

HAAS

**ST-28/Y - BMT**

**65 Subspindel**



# High-tech from heimatec - heimatec - Tools and systems for productive turning and milling

heimatec belongs to the international technology and quality leaders for precision tools and specializes in the development and production of high-precision static and live tools for all CNC lathes, CNC turn-/mill machines and CNC machining centers.

The range of products\* spans from static BMT and VDI tool holders, live tools up to highly complex customer-specific individual solutions. heimatec, headquartered in Renchen, has a own subsidiary in Asia and India and numerous representatives as well as trading partners all over the world.

## \*OUR PRODCUTS

Static tool holders

Live tool units

Precision tools

Tools for turning and machining centres

Tools for swiss type lathes

Tool changing and uick-change systems

Tool systems for gear production

Digital tool management

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Part-#

Name

**8 010 66 132****Axial drilling and milling head ER 32 AS UT**

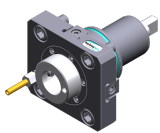
Weight [kg]: 3.340  
 Tool drive: Flat (~DIN 1809)  
 Shank size [mm]: 65.00  
 Shank type: BMT  
 Tool adaption: ER 32 A - u-tec  
 Gear ratio [i]: 1:1  
 Torque max [Nm]: 50  
 Rotation max [1/min]: 6000  
 Rotating direction: same  
 Coolant: EXT  
 Please note: short version

**8 010 66 143****Axial drilling and milling head ER 32 AX UT IC**

Notation: 180° reversible  
 Tool drive: Flat (~DIN 1809)  
 Shank size [mm]: 65.00  
 Shank type: BMT  
 Tool adaption: ER 32 A - u-tec  
 Gear ratio [i]: 1:1  
 Torque max [Nm]: 70  
 Rotation max [1/min]: 12000  
 Rotating direction: same  
 Coolant: IC/Ext  
 Pressure max [bar]: 100  
 Please note: Dryrun possible

**8 010 66 145****Axial drilling and milling head ER 32 AX UT**

Notation: 180° reversible  
 Tool drive: Flat (~DIN 1809)  
 Shank size [mm]: 65.00  
 Shank type: BMT  
 Tool adaption: ER 32 A - u-tec  
 Gear ratio [i]: 1:1  
 Torque max [Nm]: 70  
 Rotation max [1/min]: 12000  
 Rotating direction: same  
 Coolant: EXT  
 Pressure max [bar]: 140

**8 010 67 025****Axial drilling and milling head HT 5**

Weight [kg]: 3.065  
 Tool drive: Flat (~DIN 1809)  
 Shank size [mm]: 65.00  
 Shank type: BMT  
 Tool adaption: HT 5  
 Gear ratio [i]: 1:1  
 Torque max [Nm]: 50  
 Rotation max [1/min]: 6000  
 Rotating direction: same  
 Coolant: EXT

Part-#

Name

**8 010 67 026****Axial drilling and milling head HT 5 IC**

|                       |                  |
|-----------------------|------------------|
| Weight [kg]:          | 3.210            |
| Tool drive:           | Flat (~DIN 1809) |
| Shank size [mm]:      | 65.00            |
| Shank type:           | BMT              |
| Tool adaption:        | HT 5             |
| Gear ratio [i]:       | 1:1              |
| Torque max [Nm]:      | 50               |
| Rotation max [1/min]: | 6000             |
| Rotating direction:   | same             |
| Coolant:              | IC/Ext           |
| Pressure max [bar]:   | 25               |

**8 010 67 132****Axial drilling and milling head ER 40 AX UT**


|                       |                  |
|-----------------------|------------------|
| Weight [kg]:          | 4.870            |
| Tool drive:           | Flat (~DIN 1809) |
| Shank size [mm]:      | 65.00            |
| Shank type:           | BMT              |
| Tool adaption:        | ER 40 A - u-tec  |
| Gear ratio [i]:       | 1:1              |
| Torque max [Nm]:      | 50               |
| Rotation max [1/min]: | 5000             |
| Rotating direction:   | same             |
| Coolant:              | EXT              |
| Please note:          | Combi bearing    |

**8 013 64 008****Axial drilling and milling head ER 16 AX UT**

|                       |                  |
|-----------------------|------------------|
| Weight [kg]:          | 4.050            |
| Tool drive:           | Flat (~DIN 1809) |
| Shank size [mm]:      | 65.00            |
| Shank type:           | BMT              |
| Tool adaption:        | ER 16 A - u-tec  |
| Gear ratio [i]:       | 1:4              |
| Torque max [Nm]:      | 5                |
| Rotation max [1/min]: | 24000            |
| Rotating direction:   | same             |
| Coolant:              | EXT              |

**8 013 64 009****Axial drilling and milling head ER 16 AX UT IC**

|                       |                  |
|-----------------------|------------------|
| Tool drive:           | Flat (~DIN 1809) |
| Shank size [mm]:      | 65.00            |
| Shank type:           | BMT              |
| Tool adaption:        | ER 16 A - u-tec  |
| Gear ratio [i]:       | 1:4              |
| Torque max [Nm]:      | 5                |
| Rotation max [1/min]: | 24000            |
| Rotating direction:   | same             |
| Coolant:              | IC/Ext           |
| Pressure max [bar]:   | 100              |

| Part-#  | Name  |                         |
|---|---|-------------------------|
| <b>8 019 65 065</b>   | <b>Axial drilling and milling head ER 25 AX UT</b>    |                         |
|   | Weight [kg]:  | 6.330                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:2                     |
|   | Torque max [Nm]:                                      | 40                      |
|   | Rotation max [1/min]:                                 | 12000                   |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | EXT                     |
|   | Please note:  | stronger bearing        |
|   | Offset [mm]:  | 50                      |
| <b>8 019 65 066</b>   | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|   | Weight [kg]:  | 7.820                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:2                     |
|   | Torque max [Nm]:                                      | 40                      |
|   | Rotation max [1/min]:                                 | 12000                   |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | IC/Ext                  |
|   | Pressure max [bar]:                                   | 140                     |
|   | Please note:  | stronger bearing        |
|   | Offset [mm]:  | 50                      |
| <b>8 019 65 067</b>   | <b>Axial drilling and milling head ER 25 AX UT</b>    |                         |
|  | Weight [kg]:  | 6.030                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:1                     |
|   | Torque max [Nm]:                                      | 50                      |
|   | Rotation max [1/min]:                                 | 6000                    |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | EXT                     |
|   | Please note:  | stronger bearing        |
|   | Offset [mm]:  | 50                      |
| <b>8 019 65 068</b>   | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|   | Weight [kg]:  | 7.810                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:1                     |
|   | Torque max [Nm]:                                      | 50                      |
|   | Rotation max [1/min]:                                 | 6000                    |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | IC/Ext                  |


