HDC 3000

LEADING MOULD BUILDING AND MECHANICAL ENGINEERING





FLEXIBILITY

2-axis-NC-Universalmilling head **DYNAMIC**

4m/s² 45m/min with dynamic package **POWER**

Fmax (X/Y/Z) 15.000 N

5-/6-axis

Universal machining centre



Precision and economy in metal

STADLER KEPPLER - synonymous with innovative, efficient solutions and engineering excelence 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.

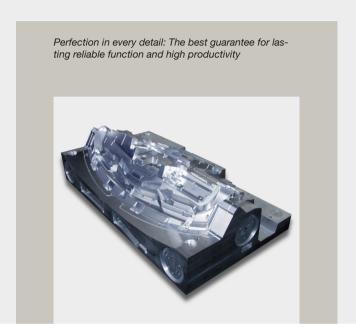




working

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

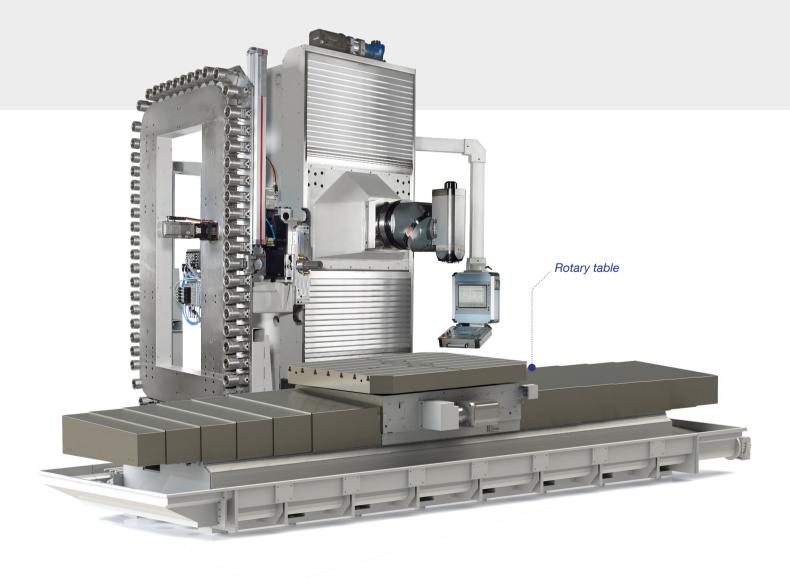
Visionary and always close to the customer. Creative and always one hundred percent practical. The forward-looking STADLER KEPPLER experts understand perfectly how to realise mechanical innovations to meet your specific needs. High-performance technology that allows you to master your challenges - precisely,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

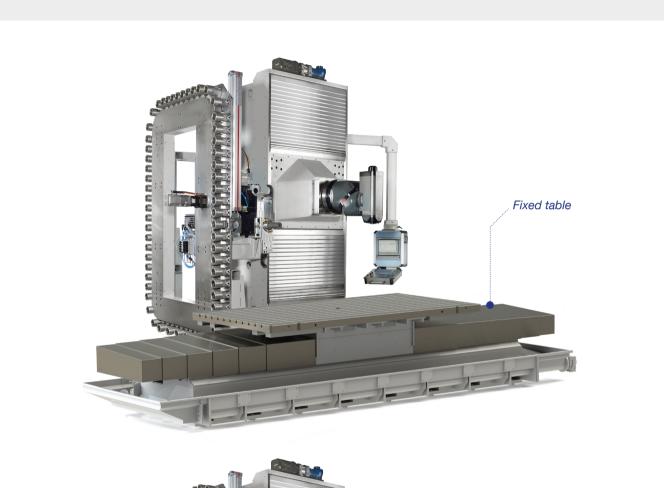
Created for demanding mould

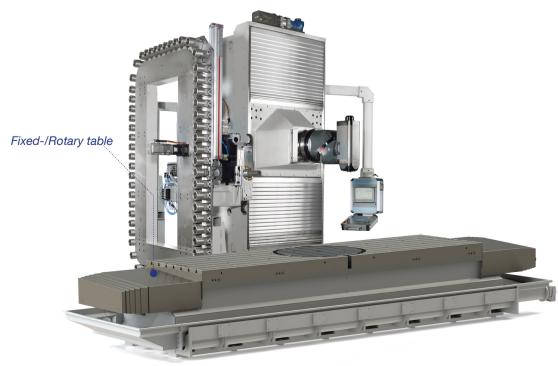
Flexibility meets efficiency - a fitting description for this technical masterpiece from STADLER KEPPLER. Modern design, impressive performance data and an excellent cost-to-performance ratio makes this 6-axis universal machining centre the perfect solution when it comes to precisely machining parts for the mechanical engineering industry.



