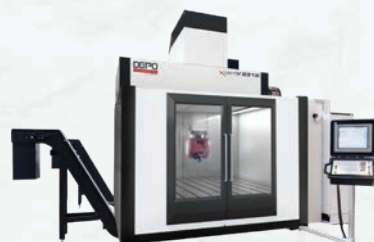


# FOCUSED ON YOUR SUCCESS.

# DEPO

WERKZEUGMASCHINEN

Part of the GMTGroup



DE | EN

## MACHINE OVERVIEW

# CONTENT

By drawing from an immense wealth of experience in **process and tool technology**, we develop machines that properly satisfy the **actual requirements** of our customers.

For instance, the machines in our XperV and XpertK series are characterized by their enormous configuration flexibility thanks to their unique modular design.

## 04

**GMTG** - Strong Group,  
strong partners

## 07

**DEPO**  
Product line

## 06

**Industry expertise**  
From Die & Mould to Aerospace

## 08

**Modularity**  
Countless variants

**10**

**Fork type milling heads**  
Technical data

**12**

**Fork type milling heads**  
Technical highlights

**14**

**Performance charts**  
& Technical data

**16**

**XpertV**  
5-axis gantry machining center

**20**

**XpertV 3520 HD**  
5-axis gantry machining  
center with additional Power

**24**

**XpertK**  
5-axis horizontal machining  
center

**27**

**Variants & Options**



# GMTG

German Machine Tool Group



## FOCUSED ON YOUR SUCCESS.

## FOCUSED ON YOU.

Our customers are more than just a number to us – we focus on you and your company. Whether drawing up the specifications of a custom machine just for you or creating a proactive service concept, we are always ready to actively support you as your partners.

**Get in touch now! We would be happy to advise you about your options at GMTG.**

- **You** – We will accompany you personally as your partners!
- **Your company** – Our objective: the most economically attractive solution for you!
- **Your productivity** – Our core competencies: machine & process optimization!
- **Our quality** – All core components from the same source! Made in Germany!
- **Our service** – On site with you at the earliest opportunity!
- **Our prices** – Fairly priced machines and services!

## OUR CLAIM? YOUR BENEFITS!

At GMTG you can order any of the products and services that you already know and love from DEPO and EDEL – from a single source – anywhere in the world! **With sales, services, and administration consolidated under the single roof of the German Machine Tool Group**, both companies are secure for the future. Stronger than ever, we are excited to deploy

our great innovative strength to become reliable and trustworthy partners for our customers. **Short sales and service response times and high spare parts availability** are our most important goals! In addition, our experts can actively support you with process and tool optimization. and tooling optimization.

# STRONG GROUP – STRONG PARTNERS.

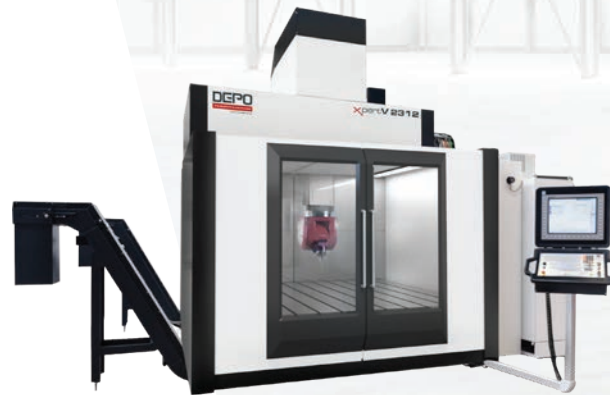
The German Machine Tool Group –  
focused on your success.

The brand **German Machine Tool Group**, or **GMTG** for short, is nothing less than a top-performing association between the two family-owned German machine construction companies **EDEL Werkzeugmaschinen GmbH** and **DEPO Werkzeugmaschinen GmbH**.

Innovative **process and productivity know-how** meet more than 100 years of experience and highest-precision mechanical engineering – the product and service portfolios of DEPO Werkzeugmaschinen GmbH from Marienfeld in North Rhine-Westphalia and EDEL Werkzeugmaschinen GmbH from Pliezhausen in Baden-Württemberg complement one another perfectly. With almost **1,000 machines installed** at big-name customers with the highest quality standards from the **mould and die-making sector**, the **aerospace industry**, and the **automotive industry**, we draw from extensive experience across a diverse range of requirements.

High-productivity **vertical and horizontal 3/4** or universal **5/6-axis machining centers** to manufacture workpieces ranging from complex and delicate parts to heavy machining of high-strength materials are available from a single source. Our **modular machine design** gives customers maximum flexibility for their own individual configurations.

Thanks to a close technological partnership to develop core components such as milling heads, spindles, and rotary tables, we can now offer you **manufacturing solutions that are specially tailored to your requirements**, even beyond the usual standards. GMTG delivers machine tools whose components communicate perfectly, developed harmoniously.



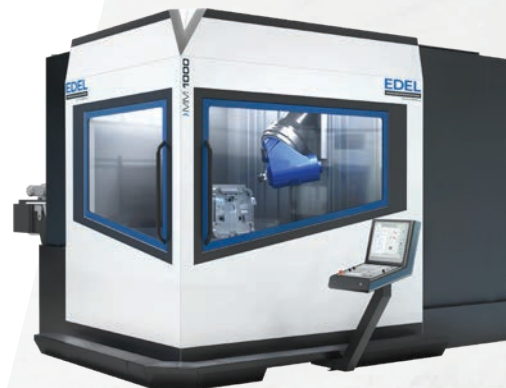
# DEPO

WERKZEUGMASCHINEN

Part of the GMTGroup

## SHORT FACTS

- Family-owned company since **1989**
- **Automatic spindle change** available
- Strongly **modular machine design**
- New approaches to manufacturing technology
- **Vertical** and **horizontal** machining



# EDEL

WERKZEUGMASCHINEN

Part of the GMTGroup

## SHORT FACTS

- Family-owned company since **1896**
- **Crane hook machines:** rapid installation and machine relocation
- **Automatic head exchange** feature
- Extensions for **up to 7 axes**



# OUR INDUSTRY KNOW-HOW

DEPO is a family-owned company and well known for **tailor-made machine tools and process solutions**. Many industries in the metalworking industry trust in the experience and competence of DEPO Werkzeugmaschinen GmbH. Today DEPO is proud of **over 700 machines installed** worldwide. Our machines are particularly successful in the **Die & Mould** sector as well as in **Mechanical Engineering** and are used in the **Aerospace** industry.

Automotive



Energy



Machine construction



Aerospace



Die & Mould

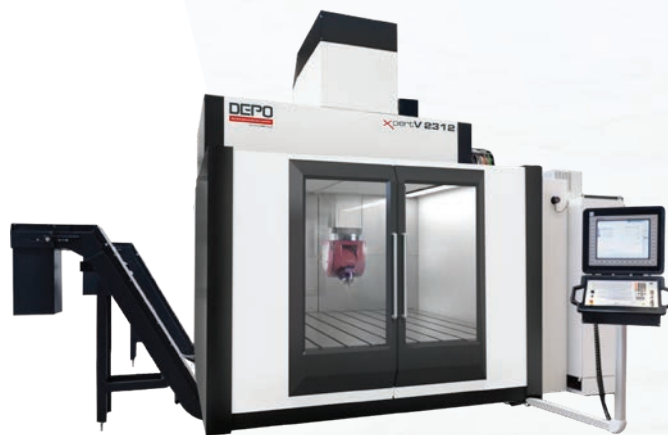


# PRODUCT- PORTFOLIO

## Most modern **machining centers**.

The **horizontal and vertical 5-axis machining centers** from DEPO impress with an enormously high degree of modularity. The flexibility of the machine specification brings along a high added value for our customers.

Together with you we equip the machines adapted exactly to your requirements and never lose the **most economical solution** out of sight.



**XpertV series**  
Vertical 5-axis machining centers in  
gantry design



**XPertV 3520 HD**  
Vertical 5-axis machining centers in gantry  
design for the heaviest machining tasks and rotary  
table integrated in the table top with a load of  
over 20,000 kg!



**XpertK series**  
Horizontal 5-axis machining centers



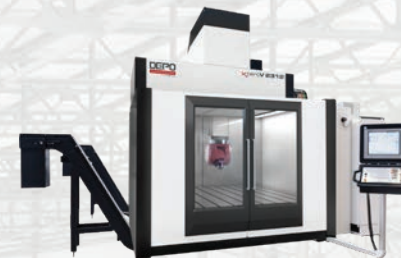


## PERFECTION PLUS MODULARITY.

Which machine is compatible with which milling head and which spindle? Use our modularity matrix and find your optimum machine configuration.