| Part-#              | Name  |                         |
|---------------------|---|-------------------------|
|                     | Pressure max [bar]:                                   | 140                     |
|                     | Please note:  | stronger bearing        |
|                     | Offset [mm]:  | 50                      |
| <b>8 019 65 069</b> | <b>Axial drilling and milling head ER 25 AX UT</b>    |                         |
|                     | Weight [kg]:  | 6.380                   |
|                     | Notation:   | offset; 180° reversible |
|                     | Tool drive:   | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 65.00                   |
|                     | Shank type:   | BMT                     |
|                     | Tool adaption:  | ER 25 A - u-tec         |
|                     | Gear ratio [i]:                                       | 1:3                     |
|                     | Torque max [Nm]:                                      | 12                      |
|                     | Rotation max [1/min]:                                 | 15000                   |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:  | EXT                     |
|                     | Please note:  | stronger bearing        |
|                     | Offset [mm]:  | 50                      |
| <b>8 019 65 070</b> | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|                     | Notation:   | offset; 180° reversible |
|                     | Tool drive:   | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 65.00                   |
|                     | Shank type:   | BMT                     |
|                     | Tool adaption:  | ER 25 A - u-tec         |
|                     | Gear ratio [i]:                                       | 1:3                     |
|                     | Torque max [Nm]:                                      | 12                      |
|                     | Rotation max [1/min]:                                 | 15000                   |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:  | IC/Ext                  |
|                     | Pressure max [bar]:                                   | 140                     |
|                     | Please note:  | stronger bearing        |
|                     | Offset [mm]:  | 50                      |
| <b>8 019 65 072</b> | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|                     | Weight [kg]:  | 9.180                   |
|                     | Notation:   | offset; 180° reversible |
|                     | Tool drive:   | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 65.00                   |
|                     | Shank type:   | BMT                     |
|                     | Tool adaption:  | ER 25 A - u-tec         |
|                     | Gear ratio [i]:                                       | 2:1                     |
|                     | Torque max [Nm]:                                      | 80                      |
|                     | Rotation max [1/min]:                                 | 3000                    |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:  | IC/Ext                  |
|                     | Pressure max [bar]:                                   | 140                     |
|                     | Please note:  | stronger bearing        |
|                     | Offset [mm]:  | 50                      |
| <b>8 019 66 014</b> | <b>Axial drilling and milling head ER 32 AX UT IC</b> |                         |
|                     | Weight [kg]:  | 10.740                  |
|                     | Notation:   | offset;                 |
|                     | Tool drive:   | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 65.00                   |
|                     | Shank type:   | BMT                     |
|                     | Tool adaption:  | ER 32 A - u-tec         |



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## ST-28/Y - BMT 65 Subspindel

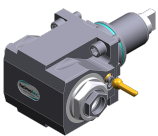
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| Part-#  | Name   |                  |
|---|--|------------------|
|   | Gear ratio [i]:  | 1:1              |
|   | Torque max [Nm]:                                       | 100              |
|   | Rotation max [1/min]:                                  | 6000             |
|   | Rotating direction:                                    | opposite         |
|   | Coolant:   | IC/Ext           |
|   | Pressure max [bar]:                                    | 140              |
|   | Please note:   | stronger bearing |
|   | Offset [mm]:   | 75               |
| <b>8 030 64 021</b>   | <b>Radial drilling and milling head ER 16 AX UT</b>    |                  |
|  | Weight [kg]:   | 8.030            |
|   | Notation:  | 180° reversible  |
|   | Tool drive:  | Flat (~DIN 1809) |
|   | Shank size [mm]:                                       | 65.00            |
|   | Shank type:  | BMT              |
|   | Tool adaption:   | ER 16 A - u-tec  |
|   | Gear ratio [i]:  | 1:4              |
|   | Torque max [Nm]:                                       | 5                |
|   | Rotation max [1/min]:                                  | 24000            |
|   | Rotating direction:                                    | opposite         |
|   | Coolant:   | EXT              |
|   | Center distance [mm]:                                  | 72               |
| <b>8 030 64 023</b>   | <b>Radial drilling and milling head ER 16 AX UT IC</b> |                  |
|   | Weight [kg]:   | 8.540            |
|   | Notation:  | 180° reversible  |
|   | Tool drive:  | Flat (~DIN 1809) |
|   | Shank size [mm]:                                       | 65.00            |
|   | Shank type:  | BMT              |
|   | Tool adaption:   | ER 16 A - u-tec  |
|   | Gear ratio [i]:  | 1:4              |
|   | Torque max [Nm]:                                       | 5                |
|   | Rotation max [1/min]:                                  | 24000            |
|   | Rotating direction:                                    | opposite         |
|   | Coolant:   | IC/Ext           |
|   | Pressure max [bar]:                                    | 140              |
|   | Center distance [mm]:                                  | 72               |
| <b>8 030 65 045</b>   | <b>Radial drilling and milling head ER 25 AX UT IC</b> |                  |
|   | Weight [kg]:   | 7.200            |
|   | Notation:  | 180° reversible  |
|   | Tool drive:  | Flat (~DIN 1809) |
|   | Shank size [mm]:                                       | 65.00            |
|   | Shank type:  | BMT              |
|   | Tool adaption:   | ER 25 A - u-tec  |
|   | Gear ratio [i]:  | 1:3              |
|   | Torque max [Nm]:                                       | 12               |
|   | Rotation max [1/min]:                                  | 18000            |
|   | Rotating direction:                                    | same             |
|   | Coolant:   | IC/Ext           |
|   | Pressure max [bar]:                                    | 140              |
|   | Please note:   | stronger bearing |
|   | Center distance [mm]:                                  | 80               |

