

Solid. Precise. Customised.



**HÜLLER HILLE**

# Hüller Hille GmbH

## Company and Products

# Hüller Hille GmbH

## Company and Products

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# Company and history

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# Welcome to Mosbach Diedesheim



## Hüller Hille GmbH

As a traditional, globally recognized brand we offer high quality 4- and 5-axis horizontal machining centers. From single machines and production cells and flexible manufacturing systems to complete high-end technology solutions for many market sectors including automotive and aerospace.

We continuously invest in the development of new technologies and production methods in order to ensure that our customers' desires are fulfilled proficiently and in a timely manner.

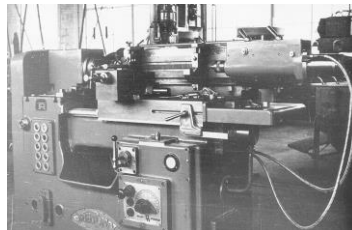
# Our history

## German engineering from tradition



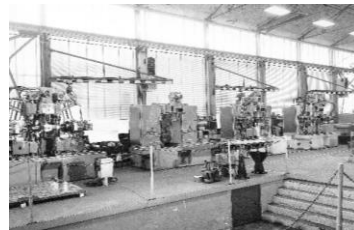
1947

Founding of  
Maschinenfabrik  
Diedesheim



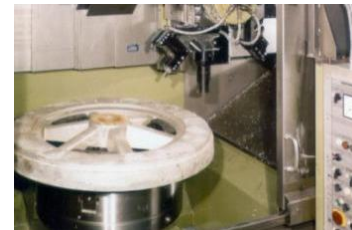
1949

First machine tool  
DREBOMAT



1965

First vertical turning  
machine V1



1975

First numeric controlled  
vertical turning machine  
VERTIFRONT



1979/80

Development of  
VARIOCENTER



1983

Take over of Maschinen-  
fabrik Diedesheim by  
Thyssen Industrie AG



1984

Delivery of first flexible  
manufacturing system



1994

Merger with Hüller Hille  
GmbH



1995

Relocation of machining  
centres to Diedesheim



1996

Introduction of  
successful NBH series



1997 ff

Product extension with  
NBH 230, NBH 290 and  
NBH 350



1998

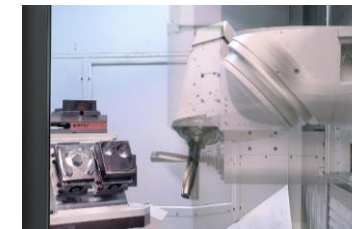
Introduction of four-  
spindle machining  
center 4-CUT