Full-featured 5-axis simultaneous machining





XpertV series



S8-XL fork-type

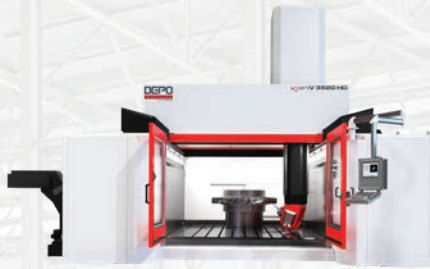


M21 fork-type

		S8-XL fork-type							M21 fork-type	
		CS-40-160-S	CS-45-160-S	CS-21-180-A	CS28-180-A	CS-27-180-S	CS-34-180-S	CS40-180-S	CS-42-180-S	CS-40-200-S
		24,000 rpm	18,000 rpm	18,000 rpm	20,000 rpm	12,000 rpm	12,000 rpm	24,000 rpm	12,000 rpm	15,000 rpm
		40/51 kW	45/54 kW	21/27 kW	28/35 kW	27/32 kW	34/43 kW	40/51 kW	42/53 kW	40/50 kW
		67/85 Nm	75/90 Nm	100/130 Nm	90/113 Nm	130/170 Nm	170/220 Nm	39/51 Nm	201/253 Nm	160/240 Nm
		HSK-A63	HSK-A63	HSK-A63	HSK-A63	HSK-A63, HSK-A100	HSK-A100	HSK-A63	HSK-A100	HSK-A63, HSK-A100



Explanations: Spindle designation „CS“: motor spindle; „CST“: motor spindle with Hirth clamping for Mill-Turn functionality, max. speeds may be limited; „CSG“: gear box spindle; further tool tapers available on individual request.



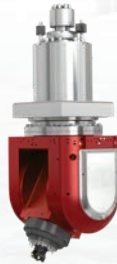
XPERTV 3520 HD



XpertK series



M21-L fork-type



G30 fork-type



M21 fork-type 140°



Orthogonal P12 2-axis

CS-50-200-S	CS-70-200-S	CS-50-238-A	CS-42-238-S	CS-70-238-S	CST-27-180-S	CST-34-180-S	CST-42-180-S	CST-50-200-S	CST-42-238-S	CSG-50-300-S
8,000 rpm	24,000 rpm	15,000 rpm	8,000 rpm	22,000 rpm	12,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm	8,000 rpm	7,000 rpm
50/64 kW	70/88 kW	50/63 kW	42/55 kW	70/90 kW	27/32 kW	34/43 kW	42/53 kW	50/64 kW	42/55 kW	50/65 kW
240/300 Nm	85/105 Nm	248 / 315 Nm	400/525 Nm	85/105 Nm	130/170 Nm	170/220 Nm	201/253 Nm	240/300 Nm	400/525 Nm	795/1,022 Nm
HSK-A100	HSK-A63	HSK-A100, SK50	HSK-A100,	HSK-A63, SK 50	Mill-Turn	HSK-T63, HSK-T100 Mill-Turn	HSK-T63, HSK-T100 Mill-Turn	HSK-T100 Mill-Turn	HSK-T100 Mill-Turn	HSK-A100 Gear box

# FORK MILLING HEADS

## Technical Data

### S8 XL series

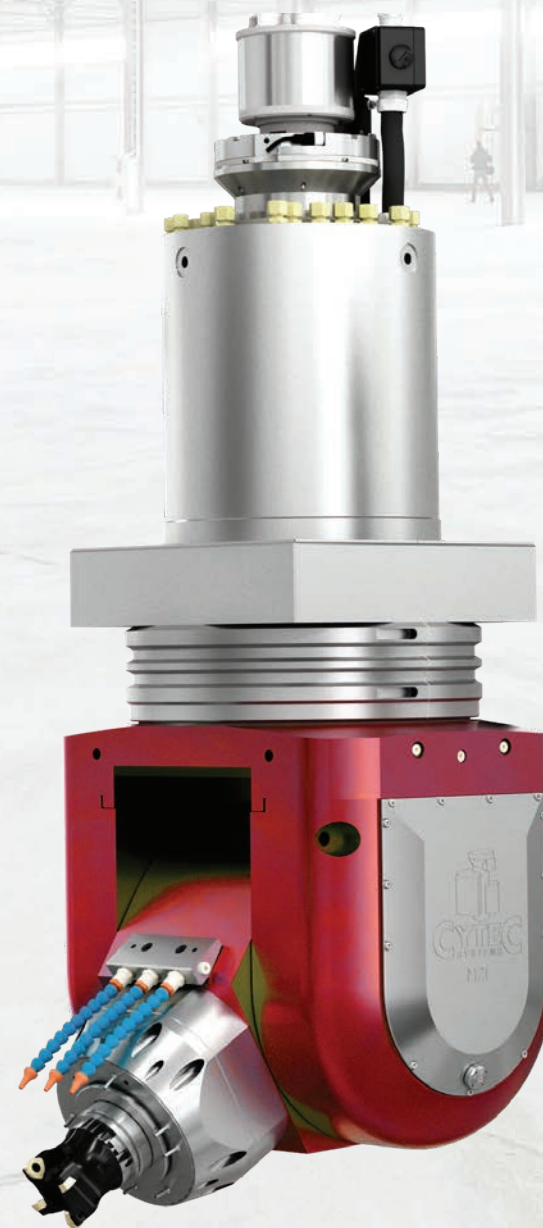
	A-AXIS	C-AXIS
Nominal- / Max. Torque [Nm]	630/1,190	670/1,320
Rated current [A]	27	15
Clamping torque at 60 bar [Nm]	2,400	2,400
Swivel range [°]	±110	±360
Measuring system	absolute	absolute
Positioning accuracy ["]	±5	±2
Total weight approx. [kg]	510	

### M21 series

	A-AXIS	C-AXIS
Nominal- / Max. Torque [Nm]	840/1,340	1,020/1,960
Rated current [A]	30	30
Clamping torque at 60 bar [Nm]	4,000	4,000
Swivel range [°]	±115	±360
Measuring system	absolute	absolute
Positioning accuracy ["]	±5	±2
Total weight approx. [kg]	860	

### M21-L series

	A-AXIS	C-AXIS
Nominal- / Max. Torque [Nm]	840/1,340	1,020/1,960
Rated current [A]	30	30
Clamping torque at 60 bar [Nm]	4,000	4,000
Swivel range [°]	±110	±360
Measuring system	absolute	absolute
Positioning accuracy ["]	±5	±2
Total weight approx. [kg]	960	



## G30 series

	A-AXIS	C-AXIS
Nominal- / Max. Torque [Nm]	2,000/3,700	1,830/3,550
Rated current [A]	30	29
Clamping torque at 60 bar [Nm]	7,000	7,000
Swivel range [°]	±110	±360
Measuring system	absolute	absolute
Positioning accuracy ["]	±2.5	±2
Total weight approx. [kg]	1,200	

## M21 140° series

	A-AXIS	C-AXIS
Nominal- / Max. Torque [Nm]	840/1,340	1,020/1,960
Rated current [A]	30	30
Clamping torque at 60 bar [Nm]	4,000	4,000
Swivel range [°]	-120 / +140	±360
Measuring system	absolute	absolute
Positioning accuracy ["]	±5	±2
Total weight approx. [kg]	950	





# MILLING HEADS

Our decades of experience in the development of **milling heads with torque motors** offer an immense **advantage in performance and dynamics**. Excellent acceleration values and highly accurate positioning capability provide the best conditions for optimum machining results. The effective **cooling concept in the swivel axes** as well as the powerful hydraulic clamping ensure a **long service life even under high demand** in heavy-duty machining.

## Milling heads in different configurations

- matched to the selected machine type
- single and multi-axis systems
- **fork, universal and orthogonal versions**

## Maximum precision

- radial/axial roller bearings pre-tensioned without clearance
- state-of-the-art **measuring systems**
- high torsional stiffness

## Built-in safety package

in the form of overall sensor technology for monitoring all function values throughout the machining process.

## High flexural system stiffness as a result of thorough FEM calculations

- **Simulation of different demand situations** through different loads and machining processes
- optimized, **weight-reduced construction**

## Water-cooled UltraHighTorque direct drives

- for maximized performance and dynamics
- effective **cooling concepts** in A- /C-axis
- powerful **hydraulic clamping**



## Full-featured simultaneous machining

### Sealed axle housings

and sealing hoods on the axial sections provide reliable protection against harmful environmental influences and dirt

### Intelligent supply / data transmission concept

- through a sophisticated internal arrangement with flexible wiring/ piping
- **Direct measuring measuring systems** (rotary encoders) in all axes
- **Water cooling**

### High-precision sensor technology for maximum accuracy

- Spindle growth (SGS)
- Vibration (SVS)
- Temperature (STS)
- etc.

