



**HÜLLER HILLE**



**Solid. Precise.  
Customised.**

# **PREMIUM MACHINES**

**NBH**  

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**Horizontal  
machining centres**

**4-axis | 5-axis**

# Quality will always prevail

## The Hüller Hille premium promise

We know what we can do and where we want to go. And we're good at what we do. We live for mechanical engineering. Our Hüller Hille 4 and 5-axis machining centres are renowned for their robustness and reliable performance. They meet the most demanding manufacturing criteria. Giving you the optimum setup for your specific discipline. And there's more to us than just milling machines - we offer solutions along the process chain. Our premium service is there for you, 24|7, directly on site or digitally. For maximum machine availability and utilisation in your manufacturing. We deliver quality with added value, 24|7, throughout the entire life cycle of your machine. Trust pays off.



# 4-axis

## Horizontal machining centres

|   |                        |     | NBH 40                   | NBH 50<br>NBH 500        | NBH 60<br>NBH 600        | NBH 63<br>NBH 630              |
|---|------------------------|-----|--------------------------|--------------------------|--------------------------|--------------------------------|
| <b>Pallet size</b>                            |                        | mm  | 400 × 500<br>[500 × 500] | 500 × 500<br>[500 × 630] | 500 × 630<br>[630 × 630] | 630 × 630<br>[800 × 800]       |
| <b>X-axis /<br/>Y-axis /<br/>Z-axis</b>       |                        | mm  | 700 /<br>630 /<br>700    | 900 /<br>800 /<br>900    | 800 /<br>800 /<br>800    | 1000 /<br>850 [1050] /<br>1150 |
| <b>Interference area diameter</b> (flattened) |                        | mm  | 700                      | 900                      | 900                      | 900 (1150)                     |
| <b>Loading height</b>                         | on pallet              | mm  | 1000                     | 1000                     | 950                      | 1300                           |
| <b>Loading weight</b>                         | on pallet              | kg  | 500                      | 800                      | 1000                     | 1500                           |
| <b>Motor spindle</b>                          |                        |     | <b>NBH 40</b>            | <b>NBH 50</b>            | <b>NBH 60</b>            | <b>NBH 63</b>                  |
| <b>Speed</b>                                  | up to                  | rpm | 16,000                   | 16,000                   | 12,000                   | 12,000                         |
| <b>Drive power</b>                            | 40 % duty cycle, up to | kW  | 52                       | 52                       | 66                       | 66                             |
| <b>Torque</b>                                 | 40 % duty cycle, up to | Nm  | 180                      | 180                      | 370                      | 370                            |
| <b>Gear spindle</b>                           |                        |     |                          | <b>NBH 500</b>           | <b>NBH 600</b>           | <b>NBH 630</b>                 |
| <b>Speed</b>                                  | up to                  | rpm |                          | 10,000                   | 10,000                   | 10,000                         |
| <b>Drive power</b>                            | 40 % duty cycle, up to | kW  |                          | 22.5                     | 46                       | 81                             |
| <b>Torque</b>                                 | 40 % duty cycle, up to | Nm  |                          | 466                      | 1130                     | 1236                           |

# 5-axis

|   |                        |         | NBH 630 <sup>BA</sup>          | NBH 630 <sup>C</sup>           | NBH 800 <sup>BA</sup>                  | NBH 800 <sup>C</sup>                   |
|---|------------------------|---------|--------------------------------|--------------------------------|--|--|
| <b>Pallet size</b>                            |                        | mm      | 630 × 630                      | 630 × 630<br>[800 × 800]       | 800 × 800                              | 800 × 800<br>[1000 × 1000]             |
| <b>X-axis /<br/>Y-axis /<br/>Z-axis</b>       |                        | mm      | 1000 /<br>850 [1050] /<br>1150 | 1000 /<br>850 [1050] /<br>1150 | 1400 [1800] /<br>1100 [1400] /<br>1400 | 1400 [1800] /<br>1100 [1400] /<br>1400 |
| <b>Interference area diameter</b> (flattened) |                        | mm      | 900                            | 900 (1150)                     | 1200                                   | 1360 (1600)                            |
| <b>5th axis</b>                               |                        | type    | Swivel rotary table            | Swivel head                    | Swivel rotary table                    | Swivel head                            |
| <b>Swivel range</b>                           |                        | degrees | +30 to -120                    | 0 to -225                      | +30 to -120                            | 0 to -225                              |
| <b>Loading height</b>                         | on pallet              | mm      | 800                            | 1300                           | 1100 [1400]                            | 1500 [1800]                            |
| <b>Loading weight</b>                         | on pallet              | kg      | 900                            | 1500                           | 1200                                   | 2000                                   |
| <b>Motor spindle</b>                          |                        |         | <b>NBH 630<sup>BA</sup></b>    | <b>NBH 630<sup>C</sup></b>     | <b>NBH 800<sup>BA</sup></b>            | <b>NBH 800<sup>C</sup></b>             |
| <b>Speed</b>                                  | up to                  | rpm     | 12,000                         | 16,000                         | 12,000                                 | 16,000                                 |
| <b>Drive power</b>                            | 40 % duty cycle, up to | kW      | 66                             | 42                             | 66                                     | 42                                     |
| <b>Torque</b>                                 | 40 % duty cycle, up to | Nm      | 370                            | 370                            | 370                                    | 370                                    |
| <b>Gear spindle</b>                           |                        |         | <b>NBH 630<sup>BA</sup></b>    |                                | <b>NBH 800<sup>BA</sup></b>            |  |
| <b>Speed</b>                                  | up to                  | rpm     | 10,000                         |                                | 10,000                                 |  |
| <b>Drive power</b>                            | 40 % duty cycle, up to | kW      | 46                             |                                | 80                                     |  |
| <b>Torque</b>                                 | 40 % duty cycle, up to | Nm      | 1130                           |                                | 2600                                   |  |