## Part-#

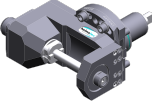
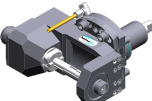
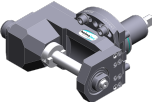
## Name


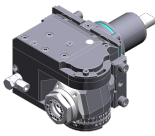
|                     |  |                  |
|---------------------|--|------------------|
| <b>8 030 65 095</b> | <b>Radial drilling and milling head ER 25 AS UT</b>    |                  |
|                     | Weight [kg]:   | 7.730            |
|                     | Notation:  | 180° reversible  |
|                     | Tool drive:  | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 65.00            |
|                     | Shank type:  | BMT              |
|                     | Tool adaption:   | ER 25 A - u-tec  |
|                     | Gear ratio [i]:  | 1:1              |
|                     | Torque max [Nm]:                                       | 70               |
|                     | Rotation max [1/min]:                                  | 10000            |
|                     | Rotating direction:                                    | same             |
|                     | Coolant:   | EXT              |
|                     | Center distance [mm]:                                  | 72               |
| <b>8 030 65 097</b> | <b>Radial drilling and milling head ER 25 AS UT IC</b> |                  |
|                     | Weight [kg]:   | 8.550            |
|                     | Notation:  | 180° reversible  |
|                     | Tool drive:  | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 65.00            |
|                     | Shank type:  | BMT              |
|                     | Tool adaption:   | ER 25 A - u-tec  |
|                     | Gear ratio [i]:  | 1:1              |
|                     | Torque max [Nm]:                                       | 70               |
|                     | Rotation max [1/min]:                                  | 10000            |
|                     | Rotating direction:                                    | same             |
|                     | Coolant:   | IC/Ext           |
|                     | Pressure max [bar]:                                    | 140              |
|                     | Center distance [mm]:                                  | 72               |
| <b>8 030 66 123</b> | <b>Radial drilling and milling head ER 32 AS UT IC</b> |                  |
|                     | Weight [kg]:   | 8.450            |
|                     | Notation:  | 180° reversible  |
|                     | Tool drive:  | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 65.00            |
|                     | Shank type:  | BMT              |
|                     | Tool adaption:   | ER 32 A - u-tec  |
|                     | Gear ratio [i]:  | 1:1              |
|                     | Torque max [Nm]:                                       | 70               |
|                     | Rotation max [1/min]:                                  | 6000             |
|                     | Rotating direction:                                    | same             |
|                     | Coolant:   | IC/Ext           |
|                     | Pressure max [bar]:                                    | 140              |
|                     | Please note:   | stronger bearing |
|                     | Center distance [mm]:                                  | 72               |
| <b>8 030 66 155</b> | <b>Radial drilling and milling head ER 32 AS UT</b>    |                  |
|                     | Notation:  | 180° reversible  |
|                     | Tool drive:  | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 65.00            |
|                     | Shank type:  | BMT              |
|                     | Tool adaption:   | ER 32 A - u-tec  |
|                     | Gear ratio [i]:  | 2:1              |
|                     | Torque max [Nm]:                                       | 80               |
|                     | Rotation max [1/min]:                                  | 3000             |
|                     | Rotating direction:                                    | opposite         |
|                     | Coolant:   | EXT              |
|                     | Center distance [mm]:                                  | 72               |



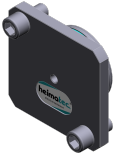

| Part-#              | Name   |  |
|---------------------|--|--|
| <b>8 030 66 158</b> | <b>Radial drilling and milling head ER 32 AS UT IC</b> |  |
|                     | Weight [kg]:   | 9.150                                  |
|                     | Notation:  | 180° reversible                        |
|                     | Tool drive:  | Flat (~DIN 1809)                       |
|                     | Shank size [mm]:                                       | 65.00                                  |
|                     | Shank type:  | BMT                                    |
|                     | Tool adaption:   | ER 32 A - u-tec                        |
|                     | Gear ratio [i]:  | 2:1                                    |
|                     | Torque max [Nm]:                                       | 63                                     |
|                     | Rotation max [1/min]:                                  | 3000                                   |
|                     | Rotating direction:                                    | opposite                               |
|                     | Coolant:   | IC/Ext                                 |
|                     | Pressure max [bar]:                                    | 140                                    |
|                     | Please note:   | Rotating direction note; combi bearing |
|                     | Center distance [mm]:                                  | 72                                     |
| <b>8 030 66 224</b> | <b>Radial drilling and milling head C 4 IC</b>         |  |
|                     | Weight [kg]:   | 10.070                                 |
|                     | Notation:  | 180° reversible                        |
|                     | Tool drive:  | Flat (~DIN 1809)                       |
|                     | Shank size [mm]:                                       | 65.00                                  |
|                     | Shank type:  | BMT                                    |
|                     | Tool adaption:   | heimatec Capto(TM) C 4                 |
|                     | Gear ratio [i]:  | 1:1                                    |
|                     | Torque max [Nm]:                                       | 50                                     |
|                     | Rotation max [1/min]:                                  | 6000                                   |
|                     | Rotating direction:                                    | opposite                               |
|                     | Coolant:   | IC/Ext                                 |
|                     | Pressure max [bar]:                                    | 140                                    |
|                     | Please note:   | Check applicability; note tool length! |
|                     | Center distance [mm]:                                  | 72                                     |
| <b>8 030 66 229</b> | <b>Radial drilling and milling head ER 32 IC</b>       |  |
|                     | Weight [kg]:   | 8.630                                  |
|                     | Notation:  | 180° reversible                        |
|                     | Tool drive:  | Flat (~DIN 1809)                       |
|                     | Shank size [mm]:                                       | 65.00                                  |
|                     | Shank type:  | BMT                                    |
|                     | Tool adaption:   | ER 32                                  |
|                     | Gear ratio [i]:  | 1:1                                    |
|                     | Torque max [Nm]:                                       | 70                                     |
|                     | Rotation max [1/min]:                                  | 6000                                   |
|                     | Rotating direction:                                    | same                                   |
|                     | Coolant:   | IC/Ext                                 |
|                     | Pressure max [bar]:                                    | 140                                    |
|                     | Center distance [mm]:                                  | 72                                     |
| <b>8 030 66 239</b> | <b>Radial drilling and milling head ER 32 AS UT</b>    |  |
|                     | Weight [kg]:   | 8.200                                  |
|                     | Notation:  | 180° reversible                        |
|                     | Tool drive:  | Flat (~DIN 1809)                       |
|                     | Shank size [mm]:                                       | 65.00                                  |
|                     | Shank type:  | BMT                                    |
|                     | Tool adaption:   | ER 32 A - u-tec                        |
|                     | Gear ratio [i]:  | 1:1                                    |
|                     | Torque max [Nm]:                                       | 70                                     |
|                     | Rotation max [1/min]:                                  | 10000                                  |
|                     | Rotating direction:                                    | same                                   |