### Standard and optional main spindles for a wide range of requirements

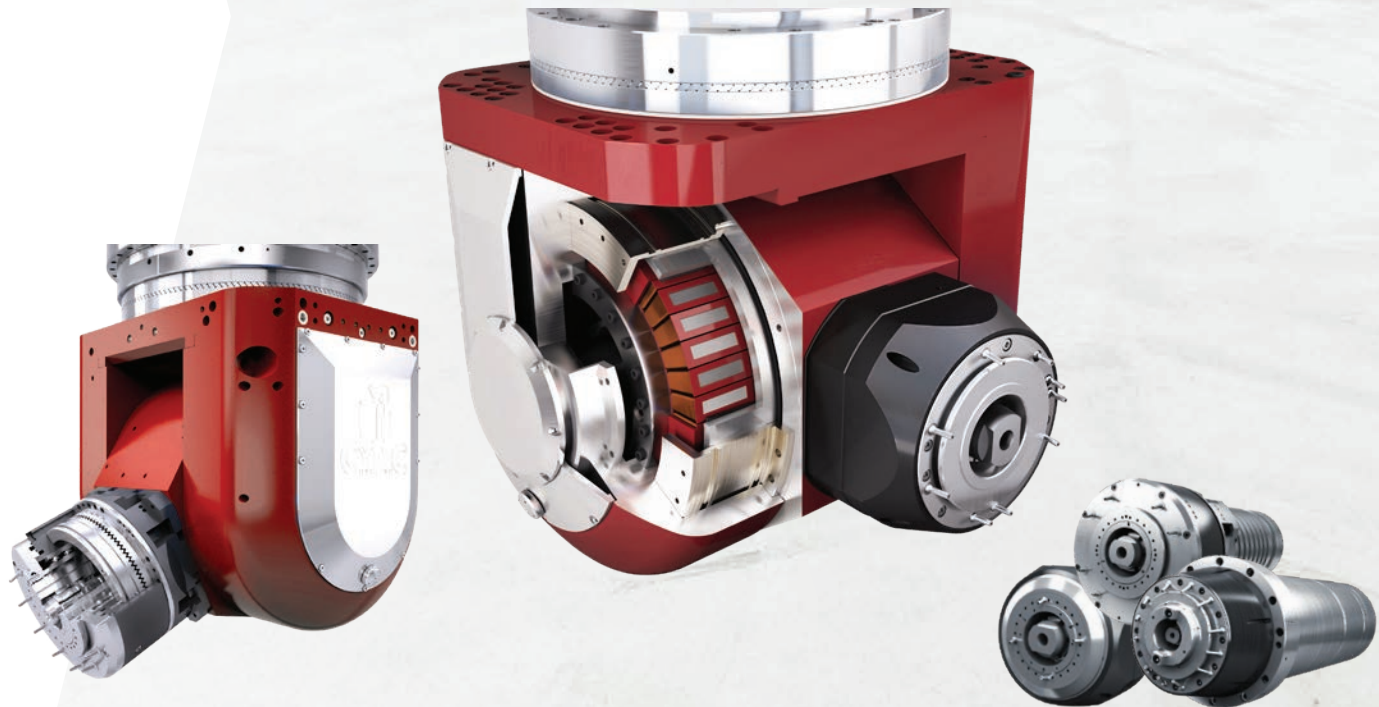
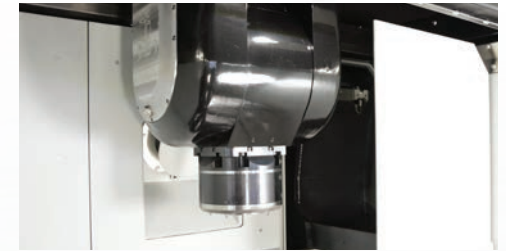
- **Direct drive** via integrated torque motor
- **Water Cooling**
- Various **tool interfaces** can be selected
- **Internal coolant supply** optional
- External coolant supply via **spray nozzles** on spindle nose

### Mill-Turn functionality with Hirth clamping

- Hydraulic clamping of the spindle shaft with Hirth lock
- no pressure on sensitive spindle components

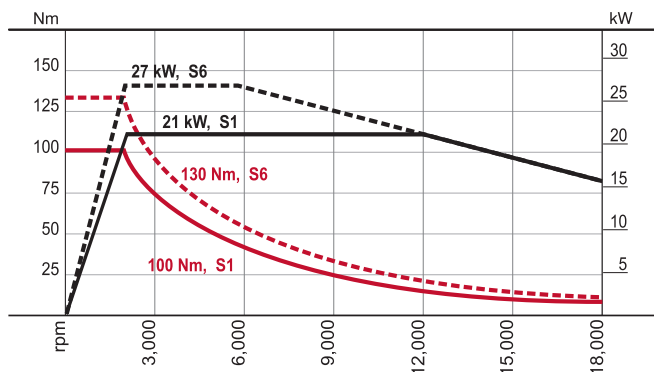
The machines of the XpertV series become integral production centers with the optional **automatic head change station**. A total of **three M21 size milling heads can be accommodated within the machine**. Changing the head takes less than a minute. This enables you to optimally meet the

requirements of the respective processing. Our tool magazines can be adapted accordingly and are also available as dual systems (e.g. HSK-T100 and HSK-A63).



# PERFORMANCE CHARTS & TECHNICAL DATA

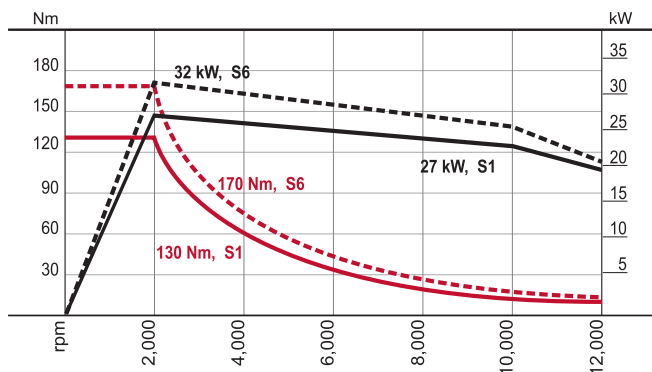
## CS-21-180-A



### TECHNICAL DATA

Speed, max.	18,000 rpm
Power	21 kW (S1), 27 kW (S6)
Torque, max.	100 Nm (S1), 130 Nm (S6)
Tool taper	HSK-A63

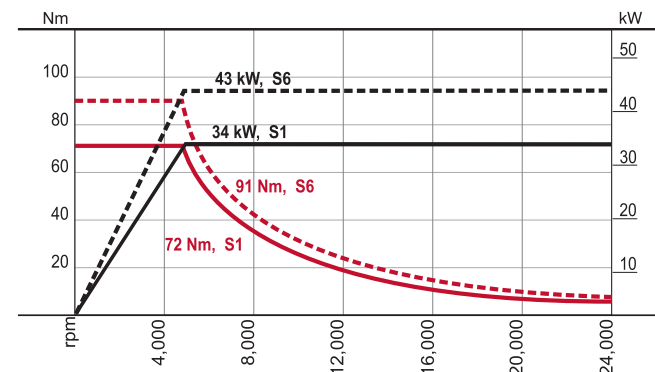
## CS-27-180-S/CST-27-180-S



### TECHNICAL DATA

Speed, max.	12,000 rpm
Power	27 kW (S1), 32 kW (S6)
Torque, max.	130 Nm (S1), 170 Nm (S6)
Tool taper	HSK-A(T)63, HSK-A(T)100

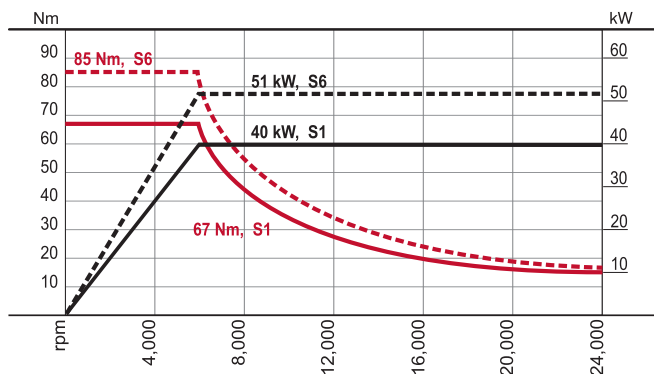
## CS-34-180-A



### TECHNICAL DATA

Speed, max.	24,000 rpm
Power	34 kW (S1), 43 kW (S6)
Torque, max.	72 Nm (S1), 91 Nm (S6)
Tool taper	HSK-A63

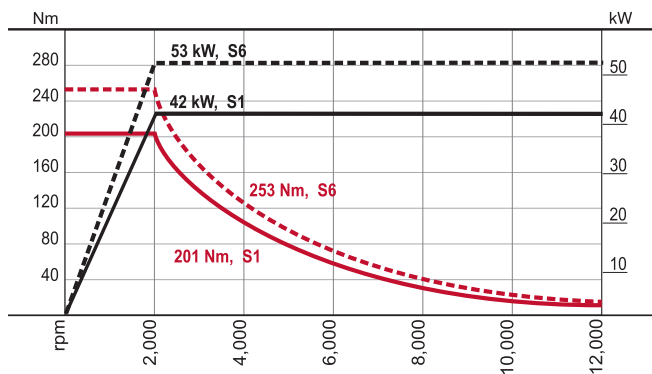
## CS-40-180-S



### TECHNICAL DATA

Speed, max.	24,000 rpm
Power	40 kW (S1), 51 kW (S6)
Torque, max.	39 Nm (S1), 51 Nm (S6)
Tool taper	HSK-A63

