

# Star SK-51



# 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

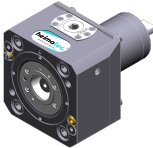
Digital tool management

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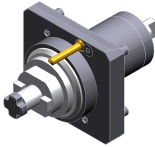
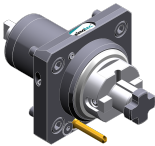
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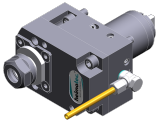
| Part-#                                                                              | Name                                                  |                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|
| <b>8 010 45 047</b>                                                                 | <b>Axial drilling and milling head ER 25 M</b>        |                  |
|    | Weight [kg]:                                          | 1.740            |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                      | 45.00            |
|                                                                                     | Tool adaption:                                        | ER 25 M          |
|                                                                                     | Gear ratio [i]:                                       | 1:1              |
|                                                                                     | Torque max [Nm]:                                      | 50               |
|                                                                                     | Rotation max [1/min]:                                 | 6000             |
|                                                                                     | Rotating direction:                                   | same             |
|                                                                                     | Coolant:                                              | EXT              |
| <b>8 010 45 050</b>                                                                 | <b>Axial drilling and milling head ER 25 M IC</b>     |                  |
|    | Weight [kg]:                                          | 2.000            |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                      | 45.00            |
|                                                                                     | Shank type:                                           | BMT              |
|                                                                                     | Tool adaption:                                        | ER 25            |
|                                                                                     | Gear ratio [i]:                                       | 1:1              |
|                                                                                     | Torque max [Nm]:                                      | 50               |
|                                                                                     | Rotation max [1/min]:                                 | 6000             |
|                                                                                     | Rotating direction:                                   | same             |
|                                                                                     | Coolant:                                              | IC/Ext           |
|                                                                                     | Pressure max [bar]:                                   | 25               |
| <b>8 010 45 061</b>                                                                 | <b>Axial drilling and milling head ER 25</b>          |                  |
|                                                                                     | Weight [kg]:                                          | 1.780            |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                      | 45.00            |
|                                                                                     | Shank type:                                           | BMT              |
|                                                                                     | Tool adaption:                                        | ER 25            |
|                                                                                     | Gear ratio [i]:                                       | 1:1              |
|                                                                                     | Torque max [Nm]:                                      | 50               |
|                                                                                     | Rotation max [1/min]:                                 | 6000             |
|                                                                                     | Rotating direction:                                   | same             |
|                                                                                     | Coolant:                                              | EXT              |
| <b>8 010 45 096</b>                                                                 | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                  |
|  | Weight [kg]:                                          | 2.000            |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                      | 45.00            |
|                                                                                     | 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:                                   | same             |
|                                                                                     | Coolant:                                              | IC/Ext           |
|                                                                                     | Pressure max [bar]:                                   | 25               |
|                                                                                     | Please note:                                          | Combi bearing    |

| Part-#                                                                              | Name                                               |                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------|
| <b>8 010 45 103</b>                                                                 | <b>Axial milling and drill holder ER 25 AX UT</b>  |                                          |
|    | Weight [kg]:                                       | 1.870                                    |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                   | 45.00                                    |
|                                                                                     | 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:                                | same                                     |
|                                                                                     | Coolant:                                           | EXT                                      |
|                                                                                     | Please note:                                       | Combi bearing                            |
| <b>8 010 45 181</b>                                                                 | <b>Axial drilling and milling head C 3 IC</b>      |                                          |
|                                                                                     | Notation:                                          | 180° reversible                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                   | 45.00                                    |
|                                                                                     | Shank type:                                        | BMT                                      |
|                                                                                     | Tool adaption:                                     | heimatec Capto(TM) C 3                   |
|                                                                                     | Gear ratio [i]:                                    | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                   | 25                                       |
|                                                                                     | Rotation max [1/min]:                              | 8000                                     |
|                                                                                     | Rotating direction:                                | same                                     |
|                                                                                     | Coolant:                                           | IC/Ext                                   |
|                                                                                     | Pressure max [bar]:                                | 100                                      |
|                                                                                     | Please note:                                       | Check applicability; tool length check ! |
| <b>8 010 45 183</b>                                                                 | <b>Axial drilling and milling head C 3</b>         |                                          |
|  | Weight [kg]:                                       | 3.800                                    |
|                                                                                     | Notation:                                          | 180° reversible                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                   | 45.00                                    |
|                                                                                     | Shank type:                                        | BMT                                      |
|                                                                                     | Tool adaption:                                     | heimatec Capto(TM) C 3                   |
|                                                                                     | Gear ratio [i]:                                    | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                   | 32                                       |
|                                                                                     | Rotation max [1/min]:                              | 8000                                     |
|                                                                                     | Rotating direction:                                | same                                     |
|                                                                                     | Coolant:                                           | EXT                                      |
|                                                                                     | Please note:                                       | Check applicability; tool length check ! |
| <b>8 010 45 224</b>                                                                 | <b>Axial drilling and milling head ER 25 AX UT</b> |                                          |
|  | Weight [kg]:                                       | 1.900                                    |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                   | 45.00                                    |
|                                                                                     | Shank type:                                        | BMT                                      |
|                                                                                     | Tool adaption:                                     | ER 25 A - u-tec                          |
|                                                                                     | Gear ratio [i]:                                    | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                   | 50                                       |
|                                                                                     | Rotation max [1/min]:                              | 15000                                    |
|                                                                                     | Rotating direction:                                | same                                     |
|                                                                                     | Coolant:                                           | EXT                                      |



