

The DMU P/FD  
duoBLOCK®-series



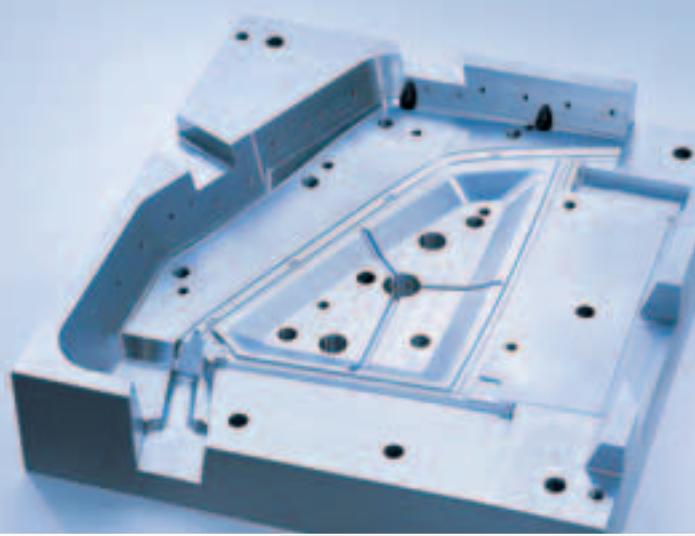
## DMU P duoBLOCK®: a new definition of the universal milling machine

The machines of the DMU P-series with the new duoBLOCK®-concept ensure highly precise manufacturing with exceptional machine service-life.

They are universal milling machines with the performance and construction of machining centres. The sturdy duo-BLOCK®-construction leads to maximum precision combined with the highest dynamics.

In addition to boring and milling, the FD-machines permit turning in only one setup. Modern engineering, sensible technology, fully-fledged performance and a fast tool changer all contribute to making these machines a profitable investment. They are also capable of 5-sided and 5-axis machining.





Simple or complex parts –  
machined efficiently with the  
highest precision.



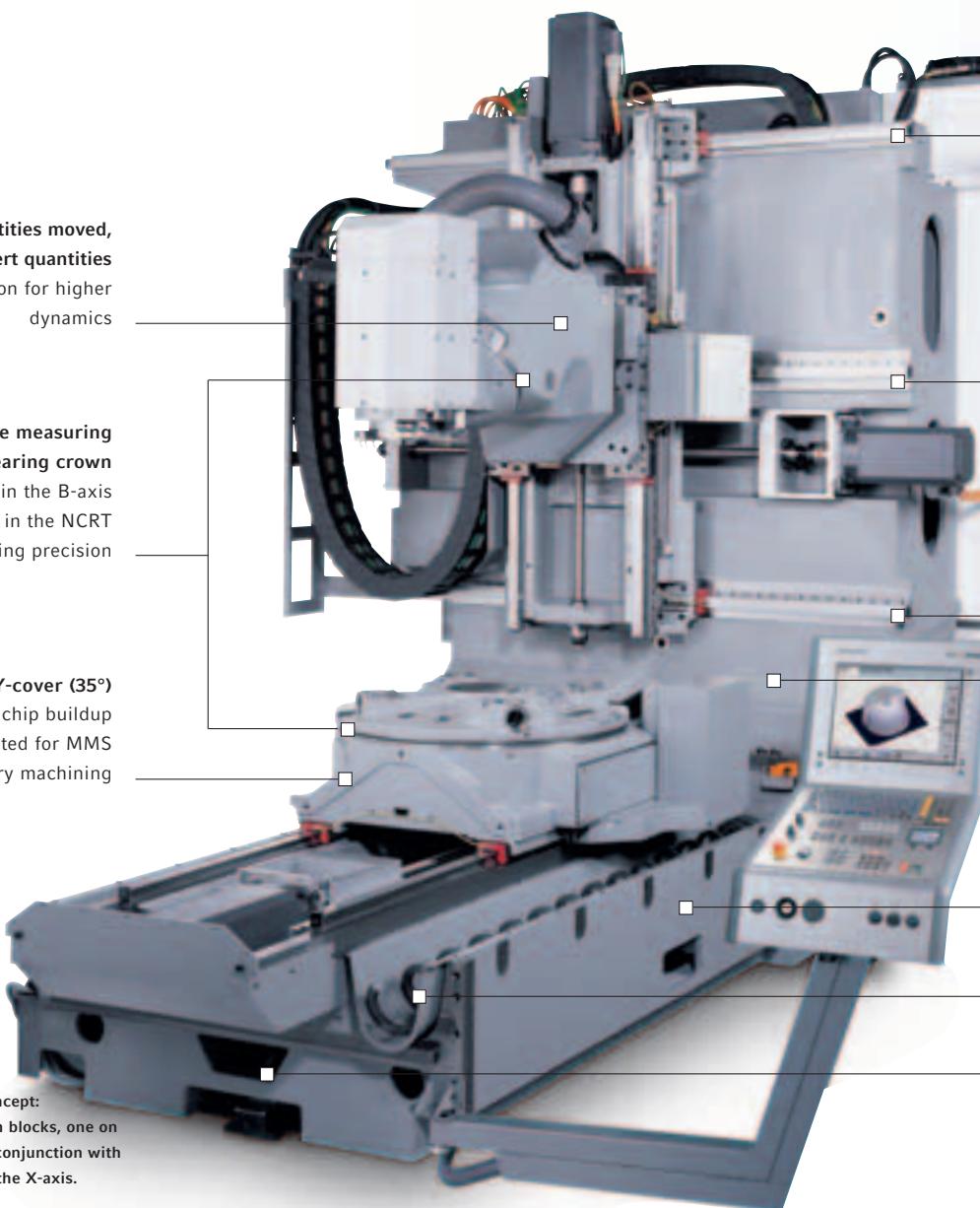
## The duoBLOCK®-concept – the innovation for high speeds and accuracy

**50% fewer quantities moved,  
100% more inert quantities  
= the foundation for higher  
dynamics**

**Contact-free measuring  
at the bearing crown  
at ø 260 mm in the B-axis  
at ø 460 in the NCRT  
= highest measuring precision**

**Steep Y-cover (35°)  
no chip buildup  
best suited for MMS  
or dry machining**

**The duoBLOCK®-concept:**  
Two sturdy cast-iron blocks, one on  
top of the other, in conjunction with  
three guideways in the X-axis.



**Three guideways in the X-axis**

= continuous rigidity across the Z-traverse path



Illustrations at top:  
Liquid-cooled main- and feed  
drives, direct measuring system  
in the YRTM-bearing at the NC-  
rotary table.