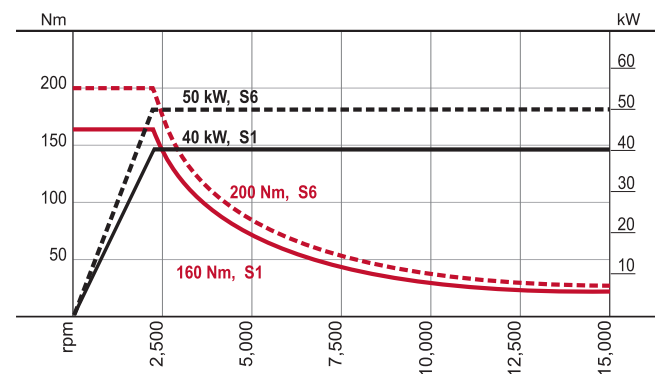
## CS-42-180-S/CST-42-180-S



### TECHNICAL DATA

Speed, max.	12,000 rpm
Power	42 kW (S1), 53 kW (S6)
Torque, max.	201 Nm (S1), 253 Nm (S6)
Tool taper	HSK-A(T)63, HSK-A(T)100

## CS-40-200-S



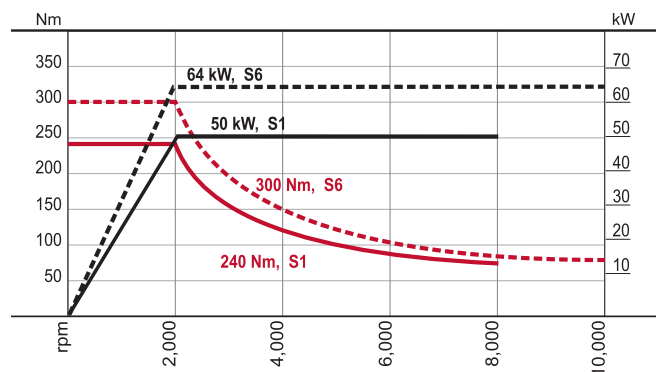
### TECHNICAL DATA

Speed, max.	15,000 rpm
Power	40 kW (S1), 50 kW (S6)
Torque, max.	160 Nm (S1), 200 Nm (S6)
Tool taper	HSK-A63, HSK-A100



Explanations: Spindle designation „CS“: motor spindle; „CST“: motor spindle with Hirth clamping for Mill-Turn functionality, max. speeds may be limited; „CSG“: gear box spindle; further tool tapers available on individual request.

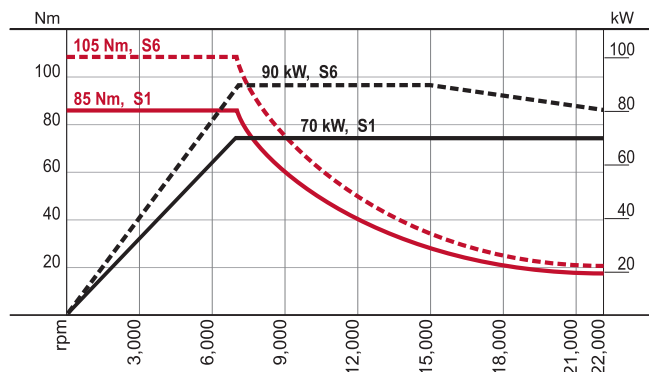
## CS-50-200-S/CST-50-200-S



### TECHNICAL DATA

Speed, max.	8,000 rpm
Power	50 kW (S1), 64 kW (S6)
Torque, max.	240 Nm (S1), 300 Nm (S6)
Tool taper	HSK-A(T)100

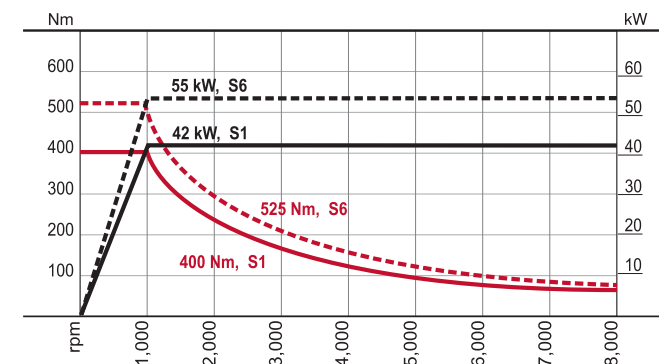
## CS-70-200-S



### TECHNICAL DATA

Speed, max.	24,000 rpm
Power	70 kW (S1), 88 kW (S6)
Torque, max.	85 Nm (S1), 105 Nm (S6)
Tool taper	HSK-A63

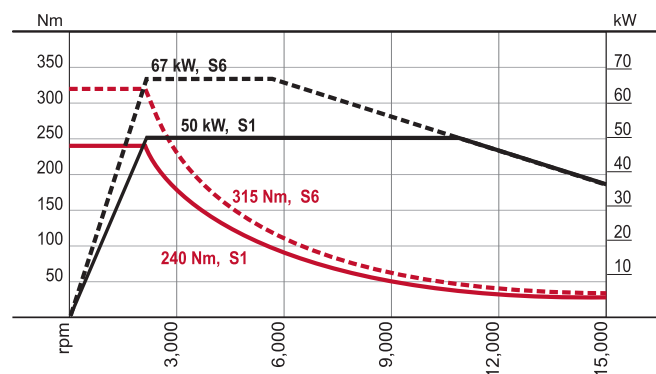
## CS-42-238-S/CST-42-238-S



### TECHNICAL DATA

Speed, max.	8,000 rpm
Power	42 kW (S1), 55 kW (S6)
Torque, max.	400 Nm (S1), 525 Nm (S6)
Tool taper	HSK-A(T)100, SK 50

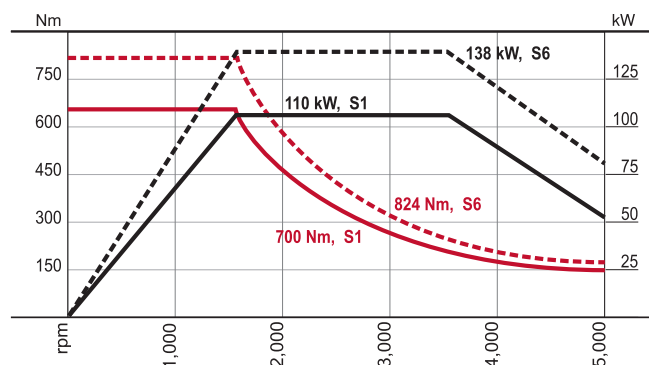
## CS-50-238-A



### TECHNICAL DATA

Speed, max.	15,000 rpm
Power	50 kW (S1), 63 kW (S6)
Torque, max.	248 Nm (S1), 315 Nm (S6)
Tool taper	HSK-A100, SK50

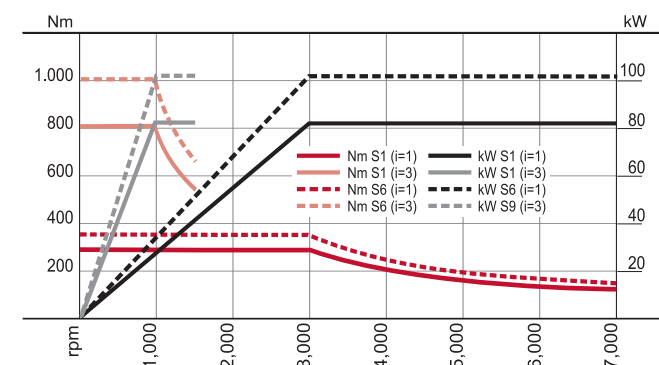
## CS-110-260-S



### TECHNICAL DATA

Speed, max.	5,000 rpm
Power	110 kW (S1), 138 kW (S6)
Torque, max.	650 Nm (S1), 824 Nm (S6)
Tool taper	HSK-A100, SK 50

## CSG-50-300-S - Geared spindle



### TECHNICAL DATA

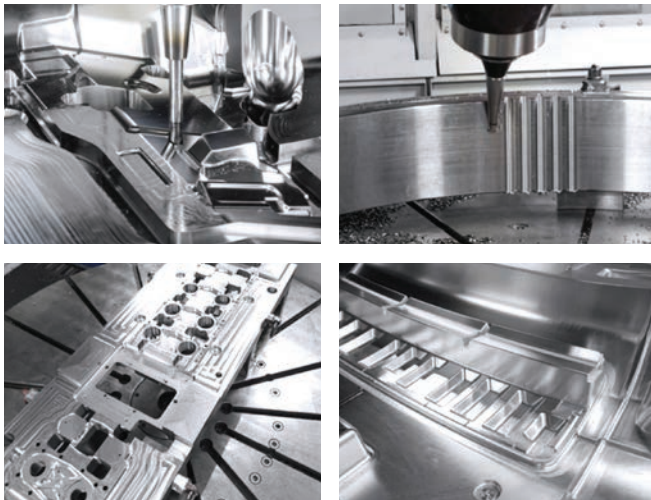
Speed, max.	7,000 rpm
Power	50 kW (S1), 65 kW (S6)
Torque, max.	S1: 265 Nm (i=1), 795 Nm (i=3); S6: 334 Nm (i=1), 1,022 Nm (i=3)
Tool taper	HSK-A100

# PURE PERFORMANCE

**Added value** – through modularity, flexibility and excellent process performance

xpertV

The unique horizontal machining centers in the XpertV series stand out thanks to their enormous modularity and flexibility. The milling centers can be customized to match the specific requirements of our customers, and a wide range of options are available. Reliability and process stability without compromise are key. Whether 3- or 5-axis machining with high torques or high-speed spindles – we offer a large selection of milling heads and motor spindles. Choose from different working units and tables to select the best specifications for your component sizes. We can of course help you to find the right clamping strategy and maybe even a suitable automation solution to increase your production enormously.