| Part-#                                                                            | Name                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8 010 45 225</b>                                                               | <b>Axial drilling and milling head ER 25 AX UT IC</b>                                                                                                                                                                                                                                                                                                                       |
|  | <p>Weight [kg]: 2.100</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 25 A - u-tec</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 12000</p> <p>Rotating direction: same</p> <p>Coolant: IC/Ext</p> <p>Pressure max [bar]: 100</p> <p>Please note: Dryrun possible</p> |
| <b>8 010 46 092</b>                                                               | <b>Axial drilling and milling head HT 4</b>                                                                                                                                                                                                                                                                                                                                 |
|                                                                                   | <p>Weight [kg]: 1.700</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: HT 4</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 6000</p> <p>Rotating direction: same</p> <p>Coolant: EXT</p>                                                                                   |
| <b>8 010 46 112</b>                                                               | <b>Axial drilling and milling head HT 4 IC</b>                                                                                                                                                                                                                                                                                                                              |
|                                                                                   | <p>Weight [kg]: 1.980</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: HT 4</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 6000</p> <p>Rotating direction: same</p> <p>Coolant: IC/Ext</p> <p>Pressure max [bar]: 25</p>                                                  |
| <b>8 010 46 206</b>                                                               | <b>Axial drilling and milling head ER 32 AX UT</b>                                                                                                                                                                                                                                                                                                                          |
|                                                                                   | <p>Weight [kg]: 2.110</p> <p>Version: Special</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 32 A - u-tec</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 6000</p> <p>Rotating direction: same</p> <p>Coolant: EXT</p> <p>Please note: stronger bearing</p>           |

| Part-#                                                                              | Name                                               |                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|
| <b>8 011 44 010</b>                                                                 | <b>Axial milling head universal arbor 16</b>       |                                |
|    | Weight [kg]:                                       | 1.820                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)               |
|                                                                                     | Shank size [mm]:                                   | 45.00                          |
|                                                                                     | Shank type:                                        | BMT                            |
|                                                                                     | Tool adaption:                                     | Universal arbor 16             |
|                                                                                     | Gear ratio [i]:                                    | 1:1                            |
|                                                                                     | Torque max [Nm]:                                   | 50                             |
|                                                                                     | Rotation max [1/min]:                              | 6000                           |
|                                                                                     | Rotating direction:                                | same                           |
|                                                                                     | Coolant:                                           | EXT                            |
|                                                                                     | Please note:                                       | Taper roller bearings          |
| <b>8 011 44 021</b>                                                                 | <b>Axial milling head universal arbor 3/4"</b>     |                                |
|                                                                                     | Weight [kg]:                                       | 1.840                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)               |
|                                                                                     | Shank size [mm]:                                   | 45.00                          |
|                                                                                     | Shank type:                                        | BMT                            |
|                                                                                     | Tool adaption:                                     | Universal arbor 3/4" (19,05mm) |
|                                                                                     | Gear ratio [i]:                                    | 1:1                            |
|                                                                                     | Torque max [Nm]:                                   | 50                             |
|                                                                                     | Rotation max [1/min]:                              | 6000                           |
|                                                                                     | Rotating direction:                                | same                           |
|                                                                                     | Coolant:                                           | EXT                            |
|                                                                                     | Please note:                                       | Taper roller bearings          |
| <b>8 011 45 018</b>                                                                 | <b>Axial milling head universal arbor 22</b>       |                                |
|  | Weight [kg]:                                       | 1.940                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)               |
|                                                                                     | Shank size [mm]:                                   | 45.00                          |
|                                                                                     | Shank type:                                        | BMT                            |
|                                                                                     | Tool adaption:                                     | Universal arbor 22             |
|                                                                                     | Gear ratio [i]:                                    | 1:1                            |
|                                                                                     | Torque max [Nm]:                                   | 50                             |
|                                                                                     | Rotation max [1/min]:                              | 6000                           |
|                                                                                     | Rotating direction:                                | same                           |
|                                                                                     | Coolant:                                           | EXT                            |
|                                                                                     | Please note:                                       | Taper roller bearings          |
| <b>8 013 44 022</b>                                                                 | <b>Axial drilling and milling head ER 16 AX UT</b> |                                |
|                                                                                     | Weight [kg]:                                       | 2.350                          |
|                                                                                     | Tool drive:                                        | Flat (~DIN 1809)               |
|                                                                                     | Shank size [mm]:                                   | 45.00                          |
|                                                                                     | 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                            |

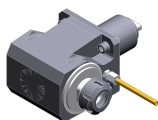
| Part-#                                                                            | Name                                                  |                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|------------------|
| <b>8 013 44 023</b>                                                               | <b>Axial drilling and milling head ER 16 AX UT IC</b> |                  |
|  | Weight [kg]:                                          | 2.450            |
|                                                                                   | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                   | Shank size [mm]:                                      | 45.00            |
|                                                                                   | 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              |
|                                                                                   | Please note:                                          | Dryrun possible  |
| <b>8 019 44 012</b>                                                               | <b>Axial drilling and milling head ER 20</b>          |                  |
|  | Weight [kg]:                                          | 4.020            |
|                                                                                   | Notation:                                             | offset           |
|                                                                                   | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                   | Shank size [mm]:                                      | 45.00            |
|                                                                                   | Shank type:                                           | BMT              |
|                                                                                   | Tool adaption:                                        | ER 20            |
|                                                                                   | Gear ratio [i]:                                       | 1:2              |
|                                                                                   | Torque max [Nm]:                                      | 12               |
|                                                                                   | Rotation max [1/min]:                                 | 12000            |
|                                                                                   | Rotating direction:                                   | opposite         |
|                                                                                   | Coolant:                                              | EXT              |
| <b>8 019 44 019</b>                                                               | <b>Axial drilling and milling head ER 16 AX UT</b>    |                  |
|                                                                                   | Weight [kg]:                                          | 4.260            |
|                                                                                   | Notation:                                             | offset           |
|                                                                                   | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                   | Shank size [mm]:                                      | 45.00            |
|                                                                                   | Shank type:                                           | BMT              |
|                                                                                   | Tool adaption:                                        | ER 16 A - u-tec  |
|                                                                                   | Gear ratio [i]:                                       | 1:2              |
|                                                                                   | Torque max [Nm]:                                      | 12               |
|                                                                                   | Rotation max [1/min]:                                 | 10000            |
|                                                                                   | Rotating direction:                                   | opposite         |
|                                                                                   | Coolant:                                              | EXT              |
|                                                                                   | Please note:                                          | stronger bearing |
| <b>8 019 44 020</b>                                                               | <b>Axial drilling and milling head ER 16 M</b>        |                  |
|                                                                                   | Weight [kg]:                                          | 3.960            |
|                                                                                   | Notation:                                             | offset           |
|                                                                                   | Tool drive:                                           | Flat (~DIN 1809) |
|                                                                                   | Shank size [mm]:                                      | 45.00            |
|                                                                                   | Shank type:                                           | BMT              |
|                                                                                   | Tool adaption:                                        | ER 16            |
|                                                                                   | Gear ratio [i]:                                       | 1:3              |
|                                                                                   | Torque max [Nm]:                                      | 10               |
|                                                                                   | Rotation max [1/min]:                                 | 15000            |
|                                                                                   | Rotating direction:                                   | opposite         |
|                                                                                   | Coolant:                                              | EXT              |
|                                                                                   | Offset [mm]:                                          | 34,5             |