**GGG 60-quality materials**

Higher stability and damping  
capabilities

= longer tool service life

**Augers are insulated from the bed**

to protect them against heat from KSS  
and chips do not contaminate the bed  
= higher precision

**Thermo-symmetrical design,**

minimal deformation, better  
temperature compensation  
= higher precision

## DMU 80/100/125/160 P duoBLOCK® – the efficient all-purpose machines

With chip-to-chip times of up to 4.5 seconds and increased precision, these new universal milling machines set new benchmarks in 5-axis machining for work areas measuring between 800 x 800 x 800 mm to 1,600 x 1,250 x 1,000 mm.

With a combination of the patented duoBLOCK®-concept and the highly precise NC-rotary table, both of these DMG novelties make an impact with their dynamic performance and increased precision. The direct measuring system, which is integrated into the bearing of

the rotary table and the B-axis (universal milling head), delivers the greatest possible precision in the rotary axes. The performance data is impressive: 60 m/min rapid traverse in the linear axes, up to 35 rpm in the rotary axes, and a maximum tool length of 650 mm (DMU 160 P). But performance can be increased even further, with comprehensive optional packages tailored to your needs, such as an A- / B-axis, a B-axis transmission alternative (5X torqueMASTER®) with up to 1,100 Nm, or ATC-software.



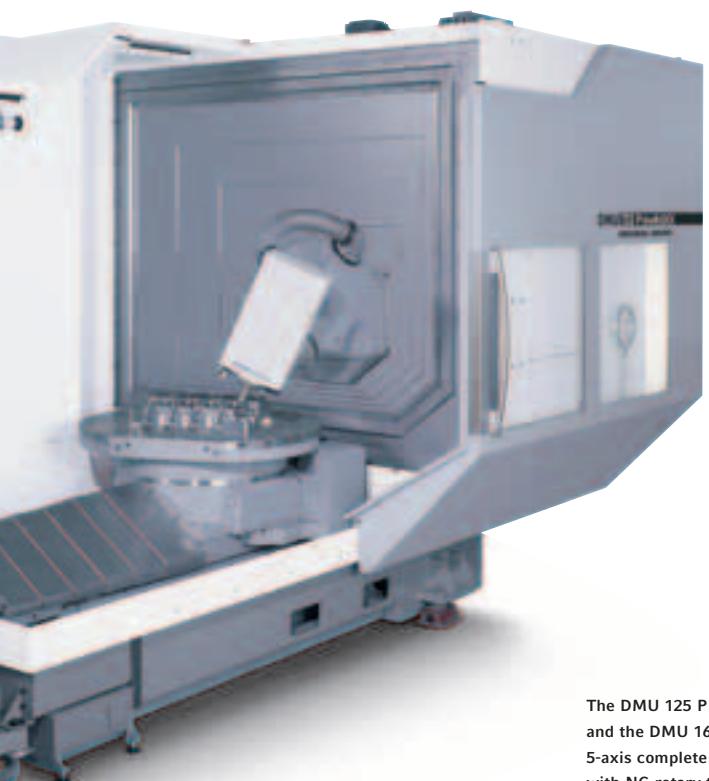
Illustration on the left:  
Chain magazine with 40 pockets,  
expandable to an optional  
180 magazine pockets.

Illustration on the left:  
Tool magazine for tools with lengths  
up to 650 mm and weights up to  
30 kg (DMU 160 P).