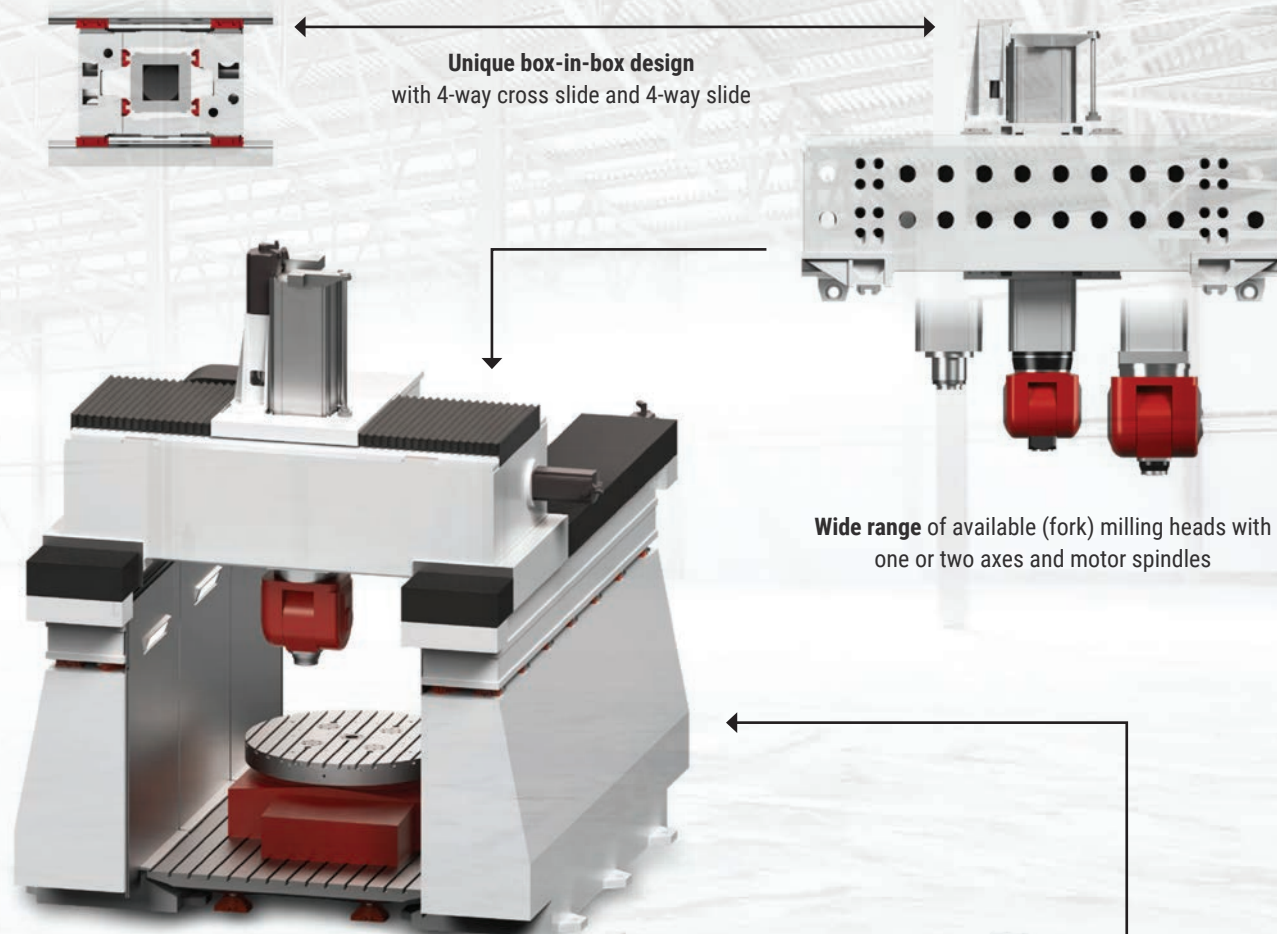


# MODULAR AND FLEXIBLE

## 5-axis gantry machining center

xpertV

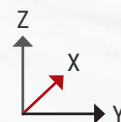
- Modular system, individually configurable
- Wide range of options
- Reliability and process stability through approved, high-quality components
- Excellent processing results through:
  - highly dynamic axis drives
  - thermosymmetric design
  - high, uniform machining stability in all axis directions due to box-in-box design of the slide unit



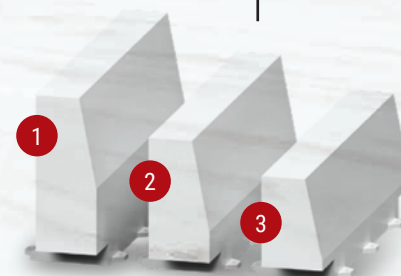
Selectable travel distance in X:  
2,300 / 4,600 / 6,900 mm

Selectable travel distance in Y:  
1,200 / 1,600 / 2,000 / 2,400 mm

Diverse positioning and rotary table selection for maximum flexibility



- 1 2,050 mm
- 2 1,650 mm
- 3 1,300 mm



Optimum height adjustment through stable side walls made of special concrete in three different sizes



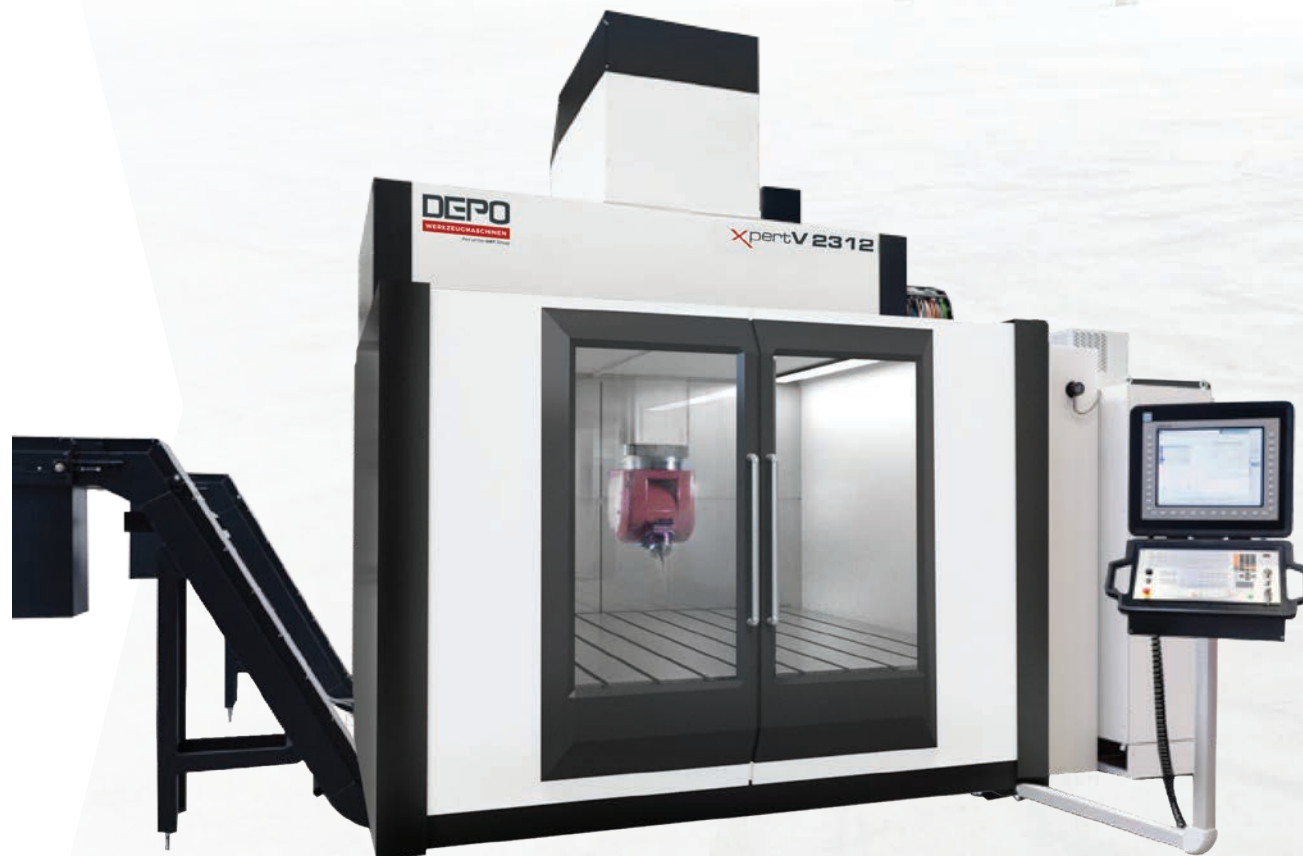
## xpertV

The portal machining centers in the XpertV series boast impressively high modularity and flexibility **with a gantry structure**. The milling centers can be customized to match the requirements of our customers, and **a wide range of options are available**. Reliability and process stability without compromise are key, achieved by excellent machining results. **Highly dynamic axle drives**, thermo-symmetric design, and the **box-in-box layout** of the slide unit are how it's done.