| Part-#              | Name                                                  |
|---------------------|-------------------------------------------------------|
| <b>8 019 44 060</b> | <b>Axial drilling and milling head ER 20</b>          |
|                     | Weight [kg]: 4.000                                    |
|                     | Notation: offset                                      |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 45.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 20                                  |
|                     | Gear ratio [i]: 1:3                                   |
|                     | Torque max [Nm]: 10                                   |
|                     | Rotation max [1/min]: 15000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: EXT                                          |
|                     | Offset [mm]: 34,5                                     |
| <b>8 019 44 073</b> | <b>Axial drilling and milling head ER 20 AX UT IC</b> |
|                     | Weight [kg]: 4.910                                    |
|                     | Notation: offset; 180° reversible                     |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 45.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 20 A - u-tec                        |
|                     | Gear ratio [i]: 1:2                                   |
|                     | Torque max [Nm]: 16                                   |
|                     | Rotation max [1/min]: 12000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: IC/Ext                                       |
|                     | Pressure max [bar]: 140                               |
|                     | Please note: stronger bearing                         |
|                     | Offset [mm]: 34,5                                     |
| <b>8 019 44 078</b> | <b>Axial drilling and milling head ER 16 AX UT</b>    |
|                     | Weight [kg]: 3.890                                    |
|                     | Notation: offset                                      |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 45.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 16 A - u-tec                        |
|                     | Gear ratio [i]: 1:3                                   |
|                     | Torque max [Nm]: 10                                   |
|                     | Rotation max [1/min]: 15000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: EXT                                          |
|                     | Offset [mm]: 34,5                                     |
| <b>8 019 44 114</b> | <b>Axial drilling and milling head ER 20 AX UT</b>    |
|                     | Notation: offset; 180° reversible                     |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 45.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 20 A - u-tec                        |
|                     | Gear ratio [i]: 1:2                                   |
|                     | Torque max [Nm]: 16                                   |
|                     | Rotation max [1/min]: 12000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: EXT                                          |
|                     | Please note: stronger bearing                         |
|                     | Offset [mm]: 34,5                                     |

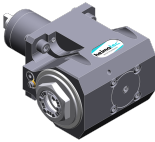
| Part-#              | Name                                                   |
|---------------------|--------------------------------------------------------|
| <b>8 019 45 093</b> | <b>Axial drilling and milling head ER 25 AX UT IC</b>  |
|                     | Weight [kg]: 5.860                                     |
|                     | Notation: offset; 180° reversible                      |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | Shank type: BMT                                        |
|                     | Tool adaption: ER 25 A - u-tec                         |
|                     | Gear ratio [i]: 2:1                                    |
|                     | Torque max [Nm]: 50                                    |
|                     | Rotation max [1/min]: 3000                             |
|                     | Rotating direction: same                               |
|                     | Coolant: IC/Ext                                        |
|                     | Pressure max [bar]: 140                                |
|                     | Please note: stronger bearing                          |
|                     | Offset [mm]: 69                                        |
| <b>8 019 45 102</b> | <b>Axial drilling and milling head ER 25 AX UT</b>     |
|                     | Weight [kg]: 5.400                                     |
|                     | Notation: offset; 180° reversible                      |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | Shank type: BMT                                        |
|                     | Tool adaption: ER 25 A - u-tec                         |
|                     | Gear ratio [i]: 2:1                                    |
|                     | Torque max [Nm]: 50                                    |
|                     | Rotation max [1/min]: 3000                             |
|                     | Rotating direction: same                               |
|                     | Coolant: EXT                                           |
|                     | Please note: stronger bearing                          |
|                     | Offset [mm]: 69                                        |
| <b>8 030 44 082</b> | <b>Radial drilling and milling head ER 16 AX UT</b>    |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | 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]: 65                               |
| <b>8 030 44 099</b> | <b>Radial drilling and milling head ER 16 AX UT IC</b> |
|                     | Weight [kg]: 4.900                                     |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | 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]: 65                               |



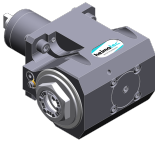
| Part-#              | Name                                                   |                  |
|---------------------|--------------------------------------------------------|------------------|
| <b>8 030 44 109</b> | <b>Radial drilling and milling head ER 20 AX UT IC</b> |                  |
|                     | Weight [kg]:                                           | 5.950            |
|                     | Notation:                                              | 180° reversible  |
|                     | Tool drive:                                            | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 45.00            |
|                     | Shank type:                                            | BMT              |
|                     | Tool adaption:                                         | ER 20 A - u-tec  |
|                     | Gear ratio [i]:                                        | 1:2              |
|                     | Torque max [Nm]:                                       | 16               |
|                     | Rotation max [1/min]:                                  | 12000            |
|                     | Rotating direction:                                    | same             |
|                     | Coolant:                                               | IC/Ext           |
|                     | Pressure max [bar]:                                    | 140              |
|                     | Please note:                                           | stronger bearing |
|                     | Center distance [mm]:                                  | 77               |
| <b>8 030 45 096</b> | <b>Radial drilling and milling head ER 25</b>          |                  |
|                     | Weight [kg]:                                           | 5.190            |
|                     | Notation:                                              | 180° reversible  |
|                     | Tool drive:                                            | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 45.00            |
|                     | Shank type:                                            | BMT              |
|                     | Tool adaption:                                         | ER 25            |
|                     | Gear ratio [i]:                                        | 1:2              |
|                     | Torque max [Nm]:                                       | 12               |
|                     | Rotation max [1/min]:                                  | 12000            |
|                     | Rotating direction:                                    | opposite         |
|                     | Coolant:                                               | EXT              |
|                     | Center distance [mm]:                                  | 65               |
| <b>8 030 45 101</b> | <b>Radial drilling and milling head ER 25 IC</b>       |                  |
|                     | Weight [kg]:                                           | 5.450            |
|                     | Notation:                                              | 180° reversible  |
|                     | Tool drive:                                            | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 45.00            |
|                     | Shank type:                                            | BMT              |
|                     | Tool adaption:                                         | ER 25            |
|                     | Gear ratio [i]:                                        | 1:2              |
|                     | Torque max [Nm]:                                       | 12               |
|                     | Rotation max [1/min]:                                  | 12000            |
|                     | Rotating direction:                                    | opposite         |
|                     | Coolant:                                               | IC/Ext           |
|                     | Pressure max [bar]:                                    | 140              |
|                     | Center distance [mm]:                                  | 65               |
| <b>8 030 45 120</b> | <b>Radial drilling and milling head ER 25</b>          |                  |
|                     | Weight [kg]:                                           | 5.400            |
|                     | Notation:                                              | 180° reversible  |
|                     | Tool drive:                                            | Flat (~DIN 1809) |
|                     | Shank size [mm]:                                       | 45.00            |
|                     | Shank type:                                            | BMT              |
|                     | Tool adaption:                                         | ER 25            |
|                     | Gear ratio [i]:                                        | 1:1              |
|                     | Torque max [Nm]:                                       | 50               |
|                     | Rotation max [1/min]:                                  | 12000            |
|                     | Rotating direction:                                    | opposite         |
|                     | Coolant:                                               | EXT              |
|                     | Center distance [mm]:                                  | 65               |