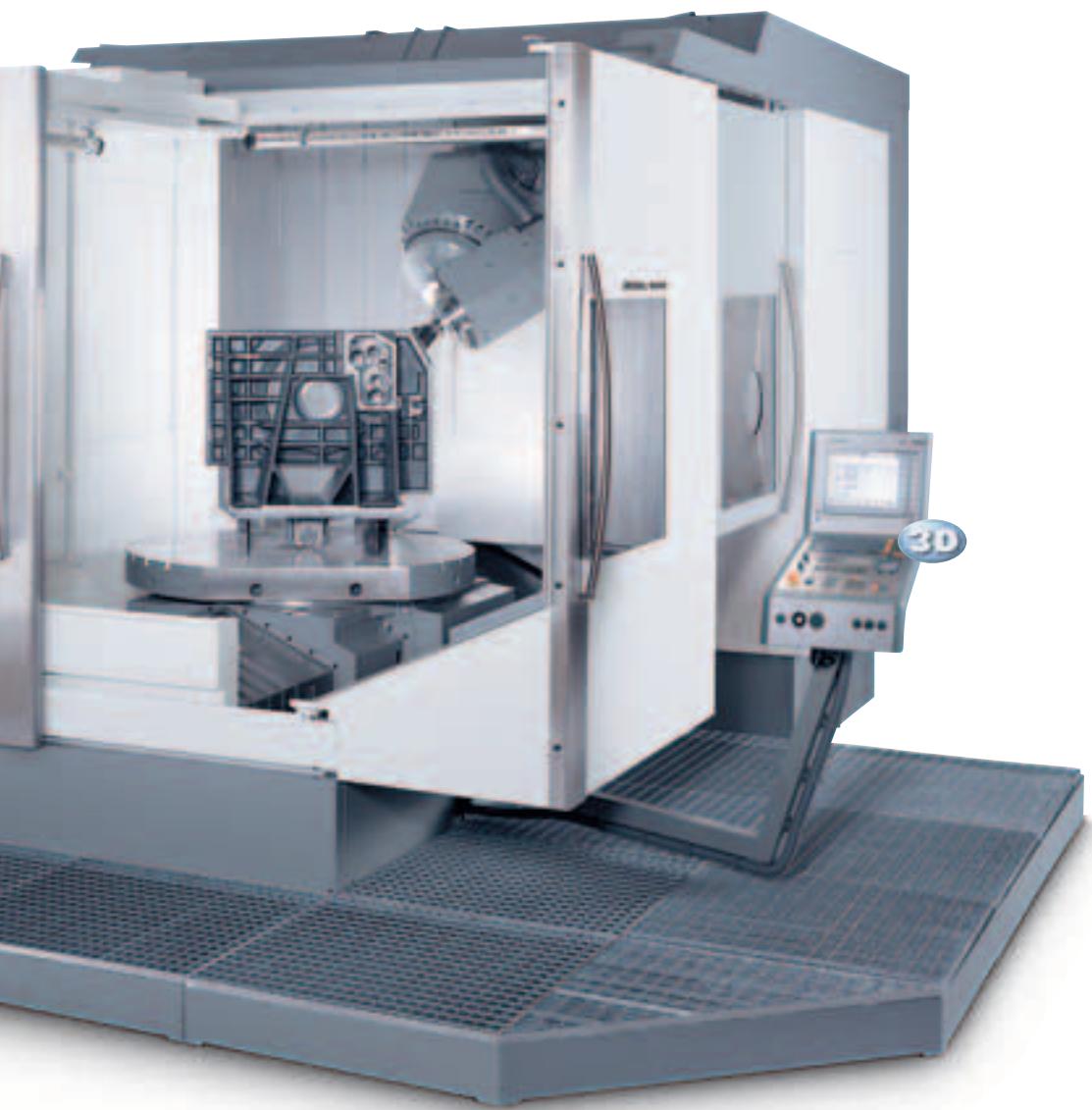


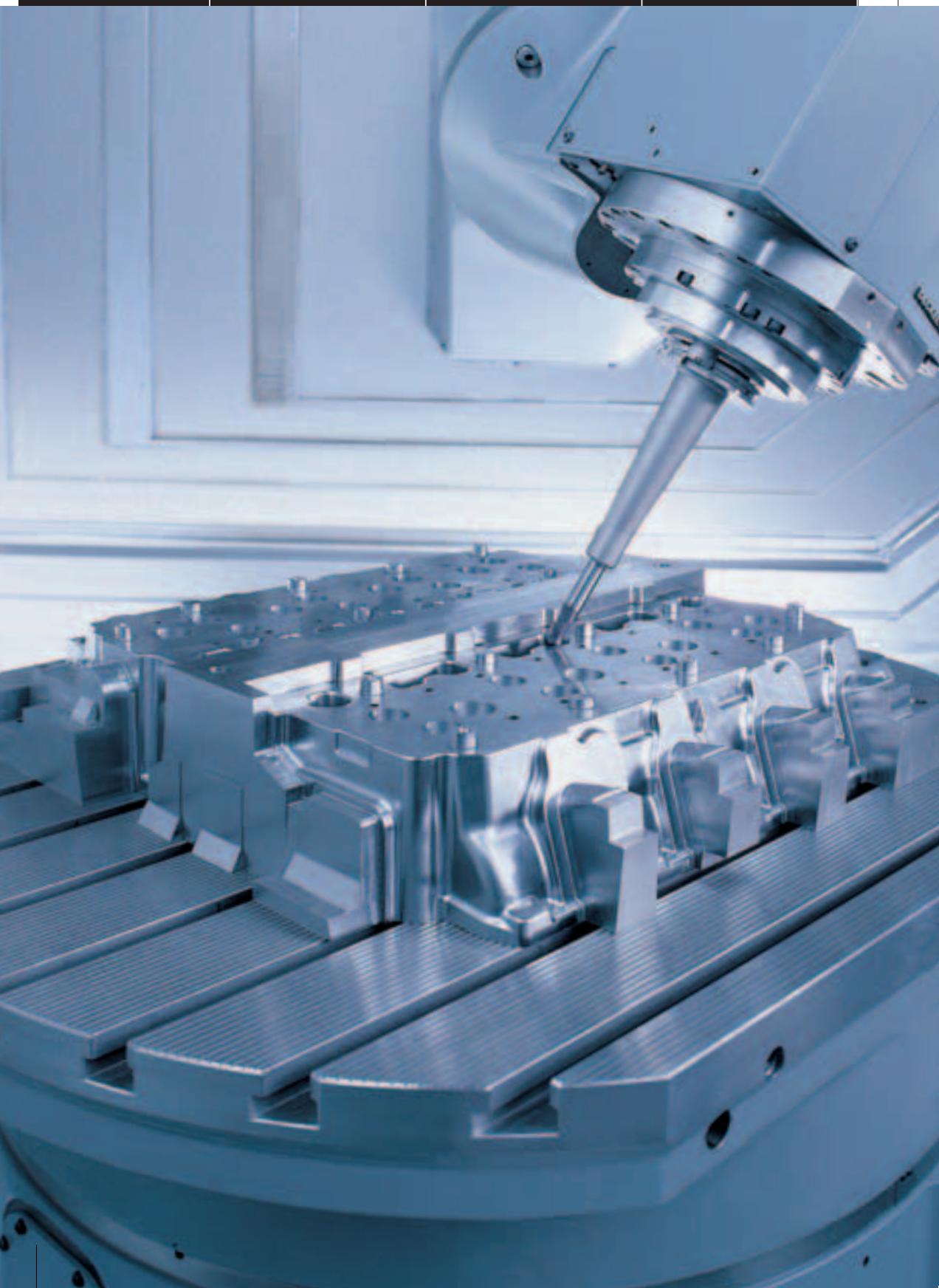


On the left:  
5-axis machining with B-axis.



The DMU 125 P duoBLOCK®  
and the DMU 160 P duoBLOCK®:  
5-axis complete machining  
with NC-rotary table (30 rpm).





**Illustrations above, left to right:**

Swivel milling-head as a B-axis or A-axis for simultaneous 5-axis machining. These can be equipped with various spindle options, up to 18,000 rpm or up to 1,100 Nm. Coolant supply through the spindle core.



Simple monitoring and correction of axis-precision in the work area.

- Eject status available at any time
- Easy handling by the operator

**On the left:**

The power-spindle (5X torqueMASTER®) with up to 1,100 Nm and 8,000 rpm for powerful milling as a controlled B-axis.

## Added value options – Expansion modules according to your needs

The DMU P Series machines feature a pivoting motor spindle with a rotational speed up to 12,000 rpm. (optional 18,000 rpm. SK40, or 10,000 rpm. SK50). The spindles are permanently liquid-cooled and are equipped with an internal cooling supply.

The spindle delivers 28 kW at 40% DC, which makes it ideally suitable for advanced cutting materials. The 12,000 rpm, 18,000 rpm or 10,000 rpm motor spindles are equipped with smart sensors to avoid stress from vibration, offering controlled process safety. The

swivel motion is completed in 4 seconds (SK40) with a repeat accuracy of  $\pm 0.001$  mm!

Alternatively, a configuration with a modular drive and an integrated 2-gear transmission is available for speeds up to 8,000 rpm. and a maximum torque of 1,100 Nm.

The standard-equipped tool changer with a fast double gripper achieves chip-to-chip times of 4.5 seconds (horizontal). The tool magazine with up to 354 magazine pockets increases productivity with a batch-setup of 2 x 30 tools through the rotating wall and a

setup station for 3 + 3 tools.

The duoBLOCK® Series offers universality in every detail – apart from the universal milling head as a driven A or B-axis combined with the fast NC-rotary table, the new NC-swivel rotary table opens up new possibilities for 5-axis machining. High

precision, powerful torque and direct rotary measuring systems in both axes are features that set the swivel rotary table apart.

Extensive additional equipment and customized options round off the package, and turn your machine into a custom-made and tailored investmen.

On the right:

NC-rotary table with a swivel range of -25° to +120° and 35 rpm. rapid traverse. Tool measurement in the work-area via laser beam (optional, from Blum Production Metrology). Shelf magazine that is expandable with a tool setup wall, for sets of 2 x 30 tools.