Even in the standard version, the machine impresses with its enormous power density:

### Highlights as standard

- **HEIDENHAIN TNC 640**
- **5-axis simultaneous machining** thanks to M21 fork milling head with torque drive technology
- High workpiece weights
- **Direct measuring system** in all axes
- Fast motor spindle HSK-A63 with **20,000 rpm**
- Rapid traverse: **40 m/min**
- **Tool magazine with 48 places** HSK-A63
- **Chip conveyor**
- **Ergonomic machine design**





## TECHNICAL DATA

		XPERTV 2312	XPERTV 2316	XPERTV 4612	XPERTV 4616	XPERTV 4620	XPERTV 6920
TRAVEL RANGES							
X-axis (lengthways)	mm	2,300	2,300	4,600	4,600	4,600	6,900
Y-axis (transverse)	mm	1,200	1,600	1,200	1,600	2,000	2,000
Z-axis (vertical)	mm	800					
Z-axis (option)	mm	1,000					
Rapid traverse	m/min	40					
Acceleration	m/s <sup>2</sup>	3					
Feed force	kN	20					
CLAMPING SURFACE FIXED MACHINE TABLE							
Length (X)	mm	3,080	3,080	5,380	5,380	5,380	7,680
Width (Y)	mm	1,700	2,100	1,700	2,100	2,500	2,500
Workpiece weight, max.	t	20	25	30	35	40	50
DIMENSIONS							
Length (X)	mm	5,350	5,350	7,650	7,650	7,650	9,950
Width (Y)	mm	5,970	6,370	5,970	6,370	6,770	6,770
Height V1	mm	3,950					
Height V2	mm	4,270					
Height V3	mm	4,670					
Distance Table / Slider V1	mm	1,675					
Weight version 1 / 2 / 3	ca. t	40/45/50	42/47/52	50/55/60	52/57/62	54/59/64	70/75/80

# FORCE & POWER

## 5-axis gantry machining center

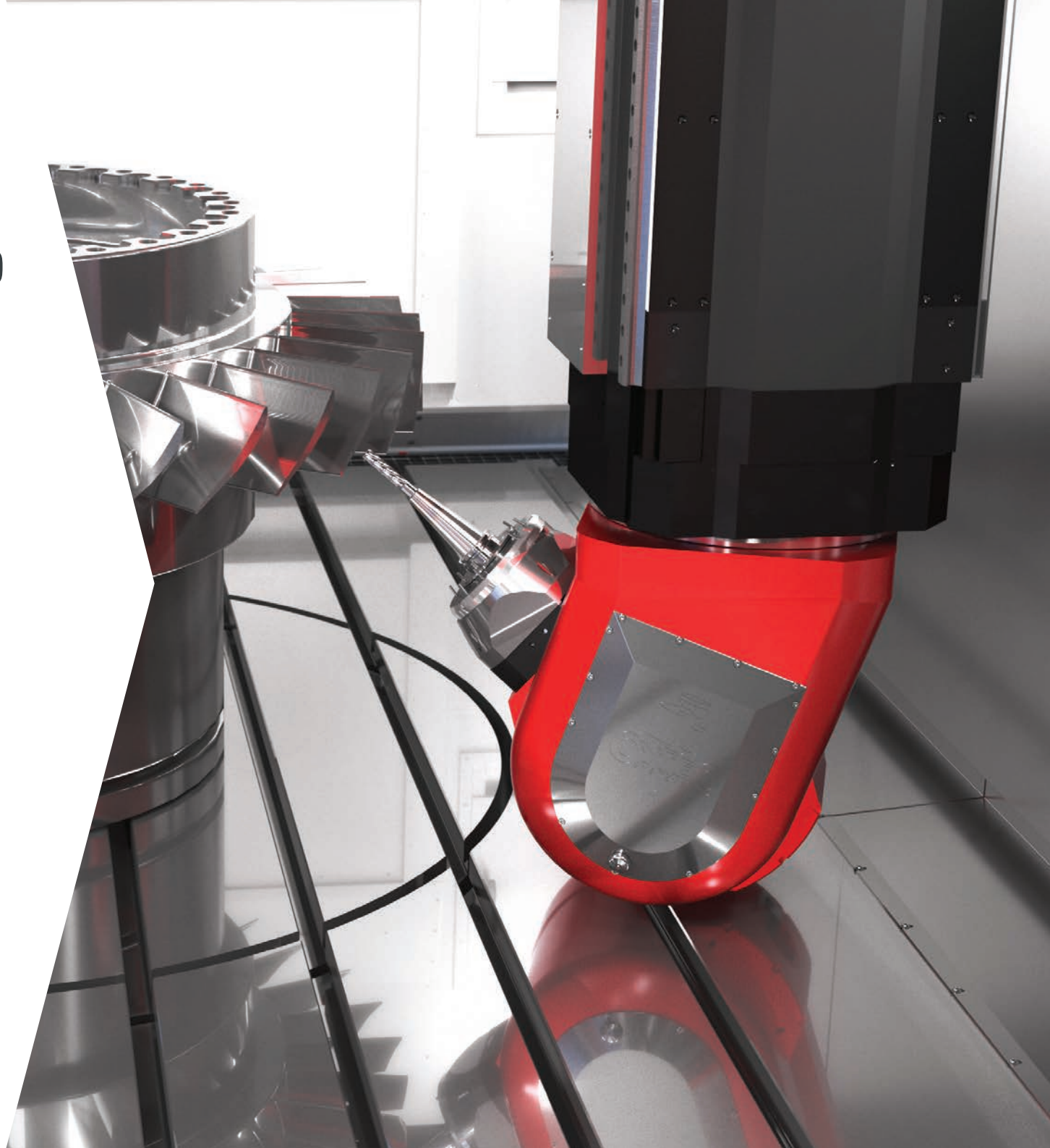
### xpertV 3520 HD

The portal machining center XpertV 3520 HD boasts impressively high modularity and flexibility **with a gantry structure**. The milling center can be customized to match the requirements of our customers, and a wide range of options are available.

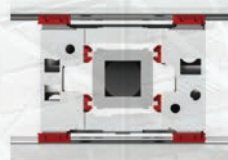
**Reliability and process stability** without compromise are key, achieved by excellent machining results. Highly dynamic axle drives, thermo-symmetric design, and the **box-in-box layout** of the slide unit are how it's done. Flexibility is a must-have today: The machine convinces by technology changes inside of the machine by using the options **automatically milling head change** or automatically spindle change. Increase your productivity by using both a high-torque milling spindle as well as a high-speed milling spindle!

#### Highlights:

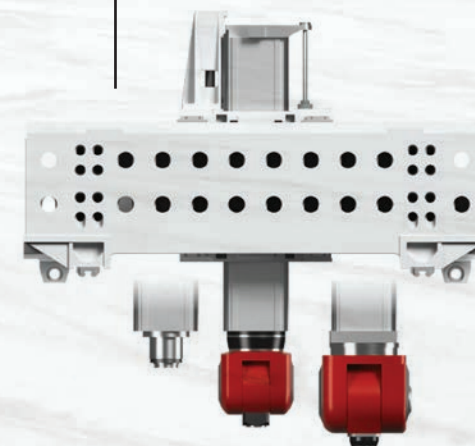
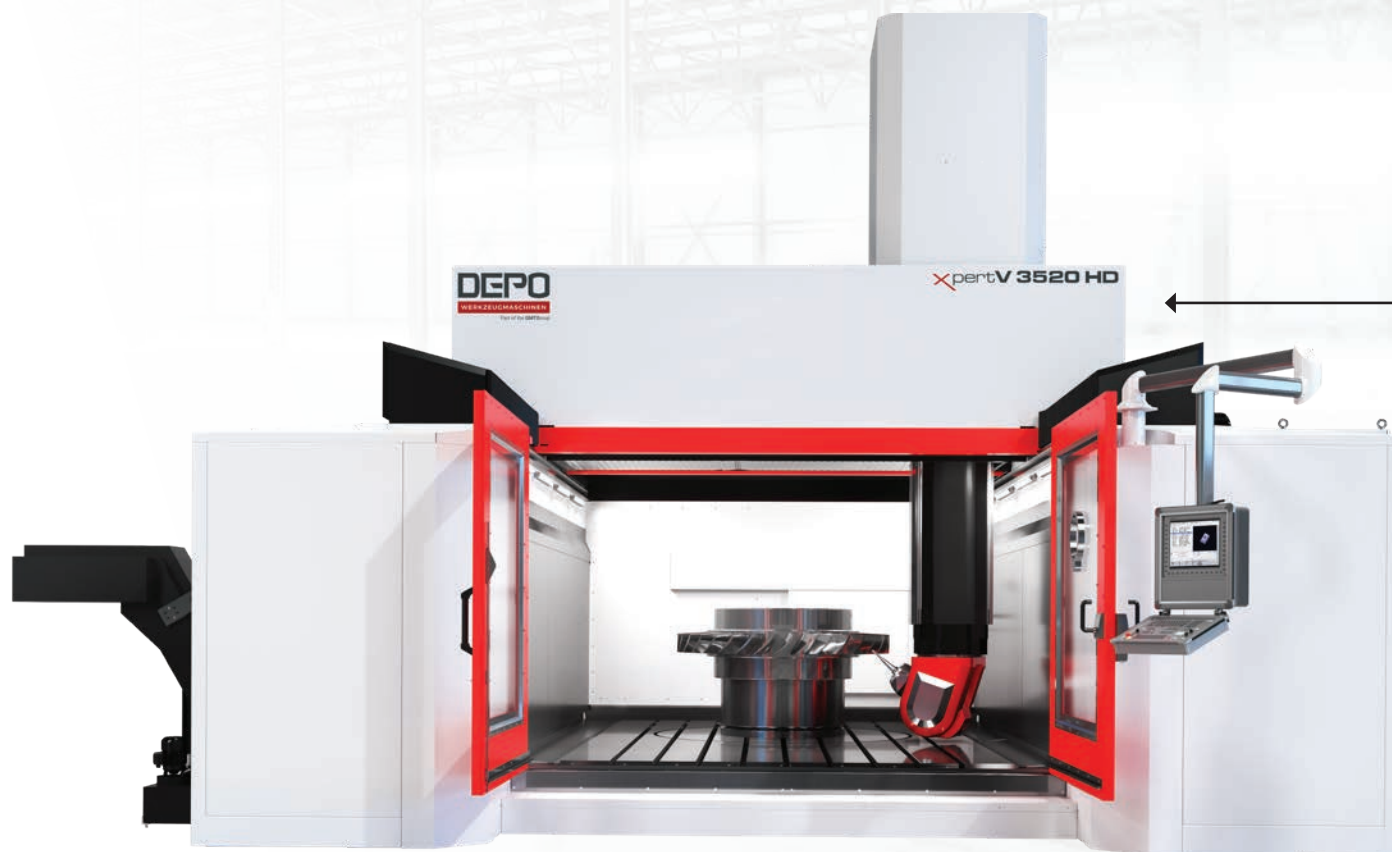
- Highly dynamic **5-axis simultaneous machining** with a fork milling head
- **Milling-turning processing** through integrated rotary tables with up to Ø 2,200 mm (option)
- **Gantry construction and box-in-box** construction for maximum accuracy with large components and best stability in all axes
- **Reinforced wall construction** for even greater process reliability even with rough cutting
- **Rough cutting and finishing** in one machine thanks to technology change by automatical milling head or spindle change (option)