# Our history

## German engineering from tradition



**HÜLLER HILLE**  
POWERTRAIN TECHNOLOGIES



2004

Introduction of modern flow assembly line

2005

Take over by Maxcor, Inc. into MAG group

2007

60th anniversary of location in Diedesheim

2007 – 2009

Introduction of 3rd generation of NBH machining centers

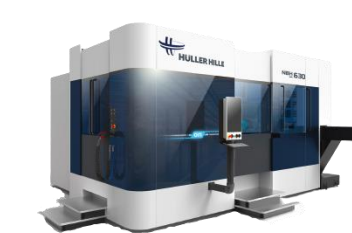
2010

Introduction of simult. 5-axis machining with NBH 630 5X

2011

Largest single order with 100 NBV 250 DUO for the Apple production

**HÜLLER HILLE**  
DIEDESHEIM



2014

Take over by Fair Friends Group

2014

Large order of automatic production system for China First Tractor

2017

Founding of Zuse Hüller Hille Werkzeugmaschinen GmbH

2019

Founding of Hüller Hille GmbH

2021

Introduction of 5-axis machining center NBH 630<sup>BA</sup>

2022

Development of new generation of large machining centers

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# Facts and information

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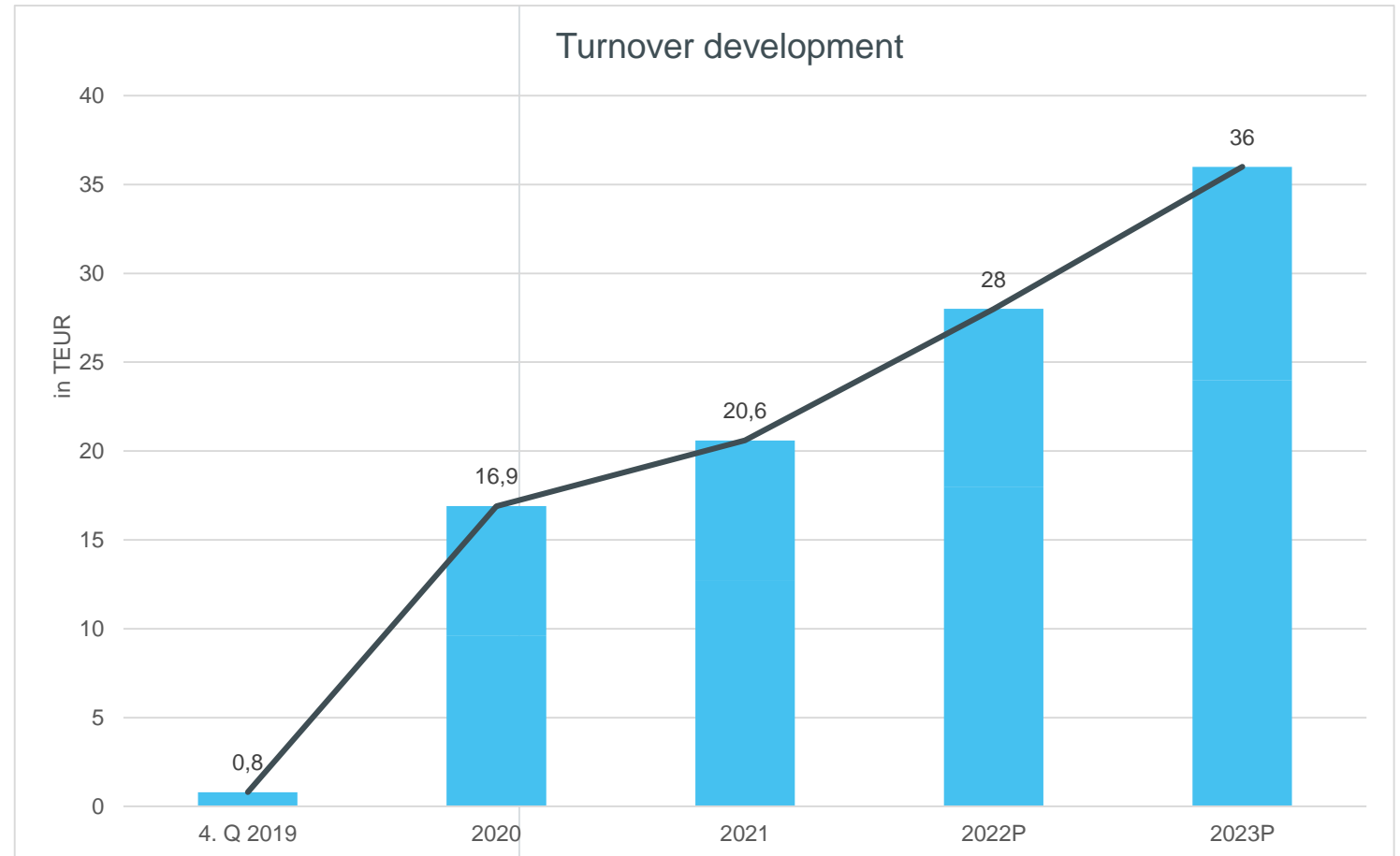
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# Facts to Hüller Hille GmbH

- > Founding by Visionmax Capital Group in 2019,
- > steadily increasing turnover development,
- > Number of employees at the Mosbach location:
  - > Complete: 190
  - > Apprentices: 21
- > Further location in Qingdao, China





# Hüller Hille premium promise



## Solid. Precise. Customised.

### Reliability

Typical Hüller Hille - experts in precision. For reliable machining of demanding applications, you get quality with added value over the entire life cycle of your machine. We consistently open ourselves up to the future. Sustainable and ecological.

### Precision

Our dealings are characterised by openness, tolerance and respect. After all, we are Badeners. But tolerance definitely ends for us when it comes to precision and efficiency in production. That's where absolute top performance applies.

### Stability

Our NBH series will convince you with the proverbial Hüller Hille quality, with well-engineered machine concepts that are designed for simultaneous precision machining as well as for heavy-duty cutting.

### Speed

Optimise your chip-to-chip time with the individual tool change. The unique tool magazine technology from Hüller Hille offers you high tool capacity and the best set-up comfort.



# Satisfied key customers...

- > ZF,
- > DAF,
- > SEW,
- > Voith,
- > Daimler,
- > Caterpillar,
- > Sauer Danfoss,
- > Kessler Achsen,
- > China First Tractor,
- > China Tobacco Comp.