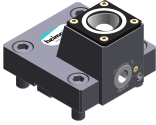
| Part-#  | Name  |                                       |
|---|---|---------------------------------------|
|   | Coolant:  | EXT                                   |
|   | Pressure max [bar]:                                 | 140                                   |
|   | Center distance [mm]:                               | 72                                    |
| <b>8 030 67 153</b>   | <b>Radial drilling and milling head ER 40 AX UT</b> |                                       |
|   | Weight [kg]:  | 8.260                                 |
|   | Notation:   | 180° reversible                       |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | ER 40 A - u-tec                       |
|   | Gear ratio [i]:                                     | 1:1                                   |
|   | Torque max [Nm]:                                    | 70                                    |
|   | Rotation max [1/min]:                               | 6000                                  |
|   | Rotating direction:                                 | same                                  |
|   | Coolant:  | EXT                                   |
|   | Please note:  | stronger bearing                      |
|   | Center distance [mm]:                               | 72                                    |
| <b>8 037 64 039</b>   | <b>Radial disk mill head arbor 16</b>               |                                       |
|   | Weight [kg]:  | 11.860                                |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | Arbor 16                              |
|   | Gear ratio [i]:                                     | 2:1                                   |
|   | Torque max [Nm]:                                    | 63                                    |
|   | Rotation max [1/min]:                               | 3000                                  |
|   | Rotating direction:                                 | same                                  |
|   | Coolant:  | no                                    |
|   | Please note:  | strong version; stronger bearing; use |
|   | Center distance [mm]:                               | 87,5                                  |
| <b>8 037 64 040</b>   | <b>Radial disk mill head arbor 16</b>               |                                       |
|  | Weight [kg]:  | 11.610                                |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | Arbor 16                              |
|   | Gear ratio [i]:                                     | 2:1                                   |
|   | Torque max [Nm]:                                    | 63                                    |
|   | Rotation max [1/min]:                               | 3000                                  |
|   | Rotating direction:                                 | same                                  |
|   | Coolant:  | EXT                                   |
|   | Please note:  | strong version; stronger bearing; use |
|   | Center distance [mm]:                               | 87,5                                  |
| <b>8 037 65 008</b>   | <b>Radial disk mill head arbor 22</b>               |                                       |
|  | Weight [kg]:  | 12.060                                |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | Arbor 22                              |
|   | Gear ratio [i]:                                     | 2:1                                   |
|   | Torque max [Nm]:                                    | 63                                    |
|   | Rotation max [1/min]:                               | 3000                                  |
|   | Rotating direction:                                 | same                                  |



| Part-#  | Name  |                                       |
|---|---|---------------------------------------|
|   | Coolant:  | no                                    |
|   | Please note:  | strong version; stronger bearing; use |
|   | Center distance [mm]:                               | 87,5                                  |
| <b>8 039 65 033</b>   | <b>Radial drilling and milling head ER 25 AX UT</b> |                                       |
|   | Weight [kg]:  | 7.930                                 |
|   | Notation:   | 180° reversible                       |
|   | Employment for:                                     | Main- and sub spindle                 |
|   | Version:  | double spindle                        |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | ER 25 A - u-tec                       |
|   | Gear ratio [i]:                                     | 1:2                                   |
|   | Torque max [Nm]:                                    | 16                                    |
|   | Rotation max [1/min]:                               | 12000                                 |
|   | Rotating direction:                                 | same/opposite                         |
|   | Coolant:  | EXT                                   |
|   | Please note:  | stronger bearing                      |
|   | Center distance [mm]:                               | 80                                    |
| <b>8 039 66 025</b>   | <b>Radial drilling and milling head ER 32 AS UT</b> |                                       |
|  | Weight [kg]:  | 8.700                                 |
|   | Notation:   | 180° reversible                       |
|   | Employment for:                                     | Main- and sub spindle                 |
|   | Version:  | double spindle                        |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | ER 32 A - u-tec                       |
|   | Gear ratio [i]:                                     | 1:1                                   |
|   | Torque max [Nm]:                                    | 70                                    |
|   | Rotation max [1/min]:                               | 10000                                 |
|   | Rotating direction:                                 | same/opposite                         |
|   | Coolant:  | EXT                                   |
|   | Please note:  | stronger bearing                      |
|   | Center distance [mm]:                               | 72                                    |
| <b>8 043 65 000</b>   | <b>Universal head +135°/-30° adj. ER25 AX UT</b>    |                                       |
|  | Weight [kg]:  | 10.800                                |
|   | Notation:   | offset; 180° reversible               |
|   | Tool drive:   | Flat (~DIN 1809)                      |
|   | Shank size [mm]:                                    | 65.00                                 |
|   | Shank type:   | BMT                                   |
|   | Tool adaption:                                      | ER 25 A - u-tec                       |
|   | Gear ratio [i]:                                     | 1:1                                   |
|   | Torque max [Nm]:                                    | 25                                    |
|   | Rotation max [1/min]:                               | 6000                                  |
|   | Rotating direction:                                 | same                                  |
|   | Coolant:  | EXT                                   |
|   | Please note:  | stronger bearing; note tool length!   |
|   | Center distance [mm]:                               | 69                                    |
|   | Offset [mm]:  | 60                                    |