## DMU 80 / 125 / 160 FD duoBLOCK®: milling and turning with one machine

The DMU FD machines combine both milling and turning technology in one machine. They are designed on the basis of a universal milling machine. Direct Drive-technology powers the milling-turning table at speeds up to 800 rpm. With a torque of 4,160 Nm, the table handles a wide spectrum of milling and turning applications for large and bulky workpieces. The turning tools reach the workpiece through the milling head. Rotational

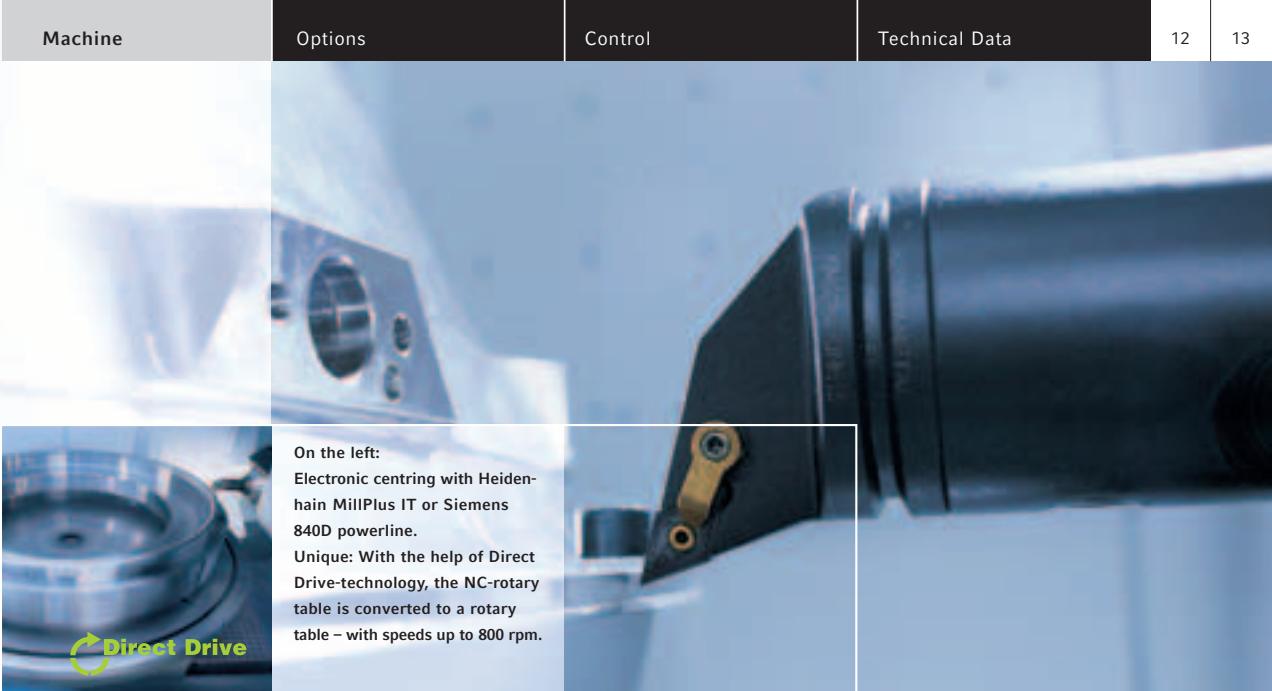
speeds up to 800 rpm (DMU 80 FD) open up a wide range of standard applications. Even large and heavy workpieces up to 3,000 kg (DMU 160 FD) can be machined completely – in one setup - saving time and increasing accuracy. The milling functions of the DMU FD-machines are equivalent to those of the DMU P-series. The DMU-FD machines are capable of simultaneous 5-axis and 5-sided machining, due to a universal pivot head func-

tioning as NC-controlled B-axis, which can be pivoted without increments – to any horizontal or vertical position. The turning features of the DMU FD-series make them especially valuable for heavy and bulky workpiece applications.



On the left:  
Vertical turning, horizontal  
turning, and vertical- or horizontal  
milling, all in one setup!







#### Heidenhain iTNC 530\*

##### Highlights – your benefits:

- \_ Workshop- or DIN-ISO programming
- \_ 3D tool representation
- \_ Graphic programming
- \_ Tool management
- \_ Fast program creation through plain text programming
- \_ Extensive cycle selection
- \_ DECKEL MAHO spindle sensor technology
- \_ DECKEL MAHO-ATC (optional)

\* not for FD-machines

#### Heidenhain MillPlus IT

##### Highlights – your benefits:

- \_ Easy-to-operate
- \_ Contour programming
- \_ Measuring cycles
- \_ Fast batch-processing
- \_ High operator-comfort through familiar DIN-ISO programming
- \_ Clear layout of the graphical user-interface
- \_ DECKEL MAHO spindle sensor technology
- \_ DECKEL MAHO-ATC (optional)

#### Siemens 840D powerline

##### Highlights – your benefits:

- \_ ShopMill with 3D graphics
- \_ Fast network connections
- \_ Processing from the hard drive
- \_ Fast editing of large programs
- \_ Simple, visually-supported setup
- \_ Extensive tool management
- \_ Easy, interactive programming

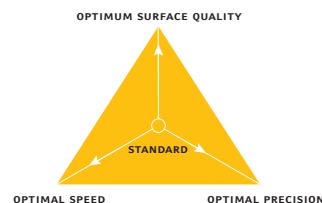
## ATC: Tuning of the feed-drives at the press of a button



Three settings (surface, speed, precision) are available from anywhere within the workpiece program.

**Your benefit:** Minimum machining time combined with maximum quality (programming available in relation to workpiece weight).