## A short overview of our references.



# ... for all High-End BRANCHES!

## We build the future for you.



**Machinery**



**Agriculture**



**Aerospace**



**Drive technology**



**Commercial | construction**



**Regenerative energy**



**Plant technology**

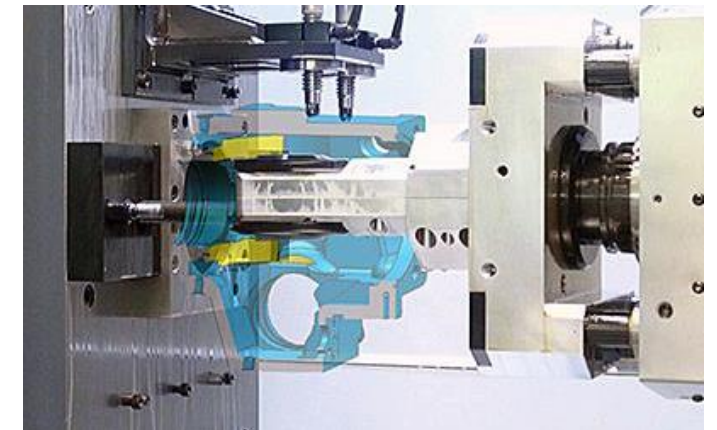
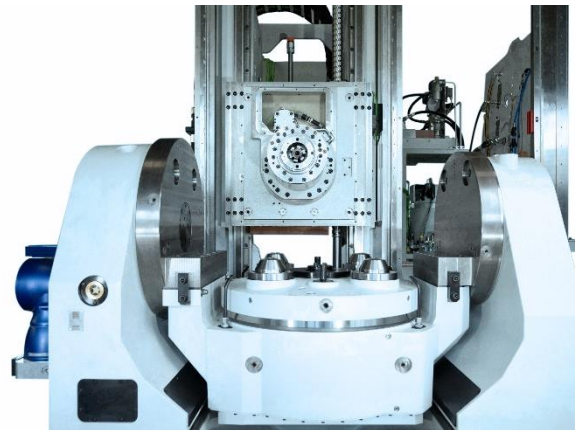


**Digitisation**



# The right arguments

- > Over 40 years of experience in construction of horizontal machining centers,
- > Advanced and robust construction,
- > Long service life,
- > High accuracy and high continuous accuracy,
- > Exceptional spindle power (torque),
- > Unique, convenient tool-cassette-system,
- > Individual workpiece- and system automation,
- > Many years of experience in economic process technology.



# Our education

## Step into the future

- > We educate our specialists for tomorrow ourselves:
  - > Mechatronics technicians,
  - > Industrial mechanics,
  - > Industrial clerks.
- > Education and internship company for
  - > Cooperative State Universities,
  - > Other education providers.
- > Exam company (for examinations at Chamber of Commerce and Industry)



**Raketen-  
mäßiger  
Berufsstart**

#wir  
starten  
durch

DETAILS &  
BEWERBUNG  
online

[www.hueller-hille.com/  
karriere](http://www.hueller-hille.com/karriere)

**Ausbildungsberufe [m|w|d]**  
Mechatroniker | Industriemechaniker  
Industriekaufmann  
Fachkraft für Metalltechnik [Fachrichtung Zerspanungstechnik]  
Elektroniker für Betriebstechnik

**Bachelor of Engineering [m|w|d] DHBW Studium**  
Maschinenbau - Konstruktion + Entwicklung  
Mechatronik | Elektrotechnik - Infotronik  
Wirtschafts-Ingenieurwesen - Intern. Techn. Vertriebsmanagement

The Hüller Hille logo, consisting of a stylized blue 'H' symbol above the text 'HÜLLER HILLE'.