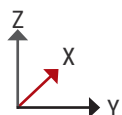




**Unique box-in-box design**  
with 4-way cross slide and 4-way slide



**Wide range** of available (fork) milling heads  
and motor spindles



**Travel ranges X/Y/Z:**  
3,500 mm / 2,000 mm / 1,000 mm

**Travel ranges X/Y:**  
4,200 mm / 2,700 mm

# WIDE OPTION RANGE

- SIEMENS 840D
- Powerful motor spindles with up to 824 Nm torque
- High speed motor spindles with up to 24,000 rpm
- Latest spindle sensor technology
- Wide range of milling heads with up to 140° swivel angle
- Integrated round tables with diameter up to 2,200 mm
- Mill-Turn-Functionality
- Head changing station
- Spindle changing station (only G30)
- Coolant systems
- Tool magazines with up to 300 pockets
- Tool measuring systems
- Work piece measuring systems
- Software
- Collision monitoring systems



**More productivity is not possible!** With the option „automatic spindle change“ when using the G30 milling head, two spindles are available - fully automatically - in one machine. The possibilities of roughing with a high-torque milling spindle as well as finishing with increased speed are realized with the shortest possible changeover time.

## TECHNICAL DATA

### WORKING AREA

Travel range X	mm	3,500
Travel range Y	mm	2,000
Travel range Z	mm	1,000 (optional 1,200)
Rapid traverse X/Y/Z	m/min	30
Acceleration X/Y/Z	m/s <sup>2</sup>	3
Clamping surface machine table X/Y	mm	4,200 / 2,700

### CONTROL

HEIDENHAIN TNC 640 (optional SIEMENS 840 D)

### 2-AXIS-SWIVEL MILLING HEAD M21 FORK-TYPE A-/C-AXIS (STANDARD)

Swivel range	°	±110 / ± 360
Swivel speed	°/s	360 / 360
Positioning accuracy	"	± 5 / ± 2

### MAIN SPINDLE (STANDARD)

Power (100% / 40% ED)	kW	40 / 50
Torque (100% / 40% ED)	Nm	160 / 240
Speed, max.	rpm	15,000
Tool taper		HSK-A100

### TOOL MAGAZINE HSK-A100 (STANDARD)

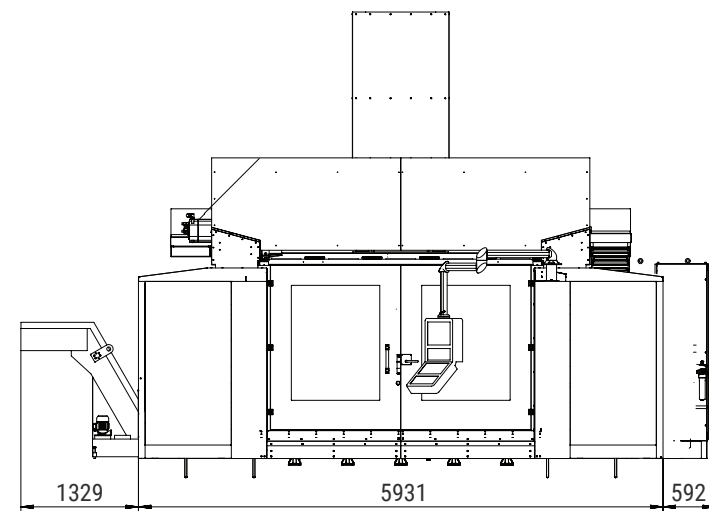
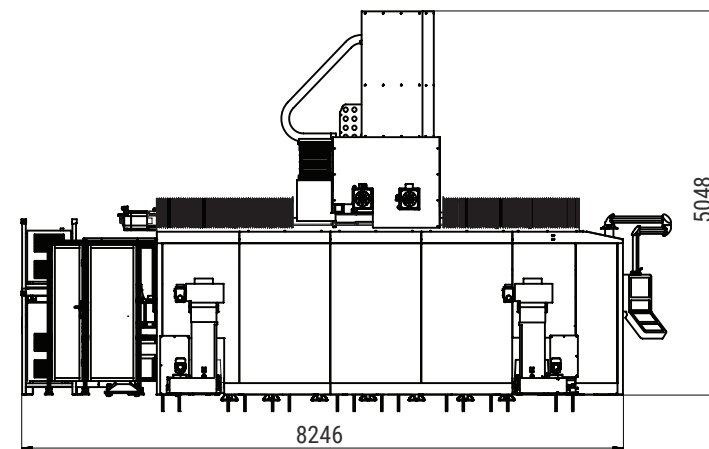
No of tools		48
Tool weight, max.	kg	20
Tool length, max.	mm	350
Tool diameter	mm	Ø 125/180 (at free neighbour pockets)

### INSTALLATION DATA

Space requirements X / Y / Z	mm	8,300 / 7,800 / 5,100
Weight	kg	60,000
Total connection capacity	kVA	118
Mains connection	V	3 x 400 / 50 / 60 Hz
Compressed air supply	bar	6



## INSTALLATION DATA





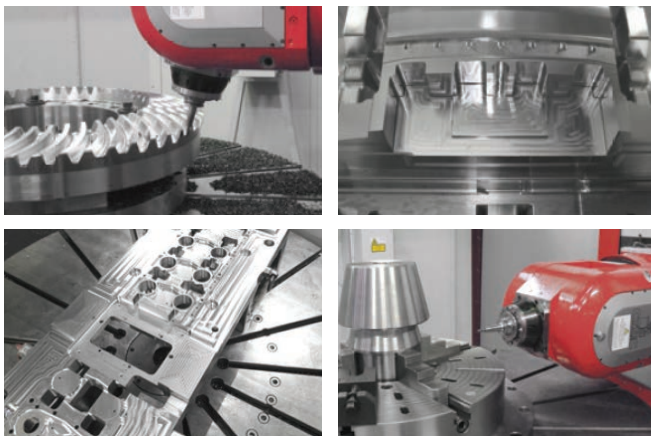
# PURE PERFORMANCE

**Added value** – through modularity, flexibility and excellent process performance

xpertK

## 5-axis horizontal machining center

The unique horizontal machining centers in the XpertK series stand out thanks to their enormous modularity and flexibility. The milling centers can be customized to match the specific requirements of our customers, and a wide range of options are available. Reliability and process stability without compromise are key. Whether 3- or 5-axis machining with high torques or high-speed spindles – we offer a large selection of milling heads and motor spindles. Choose from different working units and tables to select the best specifications for your component sizes. We can of course help you to find the right clamping strategy and maybe even a suitable automation solution to increase your production enormously.



