



Standard Machine Specifications

OP : Option

| Item | Specifications |
|-----------------------------------|---|
| Max. machining diameter | φ 10mm (25/64in) |
| Max. headstock stroke | Stationary GB 135mm (5-5/16in) Revolving GB 105mm (4-9/64in) |
| Tool | 6 tools (□8mm) |
| 4-Spindle sleeve holder | Number of tools |
| | Front 4 tools |
| | Rear 4 tools |
| Max. drilling capacity | φ6mm (15/64in) |
| | Max. tapping capacity |
| Power driven att. | Number of tools |
| | Max. drilling capacity |
| | Max. tapping capacity |
| Main spindle min. indexing degree | C-axis control |
| Main spindle speed | Max.15,000min ⁻¹ |
| Main spindle motor | 2.2kw(continuous)/3.7kw(15min.) |
| Rapid feed rate | 35m/min(X, Y, Z, XB, ZB) |
| Power-driven att. spindle speed | Max. 10,000min ⁻¹ |
| Power-driven att. drive motor | 0.5kw |
| Coolant tank capacity | 85 ℓ |
| Dimensions (W×D×H) | 1,865×775×1,695mm |
| Center height | 1,050mm |
| Weight | 1,400kg |
| Power consumption | 3.5KVA |

Standard Accessories and Functions

- | | |
|---|--------------------------------|
| 1. Pneumatic unit | 8. Short circuit breaker |
| 2. Coolant level detector (lower limit) | 9. Backworking Attachment |
| 3. 4-Spindle sleeve holder | 10. Sub spindle air purge unit |
| 4. 3-Spindle cross drilling unit | 11. Parts ejection detector |
| 5. Automatic centralized lubrication unit | 12. Sub spindle air blow unit |
| 6. Door interlock unit | 13. Work light |
| 7. Broken cut-off tool detector | 14. Tool kit (1 Set) |

Optional Accessories and Functions

- | | |
|----------------------------------|--|
| 1. Transformer | 10. 4-Spindle unit for back working (For stationary tools at back) |
| 2. Main spindle inner tube 6mm | 11. Drive unit for the power-driven tool Type B (For power-driven tools at back) |
| 3. Rotary guide bush drive unit | 12. Parts separator unit A |
| 4. Rotary magic guide bush unit | 13. Main spindle clamp unit |
| 5. Air purge unit | 14. Sub spindle clamp unit |
| 6. Coolant flow detector | 15. Transformer CE marking specifications |
| 7. Automatic barfeeder interface | |
| 8. Water removal unit | |
| 9. Tool for maintenance | |

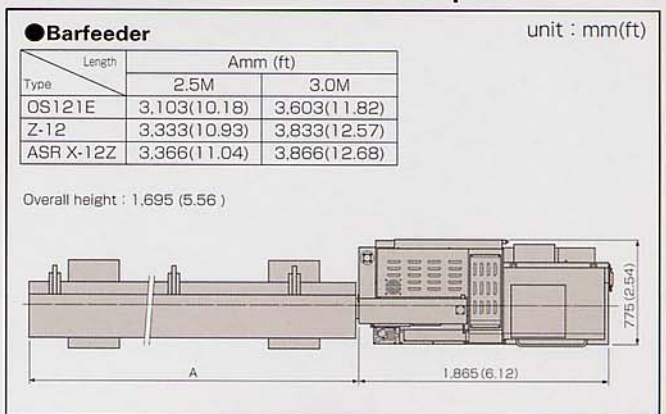
Backworking Attachment Specifications

OP : Option

| Item | Specifications |
|---------------------------------|----------------------------------|
| Max. chucking diameter | φ 10mm (25/64in) |
| Max. length for front ejection | 70mm (2-3/4in) |
| Max. parts projection length | 20mm (25/32in) |
| Back 4-Spindle unit | Number of tools |
| | 4 tools : OP |
| | Max. drilling capacity |
| | Max. tapping capacity |
| Stationary tool | φ 4mm (5/32in) |
| | M3×P0.5 |
| Power driven tool | φ 4mm (5/32in) |
| | M3×P0.5 |
| Sub spindle min. indexing angle | 15° : OP |
| Sub spindle speed | Max. 10,000min ⁻¹ |
| Sub spindle motor | 0.55kw(continuous)/1.1kw(15min.) |

Note)
The above machining capacities apply to SUS303 material.
The machining capacities may differ from listed values depending on the machining conditions, such as the material to be machined or the tools to be used.

External Dimensions and Floor Space



※Design features, specifications and technical execution are subject to change without prior notice.

※This product is an export control item subject to the foreign exchange and foreign trade laws. Thus, before exporting this product, or taking it overseas, contact your STAR MICRONICS dealer.

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