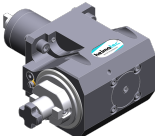
| Part-#                                                                              | Name                                                   |                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|------------------|
| <b>8 030 45 121</b>                                                                 | <b>Radial drilling and milling head ER 25 IC</b>       |                  |
|                                                                                     | Weight [kg]:                                           | 5.570            |
|                                                                                     | Notation:                                              | 180° reversible  |
|                                                                                     | Tool drive:                                            | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                       | 45.00            |
|                                                                                     | Shank type:                                            | BMT              |
|                                                                                     | Tool adaption:                                         | ER 25            |
|                                                                                     | Gear ratio [i]:                                        | 1:1              |
|                                                                                     | Torque max [Nm]:                                       | 50               |
|                                                                                     | Rotation max [1/min]:                                  | 12000            |
|                                                                                     | Rotating direction:                                    | opposite         |
|                                                                                     | Coolant:                                               | IC/Ext           |
|                                                                                     | Pressure max [bar]:                                    | 140              |
|                                                                                     | Please note:                                           | strong version   |
|                                                                                     | Center distance [mm]:                                  | 65               |
| <b>8 030 45 136</b>                                                                 | <b>Radial drilling and milling head ER 25 AX UT IC</b> |                  |
|   | Weight [kg]:                                           | 5.370            |
|                                                                                     | Notation:                                              | 180° reversible  |
|                                                                                     | Tool drive:                                            | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                       | 45.00            |
|                                                                                     | Shank type:                                            | BMT              |
|                                                                                     | Tool adaption:                                         | ER 25 A - u-tec  |
|                                                                                     | Gear ratio [i]:                                        | 1:1              |
|                                                                                     | Torque max [Nm]:                                       | 50               |
|                                                                                     | Rotation max [1/min]:                                  | 12000            |
|                                                                                     | Rotating direction:                                    | opposite         |
|                                                                                     | Coolant:                                               | IC/Ext           |
|                                                                                     | Pressure max [bar]:                                    | 140              |
|                                                                                     | Center distance [mm]:                                  | 65               |
| <b>8 030 45 163</b>                                                                 | <b>Angle-mill- and drill holder ER 25 AX UT</b>        |                  |
|  | Weight [kg]:                                           | 5.700            |
|                                                                                     | Notation:                                              | 180° reversible  |
|                                                                                     | Tool drive:                                            | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                       | 45.00            |
|                                                                                     | 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:                                           | Combi bearing    |
|                                                                                     | Center distance [mm]:                                  | 65               |
| <b>8 030 45 167</b>                                                                 | <b>Radial drilling and milling head ER 25 AX UT</b>    |                  |
|                                                                                     | Weight [kg]:                                           | 5.790            |
|                                                                                     | Notation:                                              | 180° reversible  |
|                                                                                     | Tool drive:                                            | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                                       | 45.00            |
|                                                                                     | 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:                                               | EXT              |

| Part-#                                                                             | Name                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | <p>Please note: stronger bearing</p> <p>Center distance [mm]: 77</p>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>8 030 45 169</b>                                                                | <b>Radial drilling and milling head ER 25 AX UT</b>                                                                                                                                                                                                                                                                                                                                                                                           |
|   | <p>Weight [kg]: 5.340</p> <p>Notation: 180° reversible</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 25 A - u-tec</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 12000</p> <p>Rotating direction: opposite</p> <p>Coolant: EXT</p> <p>Center distance [mm]: 65</p>                                                                    |
| <b>8 030 45 198</b>                                                                | <b>Angle-mill- and drill holder ER 25 AX UT IC</b>                                                                                                                                                                                                                                                                                                                                                                                            |
|  | <p>Weight [kg]: 5.800</p> <p>Notation: 180° reversible</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 25 A - u-tec</p> <p>Gear ratio [i]: 1:1</p> <p>Torque max [Nm]: 50</p> <p>Rotation max [1/min]: 6000</p> <p>Rotating direction: opposite</p> <p>Coolant: IC/Ext</p> <p>Pressure max [bar]: 140</p> <p>Please note: Combi bearing</p> <p>Center distance [mm]: 65</p> |
| <b>8 030 45 211</b>                                                                | <b>Radial drilling and milling head ER 25 AX UT</b>                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                    | <p>Weight [kg]: 5.770</p> <p>Notation: 180° reversible</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 25 A - u-tec</p> <p>Gear ratio [i]: 1:2</p> <p>Torque max [Nm]: 16</p> <p>Rotation max [1/min]: 12000</p> <p>Rotating direction: same</p> <p>Coolant: EXT</p> <p>Please note: stronger bearing</p> <p>Center distance [mm]: 77</p>                                   |
| <b>8 030 45 239</b>                                                                | <b>Radial drilling and milling head ER 25 AX UT IC</b>                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                    | <p>Weight [kg]: 5.990</p> <p>Notation: 180° reversible</p> <p>Tool drive: Flat (~DIN 1809)</p> <p>Shank size [mm]: 45.00</p> <p>Shank type: BMT</p> <p>Tool adaption: ER 25 A - u-tec</p> <p>Gear ratio [i]: 1:3</p> <p>Torque max [Nm]: 12</p>                                                                                                                                                                                               |