**LEAVE THE ORDINARY BEHIND AND ACHIEVE THE OPTIMUM:** Adjust machining performance to desired parameters.



## DMG ControlPanel with 15" TFT screen and three control options with 3D-software

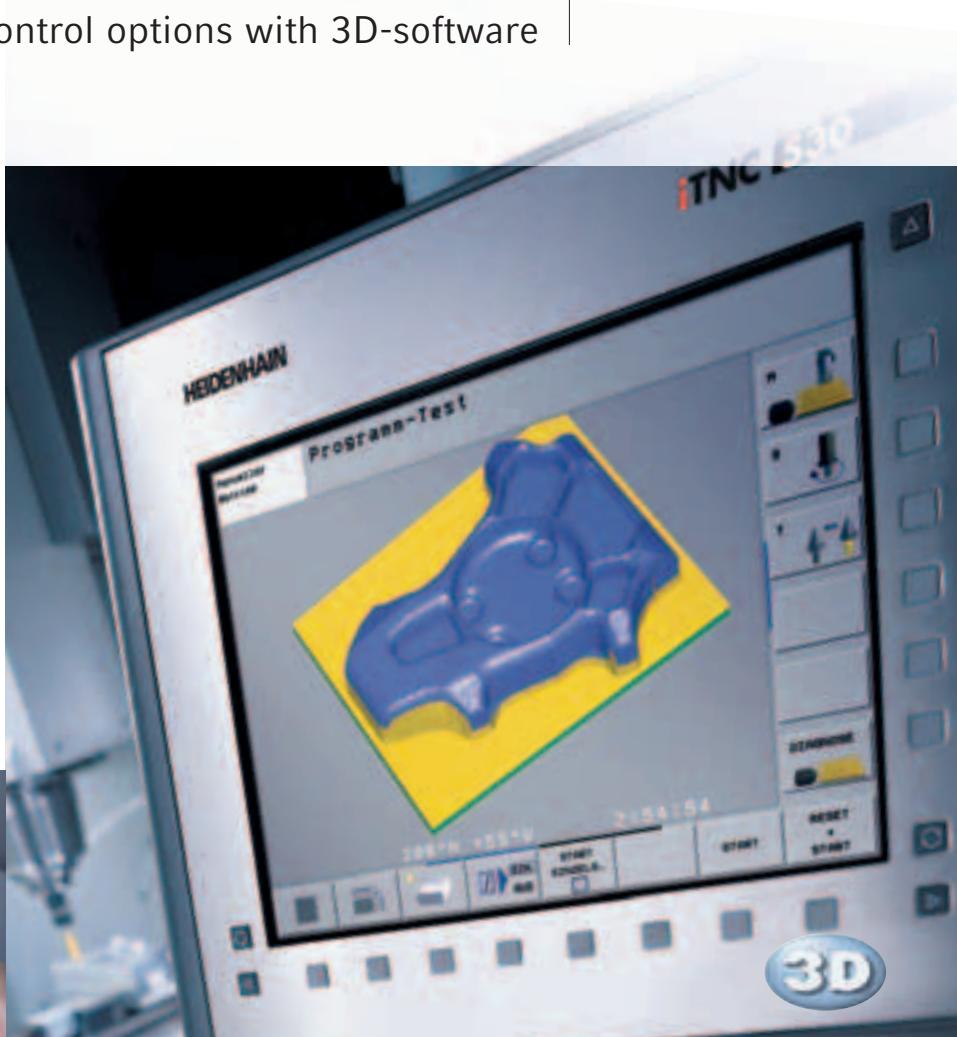
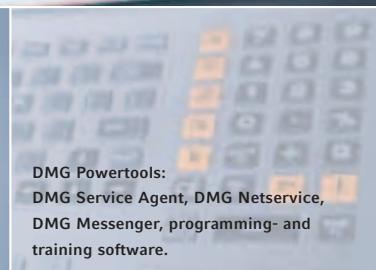
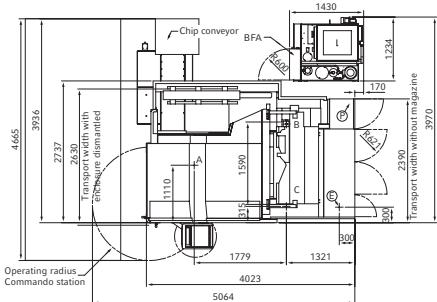
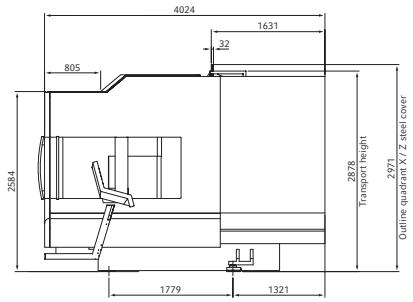


Illustration at bottom:  
DMG Messenger (optional)  
allows text messaging from  
CNC-control to a mobile phone.

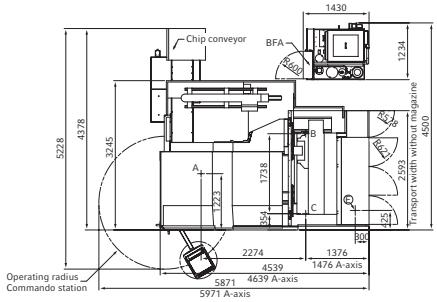
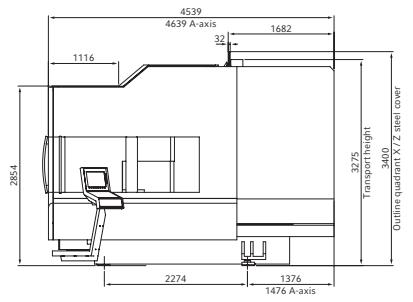




## Floor plans and measurements for the DMU 80 P duoBLOCK®

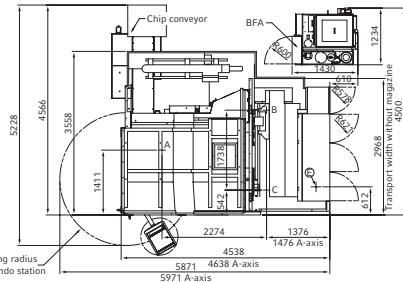
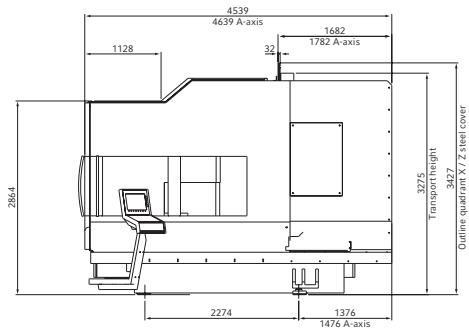


Floor plans and measurements for the DMU 100 P duoBLOCK®

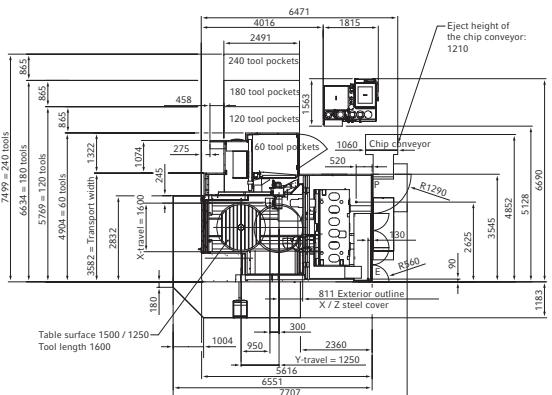
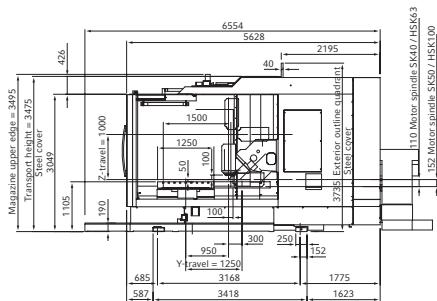


