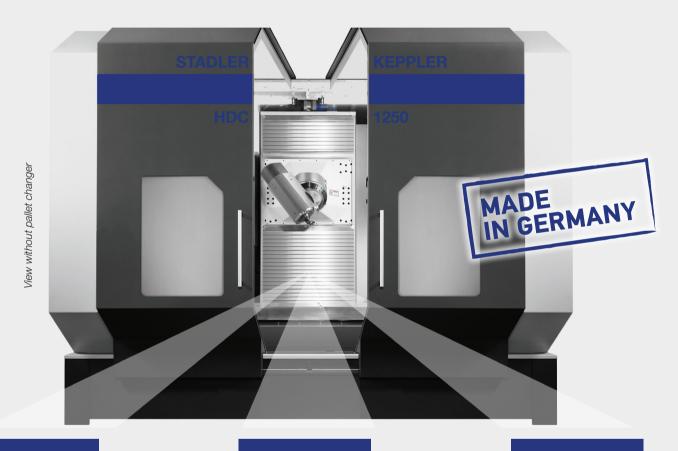
HDC 1250

HIGH DYNAMIC MILLING AND HEAVY MACHINING -

FOR EVERY SCOPE THE BEST SOLUTION





FLEXIBILITY

2-axis-NCUniversal-

milling head

DYNAMIC 5m/s² 50m/min

POWER

Fmax (X/Y/Z)

15.000 N

6-axis

Universal machining centre



Precision and economy in metal

STADLER KEPPLER - synonymous with innovative, efficient solutions and engineering excellence in the field of metalworking for more than five decades. A competent workforce of 100 employees in the Stadler-Group and over 40 dedicated specialist at the facility in Pfullingen, modern machinery, an innovative design department and exemplary quality assurance make us the preferred industry partner. STADLER KEPPLER machines give you a decisive competitive edge.

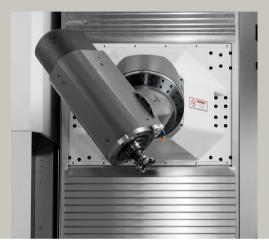
Accompany us after the slogan "fascinating mechanical engineering" on the following sites and dive into the world of Stadler Keppler Maschinenbau.

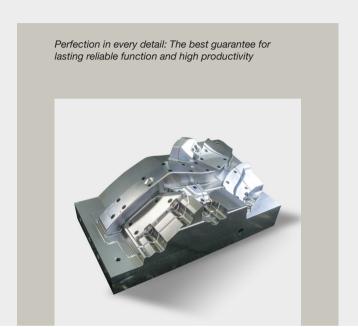




working

High dynamic 2-axis milling head with strong torque motor and absolute value measurement system for universal applications. Available in various spindle version (HSK63 / HSK100 / SK50)





FORESIGHT THAT BRINGS YOU FORWARD

Visionary and always close to the customer. Creative and always one hundred percent practical. The forward-looking STADLER KEPPLER experts understand perfectly how to realise mechanical innovations to meet your specific needs. High-performance technology that allows you to master your challenges - precisely, quickly and reliably.

QUALITY TO BENEFIT YOU

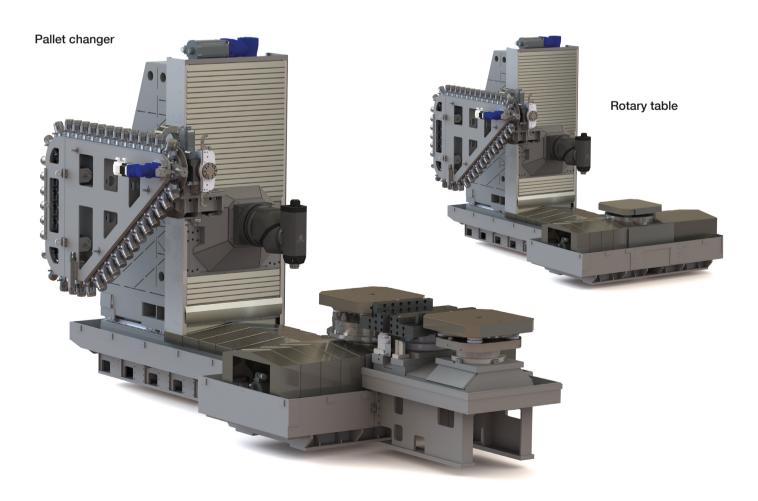
Our products and services are tested according to the most stringent quality standards. In every field, our actions are governed by the zero-defects principle. The result: products which excel in terms of their outstanding availability coupled with a long service life. Absolute customer focus, reliability and fairness are all at the top of the STADLER KEPPLER list of priorities - and the benefit is all yours.