| Part-#                                                                              | Name                                                |                                        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------|
|                                                                                     | Rotation max [1/min]:                               | 18000                                  |
|                                                                                     | Rotating direction:                                 | same                                   |
|                                                                                     | Coolant:                                            | IC/Ext                                 |
|                                                                                     | Pressure max [bar]:                                 | 140                                    |
|                                                                                     | Please note:                                        | stronger bearing                       |
|                                                                                     | Center distance [mm]:                               | 77                                     |
| <b>8 030 45 253</b>                                                                 | <b>Radial drilling and milling head ER 25 AX UT</b> |                                        |
|    | Weight [kg]:                                        | 5.480                                  |
|                                                                                     | Notation:                                           | 180° reversible                        |
|                                                                                     | Tool drive:                                         | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                                    | 45.00                                  |
|                                                                                     | Shank type:                                         | BMT                                    |
|                                                                                     | Tool adaption:                                      | ER 25 A - u-tec                        |
|                                                                                     | Gear ratio [i]:                                     | 2:1                                    |
|                                                                                     | Torque max [Nm]:                                    | 63                                     |
|                                                                                     | Rotation max [1/min]:                               | 3000                                   |
|                                                                                     | Rotating direction:                                 | opposite                               |
|                                                                                     | Coolant:                                            | EXT                                    |
|                                                                                     | Please note:                                        | Combi bearing                          |
|                                                                                     | Center distance [mm]:                               | 65                                     |
| <b>8 030 45 346</b>                                                                 | <b>Radial drilling and milling head C 3 IC</b>      |                                        |
|  | Notation:                                           | 180° reversible                        |
|                                                                                     | Tool drive:                                         | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                                    | 45.00                                  |
|                                                                                     | Shank type:                                         | BMT                                    |
|                                                                                     | Tool adaption:                                      | heimatec Capto(TM) C 3                 |
|                                                                                     | Gear ratio [i]:                                     | 1:1                                    |
|                                                                                     | Torque max [Nm]:                                    | 25                                     |
|                                                                                     | Rotation max [1/min]:                               | 8000                                   |
|                                                                                     | Rotating direction:                                 | opposite                               |
|                                                                                     | Coolant:                                            | IC/Ext                                 |
|                                                                                     | Pressure max [bar]:                                 | 140                                    |
|                                                                                     | Please note:                                        | Check applicability; note tool length! |
|                                                                                     | Center distance [mm]:                               | 65                                     |
| <b>8 030 45 351</b>                                                                 | <b>Radial drilling and milling head C 3</b>         |                                        |
|                                                                                     | Notation:                                           | 180° reversible                        |
|                                                                                     | Tool drive:                                         | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                                    | 45.00                                  |
|                                                                                     | Shank type:                                         | BMT                                    |
|                                                                                     | Tool adaption:                                      | heimatec Capto(TM) C 3                 |
|                                                                                     | Gear ratio [i]:                                     | 1:1                                    |
|                                                                                     | Torque max [Nm]:                                    | 25                                     |
|                                                                                     | Rotation max [1/min]:                               | 8000                                   |
|                                                                                     | Rotating direction:                                 | opposite                               |
|                                                                                     | Coolant:                                            | EXT                                    |
|                                                                                     | Please note:                                        | Check applicability; note tool length! |
|                                                                                     | Center distance [mm]:                               | 65                                     |

| Part-#              | Name                                                   |
|---------------------|--------------------------------------------------------|
| <b>8 030 45 563</b> | <b>Radial drilling and milling head Weldon 16</b>      |
|                     | Weight [kg]: 5.850                                     |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | Shank type: BMT                                        |
|                     | Tool adaption: Weldon (DIN 1835 b) 16                  |
|                     | Gear ratio [i]: 1:1                                    |
|                     | Torque max [Nm]: 50                                    |
|                     | Rotation max [1/min]: 6000                             |
|                     | Rotating direction: opposite                           |
|                     | Coolant: EXT                                           |
|                     | Please note: Combi bearing                             |
|                     | Center distance [mm]: 65                               |
| <b>8 030 45 599</b> | <b>Radial drilling and milling head ER 25 AX UT IC</b> |
|                     | Weight [kg]: 5.980                                     |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | 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                               |
|                     | Coolant: IC/Ext                                        |
|                     | Pressure max [bar]: 140                                |
|                     | Please note: stronger bearing                          |
|                     | Center distance [mm]: 77                               |
| <b>8 030 46 196</b> | <b>Radial drilling and milling head HT 4</b>           |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | Shank type: BMT                                        |
|                     | Tool adaption: HT 4                                    |
|                     | Gear ratio [i]: 1:1                                    |
|                     | Torque max [Nm]: 50                                    |
|                     | Rotation max [1/min]: 6000                             |
|                     | Rotating direction: opposite                           |
|                     | Coolant: EXT                                           |
|                     | Please note: strong version                            |
|                     | Center distance [mm]: 65                               |
| <b>8 030 46 197</b> | <b>Radial drilling and milling head HT 4 IC</b>        |
|                     | Weight [kg]: 5.640                                     |
|                     | Notation: 180° reversible                              |
|                     | Tool drive: Flat (~DIN 1809)                           |
|                     | Shank size [mm]: 45.00                                 |
|                     | Shank type: BMT                                        |
|                     | Tool adaption: HT 4                                    |
|                     | Gear ratio [i]: 1:1                                    |
|                     | Torque max [Nm]: 50                                    |
|                     | Rotation max [1/min]: 12000                            |
|                     | Rotating direction: opposite                           |
|                     | Coolant: IC/Ext                                        |
|                     | Pressure max [bar]: 140                                |