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# Product portfolio

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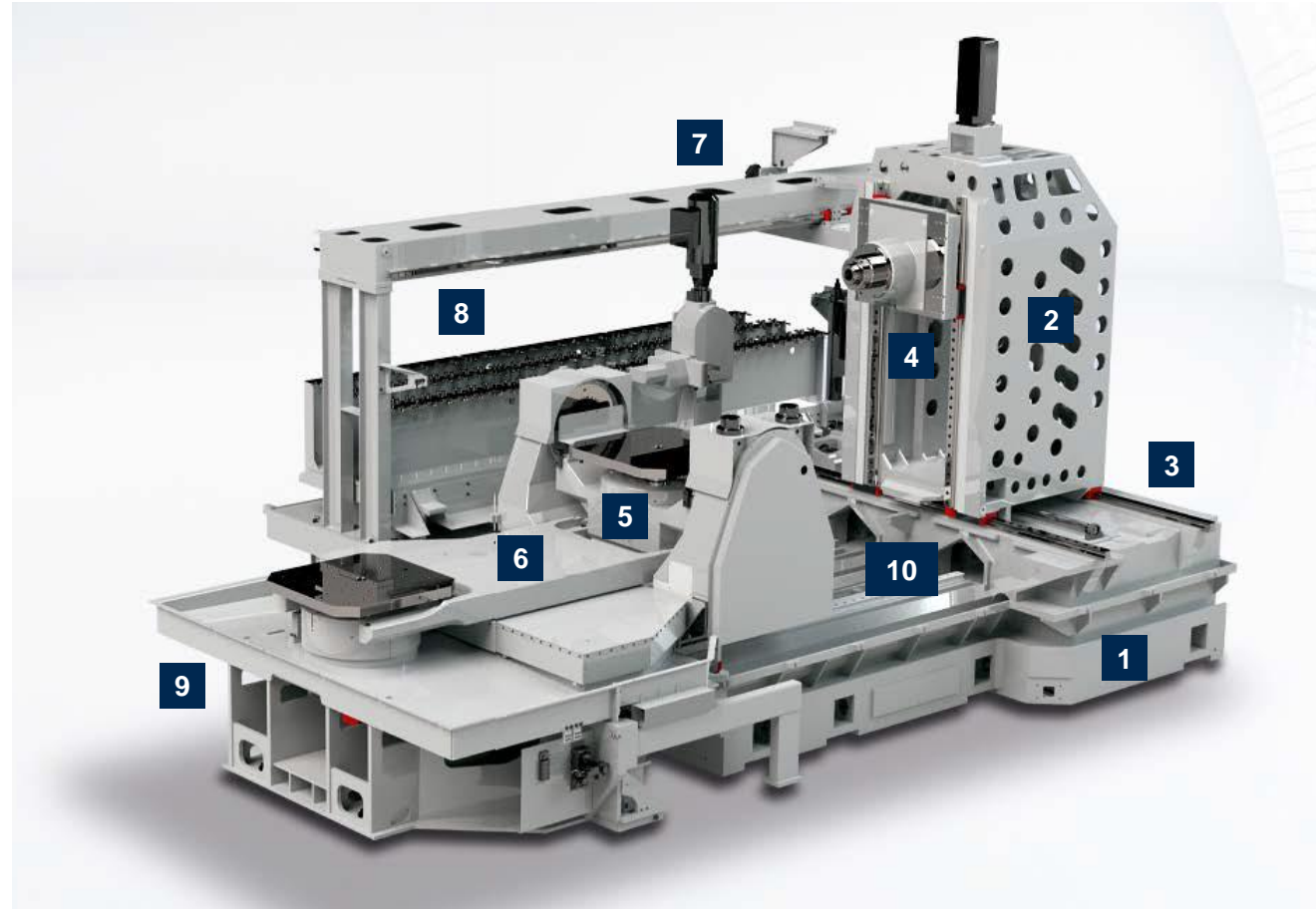
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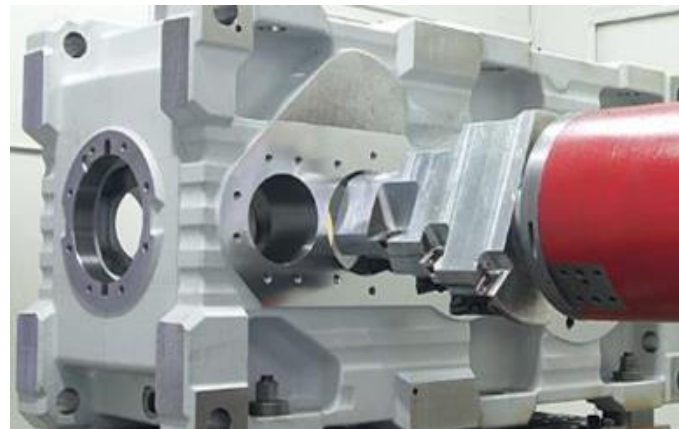
# Our unique selling points

- > Extremely rigid machine bed, **1**
- > Double-walled, optimally ribbed machine column, **2**
- > Robust guidance system, **3**
- > Powerful main spindles, **4**
- > Dynamic rotary tables, **5**
- > Fast 180° pallet changer, **6**
- > Fast electromechanical tool changer, **7**
- > Flexible tool magazines in various designs, **8**
- > Simple connection of different automation systems, **9**
- > XXL workspace with optimal accessibility. **10**



# Product portfolio

- > Horizontal machining centers,
- > Technology solutions,
- > Flexible production cells,
- > Flexible manufacturing systems,
- > Automatic production lines,
- > Robot cells.





# Product portfolio



Pallets	4-axis machining centres		5-axis machining centres			Mill Turn machining centres			
	in mm	Motor spindle	Gear spindle	Tilt head	Swivel rotary table	Swivel head	Tilt head	Swivel rotary table	Swivel head
400 x 500	<b>NBH 40</b>								
500 x 500	<b>NBH 50</b>	<b>NBH 500</b>							
500 x 630	<b>NBH 60</b>	<b>NBH 600</b>							
630 x 630	<b>NBH 63</b>	<b>NBH 630</b>		<b>NBH 630<sup>BA</sup></b>	<b>NBH 630<sup>C</sup></b>		<b>NBH 630<sup>BA</sup> MT</b>	<b>NBH 630<sup>C</sup> MT</b>	
800 x 800	<b>NBH 80</b>	<b>NBH 800</b>		<b>NBH 800<sup>BA</sup></b>	<b>NBH 800<sup>C</sup></b>			<b>NBH 800<sup>C</sup> MT</b>	
1,000 x 1,000	<b>NBH 100</b>	<b>NBH 1000</b>	<b>NBH 1000<sup>A</sup></b>	<b>NBH 1000<sup>BA</sup></b>	<b>NBH 1000<sup>C</sup></b>	<b>NBH 1000<sup>A</sup> MT</b>		<b>NBH 1000<sup>C</sup> MT</b>	
800 x 1,000		<b>NBH 1100</b>	<b>NBH 1100<sup>A</sup></b>		<b>NBH 1100<sup>C</sup></b>				
1,250 x 1,250		<b>NBH 1250</b>	<b>NBH 1250<sup>A</sup></b>		<b>NBH 1250<sup>C</sup></b>				
1,600 x 1,600		<b>NBH 1600</b>	<b>NBH 1600<sup>A</sup></b>		<b>NBH 1600<sup>C</sup></b>				
2,000 x 2,000		<b>NBH 2000</b>	<b>NBH 2000<sup>A</sup></b>		<b>NBH 2000<sup>C</sup></b>				