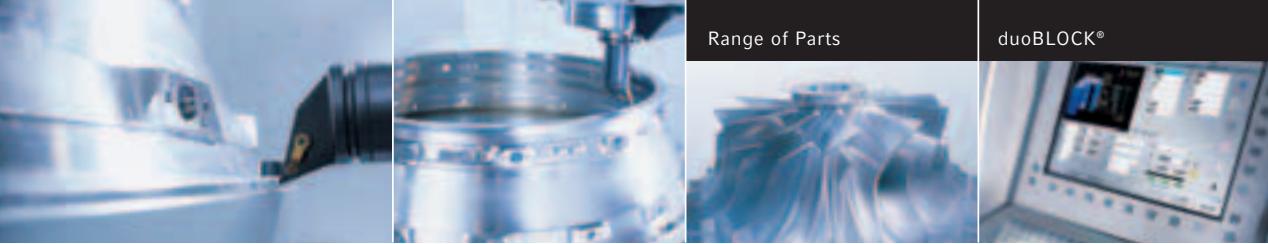
## Floor plans and measurements of the DMUP duoBLOCK®

Floor plans and measurements for the DMU 125 P duoBLOCK®



Floor plans and measurements for the DMU 160 P duoBLOCK®



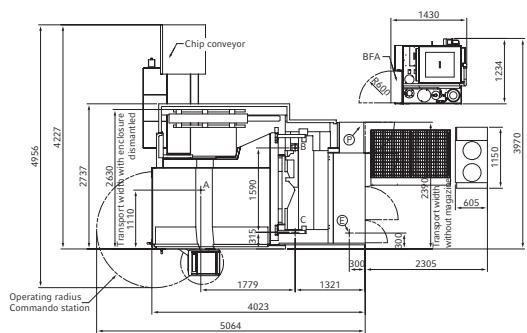


Range of Parts

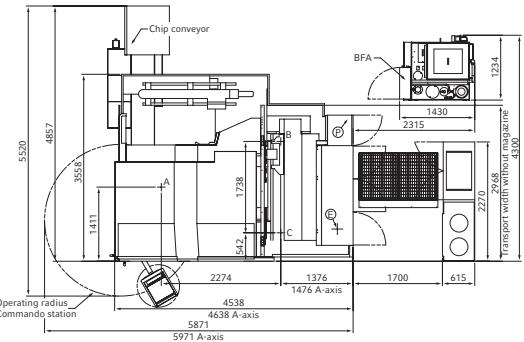
duoBLOCK®

### Floor plans and measurements for the DMU FD duoBLOCK®

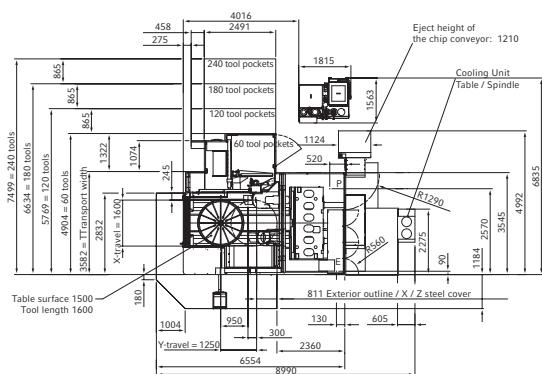
**DMU 80 FD duoBLOCK®**



**DMU 125 FD duoBLOCK®**



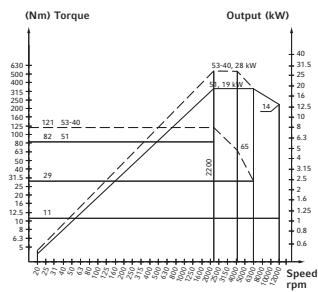
**DMU 160 FD duoBLOCK®**



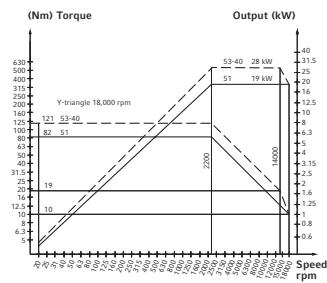
# Performance data for the DMU P/FD duoBLOCK®-series

Speed / Performance diagram:

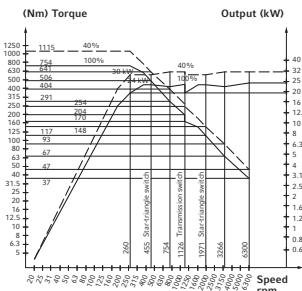
**Standard:** 12,000 rpm (SK40 / HSK-A63)



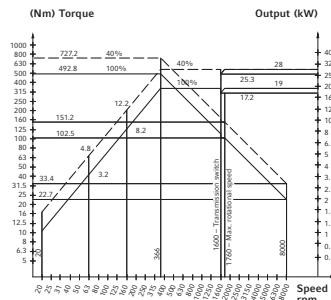
**Option:** 18,000 rpm (SK40 / HSK-A63)



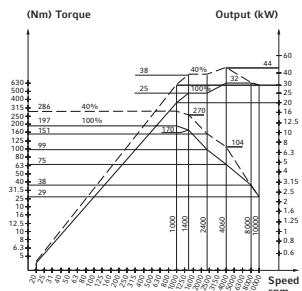
**Option with transmission:** 6,300 rpm (SK50 / HSK-A100)



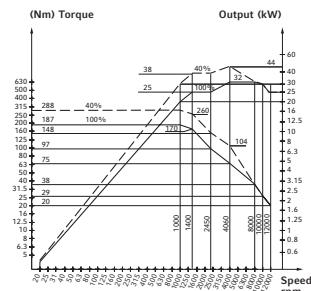
**Option with transmission:** 8,000 rpm (SK50 / HSK-A100)