| <b>NBH 80</b><br><b>NBH 800</b>        | <b>NBH 100</b><br><b>NBH 1000</b> | <b>NBH 1100</b>                                    | <b>NBH 1250</b>                               | <b>NBH 1600</b>                               | <b>NBH 2000</b>                               |
|--|-----------------------------------|--|---|---|---|
| 800 × 800<br>[1000 × 1000]             | 1000 × 1000<br>[1000 × 1200]      | 800 × 1000<br>[1000 × 1000]<br>[1000 × 1250]       | 1250 × 1250<br>[1600 × 1600]                  | 1600 × 1600<br>[2000 × 2000]<br>[2000 × 2500] | 2000 × 2000<br>[2000 × 2500]                  |
| 1400 [1800] /<br>1100 [1400] /<br>1400 | 1800 /<br>1400 /<br>1800          | 1500 [1800/2000] /<br>1300 [1600] /<br>1400 [1600] | 2100 [2800] /<br>1800 [2100] /<br>1800 [2100] | 2800 [3500] /<br>2100 [3000] /<br>2100 [2600] | 4200 [4800] /<br>3000 [3900] /<br>2600 [3200] |
| 1360 [1600]                            | 1700 [2000]                       | 1500 [1800/2000]                                   | 2400 [2700]                                   | 3000 [3500]                                   | 4200 [4800]                                   |
| 1500 [1800]                            | 1800                              | 1800 [2100]  | 2200 [2500]                                   | 2600 [3500]                                   | 3500 [4400]                                   |
| 2000                                   | 3000                              | 3500 [5000]  | 5000 [10,000]                                 | 10,000 [15,000]                               | 20,000<br>[30,000]                            |

| <b>NBH 80</b>  | <b>NBH 100</b>  |                 |                 |                 |                 |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12,000         | 12,000          |                 |                 |                 |                 |
| 66             | 66              |                 |                 |                 |                 |
| 370            | 370             |                 |                 |                 |                 |
| <b>NBH 800</b> | <b>NBH 1000</b> | <b>NBH 1100</b> | <b>NBH 1250</b> | <b>NBH 1600</b> | <b>NBH 2000</b> |
| 10,000         | 10,000          | 10,000          | 10,000          | 10,000          | 10,000          |
| 80             | 80              | 80              | 80              | 80              | 80              |
| 2600           | 2600            | 2600            | 2600            | 2600            | 2600            |

| <b>NBH 1000<sup>A</sup></b>  | <b>NBH 1000<sup>BA</sup></b> | <b>NBH 1100<sup>A</sup></b>                   | <b>NBH 1250<sup>A</sup></b>                   | <b>NBH 1600<sup>A</sup></b>                   | <b>NBH 2000<sup>A</sup></b>                   |
|------------------------------|------------------------------|---|---|---|---|
| 1000 × 1000<br>[1000 × 1250] | 1000 × 1000                  | 800 × 1000<br>[1000 × 1000]<br>[1000 × 1250]  | 1250 × 1250<br>[1600 × 1600]                  | 1600 × 1600<br>[2000 × 2000]<br>[2000 × 2500] | 2000 × 2000<br>[2000 × 2500]                  |
| 1800 /<br>1400 /<br>1800     | 1800 /<br>1400 /<br>1800     | 1500 [2000] /<br>1300 [1600] /<br>1400 [1600] | 2100 [2800] /<br>1800 [2100] /<br>1800 [2100] | 2800 [3500] /<br>2100 [3000] /<br>2100 [2600] | 4200 [4800] /<br>3000 [3900] /<br>2600 [3200] |
| 1700 [2000]                  | 1600                         | 1500 [1800/2000]                              | 2400 [2700]                                   | 3000 [3500]                                   | 4200 [4800]                                   |
| Tilt head                    | Swivel rotary table          | Tilt head                                     | Tilt head                                     | Tilt head                                     | Tilt head                                     |
| +60 to -120                  | +30 to -120                  | +60 to -120                                   | +60 to -120                                   | +60 to -120                                   | +60 to -120                                   |
| 1700                         | 1400                         | 1800 [2100]                                   | 2200 [2500]                                   | 2600 [3500]                                   | 3500 [4400]                                   |
| 3000                         | 2500                         | 3500 [5000]                                   | 5000 [10,000]                                 | 10,000 [15,000]                               | 20,000 [30,000]                               |