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## 4-axis machining centres

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# 4-axis machining centres

## Motor spindle



			NBH 40	NBH 50	NBH 60	NBH 63	NBH 80	NBH 100
Pallet size	mm		400 x 500 [500 x 500]	500 x 500 [500 x 630]	500 x 630 [630 x 630]	630 x 630 [800 x 800]	800 x 800 [1,000 x 1,000]	1,000 x 1,000 [1,000 x 1,250]
X/Y/Z-axis	mm		700/630/700	900/800/900	800/800/800	1,000/850/1,150 [1,050]/[1,050]/---	1,400/1,100/1,400 [1,800]/[1,400]/---	1,800/1,400/1,800
Swing circle diameter	mm		700	900	900	900 (1,150)	1,360 (1,600)	1,700 (2,000)
Loading height	mm		1,000	1,000	950	1,300	1,500 (1,800)	1,800
Loading weight	kg		500	800	1,000	1,500	2,000	3,000 [5,000]
Rotary speed	up to	rpm	16,000	16,000	12,000	12,000	12,000	12,000
Spindle power	up to	kW	52/40*	52/40*	66/54*	66/54*	66/54*	66/54*
Torque	up to	Nm	180/126*	180/126*	370/300*	370/300*	370/300*	370/300*
Tool magazine	Type		Disc Chain	Disc Chain Cassette	Disc Cassette	Disc Cassette	Disc Cassette	Disc Cassette
Tool locations	up to	No.	90	252	400	400	400	400

# 4-axis machining centres

## Gear spindle



			NBH 500	NBH 600	NBH 630	NBH 800	NBH 1000
Pallet size	mm		500 x 500 [500 x 630]	500 x 630 [630 x 630]	630 x 630 [800 x 800]	800 x 800 [1,000 x 1,000]	1,000 x 1,000 [1,000 x 1,250]
X/Y/Z-axis	mm		900/800/900	800/800/800	1,000/850/1,150 [1,050]/[1,050]/---	1,400/1,100/1,400 [1,800]/[1,400]/---	1,800/1,400/1,800
Swing circle diameter	mm		900	900	900 (1,150)	1,360 (1,600)	1,700 (2,000)
Loading height	mm		1,000	950	1,300	1,500 [1,800]	1,800
Loading weight	kg		800	1,000	1,500	2,000	3,000 [5,000]
Rotary speed	up to	rpm	10,000	10,000	10,000	10,000	10,000
Spindle power	up to	kW	22.5**	46/37*	78/51*	80/60*	80/60*
Torque	up to	Nm	466**	1,128/909*	1,236**	2,600/2,200*	2,600/2,200*
Tool magazine	Type		Disc Chain Cassette	Disc Cassette	Disc Cassette	Disc Cassette	Disc Cassette
Tool locations	up to	No.	252	400	400	400	400

# 4-axis machining centres

## Gear spindle

			NBH 1100	NBH 1250	NBH 1600	NBH 2000
Pallet size	mm		800 x 1,000 [1,000 x 1,000]	1,250 x 1,250 [1,600 x 1,600]	1,600 x 1,600 [2,000 x 2,000]	2,000 x 2,000 [2,000 x 2,500]
X/Y/Z-axis	mm		1,500/1,300/1,400 [1,800 2,000]/[1,600]/[1,600]	2,100/1,800/1,800 [2,800]/[2,200]/[2,100]	2,800/2,200/2,100 [3,500]/[3,000]/[2,600]	4,200/3,000/2,600 [4,800]/[3,900]/[3,200]
Swing circle diameter	mm		1,500 [1,800 2,000]	2,400 [2,700]	2,800 [3,500]	4,200 [4,800]
Loading height	mm		1,800 [2,100]	2,200 [2,500]	2,600 [3,500]	3,500 [4,400]
Loading weight	kg		3,500 [5,000]	5,000 [10,000]	10,000 [15,000]	20,000 [30,000]
Rotary speed	up to	rpm	10,000	10,000	10,000	10,000
Spindle power	up to	kW	80/60*	80/60*	80/60*	80/60*
Torque	up to	Nm	2,600/2,200*	2,600/2,200*	2,600/2,200*	2,600/2,200*
Tool magazine		Type	Cassette	Cassette	Cassette	Cassette
Tool locations	up to	No.	400	400	400	400