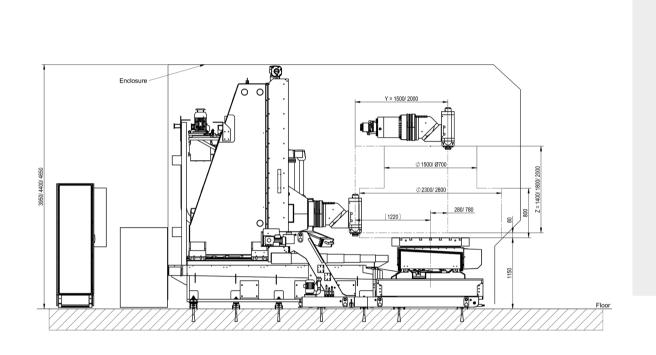


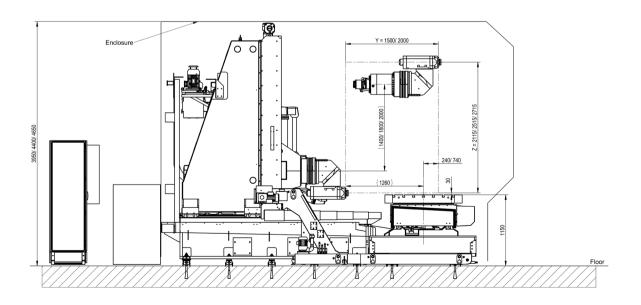
building and mechanical engineering



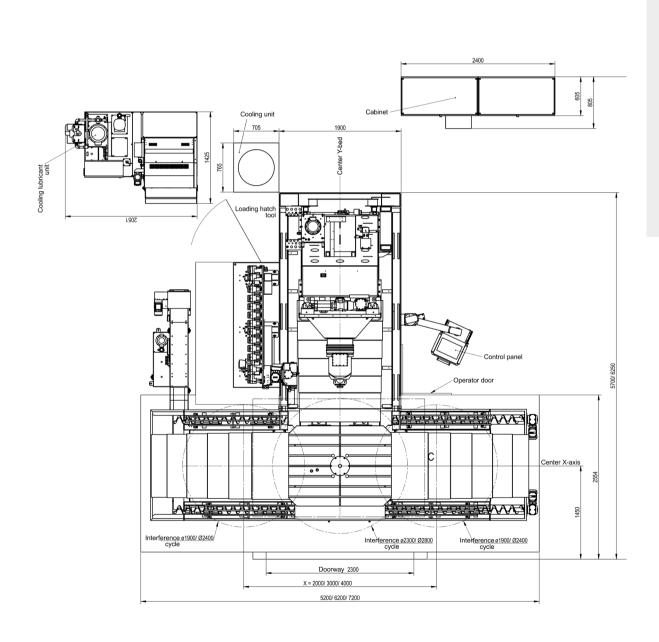


Well equipped for large tasks









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 10 t
- Increase of interference cycle up to Ø 3.600 mm
- Chip conveyor in Y-bed (upgradeable)
- Dynamic package 45m/min, 4 m/s², rack and pinion drive X-axis, reinforced drive Y, Z-axis
- 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
- Multi pallet changing system
- Media interface table center
- Zero-point clamping system
- Special designs according to customer specification



uction ever

Machine table

- Rotary table with worm gear drive, high dynamic twin drive or maintenance free torque drive
- -high load up to 10 t
- Multi-side machining in only one clamping
- beneficial chip drop at horizotal roughing

simultanous 5-axis machining

High rapid traverse speeds up to 50m/min

Milling head

- -1-axis-NC milling head 525 Nm (S6), 7.000 rpm
- -2-axis-NC milling head 220 Nm (S6), 10.000 rpm
- -HSK100 / SK50
- -2-axis-NC milling head 140 Nm (S1), 15.000 rpm
- -HSK 63 / HSK 100
- additional spindle-, head-types according to customer specification

Direct measurement system

- Heidenhain, pressurized air

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

Tool magazine

- Chain magazine with 40 / 60 / 80 / 100 tools
- Rack magazine bigger 100 tools according to customer specification

Machine bed in welded design

- Rigid basic body with high mechanical and thermal stability for highest precision
- Constant load spreading for steady foundation load
- Inherently stable at high static and dynamic stress
- Weight reduced ribbing for an optimized stiff to mass ratio

Standard

- Water cooled direct drive motor
- Water cooled X-axis bearing
- Water cooled cabinet with central cooling unit (maintenance free)
- Y-axis prepared for retro fitting chip screw
- Tool length ~ 800 mm







Additional individual machine designs are possible. Please contact us. Technical specifications are subject to change.

