

# Specifications 50 HV

## Performance

|   |                      | Standard    | Option |
|---|----------------------|-------------|--------|
| Drilling capacity in steel<br>E 335 / AISI 1040 | mm                   | 100         | 80     |
| Tapping in steel<br>E 335 / AISI 1040           | M                    | 38          | 30     |
| Milling capacity in steel<br>E 335 / AISI 1040  | cm <sup>3</sup> /min | up to 1,000 |        |

## Main spindle drive (motor spindle)

|                     |     |                       |    |
|---------------------|-----|-----------------------|----|
| Power at 20% c.d.f. | kW  | 56                    | 44 |
| Speed range         | rpm | 8,000/ (up to 12,000) |    |
| Torque max.         | Nm  | 350                   |    |

## Feed rates

|                      |        |                               |  |
|----------------------|--------|-------------------------------|--|
| Feed Z-axis          | N      | 11,000                        |  |
| Feed X-/Y-axis       | N      | 10,000                        |  |
| Rapid traverse speed | m/min  | 30/ (48/80 with linear drive) |  |
| Programmable feed    | mm/min | 30,000/ (48,000/80,000)       |  |

## Tool spindle

|                                  |    |                                      |  |
|----------------------------------|----|--------------------------------------|--|
| Taper                            |    | SK50 - DIN 69 871/72 form A (HSK100) |  |
| with internal cooling (optional) |    | SK50 - DIN 69 871/72 form A (HSK100) |  |
| Spindle diameter                 | mm | 70                                   |  |
| Tool mounting/tightening force   | N  | 25,000                               |  |

## Tool magazine

|                    |    |                       |  |
|--------------------|----|-----------------------|--|
| Capacity           |    | 48/60/80/ (up to 160) |  |
| Tool diameter max. | mm | 118/200               |  |
| Tool length max.   | mm | 460                   |  |
| Tool weight max.   | kg | 25                    |  |

## Tool change

|                    |      | vertical    | horizontal |
|--------------------|------|-------------|------------|
| Tool change time   | sec. | approx. 7.5 |            |
| Chip-to-chip time  | sec. | approx. 9.5 |            |
| Tool pocket coding |      | variable    |            |

## Control

|                  |  |                               |  |
|------------------|--|-------------------------------|--|
| CNC path control |  | BOSCH/Heidenhain/Siemens 840D |  |
|------------------|--|-------------------------------|--|

## Machining area

|                                |    |                       |           |
|--------------------------------|----|-----------------------|-----------|
| X-axis                         | mm | 2,000/ (up to 12,000) |           |
| Y-axis                         | mm | 800/ (up to 1,000)    |           |
| Z-axis                         | mm | 1,100                 |           |
| Distance spindle nose to table |    |                       |           |
| vertical                       | mm | 0 - 1,000             |           |
| horizontal                     | mm | 250 - 1,350           |           |
| Machine table width            | mm | 1,035                 |           |
| T-slots                        |    | 7 x 18H10             | 9 x 18H10 |

## General specifications

|                           |     |    |  |
|---------------------------|-----|----|--|
| Power supply              | kVA | 42 |  |
| Compressed air connection | bar | 6  |  |