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## 5-axis machining centres

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# 5-axis machining centres

			NBH 630 <sup>BA</sup>	NBH 630 <sup>C</sup>	NBH 800 <sup>BA</sup>	NBH 800 <sup>C</sup>
Pallet size	mm		630 x 630	630 x 630 [800 x 800]	800 x 800	800 x 800 [1,000 x 1,000]
X/Y/Z-axis	mm		1,000/850/1,150 [1,050]/[1,050]/---	1,000/850/1,150 [1,050]/[1,050]/---	1,400/1,100/1,400 [1,800]/[1,400]/---	1,400/1,100/1,400 [1,800]/[1,400]/---
Swing circle diameter	mm		900	900 (1,150)	1,200	1,360 (1,600)
Loading height	mm		800	1,300	1,100 [1,400]	1,500 (1,800)
Loading weight	kg		900	1,500	1,200	2,000
Rotary speed	up to	rpm	10,000	10,000	10,000	10,000
Spindle power	up to	kW	78/51*	38/30*	80/60*	80/66*
Torque	up to	Nm	1,236**	378/286*	2,600/2,200*	1,107/900*
Tool magazine	Type		Disc Cassette	Disc Cassette	Disc Cassette	Disc Cassette
Tool locations	up to	No.	400	400	400	400

# 5-axis machining centres

			NBH 1000 <sup>A</sup>	NBH 1000 <sup>BA</sup>	NBH 1000 <sup>C</sup>
Pallet size	mm		1,000 x 1,000 [1,000 x 1,250]	1,000 x 1,000	1,000 x 1,000 [1,000 x 1,250]
X/Y/Z-axis	mm		1,800/1,400/1,800	1,800/1,400/1,800	1,800/1,400/1,800
Swing circle diameter	mm		1,700 (2,000)	1,600	1,700 (2,000)
Loading height	mm		1,800	1,400	1,800
Loading weight	kg		3,000 [5,000]	2,500	3,000 [5,000]
Rotary speed	up to	rpm	8,000	10,000	10,000
Spindle power	up to	kW	46/37*	80/60*	80/66*
Torque	up to	Nm	1,390/1,150*	2,600/2,200*	1,107/900*
Tool magazine	Type		Disc Cassette	Disc Cassette	Disc Cassette
Tool locations	up to	No.	400	400	400



# 5-axis machining centres

			NBH 1100 <sup>A</sup>	NBH 1100 <sup>C</sup>	NBH 1250 <sup>A</sup>	NBH 1250 <sup>C</sup>
Pallet size	mm		800 x 1,000 [1,000 x 1,000]	800 x 1,000 [1,000 x 1,000]	1,250 x 1,250 [1,600 x 1,600]	1,250 x 1,250 [1,600 x 1,600]
X/Y/Z-axis	mm		1,500/1,300/1,400 [1,800 2,000]/[1,600]/[1,600]	1,500/1,300/1,400 [1,800 2,000]/[1,600]/[1,600]	2,100/1,800/1,800 [2,800]/[2,200]/[2,100]	2,100/1,800/1,800 [2,800]/[2,200]/[2,100]
Swing circle diameter	mm		1,500 [1,800 2,000]	1,500 [1,800 2,000]	2,400 [2,700]	2,400 [2,700]
Loading height	mm		1,800 [2,100]	1,800 [2,100]	2,200 [2,500]	2,200 [2,500]
Loading weight	kg		3,500 [5,000]	3,500 [5,000]	5,000 [10,000]	5,000 [10,000]
Rotary speed	up to	rpm	8,000	8,000	8,000	8,000
Spindle power	up to	kW	46/37*	80/66*	46/37*	80/66*
Torque	up to	Nm	1,390/1,150*	1,107/900*	1,390/1,150*	1,107/900*
Tool magazine		Type	Cassette	Cassette	Cassette	Cassette
Tool locations	up to	No.	400	400	400	400

# 5-axis machining centres

			NBH 1600 <sup>A</sup>	NBH 1600 <sup>C</sup>	NBH 2000 <sup>A</sup>	NBH 2000 <sup>C</sup>
Pallet size	mm		1,600 x 1,600 [2,000 x 2,000]	1,600 x 1,600 [2,000 x 2,000]	2,000 x 2,000 [2,000 x 2,500]	2,000 x 2,000 [2,000 x 2,500]
X/Y/Z-axis	mm		2,800/2,200/2,100 [3,500]/[3,000]/[2,600]	2,800/2,200/2,100 [3,500]/[3,000]/[2,600]	4,200/3,000/2,600 [4,800]/[3,900]/[3,200]	4,200/3,000/2,600 [4,800]/[3,900]/[3,200]
Swing circle diameter	mm		2,800 [3,500]	2,800 [3,500]	4,200 [4,800]	4,200 [4,800]
Loading height	mm		2,600 [3,500]	2,600 [3,500]	3,500 [4,400]	3,500 [4,400]
Loading weight	kg		10,000 [15,000]	10,000 [15,000]	20,000 [30,000]	20,000 [30,000]
Rotary speed	up to	rpm	8,000	8,000	8,000	8,000
Spindle power	up to	kW	46/37*	80/66*	46/37*	80/66*
Torque	up to	Nm	1,390/1,150*	1,107/900*	1,390/1,150*	1,107/900*
Tool magazine	Type		Cassette	Cassette	Cassette	Cassette
Tool locations	up to	No.	400	400	400	400

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## Mill Turn machining centres

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# Mill Turn machining centres