Path control Optional

Impressive data

TECHNICAL DATA

TECHNICAL DATA	ROTARY TABLE
Working range	
X-axis (mm)	2000 / 3000 / 4000
Y-axis (mm)	1500 / 2000 / 2500
Z-axis (mm)	1400 / 1800 / 2000
Machine table	
Table size (mm)	1250 x 1600
Interference cycle	Ø 2.300 / Ø 2.800 / Ø 3.600
Load (kg)	4000 / 6000 / 10000
Rotational speed (rpm)	10
Integrated rotary table (mm)	-
Load (kg)	
Feed rate	
max. rapid traverse speed X/Y/Z (m/min)	27 / 30 / 30 / 45 (Dynamic-Package)
max. programmable feed X/Y/Z (mm/min)	27000 / 30000 / 30000 / 40.000 (Dynamic-Package)
2-axis-NC-milling head - technical data	3,000
Slewing range A-axis	+- 185°
Slewing range B-axis	+- 200°
Main drive motor spindle HSK 100 / SK 50	
Rated power S1 (kW)	34
Rated torque S1 (Nm)	160
Power S6 (kW)	43
Torque S6 (Nm)	220
Nominal speed (rpm)	2000
max. speed (rpm)	10000
1-axis-NC-milling head - technical data	
Slewing range A-axis	+- 185°
Main drive motor spindle HSK 100 / SK 50	
Rated power S1 (kW)	42
Rated torque S1 (Nm)	400
Power S6 (kW)	55
Torque S6 (Nm)	525
Nominal speed (rpm)	1000
max. speed (rpm)	7000
2-axis-NC-milling head - technical data	
Slewing range A-axis	+- 185°
Slewing range B-axis	+- 200°
Main drive motor spindle HSK 100 / HSK 63	
Rated power S1 (kW)	40
Rated torque S1 (Nm)	130
Power S6 (kW)	43
max. speed (rpm)	16000
Tool magazin - Chain	
Tools	40 / 60 / 80 / 100
Tool change time (s)	16
Max. tool length (mm)	800 / 1000
Rack magazine < 100 tools according to customer specif	fication
Tool change time (s)	16
Control	

ROTARY TARLE

Heidenhain TNC 640

Siemens 840D SL



FIXED TABLE

Heidenhain TNC 640

Siemens 840D SL

FIXED TABLE WITH INTEGRATED ROTARY TABLE

0000 / 0000 / 4000	0000 / 0000 / 4000
2000 / 3000 / 4000	2000 / 3000 / 4000
1500 / 2000 / 2500	1500 / 2000 / 2500
1400 / 1800 / 2000	1400 / 1800 / 2000
2100 x 1200 / 3100 x 1200 / 4000 x 1200	2100 x 1200 / 3100 x 1200 / 4000 x 1200
Ø 2.300 / Ø 2.800	Ø 2.300 / Ø 2.800
6000 / 10000	6000 / 10000
00007 10000	
•	40
-	Ø 1000
-	4000
27 / 30 / 30 / 45 (Dynamic-Package)	27 / 30 / 30 / 45 (Dynamic-Package)
27000 / 30000 / 30000 / 40.000 (Dynamic-Package)	27000 / 30000 / 30000 / 40.000 (Dynamic-Package)
4050	4050
+- 185°	+- 185°
+- 200°	+- 200°
34	34
160	160
46	43
220	220
2000	2000
10000	10000
1050	4050
+- 185°	+- 185°
42	42
400	400
55	55
525	525
1000	1000
7000	7000
195°	. 195°
+- 185°	+- 185°
+- 200°	+- 200°
40	40
130	130
43	43
16000	16000
40 / 60 / 80 / 100	40 / 60 / 80 / 100
16	16
800	800
16	16
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Heidenhain TNC 640

Siemens 840D SL



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



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