| Part-#                                                                            | Name                                                   |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                                   | Center distance [mm]: 65                               |
| <b>8 030 46 356</b>                                                               | <b>Angle-mill- and drill holder ER 32 AX UT IC</b>     |
|  | Weight [kg]: 5.820                                     |
|                                                                                   | Notation: 180° reversible                              |
|                                                                                   | Tool drive: Flat (~DIN 1809)                           |
|                                                                                   | Shank size [mm]: 45.00                                 |
|                                                                                   | 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: opposite                           |
|                                                                                   | Coolant: IC/Ext                                        |
|                                                                                   | Pressure max [bar]: 140                                |
|                                                                                   | Please note: Combi bearing                             |
|                                                                                   | Center distance [mm]: 65                               |
| <b>8 030 46 563</b>                                                               | <b>Radial drilling and milling head ER 32 AX UT IC</b> |
|                                                                                   | Weight [kg]: 5.480                                     |
|                                                                                   | Notation: 180° reversible                              |
|                                                                                   | Tool drive: Flat (~DIN 1809)                           |
|                                                                                   | Shank size [mm]: 45.00                                 |
|                                                                                   | Shank type: BMT                                        |
|                                                                                   | Tool adaption: ER 32 A - u-tec                         |
|                                                                                   | Gear ratio [i]: 1:1                                    |
|                                                                                   | Torque max [Nm]: 50                                    |
|                                                                                   | Rotation max [1/min]: 12000                            |
|                                                                                   | Rotating direction: opposite                           |
|                                                                                   | Coolant: IC/Ext                                        |
|                                                                                   | Pressure max [bar]: 140                                |
|                                                                                   | Center distance [mm]: 65                               |
| <b>8 030 46 564</b>                                                               | <b>Radial drilling and milling head ER 32 AX UT</b>    |
|                                                                                   | Weight [kg]: 5.120                                     |
|                                                                                   | Notation: 180° reversible                              |
|                                                                                   | Tool drive: Flat (~DIN 1809)                           |
|                                                                                   | Shank size [mm]: 45.00                                 |
|                                                                                   | Shank type: BMT                                        |
|                                                                                   | Tool adaption: ER 32 A - u-tec                         |
|                                                                                   | Gear ratio [i]: 1:1                                    |
|                                                                                   | Torque max [Nm]: 50                                    |
|                                                                                   | Rotation max [1/min]: 12000                            |
|                                                                                   | Rotating direction: opposite                           |
|                                                                                   | Coolant: EXT                                           |
|                                                                                   | Center distance [mm]: 65                               |
| <b>8 030 47 122</b>                                                               | <b>Radial drilling and milling head Weldon 25 IC</b>   |
|                                                                                   | Weight [kg]: 6.580                                     |
|                                                                                   | Notation: 180° reversible                              |
|                                                                                   | Tool drive: Flat (~DIN 1809)                           |
|                                                                                   | Shank size [mm]: 45.00                                 |
|                                                                                   | Shank type: BMT                                        |
|                                                                                   | Tool adaption: Weldon (DIN 1835 b) 25                  |
|                                                                                   | Gear ratio [i]: 2:1                                    |
|                                                                                   | Torque max [Nm]: 63                                    |
|                                                                                   | Rotation max [1/min]: 3000                             |

| Part-#                                                                            | Name                                                |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|
|                                                                                   | Rotating direction:                                 | opposite                    |
|                                                                                   | Coolant:                                            | IC/Ext                      |
|                                                                                   | Pressure max [bar]:                                 | 140                         |
|                                                                                   | Please note:                                        | Combi bearing               |
|                                                                                   | Center distance [mm]:                               | 65                          |
| <b>8 031 45 026</b>                                                               | <b>Radial milling head universal arbor 22</b>       |                             |
|  | Notation:                                           | 180° reversible             |
|                                                                                   | Tool drive:                                         | Flat (~DIN 1809)            |
|                                                                                   | Shank size [mm]:                                    | 45.00                       |
|                                                                                   | Shank type:                                         | BMT                         |
|                                                                                   | Tool adaption:                                      | Universal arbor 22          |
|                                                                                   | Gear ratio [i]:                                     | 2:1                         |
|                                                                                   | Torque max [Nm]:                                    | 63                          |
|                                                                                   | Rotation max [1/min]:                               | 3000                        |
|                                                                                   | Rotating direction:                                 | opposite                    |
|                                                                                   | Coolant:                                            | EXT                         |
|                                                                                   | Please note:                                        | Combi bearing               |
|                                                                                   | Center distance [mm]:                               | 65                          |
| <b>8 031 45 054</b>                                                               | <b>Radial milling head universal arbor 1"</b>       |                             |
|                                                                                   | Notation:                                           | 180° reversible             |
|                                                                                   | Tool drive:                                         | Flat (~DIN 1809)            |
|                                                                                   | Shank size [mm]:                                    | 45.00                       |
|                                                                                   | Shank type:                                         | BMT                         |
|                                                                                   | Tool adaption:                                      | Universal arbor 1" (25,4mm) |
|                                                                                   | Gear ratio [i]:                                     | 2:1                         |
|                                                                                   | Torque max [Nm]:                                    | 63                          |
|                                                                                   | Rotation max [1/min]:                               | 3000                        |
|                                                                                   | Rotating direction:                                 | opposite                    |
|                                                                                   | Coolant:                                            | EXT                         |
|                                                                                   | Please note:                                        | Combi bearing               |
|                                                                                   | Center distance [mm]:                               | 65                          |
| <b>8 031 46 004</b>                                                               | <b>Radial milling head universal arbor 27</b>       |                             |
|                                                                                   | Notation:                                           | 180° reversible             |
|                                                                                   | Tool drive:                                         | Flat (~DIN 1809)            |
|                                                                                   | Shank size [mm]:                                    | 45.00                       |
|                                                                                   | Shank type:                                         | BMT                         |
|                                                                                   | Tool adaption:                                      | Universal arbor 27          |
|                                                                                   | Gear ratio [i]:                                     | 1:1                         |
|                                                                                   | Torque max [Nm]:                                    | 50                          |
|                                                                                   | Rotation max [1/min]:                               | 6000                        |
|                                                                                   | Rotating direction:                                 | opposite                    |
|                                                                                   | Coolant:                                            | EXT                         |
|                                                                                   | Please note:                                        | Combi bearing               |
|                                                                                   | Center distance [mm]:                               | 65                          |
| <b>8 033 45 061</b>                                                               | <b>Radial drilling and milling head ER 25 AX UT</b> |                             |
|                                                                                   | Weight [kg]:                                        | 5.500                       |
|                                                                                   | Notation:                                           | offset; 180° reversible     |
|                                                                                   | Tool drive:                                         | Flat (~DIN 1809)            |
|                                                                                   | Shank size [mm]:                                    | 45.00                       |
|                                                                                   | Shank type:                                         | BMT                         |
|                                                                                   | Tool adaption:                                      | ER 25 A - u-tec             |
|                                                                                   | Gear ratio [i]:                                     | 3:1                         |
|                                                                                   | Torque max [Nm]:                                    | 32                          |