			NBH 630 <sup>BA</sup> MT	NBH 630 <sup>C</sup> MT	NBH 800 <sup>C</sup> MT	NBH 1000 <sup>A</sup> MT	NBH 1000 <sup>C</sup> MT
Pallet size	mm		630 x 630	630 x 630 [800 x 800]	800 x 800 [1,000 x 1,000]	1,000 x 1,000 [1,000 x 1,250]	1,000 x 1,000 [1,000 x 1,250]
X/Y/Z-axis	mm		1,000/850/1,150 [1,050]/[1,050]/---	1,000/850/1,150 [1,050]/[1,050]/---	1,400/1,100/1,400 [1,800]/[1,400]/---	1,800/1,400/1,800	1,800/1,400/1,800
Swing circle diameter	mm		900	900 (1,150)	1,360 (1,600)	1,700 (2,000)	1,700 (2,000)
Loading height	mm		800	1,300	1,500 (1,800)	1,800	1,800
Loading weight	kg		900	1,250	2,000	3,000 [3,500]	3,000 [3,500]
Rotary speed	up to	rpm	10,000	10,000	10,000	8,000	10,000
Spindle power	up to	kW	38/30*	38/30*	80/66*	46/37*	80/66*
Torque	up to	Nm	378/286*	378/286*	1,107/900*	1,390/1,150*	1,107/900*
Tool magazine		Type	Disc Cassette	Disc Cassette	Disc Cassette	Disc Cassette	Disc Cassette
Tool locations	up to	No.	400	400	400	400	400

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# Technology solutions

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# Technology solutions

## Commercial vehicles | Construction and agricultural machinery



# Technology solutions

## Drive and energy technology



# Technology solutions

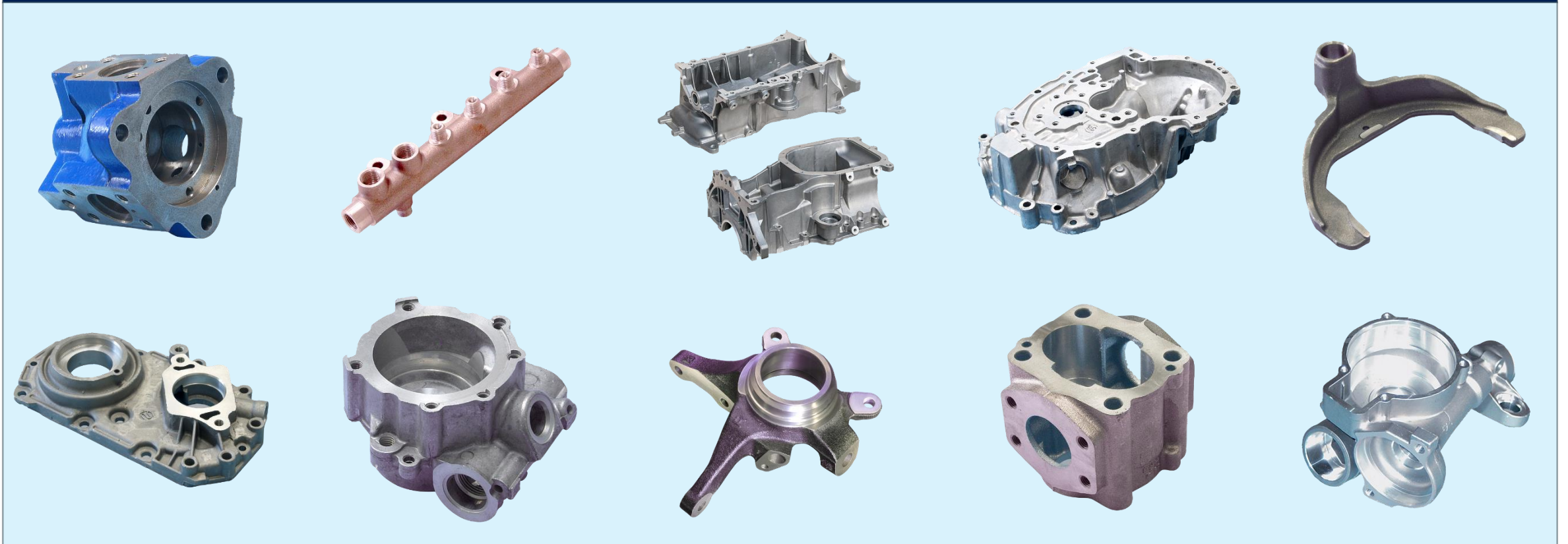
## General machinery





# Technology solutions

## Automotive



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# Service and customer support

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# Premium Service from expert



**Smart Service**  
**Real Time Service support**

Travelling remotely means expert knowledge available at any time to help you help yourself and to reduction of downtimes.



**Service**  
**Pit stop for your machine**

Regular preventive maintenance and servicing protects our machines during their life cycle.



**Spare parts**  
**Just-in-time beats warehousing**

With original spare parts, you get direct manufacturer know-how. Quickly available, state of the art and at a fair price.



**Retrofit**  
**Not only looks better, also runs like new**

Retrofits and first-class overhauls bring your plant up to date, also in terms of energy consumption and CO<sub>2</sub> footprint.