# MODULAR AND FLEXIBLE

xpertK

## CLAMPING SURFACE

Length (X)	mm	2,000 - 6,000
Width (Z)	mm	bis 2,500

## TABLE AXES

Rapid traverse	m/min	30
Acceleration	m/s <sup>2</sup>	3
Feed force	kN	20

## TRAVEL RANGES

Y-axis (vertical)	mm	1,200 - 1,600
Z-axis (slide)	mm	1,000
W-axis (optional)	mm	1,250

## TOWER AXES

Rapid traverse	m/min	30
Acceleration	m/s <sup>2</sup>	3
Feed force	kN	20

## Tables

The fully modular structure allows application-specific optimal selection of three different Workpiece carriers or table variants:

### Sliding table

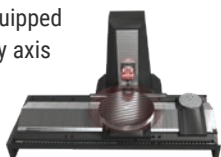
Linear workpiece carrier table movable in X-direction as a standard variant for most applications as well as the possibility to add an additional axis.

### Cross table

Workpiece carrier table movable in X and W direction.

### Swivel table

Workpiece carrier table equipped with interpolatable B-rotary axis and linear X-axis.



## Work units

Extremely solid and high quality work unit with stable column/cross slide and ram-slide structure and the possibility to choose from three different bases:

### Fixed unit

Standard version with vertical Y-axis and slide axis in Z-direction.

### Swivel unit

180° swivelling work unit for the possibility of machining in pendulum mode with different table configurations if necessary and set-up of the machine during machining.

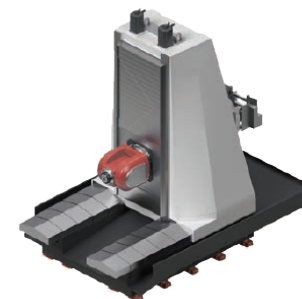
### Movable work unit

Working unit movable in Z-direction for stability control of the optimized machining due to shortest possible Cantilever or long cantilever for machining deep areas of the workpiece.



### Fixed unit

Standard version with vertical Y-axis and slide axis in Z-direction.



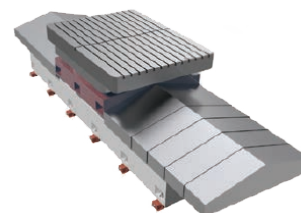
### Movable work unit

Work unit movable in Z-direction for stability-optimized machining by means of shortest possible projections or long projections for machining deep areas of the workpiece.



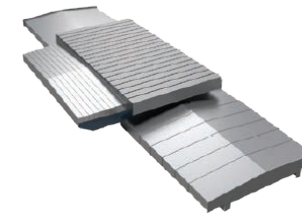
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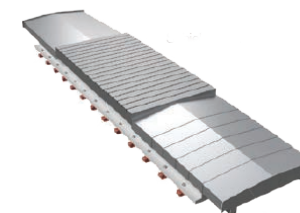
### Swivel table

With interpolatable B rotary axis and linear X-axis equipped Workpiece carrier table.



### Cross table

In X and W direction moveable workpiece carrier table.



### Sliding table

Linear in X-direction movable workpiece carrier table as standard version for the most part applications and the Possibility of construction of another axis.



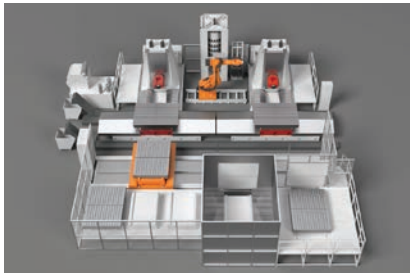


## Example application:

Equipped with a 2-axis fork milling head, a total of 6 axes provide high flexibility in the **complex machining of moulded parts**. Winner of the IF-Award for innovative machine design. XpertK with tiltable working unit for 180° offset pendulum machining. Equipped with a transversely moveable rotary table with 2,500 mm diameter and a 2-axis fork milling head. The cladding concept with sliding doors allows not only the tilting movement but also allows access to the machine from both sides.

### Trend setting Xpert-K machinery concept, consisting of:

- two independent Xpert-K machines each with a:
  - linear moving work unit
  - linear moveable rotary NC-table unit with
  - rectangle pallet
- 3 position pallet changer for unmanned operation incl. cleaning station
- shared tool column magazine system and change robot for tools and motor spindles





# EQUIPMENT & OPTIONS

**Added value** – through a wide range of options.

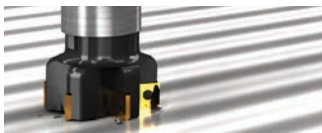
Benefit from increased user value by equipping the machine from a wide selection of available individual equipment options.



HighSpeed rotary tables



Clear vision



Collision monitoring



Tool cooling system



Turning/milling spindle with clamping



Remote maintenance



Suction unit



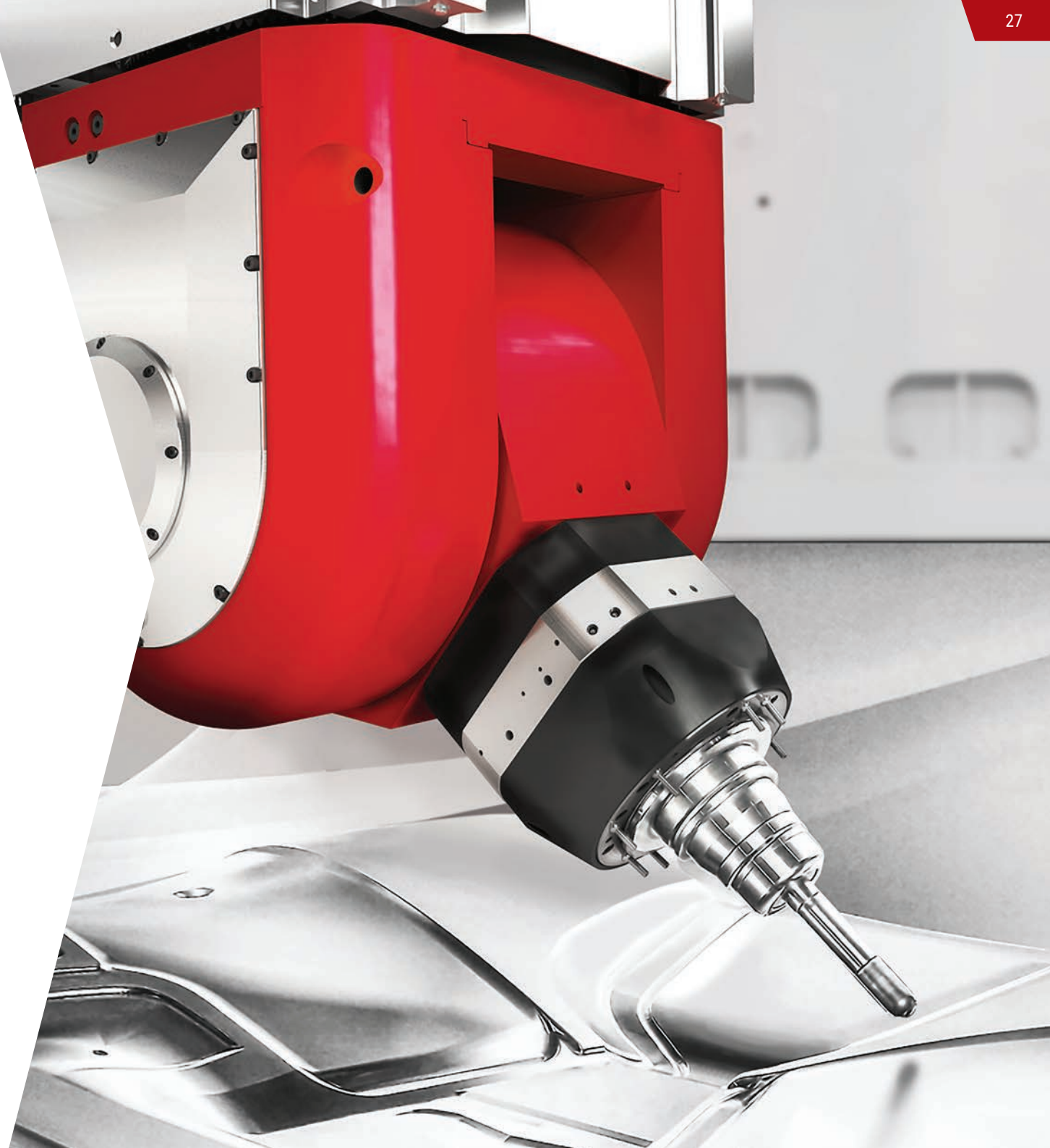
Milling head change system



Example application with 2 rotary tables




Up to 320 tools



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# DEPO

WERKZEUGMASCHINEN

Part of the GMTGroup

## CONTACT

**DEPO Werkzeugmaschinen GmbH**

Von-Liebig-Str. 34  
DE-33428 Marienfeld

Phone +49 180 6 40 41 40

(for calling costs please contact your provider)

We would be delighted to advise you personally. **Contact us now!**



### SERVICE

[service@gmt-group.de](mailto:service@gmt-group.de)

### SALES

[sales@gmt-group.de](mailto:sales@gmt-group.de)

### HEADQUARTERS

[info@gmt-group.de](mailto:info@gmt-group.de)



### SERVICE-HOTLINE

+49 180 6 40 41 40

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