| Part-#              | Name                                                |                                     |
|---------------------|-----------------------------------------------------|-------------------------------------|
|                     | Rotation max [1/min]:                               | 3000                                |
|                     | Rotating direction:                                 | same                                |
|                     | Coolant:                                            | EXT                                 |
|                     | Please note:                                        | Combi bearing; check applicability! |
|                     | Center distance [mm]:                               | 65                                  |
| <b>8 037 42 002</b> | <b>Radial disk mill head arbor 10</b>               |                                     |
|                     | Weight [kg]:                                        | 4.600                               |
|                     | Notation:                                           | 180° reversible                     |
|                     | Version:                                            | ± 30° turnable                      |
|                     | Tool drive:                                         | Flat (~DIN 1809)                    |
|                     | Shank size [mm]:                                    | 45.00                               |
|                     | Shank type:                                         | BMT                                 |
|                     | Tool adaption:                                      | Arbor 10                            |
|                     | Gear ratio [i]:                                     | 2:1                                 |
|                     | Torque max [Nm]:                                    | 32                                  |
|                     | Rotation max [1/min]:                               | 4000                                |
|                     | Rotating direction:                                 | opposite                            |
|                     | Coolant:                                            | EXT                                 |
|                     | Center distance [mm]:                               | 78                                  |
| <b>8 037 43 004</b> | <b>Radial disk mill head arbor 13</b>               |                                     |
|                     | Weight [kg]:                                        | 4.630                               |
|                     | Notation:                                           | 180° reversible                     |
|                     | Version:                                            | ± 30° turnable                      |
|                     | Tool drive:                                         | Flat (~DIN 1809)                    |
|                     | Shank size [mm]:                                    | 45.00                               |
|                     | Shank type:                                         | BMT                                 |
|                     | Tool adaption:                                      | Arbor 13                            |
|                     | Gear ratio [i]:                                     | 2:1                                 |
|                     | Torque max [Nm]:                                    | 32                                  |
|                     | Rotation max [1/min]:                               | 4000                                |
|                     | Rotating direction:                                 | opposite                            |
|                     | Coolant:                                            | EXT                                 |
|                     | Center distance [mm]:                               | 78                                  |
| <b>8 039 45 076</b> | <b>Radial drilling and milling head ER 25 AX UT</b> |                                     |
|                     | Weight [kg]:                                        | 5.900                               |
|                     | Notation:                                           | 180° reversible                     |
|                     | Version:                                            | double spindle                      |
|                     | Tool drive:                                         | Flat (~DIN 1809)                    |
|                     | Shank size [mm]:                                    | 45.00                               |
|                     | Shank type:                                         | BMT                                 |
|                     | Tool adaption:                                      | ER 25 A - u-tec                     |
|                     | Gear ratio [i]:                                     | 1:1                                 |
|                     | Torque max [Nm]:                                    | 50                                  |
|                     | Rotation max [1/min]:                               | 12000                               |
|                     | Rotating direction:                                 | same/opposite                       |
|                     | Coolant:                                            | EXT                                 |
|                     | Center distance [mm]:                               | 65                                  |



| Part-#                                                                             | Name                                                |                       |
|------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------|
| <b>8 039 45 106</b>                                                                | <b>Radial drilling and milling head ER 25 AX UT</b> |                       |
|   | Weight [kg]:                                        | 6.250                 |
|                                                                                    | Notation:                                           | 180° reversible       |
|                                                                                    | Employment for:                                     | Main- and sub spindle |
|                                                                                    | Version:                                            | double spindle        |
|                                                                                    | Tool drive:                                         | Flat (~DIN 1809)      |
|                                                                                    | Shank size [mm]:                                    | 45.00                 |
|                                                                                    | Shank type:                                         | BMT                   |
|                                                                                    | Tool adaption:                                      | ER 25 A - u-tec       |
|                                                                                    | Gear ratio [i]:                                     | 1:1                   |
|                                                                                    | Torque max [Nm]:                                    | 25/Sp.                |
|                                                                                    | Rotation max [1/min]:                               | 12000                 |
|                                                                                    | Rotating direction:                                 | same                  |
|                                                                                    | Coolant:                                            | EXT                   |
|                                                                                    | Center distance [mm]:                               | 50/86                 |
| <b>8 039 46 031</b>                                                                | <b>Radial drilling and milling head HT 4</b>        |                       |
|  | Weight [kg]:                                        | 6.400                 |
|                                                                                    | Notation:                                           | 180° reversible       |
|                                                                                    | Employment for:                                     | Main- and sub spindle |
|                                                                                    | Version:                                            | double spindle        |
|                                                                                    | Tool drive:                                         | Flat (~DIN 1809)      |
|                                                                                    | Shank size [mm]:                                    | 45.00                 |
|                                                                                    | Tool adaption:                                      | HT 4                  |
|                                                                                    | Gear ratio [i]:                                     | 1:1                   |
|                                                                                    | Torque max [Nm]:                                    | 50                    |
|                                                                                    | Rotation max [1/min]:                               | 12000                 |
|                                                                                    | Rotating direction:                                 | same/opposite         |
|                                                                                    | Coolant:                                            | EXT                   |
|                                                                                    | Center distance [mm]:                               | 65                    |
| <b>8 040 44 019</b>                                                                | <b>Universal head ± 90° adjustable ER 16</b>        |                       |
|                                                                                    | Weight [kg]:                                        | 2.460                 |
|                                                                                    | Tool drive:                                         | Flat (~DIN 1809)      |
|                                                                                    | Shank size [mm]:                                    | 45.00                 |
|                                                                                    | Shank type:                                         | BMT                   |
|                                                                                    | Tool adaption:                                      | ER 16                 |
|                                                                                    | Gear ratio [i]:                                     | 1:1                   |
|                                                                                    | Torque max [Nm]:                                    | 10                    |
|                                                                                    | Rotation max [1/min]:                               | 6000                  |
|                                                                                    | Rotating direction:                                 | same                  |
|                                                                                    | Coolant:                                            | EXT                   |
|                                                                                    | Please note:                                        | Note swivel range!    |
|                                                                                    | Center distance [mm]:                               | 55                    |
| <b>8 040 44 021</b>                                                                | <b>Universal head ± 90° adjustable ER 16</b>        |                       |
|                                                                                    | Weight [kg]:                                        | 2.700                 |
|                                                                                    | Notation:                                           | 180° reversible       |
|                                                                                    | Tool drive:                                         | Flat (~DIN 1809)      |
|                                                                                    | Shank size [mm]:                                    | 45.00                 |
|                                                                                    | Shank type:                                         | BMT                   |
|                                                                                    | Tool adaption:                                      | ER 16                 |
|                                                                                    | Gear ratio [i]:                                     | 1:1                   |
|                                                                                    | Torque max [Nm]:                                    | 10                    |
|                                                                                    | Rotation max [1/min]:                               | 6000                  |
|                                                                                    | Rotating direction:                                 | same                  |
|                                                                                    | Coolant:                                            | EXT                   |