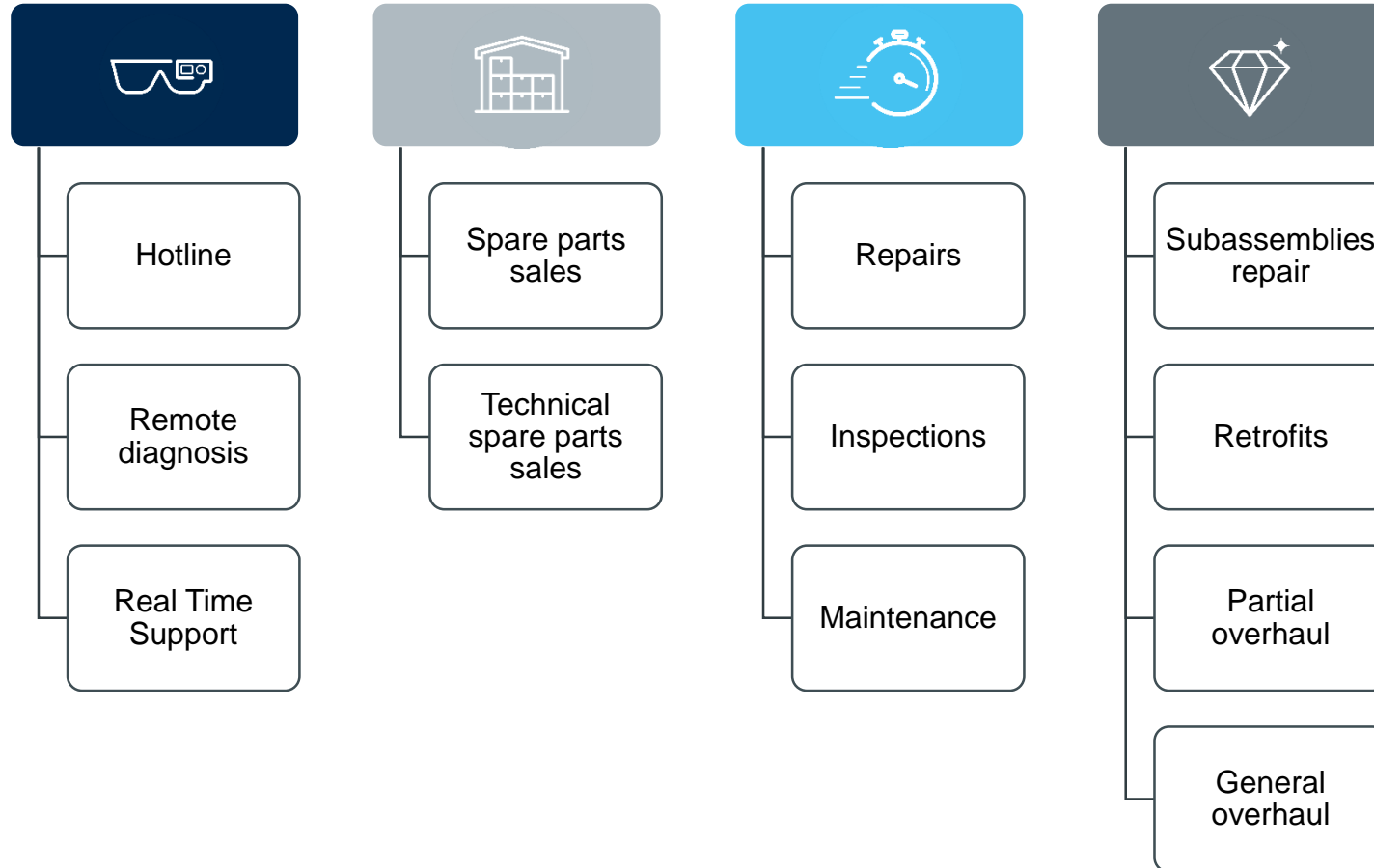
# No time for downtimes

## We are rethinking service at Hüller Hille!

- > Customer centricity, sustainability and the associated conception of new, innovative business models are made possible with digitalisation,
- > We know how to provide our customers with the best possible support for maintenance, servicing and ongoing operation during the machine life cycle,
- > because we see more - with smart glasses, supported by our partner *oculavis*.



# Our service concept



# Our service concept

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- > Competent contact persons for problem localisation and solving
  - > For mechanical and electrical area,
  - > For technology questions forwarding to specialist department,
- > Availability of hotline
  - > Monday to Friday: 7:00 am to 6:00 pm (by phone),
  - > 24|7 online fault message,
- > Direct communication with well skilled contact persons.



# Our service concept

## Services

- > Our Service staff is operating worldwide,
- > In addition, we have further qualified service partners in the following countries
  - > Germany,
  - > Czech Republic | Slovakia | Hungary,
  - > China,
  - > Russia,
  - > India,
  - > Switzerland (planned),
  - > Netherlands (planned).





**Thank you**  
**for your attention!**