No compromises!

As swabian manufacturer of machine toos stands quality on the first position. Therefore STADLER KEPPLER machines will only be assembled in the production location in Germany. We only use high quality, tried and tested materials and components and there is no compromise in this respect when it comes to the selection of our supplier.

Which philosophy do you prefer?

If high dynamic milling or heavy machining, through a selection of the milling units, the HDC 1250 is universally useable and perfectly fitted for all kind of machining operation.





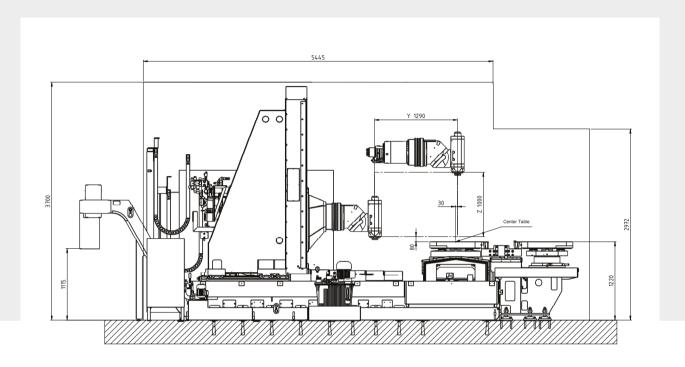
Modul construction kit HDC 1250

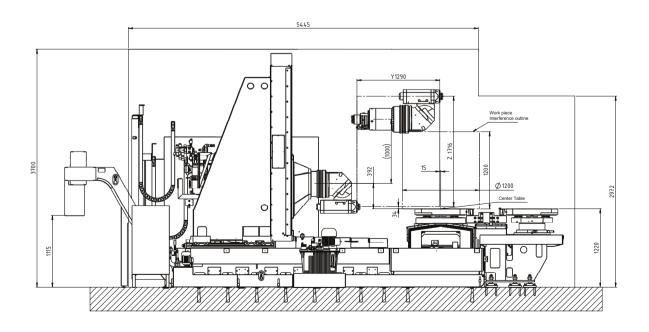
The termo-symetric base construction as well as with mineral cast damped Y-stand and Z-slide offer excellent stability for high dynamic machining. Therefore the HDC 1250 is fitted best for heaviest machining and excellent processing quality.

For even more flexible application ranges, we offer the HDC as a modul construction kit.

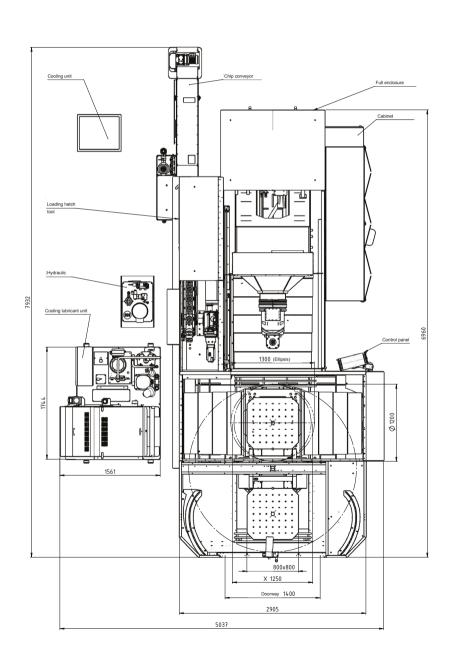


Well equipped for large tasks









Your most successful part prod

When it comes to mould building, precision, versatility and 5-sided machining are paramount. STADLER KEPPLER machines provide truly impressive results in every one of these areas, coupled with outstanding capabilities. Because this 5-axis universal machining centre was designed to address the specific demands of this sector - which naturally also include high machining speeds and an attractive price tag.