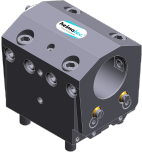
| Part-#  | Name  |   |
|---|---|---|
|    | <b>8 043 65 004</b>   | <b>Universal head +135°/-30° adj. ER25AX UTIK</b> |
|   | Weight [kg]:  | 10.080  |
|   | Notation:   | offset; 180° reversible                           |
|   | Tool drive:   | Flat (~DIN 1809)                                  |
|   | Shank size [mm]:  | 65.00   |
|   | Shank type:   | BMT   |
|   | Tool adaption:  | ER 25 A - u-tec                                   |
|   | Gear ratio [i]:   | 1:1   |
|   | Torque max [Nm]:  | 25  |
|   | Rotation max [1/min]:   | 6000  |
|   | Rotating direction:   | same  |
|   | Coolant:  | IC/Ext  |
|   | Pressure max [bar]:   | 140   |
|   | Please note:  | stronger bearing                                  |
| Center distance [mm]:   | 69  |   |
| Offset [mm]:  | 60  |   |
|   | <b>8 050 65 011</b>   | <b>Multispindle drilling head ER 25 AX UT</b>     |
|   | Weight [kg]:  | 6.700   |
|   | Version:  | 2-spindles  |
|   | Tool drive:   | Flat (~DIN 1809)                                  |
|   | Shank size [mm]:  | 65.00   |
|   | Shank type:   | BMT   |
|   | Tool adaption:  | ER 25 A - u-tec                                   |
|   | Gear ratio [i]:   | 1:1   |
|   | Torque max [Nm]:  | 32/Sp.  |
|   | Rotation max [1/min]:   | 6000  |
|   | Rotating direction:   | opposite  |
|   | Coolant:  | EXT   |
|   | Please note:  | stronger bearing                                  |
|   |  | <b>8 050 65 012</b>                               |
| Weight [kg]:  |   | 6.740   |
| Tool drive:   |   | Flat (~DIN 1809)                                  |
| Shank size [mm]:  |   | 65.00   |
| Shank type:   |   | BMT   |
| Tool adaption:  |   | ER 25 A - u-tec                                   |
| Gear ratio [i]:   |   | 1:1   |
| Torque max [Nm]:  |   | 32/Sp.  |
| Rotation max [1/min]:   |   | 6000  |
| Rotating direction:   |   | opposite  |
| Coolant:  |   | IC/Ext  |
| Pressure max [bar]:   |   | 25  |
| Please note:  |   | stronger bearing                                  |
|  |   | <b>8 050 66 005</b>                               |
|   | Weight [kg]:  | 12.500  |
|   | Notation:   | 180° reversible                                   |
|   | Employment for:   | Main- and sub spindle                             |
|   | Version:  | 2-spindles  |
|   | Tool drive:   | Flat (~DIN 1809)                                  |
|   | Shank size [mm]:  | 65.00   |
|   | Shank type:   | BMT   |
|   | Tool adaption:  | heimatec Capto(TM) C 4                            |
|   | Gear ratio [i]:   | 1:1   |
|   | Torque max [Nm]:  | 50  |
| Rotation max [1/min]:   | 6000  |   |

| Part-#  | Name  |  |
|---|---|--|
|   | Rotating direction:                           | opposite                                 |
|   | Coolant:                                      | EXT                                      |
|   | Please note:                                  | Check applicability; tool length check ! |
|   | Offset [mm]:                                  | 62                                       |
|   |   | 62                                       |
| <b>8 053 65 019</b>   | <b>Multispindle radial head ER 25 AX UT</b>   |  |
|   | Weight [kg]:                                  | 11.230                                   |
|   | Notation:                                     | 180° reversible                          |
|   | Version:                                      | 2-spindles                               |
|   | Tool drive:                                   | Flat (~DIN 1809)                         |
|   | Shank size [mm]:                              | 65.00                                    |
|   | Shank type:                                   | BMT                                      |
|   | Tool adaption:                                | ER 25 A - u-tec                          |
|   | Gear ratio [i]:                               | 1:1                                      |
|   | Torque max [Nm]:                              | 32/Sp                                    |
|   | Rotation max [1/min]:                         | 6000                                     |
|   | Rotating direction:                           | same                                     |
|   | Coolant:                                      | EXT                                      |
|   | Center distance [mm]:                         | 72                                       |
| <b>8 053 65 022</b>   | <b>Multispindle radial head ER 25 AXUT IC</b> |  |
|   | Weight [kg]:                                  | 12.050                                   |
|   | Notation:                                     | 180° reversible                          |
|   | Version:                                      | 2-spindles                               |
|   | Tool drive:                                   | Flat (~DIN 1809)                         |
|   | Shank size [mm]:                              | 65.00                                    |
|   | Shank type:                                   | BMT                                      |
|   | Tool adaption:                                | ER 25 A - u-tec                          |
|   | Gear ratio [i]:                               | 1:1                                      |
|   | Torque max [Nm]:                              | 32/Sp                                    |
|   | Rotation max [1/min]:                         | 6000                                     |
|   | Rotating direction:                           | same                                     |
|   | Coolant:                                      | IC/Ext                                   |
|   | Pressure max [bar]:                           | 140                                      |
|   | Center distance [mm]:                         | 72                                       |
| <b>8 200 62 006</b>   | <b>Cover plate 96,0x100,0x 10,0</b>           |  |
|  | Weight [kg]:                                  | 1.340                                    |
|   | Shank size [mm]:                              | 65.00                                    |
|   | Shank type:                                   | BMT                                      |
| <b>8 202 10 009</b>   | <b>Basic holder longitudinal seat FN 12</b>   |  |
|  | Weight [kg]:                                  | 1.490                                    |
|   | Notation:                                     | 180° reversible                          |
|   | Shank type:                                   | BMT                                      |
|   | Machine adaption:                             | Centering key b 18                       |
|   | Tool adaption:                                | Interface FN 12                          |
|   | Coolant:                                      | EXT                                      |