| <b>NBH 1000<sup>BA</sup></b> |                              |                             |                             |                             |                             |
|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 12,000                       |                              |                             |                             |                             |                             |
| 66                           |                              |                             |                             |                             |                             |
| 370                          |                              |                             |                             |                             |                             |
| <b>NBH 1000<sup>A</sup></b>  | <b>NBH 1000<sup>BA</sup></b> | <b>NBH 1100<sup>A</sup></b> | <b>NBH 1250<sup>A</sup></b> | <b>NBH 1600<sup>A</sup></b> | <b>NBH 2000<sup>A</sup></b> |
| 6000                         | 10,000                       | 6000                        | 6000                        | 6000                        | 6000                        |
| 46                           | 80                           | 46                          | 46                          | 46                          | 46                          |
| 1390                         | 2600                         | 1390                        | 1390                        | 1390                        | 1390                        |



## Solid. Precise. Customised.

This is what our Hüller Hille machining centres are all about. No matter whether they have 4 axes or 5. We can do both. Our NBH series will impress you with its proverbial Hüller Hille quality - with well-engineered machine concepts that are designed for simultaneous precision machining as well as for heavy-duty cutting. Premium machines for your demanding production processes. Any component, no matter how complex, can be manufactured precisely and with the highest surface quality.

# Extreme power is nothing without perfect precision

## Solid

Robust by tradition. The advanced, stable construction of our NBHs ensures they have a long service life. Powerful work spindles deliver an extraordinary cutting volume during roughing, whilst extreme holding forces in the rotary axes achieve a high surface quality during finishing. Quality always prevails.

## Customised

4 or 5 axes - 10,000 possibilities for all-round perfection. The machining centres can be configured to suit your requirements. We offer individual work-piece and system automation and suitable handling systems. You receive tailor-made machine concepts and turnkey solutions.

## Precise

The robust machine design and high long-term accuracy enable especially dimensionally conforming and contoured workpieces. The complete machining of precision parts with small shape and position tolerances can be carried out with fewer settings to deliver higher machining accuracy. Precision as standard.

## Hüller Hille

Our comprehensive expertise flows into every one of our machines. But we are about more than just technology. Optimal process designs for the best cost structure, energy efficient equipment, ergonomics, ease of maintenance and operation at the workplace, and transparency on the shop floor. Sustainability goes premium.



Sustainability at Hüller Hille

# We're building a better future for you. For everyone.

# Machine portfolio

## Horizontal machining centres



4-axis

| Pallet size in mm | Motor spindle | Gear spindle |
|-------------------|---------------|--------------|
| 400 × 500         | NBH 40        |              |
| 500 × 500         | NBH 50        | NBH 500      |
| 500 × 630         | NBH 60        | NBH 600      |
| 630 × 630         | NBH 63        | NBH 630      |
| 800 × 800         | NBH 80        | NBH 800      |
| 1000 × 1000       | NBH 100       | NBH 1000     |
| 800 × 1000        |               | NBH 1100     |
| 1250 × 1250       |               | NBH 1250     |
| 1600 × 1600       |               | NBH 1600     |
| 2000 × 2500       |               | NBH 2000     |



5-axis

| Pallet size in mm | Swivel rotary table B to A-axis | Swivel head C-axis   | Tilt head A-axis      | Combined milling-turning                       |
|-------------------|---------------------------------|----------------------|-----------------------|--|
| 400 × 500         |                                 |                      |                       |  |
| 500 × 500         |                                 |                      |                       |  |
| 500 × 630         |                                 |                      |                       |  |
| 630 × 630         | NBH 630 <sup>BA</sup>           | NBH 630 <sup>C</sup> |                       | NBH 630 <sup>MT</sup><br>NBH 630 <sup>MT</sup> |
| 800 × 800         | NBH 800 <sup>BA</sup>           | NBH 800 <sup>C</sup> |                       | NBH 800 <sup>C</sup> MT                        |
| 1000 × 1000       | NBH 1000 <sup>BA</sup>          |                      | NBH 1000 <sup>A</sup> | NBH 1000 <sup>C</sup> MT                       |
| 800 × 1000        |                                 |                      | NBH 1100 <sup>A</sup> |  |
| 1250 × 1250       |                                 |                      | NBH 1250 <sup>A</sup> |  |
| 1600 × 1600       |                                 |                      | NBH 1600 <sup>A</sup> |  |
| 2000 × 2500       |                                 |                      | NBH 2000 <sup>A</sup> |  |



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