Options:

- Full enclosure
- Table load up to 3 t
- Chip conveyor in Y-bed (upgradeable)
- Temperature compensation of the motor spindle
- Internal cooling feedthrough through spindle increase to 60 bar
- Maintenance free oil emulsion separator for full enclosure
- Blower through spindle centre
- External blower
- Spray- / Blowing gun
- Minimal quantity lubrication through spindle
- Work piece measurement system (sensing device)
- Tool breakage monitoring
- Tool coding
- Rotating viewing window
- Track flushing
- Manual operating modul
- Horizontal gear spindle with up to 2.500 Nm
- Rotary table with customer specific dimensions
- Cooled bearing seat
- Kinematic measuring of the rotary axis
- Special designs according to customer specification



uction ever

Machine table

- Rotary table with maintenance free torque drive
- high load up to 3 t
- Multi-side machining in only one clamping
- beneficial chip drop at horizontal roughing

simultanous 5-axis machining

High rapid traverse speeds up to 50 m/min

Milling head

- 1-axis milling head (S6) 525 Nm HSK 100
- 2-axis milling head (S6) 220 Nm HSK 100
- 2-axis milling head (S6) 140 Nm HSK 100 / HSK 63
- Horizontal spindle (S6) 526 Nm HSK 100
- additional spindle-, head-types according to customer specifications

Direct measurement system

Tool magazine

- full automatic machining with 40/60/80/100 tools
- Optional up to 800 mm long tools

Mineral cast damped Y-stand and Z-slide

- Excellent stability for high dynamic machining

Guiding system (X-, Y-, Z-axis)

- Roller-linear guidance system preclamped, central lubricated

Size X, Y, Z 55
Carriage (X-axis) 6 pcs.
Carriage (Y-axis) 4 pcs.
Carriage (Z-axis) 4 pcs.

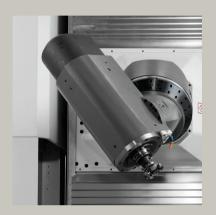
Axle drive (X-, Y-, Z-axis)

- Precision ball screw, preclamped, central lubricated

Diameter x gradient (X-, Y-axis) 60 x 40 Diameter x gradient (Z-axis) 80 x 40

Standard

- Water cooled direct drive motor
- Water cooled cabinet with central cooling unit (maintenance free)
- Y-axis prepared for retro fitting chip screw







Control, operation and maintenance

By selection of the control system, STADLER KEPPLER relies on high quality. So you can run your HDC either with Heidenhain or Siemens control.

Dynamic und efficiency

- Latest installation technique
- Best accessability
- Minimal maintenance effort

- Long life cycle
- Standardized user interface.
- Solid machine technique



Siemens 840 D SL



Heidenhain TNC 640

Additional range of functions

- Pallet- / work piece monitoring
- Master computer connection over EthernetTool monitoring
- 24/7 remote access / machine monitoring
- Process monitoring
- Updates / trainings