**Option:** 10,000 rpm (SK50 / HSK-A100)



**Option:** 12,000 rpm (SK50 / HSK-A100)



Technical Data		DMU 80 P	DMU 100 P	DMU 125 P	DMU 160 P
<b>Working range</b>					
X- / Y- / Z-axis	mm	800 / 800 / 800*	1,000 / 1,000 / 1,000**	1,250 / 1,000 / 1,000**	1,600 / 1,250 / 1,000
Max. feed speed X / Y / Z	mm/min	60,000	60,000	60,000	60,000
Max. rapid traverse speed X / Y / Z	m/min	60	60	60	60
Machine weight	kg	14,000	15,800	17,300	35,000
3D CNC-control		■	■	■	■
<b>Tool changer</b>					
Tool fitting		SK40	SK40	SK40	SK40
Tool magazine / -changer	Type	Chain / horizontal	Chain / horizontal	Chain / horizontal	Shelf / Horizontal
Number of magazine pockets		40	40	40	60
Chip-to-chip time	sec.	5	4.5	4.5	6
<b>Main drive of motor spindle</b>					
Motor spindle (SK40) 12,000 rpm		■	■	■	■
Power (40 / 100% DC)	kW	28 / 19	28 / 19	28 / 19	28 / 19
Max. torque (40 / 100% DC)	Nm	121 / 82	121 / 82	121 / 82	121 / 82
Motor spindle (SK40) 18,000 rpm		□	□	□	□
Power (40 / 100% DC)	kW	28 / 19	28 / 19	28 / 19	28 / 19
Max. torque (40 / 100% DC)	Nm	121 / 82	121 / 82	121 / 82	121 / 82
Motor spindle (SK50) 10,000 rpm		□	□	□	□
Power (40 / 100% DC)	kW	44 / 32	44 / 32	44 / 32	44 / 32
Max. torque (40 / 100% DC)	Nm	288 / 187	288 / 187	288 / 187	288 / 187
Motor spindle (SK50) 12,000 rpm		□	□	□	□
Power (40 / 100% DC)	kW	44 / 32	44 / 32	44 / 32	44 / 32
Max. torque (40 / 100% DC)	Nm	288 / 187	288 / 187	288 / 187	288 / 187
<b>Modular motor with transmission (SK50)</b>		□	□	□	□
Power (40 / 100% DC)	kW	28 / 19	28 / 19	28 / 19	32 / 25
Max. torque (40 / 100% DC)	Nm	727 / 492	727 / 492	727 / 492	1,100 / 750
Max. spindle speed	rpm	8,000	8,000	8,000	6,300
<b>Automatic swivel head v / h</b>		■	■	■	■
Swivel time SK40 / SK50	sec.	4 / 6	4 / 6	4 / 6	4 / 6
<b>NC-controlled swivel milling head (B-axis)</b>		□	□	□	□
Swivel range	degrees	0 - 190	0 - 190	0 - 190	0 - 190
Swivel time	sec.	1.2	1.2	1.2	1.2
Rapid traverse and feed	rpm	30	30	30	30
<b>NC-controlled swivel milling head (A-axis)</b>		-	□	□	□
Swivel range	degrees	-	130	130	130
Swivel time	sec.	-	3	3	3
Rapid traverse and feed	rpm	-	12.5	12.5	12.5
<b>NC-controlled rotary table (C-axis)</b>		■	■	■	■
Dimensions	mm	Ø 900 x 700	Ø 1,100 x 900	Ø 1,250 x 1,100	Ø 1,500 x 1,250
Max. load	kg	1,400	2,000	2,500	4,000
Rapid traverse	rpm	30	30	30	10
<b>NC-swivel rotary table</b>		□	□	□	-
Dimensions	mm	785 x 630	900 x 700	900 x 700	-
Max. load	kg	1,200	1,400	1,400	-
Swivel range	degrees	-25° / +120°	-25° / +120°	-25° / +120°	-
Rapid traverse swivel / rotary axis	rpm	20 / 35	20 / 35	20 / 35	-
<b>NC-workpiece unit with tailstock</b>		□	□	□	-
Swing	mm	220	220	220	-
Max. load with / without tailstock	kg	250 / 500	250 / 500	250 / 500	-
Rapid traverse and feed	rpm	16	16	16	-

\* for NC-swivel rotary table: longitudinal axes 1,000 mm

\*\* for NC-swivel rotary table: longitudinal axes 1,200 mm

# Technology of the DMU P/FD

## duoBLOCK®-series

Technical Data		DMU 80 FD	DMU 125 FD	DMU 160 FD
<b>Working range</b>				
X- / Y- / Z-axis	mm	800 / 800 / 800	1,250 / 1,000 / 1,000	1,600 / 1,250 / 1,000
Max. feed speed X / Y / Z	mm/min	60,000	60,000	60,000
Max. rapid traverse speed X / Y / Z	m/min	60	60	60
Machine weight	kg	14,000	17,300	35,000
3D CNC-control		■	■	■
<b>Tool changer</b>				
Tool fitting including cone-cleaner		HSK-A63	HSK-A100	HSK-A100
Tool magazine / -changer	Type	Chain / horizontal	Chain / horizontal	Shelf / horizontal
Number of magazine pockets		40	40	60
Chip-to-chip time	sec.	4.5	5	7
<b>Main drive of motor spindle</b>				
<b>Integrated motor spindle (HSK-A63)</b>				
Power (40 / 100% DC)	kW	28 / 19	-	-
Max. torque (40 / 100% DC)	Nm	130 / 87	-	-
Max. spindle speed	rpm	12,000	-	-
<b>Integrated motor spindle (HSK-A100) 10,000 rpm</b>				
Power (40 / 100% DC)	kW	44 / 32	44 / 32	44 / 32
Max. torque (40 / 100% DC)	Nm	288 / 187	288 / 187	288 / 187
<b>Modular motor with transmission (HSK-A100)</b>				
Power (40 / 100% DC)	kW	28 / 19	28 / 19	32 / 25
Max. torque (40 / 100% DC)	Nm	727 / 492	727 / 492	1,100 / 750
Max. spindle speed	rpm	8,000	8,000	6,300
<b>NC-controlled swivel milling head (B-axis)</b>				
Swivel range	degrees	0 - 190	0 - 190	0 - 190
Swivel time	sec.	1.2	1.2	1.2
Rapid traverse and feed	rpm	30	30	30
<b>NC-controlled swivel milling head (A-axis)</b>				
Swivel range	degrees	-	□	□
Swivel time	sec.	-	130	130
Rapid traverse and feed	rpm	-	3	3
<b>NC-controlled milling-turning table (C-axis)</b>				
Dimensions	mm	Ø 800	Ø 1,250	Ø 1,500
Max. load	kg	1,000	2,000	3,000
Max. rotational speed milling / turning	rpm	30 / 800	20 / 500	20 / 250
Max. torque (100% DC)	Nm	980	5,600	4,160

