

# MCV

Five-axis vertical machining center

## 1100 5X



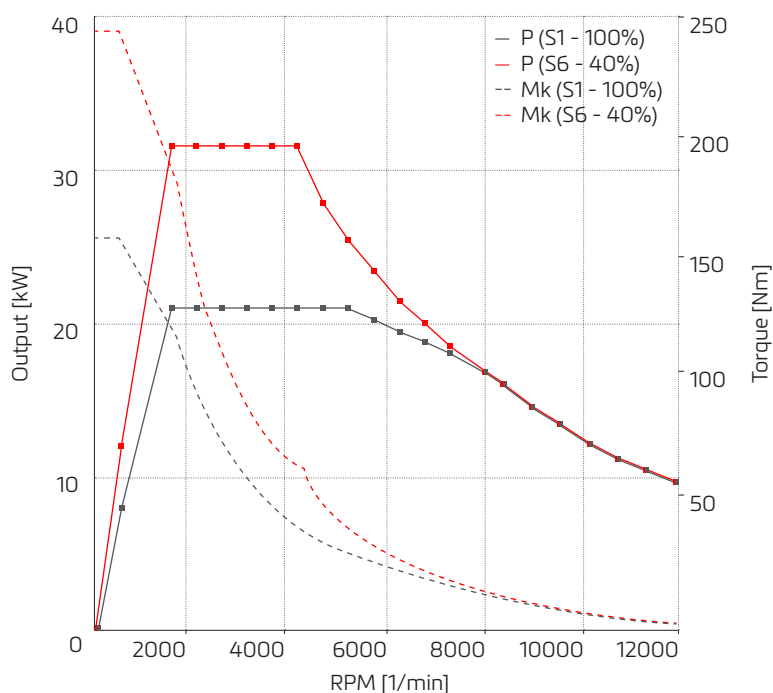
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### MCV 1100 5X

- X / Y / Z – 880 / 650 / 520 mm
- Table diameter: 520 mm
- Max. load on the table: 400 Kg
- Max. spindle speed:  
12 000 min<sup>-1</sup> / 15 000 min<sup>-1</sup>
- Rollers linear guides at Z axis – increase rigidity
- Direct linear scales at each axis
- Up to 40 tools ATC
- Screw chip conveyor – output both sides SDT
- Cell chip conveyor – output both sides CDT

Spindle: 12 000 RPM

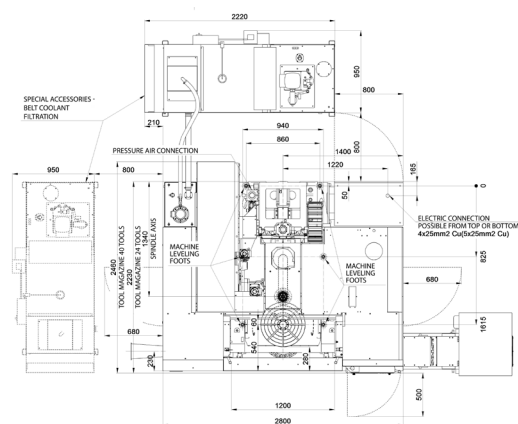
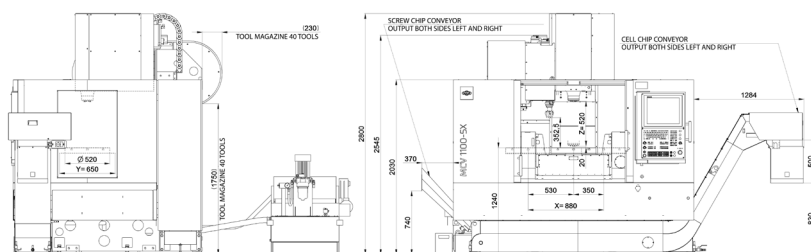


## Technical parameters

|                     |                                                      |                        |                                              |                                  |
|---------------------|------------------------------------------------------|------------------------|----------------------------------------------|----------------------------------|
| Working range       | Table diameter                                       | mm                     | 520                                          |                                  |
|                     | T slots number                                       | ks                     | 8 x 45°                                      |                                  |
|                     | X axis                                               | mm                     | 880                                          |                                  |
|                     | Y axis                                               | mm                     | 650                                          |                                  |
|                     | Z axis                                               | mm                     | 520                                          |                                  |
|                     | A axis (table tilting)                               | ° (Grad)               | ±110                                         |                                  |
|                     | C axis (table turning)                               | ° (Grad)               | 360                                          |                                  |
|                     | Max weight on table                                  | kg                     | 400                                          |                                  |
|                     | Distance from spindle nose to table clamping surface | mm                     | 20 – 540                                     |                                  |
| Spindle             | Spindle taper                                        | ISO 40 DIN 69871-A     |                                              |                                  |
|                     | Max. speed                                           | 1/min                  | 12 000                                       | 15 000                           |
|                     | Spindle drive                                        | belt / transfer 1:1    |                                              |                                  |
|                     | Spindle output                                       | kW                     | S1-100% / S6-40%<br>21,5 / 32,3              | S1-100% / S6-60%<br>24,5 / 36,75 |
|                     | Spindle torque                                       | Nm                     | S1-100% / S6-40%<br>157 / 236                | S1-100% / S6-60%<br>157 / 236    |
| Feed rate           | Measuring X,Y,Z (producer Heidenhain)                | Direct (linear scales) |                                              |                                  |
|                     | Rapid traverse                                       | m/min                  | 30                                           |                                  |
|                     | Working feed rate                                    | m/min                  | 0 – 16                                       |                                  |
| Machine dimension   | Length                                               | mm                     | 2230* (ATC 24 tools)<br>2460* (ATC 40 tools) |                                  |
|                     | Width                                                | mm                     | 2800                                         |                                  |
|                     | Height                                               | mm                     | 2800                                         |                                  |
|                     | Weight                                               | kg                     | 7000                                         |                                  |
| Electric connection | Max. machine working input                           | kVA                    | 40                                           |                                  |
| Control system      | Heidenhain TNC 640, Siemens 840D sl                  |                        |                                              |                                  |

|               |                                 |                        | drum      | chain    |
|---------------|---------------------------------|------------------------|-----------|----------|
| Tool magazine | Magazine capacity               |                        | 24        | 40       |
|               | Max. tool diameter              | Each station occupied  | mm        | 80       |
|               |                                 | Adjacent station empty | mm        | 120      |
|               | Max. tool length                |                        | mm        | 350      |
|               | Max. tool weight                |                        | kg        | 8        |
|               | Max. weight of all tools at ATC |                        | kg        | 110      |
|               | Max change time                 |                        | s         | 4        |
| Chip conveyor |                                 | Type                   | SDT screw | CDT Cell |

## Machine dimension



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