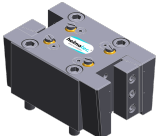
| Part-#  | Name                                      |                           |
|---|---|---------------------------|
| <b>8 224 13 015</b>   | <b>Cut-off holder SH 32</b>               |                           |
|    | Weight [kg]:                              | 1.870                     |
|   | Employment for:                           | Cut-off tool 32           |
|   | Version:                                  | Clampshaft on turret side |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Clampshaft SH 32          |
|   | Coolant:                                  | EXT                       |
| <b>8 224 15 005</b>   | <b>Universal turning holder sq. 25</b>    |                           |
|    | Weight [kg]:                              | 3.960                     |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 25                    |
|   | Coolant:                                  | EXT                       |
|   | Pressure max [bar]:                       | 80                        |
| <b>8 224 15 006</b>   | <b>Universal turning holder sq. 25</b>    |                           |
|   | Weight [kg]:                              | 4.590                     |
|   | Notation:                                 | 180° reversible           |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 25                    |
|   |   | Sq. 25                    |
|   | Coolant:                                  | EXT                       |
|   | Pressure max [bar]:                       | 80                        |
| <b>8 224 15 016</b>   | <b>Universal turning holder sq. 1"</b>    |                           |
|  | Weight [kg]:                              | 4.580                     |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 1" (25,4mm)           |
|   |   | Sq. 1" (25,4mm)           |
|   | Coolant:                                  | EXT                       |
| <b>8 224 15 049</b>   | <b>Universal turning holder sq. 1"</b>    |                           |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 1" (25,4mm)           |
|   |   | Sq. 1" (25,4mm)           |
|   | Coolant:                                  | EXT                       |
| <b>8 224 15 052</b>   | <b>Universal turning holder sq. 25 IC</b> |                           |
|  | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 25                    |
|   |   | Sq. 25                    |
|   | Coolant:                                  | IC/Ext                    |
|   | Pressure max [bar]:                       | 100                       |
|   | Please note:                              | Key rail                  |

| Part-#  | Name                                      |  |
|---|---|--|
| <b>8 224 15 053</b>   | <b>Universal turning holder sq. 25 IC</b> |  |
|    | Weight [kg]:                              | 4.690                                  |
|   | Notation:                                 | 180° reversible                        |
|   | Shank type:                               | BMT                                    |
|   | Machine adaption:                         | Centering key b 18                     |
|   | Tool adaption:                            | Sq. 25                                 |
|   |   | Sq. 25                                 |
|   | Coolant:                                  | IC/Ext                                 |
|   | Pressure max [bar]:                       | 100                                    |
|   | Please note:                              | Key rail                               |
| <b>8 224 15 056</b>   | <b>Universal turning holder sq. 1" IC</b> |  |
|    | Notation:                                 | 180° reversible                        |
|   | Shank type:                               | BMT                                    |
|   | Machine adaption:                         | Centering key b 18                     |
|   | Tool adaption:                            | Sq. 1" (25,4mm)                        |
|   |   | Sq. 1" (25,4mm)                        |
|   | Coolant:                                  | IC/Ext                                 |
|   | Pressure max [bar]:                       | 100                                    |
|   | Please note:                              | Key rail                               |
| <b>8 229 16 012</b>   | <b>Tool holder C 4 IC</b>                 |  |
|  | Weight [kg]:                              | 3.300                                  |
|   | Notation:                                 | 180° reversible                        |
|   | Version:                                  | right                                  |
|   | Shank type:                               | BMT                                    |
|   | Machine adaption:                         | Centering key b 18                     |
|   | Tool adaption:                            | heimatec Capto(TM) C 4                 |
|   | Coolant:                                  | IC                                     |
|   | Please note:                              | Check applicability; note tool length! |
|   | Offset [mm]:                              | 31                                     |
| <b>8 240 16 036</b>   | <b>Collet chuck holder ER 32</b>          |  |
|   | Weight [kg]:                              | 7.370                                  |
|   | Notation:                                 | 180° reversible                        |
|   | Employment for:                           | Main- and sub spindle                  |
|   | Shank type:                               | BMT                                    |
|   | Machine adaption:                         | Centering key b 18                     |
|   | Tool adaption:                            | ER 32                                  |
|   | Coolant:                                  | IC/Ext                                 |
|   | Pressure max [bar]:                       | 80                                     |
|   | Center distance [mm]:                     | 72                                     |
| <b>8 240 16 043</b>   | <b>Tool holder C 4 IC</b>                 |  |
|   | Weight [kg]:                              | 7.320                                  |
|   | Notation:                                 | 180° reversible                        |
|   | Employment for:                           | right cutting tools                    |
|   | Shank type:                               | BMT                                    |
|   | Machine adaption:                         | Centering key b 18                     |
|   | Tool adaption:                            | heimatec Capto(TM) C 4                 |
|   | Coolant:                                  | IC/Ext                                 |
|   | Center distance [mm]:                     | 72                                     |

| Part-#  | Name                                    |                        |
|---|---|------------------------|
| 8 240 17 044  | <b>Boring bar holder Ø 25</b>           |                        |
|    | Weight [kg]:                            | 8.200                  |
|   | Notation:                               | 180° reversible        |
|   | Employment for:                         | Main- and sub spindle  |
|   | Shank type:                             | BMT                    |
|   | Machine adaption:                       | Centering key b 18     |
|   | Tool adaption:                          | Ø 25                   |
|   | Coolant:                                | IC/Ext                 |
|   | Center distance [mm]:                   | 72                     |
| 8 240 17 059  | <b>Tool holder C 5 IC</b>               |                        |
|   | Weight [kg]:                            | 7.880                  |
|   | Notation:                               | 180° reversible        |
|   | Employment for:                         | right cutting tools    |
|   | Shank type:                             | BMT                    |
|   | Machine adaption:                       | Centering key b 18     |
|   | Tool adaption:                          | heimatec Capto(TM) C 5 |
|   | Coolant:                                | IC/Ext                 |
|   | Center distance [mm]:                   | 72                     |
| 8 240 17 076  | <b>Boring bar holder Ø 1"</b>           |                        |
|   | Weight [kg]:                            | 8.120                  |
|   | Notation:                               | 180° reversible        |
|   | Employment for:                         | Main- and sub spindle  |
|   | Shank type:                             | BMT                    |
|   | Machine adaption:                       | Centering key b 18     |
|   | Tool adaption:                          | Ø 1" (25,4mm)          |
|   | Coolant:                                | IC/Ext                 |
|   | Center distance [mm]:                   | 72                     |
| 8 240 17 091  | <b>Boring bar holder Ø 25 - slotted</b> |                        |
|   | Weight [kg]:                            | 4.860                  |
|   | Notation:                               | 180° reversible        |
|   | Version:                                | slotted                |
|   | Shank type:                             | BMT                    |
|   | Machine adaption:                       | Centering key b 18     |
|   | Tool adaption:                          | Ø 25                   |
|   | Coolant:                                | EXT                    |
|   | Center distance [mm]:                   | 72                     |
| 8 240 18 089  | <b>Boring bar holder Ø 32</b>           |                        |
|  | Weight [kg]:                            | 7.900                  |
|   | Notation:                               | 180° reversible        |
|   | Employment for:                         | Main- and sub spindle  |
|   | Shank type:                             | BMT                    |
|   | Machine adaption:                       | Centering key b 18     |
|   | Tool adaption:                          | Ø 32                   |
|   | Coolant:                                | IC/Ext                 |
|   | Center distance [mm]:                   | 72                     |