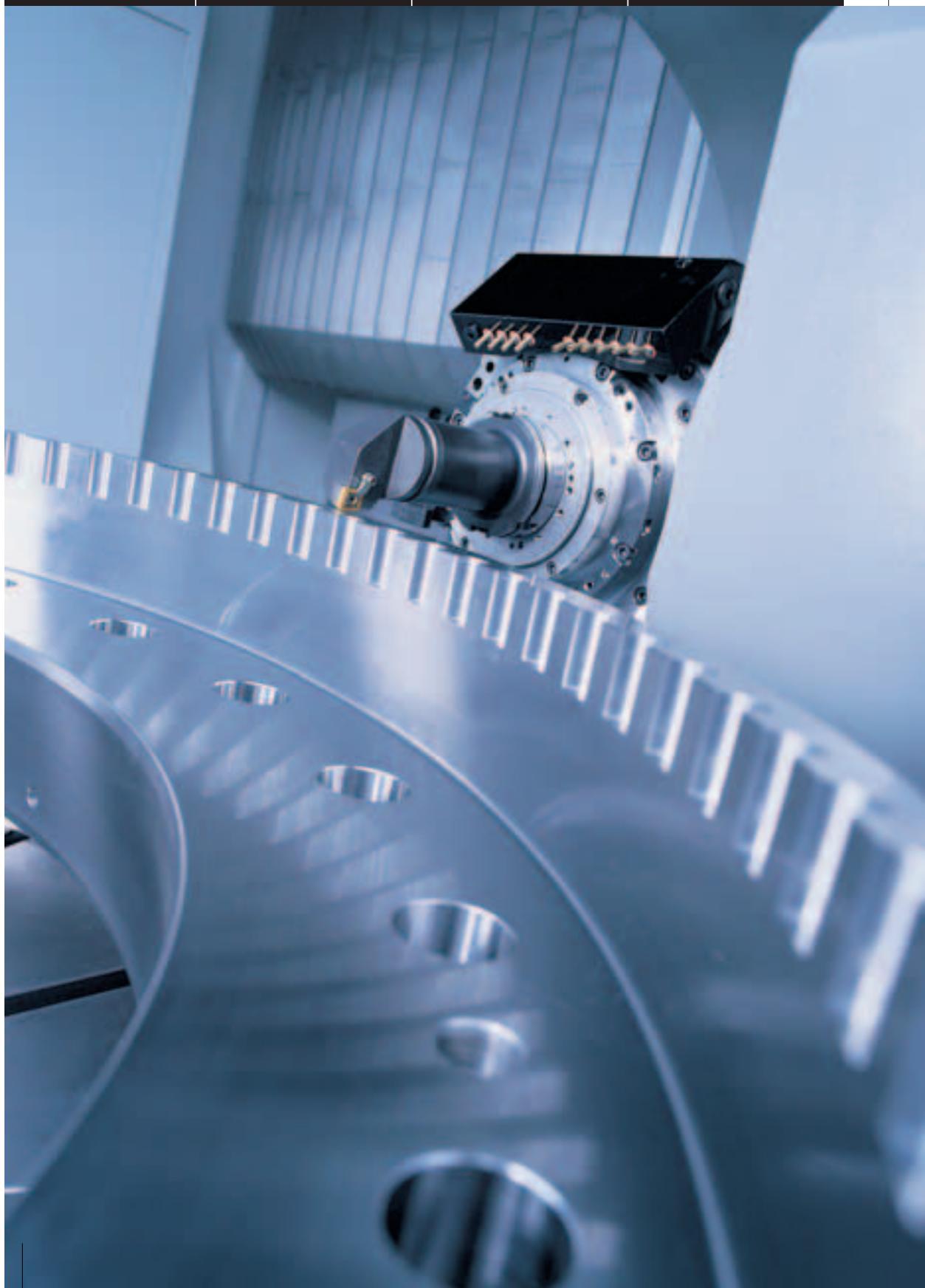
Options	DMU 80 P	DMU 100 P	DMU 125 P	DMU 160 P	DMU 80 FD	DMU 125 FD	DMU 160 FD
Production package, chip conveyor, rotating viewing glass, chip flusher, filtering unit, coolant through spindle centre 40 bar, coolant tank, liters	■ 600	■ 600	■ 600	■ 900	■ 600	■ 600	■ 900
<b>Tool magazine</b>							
Expansion of chain magazine to 60 / 120 / 180 pockets	□	□	□	-	□	□	-
Shelf magazine 120 / 180 / 240 pockets	-	-	-	□	-	-	□
Wall magazine 240 / 300 / 354 pockets	□	□	□	-	□	□	-
Tool sluice with rotating wall;							
30 pockets for setup in units of 30 (inactive), additional 54 magazine pockets (active)	□	□	□	-	□	□	-
<b>Tool fitting</b>							
Tool fitting BT40, CAT40, HSK-A63, BT50, CAT50, HSK-A100	□	□	□	□	- <sup>1)</sup>	- <sup>1)</sup>	- <sup>1)</sup>
<b>Automation / Measurement / Control</b>							
Infrared measuring sensor	□	□	□	□	□	□	□
Tool identification (Tool Dialog System, TDS)	□	□	□	□	□	□	□
Tool measurement in the work area (Blum Laser)	□	□	□	□	□	□	□
Tool breakage control – mechanical	□	□	□	□	□	□	□
Signal lamp, 4-color	□	□	□	□	□	□	□
Oil-/ Emulsion mist eliminator / electrostatic filter	□	□	□	□	-	□	□
Chuck hydraulics for NC-rotary table	□	□	□	□	□	□	□
2 pressure level, coolant through spindle centre	□	□	□	□	□	□	□
40 / 80 bar including expanded coolant tank, liters	900	900	900	3.000	900	900	3.000
Coolant temperature stabilizer for coolant unit including expanded coolant tank (900 liters)	□	□	□	□	□	□	□
Dust removal	□	□	□	□	□	□	□
Laminated security glass for right cabin door	□	□	□	□	■	■	■
Electronic hand wheel	□	□	□	□	□	□	□
Operating type 4 (process monitoring during production)	□	□	□	□	□	□	□
Minimum-quantity lubrication	□	□	□	□	□	□	□
Compressed air through spindle centre	□	□	□	□	□	□	□
Rinsing pistol	□	□	□	□	□	□	□
3D quickSET	□	□	□	□	□	□	□
Increased precision	□	□	□	□	□	□	□
<b>Controls</b>							
3D CNC-control iTNC 530	■	■	■	■	-	-	-
3D CNC-control MillPlus IT	■	■	■	■	■	■	■
3D CNC-control Siemens 840D powerline	■	■	■	■	■	■	■
OMAT Adaptive Control (cutting force monitoring)	□	□	□	□	□	□	□
DMG NetService, basic package / expansion package	□	□	□	□	□	□	□
DMG Messenger, DMG Service Agent, CNC-Editor	□	□	□	□	□	□	□
2. Processor card with Windows 2000	□	□	□	□	□	□	□
Application Tuning Cycle ATC	□	□	□	□	□	□	□

■ in the standard version

□ available as an option

- not available

1) only HSK-A63 and HSK-A100



# Always close by

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