U-630 Advanced

Universal Machining Centre

Mechanical Engineering
Made in Germany

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**Machine Highlights**

Available in 3 configurations
- **U3-630:** 3-axes-version with fixed table
- **U4-630:** 4-axes-version with large rotary table
- **U5-630:** 5-axes-version with integrated rotary/tilting table

- **Tool magazine with up to 122 tools**
- **Large panoramic windows and large access to the working area**
- **Compact dimensions**
- **Crane loading is possible from above**
- **High spindle speeds**
- **Top of machine fully closed**
- **Ergonomic operating panel adjustable in height and angle**

All versions available as U-1530 with enlarged X stroke
Ergonomic
Universal
Dynamic
Highly precise
Productive
5-axes simultaneous machining

Machine Highlights

U3-630 [Fixed table]

U4-630 [Rotary table]

U5-630 [Rotary/Tilting table]

All versions with modern linear guides on rigid cast construction

Clamping table U4-630
Clamping surface on both sides
## Technical data

### Working area

<table>
<thead>
<tr>
<th></th>
<th>U3-630</th>
<th>U4-630</th>
<th>U5-630</th>
</tr>
</thead>
<tbody>
<tr>
<td>X axis</td>
<td>630 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y axis</td>
<td>530 mm</td>
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<tr>
<td>Z axis</td>
<td>465 mm</td>
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### Table

| Table dimensions       | 920 x 540 mm | 410 x 610 mm | Ø 560 mm |
|                       |             |             | Ø 650 / 500 mm |
| Max. table load        | 750 kg      | 400 kg      | 500 kg   |
| T-slots                | 18H8        | 14H8        | 18H8     |

### Axes

| Feed / rapid traverse | 48 m/min |
| Number of simultaneously interpolated axes | 3 (4) |

### Spindle

| Max. speed               | 12.000/15.000 rpm (SK40), 20.000 rpm (HSK63) |
| Performance P max        | 12.000/15.000: 25 kW; 20.000: 28 kW |
| Torque M max             | 12.000/15.000: 135 Nm; 20.000: 100 Nm |

### Tool magazine

| Number of tool stations | 32 (optional 54 / 122) |
| Max. tool diameter      | 76 mm |
| In case of free adjacent tool stations | 130 mm |
| Max. tool length        | 300 mm |
| Max. tool weight        | 7 kg |

### General indications

| Dimensions (L x W x H)  | 2745 x 2420 x 2820 mm |
| Weight                 | ~ 5.500 - 7.100 kg (according to the equipment) |

1) Clamping table, 2) Rotary table, 3) Valid for spindle speed up to 12.000 rpm, toolholder limited to 80 mm in case of spindle speeds >12.000 rpm; 4) See floor plan, 5) Machine net weight
U630-Advanced

**Options**

- Magazine enlargement to 54 or 122 tools
- Chip conveyor or chip box
- Milling spindle with 12,000/15,000 rpm (SK40) 20,000 rpm (HSK63)
- Compressed air through the spindle
- Pallet changer with 5 or 9 pallets
- High pressure coolant 22/70 bar through the spindle
- Clamping table for U4-630
- Siemens 840D-SL
- Heidenhain TNC620/640
- Coolant pistol in the working area
- Direct measuring systems
- Chip conveyor or chip box

**Compressed air**

through the spindle
Compact dimensions for low space requirement

Version with standard chip conveyor
Spinner Machine-Tools are working successfully worldwide with many well-known clients in more than 60 countries on 6 continents. We have been fortunate enough to attract small component suppliers in addition to well-known global groups in all metal machining industries.

We have designed and produced the most modern machine-tools since 1950. More than 20,000 delivered machines demonstrate their high efficiency, precision and reliability, everyday.

Although Spinner is a medium-sized enterprise we produce and sell more than 1,000 CNC machines a year. And the number is increasing every year. Our company combines the know-how of a global player with the flexibility and cost-effective structures of a family owned business.

Place your trust in our products as well and let us know what we can do for you.