| Part-#  | Name                                    |                       |
|---|---|-----------------------|
| <b>8 240 19 032</b>   | <b>Boring bar holder Ø 40</b>           |                       |
|  | Weight [kg]:                            | 7.671                 |
|   | Notation:                               | 180° reversible       |
|   | Employment for:                         | Main- and sub spindle |
|   | Shank type:                             | BMT                   |
|   | Machine adaption:                       | Centering key b 18    |
|   | Tool adaption:                          | Ø 40                  |
|   | Coolant:                                | IC/Ext                |
|   | Pressure max [bar]:                     | 80                    |
|   | Center distance [mm]:                   | 72                    |
| <b>8 240 19 048</b>   | <b>Boring bar holder Ø 2"</b>           |                       |
|  | Weight [kg]:                            | 6.780                 |
|   | Notation:                               | 180° reversible       |
|   | Employment for:                         | Main- and sub spindle |
|   | Shank type:                             | BMT                   |
|   | Machine adaption:                       | Centering key b 18    |
|   | Tool adaption:                          | Ø 2" (50,8mm)         |
|   | Coolant:                                | IC/Ext                |
|   | Center distance [mm]:                   | 72                    |
| <b>8 240 19 067</b>   | <b>Boring bar holder Ø 50</b>           |                       |
|   | Weight [kg]:                            | 6.860                 |
|   | Notation:                               | 180° reversible       |
|   | Employment for:                         | Main- and sub spindle |
|   | Shank type:                             | BMT                   |
|   | Machine adaption:                       | Centering key b 18    |
|   | Tool adaption:                          | Ø 50                  |
|   | Coolant:                                | IC/Ext                |
|   | Pressure max [bar]:                     | 80                    |
|   | Center distance [mm]:                   | 72                    |
| <b>8 240 19 101</b>   | <b>Boring bar holder Ø 40 - slotted</b> |                       |
|   | Weight [kg]:                            | 4.390                 |
|   | Notation:                               | 180° reversible       |
|   | Version:                                | slotted               |
|   | Shank type:                             | BMT                   |
|   | Machine adaption:                       | Centering key b 18    |
|   | Tool adaption:                          | Ø 40                  |
|   | Coolant:                                | EXT                   |
|   | Center distance [mm]:                   | 72                    |
| <b>8 240 19 128</b>   | <b>Boring bar holder Ø 1 1/2"</b>       |                       |
|   | Weight [kg]:                            | 7.260                 |
|   | Notation:                               | 180° reversible       |
|   | Employment for:                         | Main- and sub spindle |
|   | Shank type:                             | BMT                   |
|   | Machine adaption:                       | Centering key b 18    |
|   | Tool adaption:                          | Ø 1 1/2" (38,1mm)     |
|   | Coolant:                                | IC/Ext                |
|   | Center distance [mm]:                   | 72                    |

| Part-#  | Name                                      |                         |
|---|---|-------------------------|
| 8 240 19 132  | <b>Boring bar holder Ø 40</b>             |                         |
|    | Weight [kg]:                              | 7.500                   |
|   | Notation:                                 | 180° reversible         |
|   | Employment for:                           | Main- and sub spindle   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | Ø 40                    |
|   | Coolant:                                  | IC/Ext                  |
|   | Center distance [mm]:                     | 72                      |
| 8 244 15 005  | <b>Combi facing holder sq. 25</b>         |                         |
|    | Weight [kg]:                              | 6.510                   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key slot b 18 |
|   | Tool adaption:                            | Sq. 25                  |
|   | Coolant:                                  | EXT                     |
|   | Pressure max [bar]:                       | 80                      |
| 8 244 15 006  | <b>Combi facing holder sq. 1"</b>         |                         |
|   | Weight [kg]:                              | 6.530                   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key slot b 18 |
|   | Tool adaption:                            | Sq. 1" (25,4mm)         |
|   | Coolant:                                  | EXT                     |
| 8 249 15 012  | <b>Double collet chuck holder ER 25</b>   |                         |
|  | Notation:                                 | 180° reversible         |
|   | Employment for:                           | Main- and sub spindle   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | ER 25                   |
|   | Coolant:                                  | IC/Ext                  |
|   | Center distance [mm]:                     | 72                      |
| 8 249 16 007  | <b>Double collet chuck holder ER 32</b>   |                         |
|  | Weight [kg]:                              | 6.160                   |
|   | Notation:                                 | 180° reversible         |
|   | Employment for:                           | Main- and sub spindle   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | ER 32                   |
|   | Coolant:                                  | IC/Ext                  |
|   | Center distance [mm]:                     | 72                      |
| 8 251 15 003  | <b>Combi double turning holder sq. 25</b> |                         |
|  | Notation:                                 | 180° reversible         |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | Sq. 25                  |
|   |   | Sq. 25                  |
|   |   | Sq. 25                  |
|   |   | Sq. 25                  |
|   | Coolant:                                  | EXT                     |
|   | Pressure max [bar]:                       | 80                      |