Impressive data

| Morking range | TECHNICAL DATA | PALLET CHANGER | ROTARY TABLE |
|--|---|--------------------|--------------------|
| 1,290 | Working range | | |
| Z-axis (mm) | X-axis (mm) | 1.250 | 1.250 |
| Machine table Table size (mm) | Y-axis (mm) | 1.290 | 1.290 |
| Table size (mm) | Z-axis (mm) | 1.000 | 1.000 |
| Interference cycle | Machine table | | |
| Load capacity (kg) Pallet change time (s) Peed rate max. rapid traverse speed XYYZ (m/min) max. axis acceleration XYYZ (m/s*) max. axis acceleration XYYZ (m/s*) pax. teaf broc XYYZ (N) 15.000 2-axis-NC-milling head - technical data Slewing range A-axis Slewing range B-axis | Table size (mm) | 800 x 800 | 800 x 800 |
| Pallet change time (s) | Interference cycle | Ø 1.200 | Ø 1.400 |
| Feed rate max. rapid traverse speed XY/Z (m/min) max. axis acceleration XY/Z (m/s) 5 5 5 5 max. feed force XY/Z (N) 15.000 15.000 2-axis-NC-milling head - technical data Slewing range A-axis Slewing range B-axis 4-185° Slewing range B-axis H-200° Main drive motor spindle HSK100 / SK50 Rated power \$1 / 56 (kM) 160 / 220 160 / 220 max. rotational speed (rpm) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated torque \$1 / 56 (km) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated power \$1 / 56 (km) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated power \$1 / 56 (km) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated power \$1 / 56 (km) 10.000 (16.000) Doption: Rated power \$1 / 56 (km) 10.000 (16.000) Rated power \$1 / 56 (km) 10.000 (10.000) 2-axis-NC-milling head - technical data Slewing range A-axis Slewing range B-axis 1-185° 1-185° Slewing range B-axis 1-200° Maindrive motor spindle HSK100 / HSK63 Rated power \$1 / 56 (kM) 1277 / 140 1277 / | Load capacity (kg) | 1.250 (opt. 2.000) | 1.500 (opt. 3.000) |
| max. rapid traverse speed XV/Z (m/s) 50 max. xis acceleration XV/Z (m/s) 5 max. sis acceleration XV/Z (m/s) 15.000 2-axis-NC-milling head - technical data Slewing range A-axis +- 185° Slewing range B-axis +- 200° Main drive motor spindle HSK100 / SK50 Rated power S1 / S6 (kW) 34 / 43 34 / 43 Rated power S1 / S6 (kW) 34 / 43 34 / 43 Rated power S1 / S6 (kW) 160 / 220 160 / 220 max. rotational speed (rpm) 10.000 (16.000) 10.000 (16.000) Horizontal Spindle - technical data Maintive motor spindle HSK100 / SK50 Rated power S1 / S6 (kM) 50 / 65 50 / 65 Rated power S1 / S6 (kW) 80 / 100 80 / 100 Rated power S1 / S6 (kW) 80 / 100 80 / 100 Rated power S1 / S6 (kW) 80 / 100 80 / 100 Rated power S1 / S6 (kW) 40 / 80 / 80 / 80 + 185° Silveing range A-axis + 200° < | Pallet change time (s) | 13 | - |
| max. axis acceleration XV/Z (m/s²) 5 5 max. feed force XV/Z (N) 15.000 15.000 2-axis -NC-milling head - technical data Slewing range A-axis +- 185° +- 185° Slewing range B-axis +- 200° +- 200° Main drive motor spindle HSK100 / SK50 Rated power S1 / S6 (kW) 34 / 43 34 / 43 Rated torque S1 / S6 (kW) 160 / 220 160 / 220 max. rotational speed (rpm) 10.000 (16.000) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated power S1 / S6 (kW) 50 / 65 50 / 65 Rated torque S1 / S6 (kW) 50 / 65 50 / 65 Rated torque S1 / S6 (kW) 80 / 100 80 / 100 Rated power S1 / S6 (kW) 80 / 100 80 / 100 Rated torque S1 / S6 (kW) 80 / 100 80 / 100 Rated torque S1 / S6 (kW) 1.270 / 1.590 1.270 / 1.590 Rated torque S1 / S6 (kW) 42 / 55 | Feed rate | | |
| Description | max. rapid traverse speed X/Y/Z (m/min) | 50 | 50 |
| 2-axis-NC-milling head - technical data | max. axis acceleration X/Y/Z (m/s²) | 5 | 5 |
| Slewing range A-axis | max. feed force X/Y/Z (N) | 15.000 | 15.000 |
| Slewing range B-axis | 2-axis-NC-milling head - technical data | | |
| Main drive motor spindle HSK100 / SK50 844 day 34 / 43 34 / 43 Rated torque S1 / S6 (Nm) 160 / 220 160 / 220 max. rotational speed (rpm) 10.000 (16.000) 10.000 (16.000) Horizontal spindle - technical data Main drive motor spindle HSK100 / SK50 Rated power S1 / S6 (kW) 50 / 65 Rated torque S1 / S6 (Nm) 405 / 526 405 / 526 max. rotational speed (rpm) 8.000 8.000 Option: Rated borque S1 / S6 (Nm) 1.270 / 1.590 1.270 / 1.590 Rated torque S1 / S6 (Nm) 1.270 / 1.590 7.000 Paxis Horizonal data Slewing range A-axis + - 185° + - 185° Slewing range B-axis + - 200° + - 200° Maindrive motor spindle HSK100 / HSK63 Rated torque S1 / S6 (Nm) 127 / 140 127 / 140 max. rotational speed (rpm) 16.000 16.000 Tool magazine - Chain Tool change time (s) 40 / 60 / 80 / 100 40 / 60 / 80 / 100 | | | |



We provide an investment secure, efficient, individual and absolute reliable solution - worldwide!



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