| Part-#  | Name   |                       |
|---|--|-----------------------|
| <b>8 251 15 008</b>   | <b>Combi double turning holder sq. 1"</b>    |                       |
|    | Weight [kg]:                                 | 6.590                 |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 1" (25,4mm)       |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 026</b>   | <b>Combi multiple holder sq. 1"</b>          |                       |
|   | Weight [kg]:                                 | 5.530                 |
|   | Employment for:                              | Main spindle          |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 1" (25,4mm)       |
|   |  | Sq. 1" (25,4mm)       |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 028</b>   | <b>Combi multiple holder 3x sq. 25</b>       |                       |
|   | Weight [kg]:                                 | 5.570                 |
|   | Employment for:                              | Main spindle          |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 25                |
|   |  | Sq. 25                |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 029</b>   | <b>Combi multiple holder sq. 25</b>          |                       |
|  | Employment for:                              | Main- and sub spindle |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 030</b>   | <b>Combi multiple holder sq. 1"</b>          |                       |
|   | Weight [kg]:                                 | 9.830                 |
|   | Employment for:                              | Main- and sub spindle |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 1" (25,4mm)       |
|   |  | Sq. 1" (25,4mm)       |
|   |  | Sq. 1" (25,4mm)       |
|   |  | Sq. 1" (25,4mm)       |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 046</b>   | <b>Combi double turning holder sq. 25 IC</b> |                       |
|  | Weight [kg]:                                 | 6.520                 |
|   | Notation:                                    | 180° reversible       |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |

| Part-#              | Name   |                       |
|---------------------|--|-----------------------|
|                     | Coolant:                                       | IC/Ext                |
|                     | Pressure max [bar]:                            | 100                   |
|                     | Please note:                                   | Key rail              |
| <b>8 253 17 079</b> | <b>Multiple boring bar holder Ø 25</b>         |                       |
|                     | Weight [kg]:                                   | 8.120                 |
|                     | Employment for:                                | Main spindle          |
|                     | Shank type:                                    | BMT                   |
|                     | Machine adaption:                              | Centering key b 18    |
|                     | Tool adaption:                                 | Ø 25                  |
|                     |  | Ø 25                  |
|                     | Coolant:                                       | IC/Ext                |
|                     | Center distance [mm]:                          | 56/107                |
| <b>8 253 17 080</b> | <b>Multiple boring bar holder Ø 1"</b>         |                       |
|                     | Weight [kg]:                                   | 8.020                 |
|                     | Employment for:                                | Main spindle          |
|                     | Shank type:                                    | BMT                   |
|                     | Machine adaption:                              | Centering key b 18    |
|                     | Tool adaption:                                 | Ø 1"(25,4 mm)         |
|                     |  | Ø 1"(25,4 mm)         |
|                     | Coolant:                                       | IC/Ext                |
|                     | Center distance [mm]:                          | 56/107                |
| <b>8 253 17 081</b> | <b>Multiple boring bar holder, double Ø 1"</b> |                       |
|                     | Weight [kg]:                                   | 14.310                |
|                     | Employment for:                                | Main- and sub spindle |
|                     | Shank type:                                    | BMT                   |
|                     | Machine adaption:                              | Centering key b 18    |
|                     | Tool adaption:                                 | Ø 1"(25,4 mm)         |
|                     |  | Ø 1"(25,4 mm)         |
|                     |  | Ø 1"(25,4 mm)         |
|                     |  | Ø 1"(25,4 mm)         |
|                     | Coolant:                                       | IC/Ext                |
|                     | Center distance [mm]:                          | 56/107                |
| <b>8 253 17 082</b> | <b>Multiple boring bar holder Ø 25</b>         |                       |
|                     | Weight [kg]:                                   | 14.360                |
|                     | Employment for:                                | Main- and sub spindle |
|                     | Shank type:                                    | BMT                   |
|                     | Machine adaption:                              | Centering key b 18    |
|                     | Tool adaption:                                 | Ø 25                  |
|                     |  | Ø 25                  |
|                     |  | Ø 25                  |
|                     |  | Ø 25                  |
|                     | Coolant:                                       | IC/Ext                |
|                     | Center distance [mm]:                          | 56/107                |
| <b>8 253 17 097</b> | <b>Multiple boring bar holder, double Ø 25</b> |                       |
|                     | Weight [kg]:                                   | 8.110                 |
|                     | Notation:                                      | 180° reversible       |
|                     | Employment for:                                | Main- and sub spindle |
|                     | Shank type:                                    | BMT                   |
|                     | Machine adaption:                              | Centering key b 18    |
|                     | Tool adaption:                                 | Ø 25                  |
|                     |  | Ø 25                  |
|                     |  | Ø 25                  |
|                     |  | Ø 25                  |



HAAS

## ST-28/Y - BMT 65 Subspindel

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Part-#

Name

|   |  |   |   |
|---|--|---|---|
|   |  | Ø 25<br>Ø 25<br>Coolant:<br>Center distance [mm]:   | IC/Ext<br>36/75/114   |
| <b>8 253 17 115</b>   | <b>Multiple boring bar holder Ø 1 1/4"</b> | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br><br>Coolant:<br>Center distance [mm]:                                    | 8.950<br>180° reversible<br>BMT<br>Centering key b 18<br>Ø 1 1/4" (31,75mm)<br>Ø 1 1/4" (31,75mm)<br>IC/Ext<br>70/110         |
|    |  |   |   |
| <b>8 253 18 005</b>   | <b>Double boring bar holder Ø 1 1/4"</b>   | Weight [kg]:<br>Notation:<br>Employment for:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br>Coolant:<br>Center distance [mm]:                     | 9.100<br>180° reversible<br>Main- and sub spindle<br>BMT<br>Centering key b 18<br>Ø 1 1/4" (31,75mm)<br>IC/Ext<br>56/107      |
| <b>8 253 18 006</b>   | <b>Double boring bar holder Ø 32</b>       | Weight [kg]:<br>Notation:<br>Employment for:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br><br>Coolant:<br>Please note:<br>Center distance [mm]: | 8.860<br>180° reversible<br>Main- and sub spindle<br>BMT<br>Centering key b 18<br>Ø 32<br>Ø 32<br>IC/Ext<br>Special<br>70/110 |
|  |  |   |   |



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