| Part-#              | Name                                                                     |                                            |
|---------------------|--------------------------------------------------------------------------|--------------------------------------------|
|                     | Please note:                                                             | position can be pinned; note swivel range! |
|                     | Center distance [mm]:                                                    | 55                                         |
| <b>8 040 44 023</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 20</b>         |                                            |
|                     | Weight [kg]:                                                             | 2.800                                      |
|                     | Tool drive:                                                              | Flat (~DIN 1809)                           |
|                     | Shank size [mm]:                                                         | 45.00                                      |
|                     | Shank type:                                                              | BMT                                        |
|                     | Tool adaption:                                                           | ER 20                                      |
|                     | Gear ratio [i]:                                                          | 1:1                                        |
|                     | Torque max [Nm]:                                                         | 10                                         |
|                     | Rotation max [1/min]:                                                    | 6000                                       |
|                     | Rotating direction:                                                      | same                                       |
|                     | Coolant:                                                                 | EXT                                        |
|                     | Please note:                                                             | Note swivel range!                         |
|                     | Center distance [mm]:                                                    | 55                                         |
| <b>8 040 44 104</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16</b>         |                                            |
|                     | Notation:                                                                | 180° reversible                            |
|                     | Version:                                                                 | 45° position can be pinned                 |
|                     | Tool drive:                                                              | Flat (~DIN 1809)                           |
|                     | Shank size [mm]:                                                         | 45.00                                      |
|                     | Shank type:                                                              | BMT                                        |
|                     | Tool adaption:                                                           | ER 16                                      |
|                     | Gear ratio [i]:                                                          | 1:1                                        |
|                     | Torque max [Nm]:                                                         | 10                                         |
|                     | Rotation max [1/min]:                                                    | 6000                                       |
|                     | Rotating direction:                                                      | same                                       |
|                     | Coolant:                                                                 | EXT                                        |
|                     | Center distance [mm]:                                                    | 55                                         |
| <b>8 043 44 004</b> | <b>Universal head <math>+105^\circ/-20^\circ</math> adj. ER16AX UTIK</b> |                                            |
|                     | Weight [kg]:                                                             | 5.450                                      |
|                     | Notation:                                                                | offset                                     |
|                     | Tool drive:                                                              | Flat (~DIN 1809)                           |
|                     | Shank size [mm]:                                                         | 45.00                                      |
|                     | Shank type:                                                              | BMT                                        |
|                     | Tool adaption:                                                           | ER 16 A - u-tec                            |
|                     | Gear ratio [i]:                                                          | 1:1                                        |
|                     | Torque max [Nm]:                                                         | 25                                         |
|                     | Rotation max [1/min]:                                                    | 6000                                       |
|                     | Rotating direction:                                                      | opposite                                   |
|                     | Coolant:                                                                 | IC/Ext                                     |
|                     | Pressure max [bar]:                                                      | 25                                         |
|                     | Please note:                                                             | 180° reversible                            |
|                     | Center distance [mm]:                                                    | 50                                         |
|                     | Offset [mm]:                                                             | 35                                         |
| <b>8 043 44 005</b> | <b>Universal head <math>+105^\circ/-20^\circ</math> adj. ER16 AX UT</b>  |                                            |
|                     | Weight [kg]:                                                             | 5.360                                      |
|                     | Notation:                                                                | offset; 180° reversible                    |
|                     | Tool drive:                                                              | Flat (~DIN 1809)                           |
|                     | Shank size [mm]:                                                         | 45.00                                      |
|                     | Shank type:                                                              | BMT                                        |
|                     | Tool adaption:                                                           | ER 16 A - u-tec                            |
|                     | Gear ratio [i]:                                                          | 1:1                                        |
|                     | Torque max [Nm]:                                                         | 25                                         |

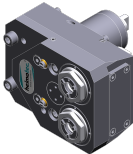


| Part-#                                                                            | Name                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 50<br>Offset [mm]: 35                                                                                                                                                                                                                                                                                              |
| <b>8 043 44 006</b>                                                               | <b>Universal head +105°/-20° adj. ER16AX UTIK</b>                                                                                                                                                                                                                                                                                                                                                                      |
|  | Weight [kg]: 5.470<br>Notation: offset<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 45.00<br>Shank type: BMT<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 25<br>Please note: 180° reversible<br>Center distance [mm]: 50<br>Offset [mm]: 35                         |
| <b>8 043 44 007</b>                                                               | <b>Universal head +105°/-20° adj. ER16 AX UT</b>                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                   | Weight [kg]: 5.410<br>Notation: offset<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 45.00<br>Shank type: BMT<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: EXT<br>Please note: 180° reversible<br>Center distance [mm]: 50<br>Offset [mm]: 35                                                      |
| <b>8 043 44 042</b>                                                               | <b>Universal head +105°/-20° adj. ER16AX UTIK</b>                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                   | Weight [kg]: 5.470<br>Notation: offset<br>Version: at 71,5° position can be pinned<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 45.00<br>Shank type: BMT<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 25<br>Please note: 180° reversible<br>Center distance [mm]: 50 |

| Part-#                                                                            | Name                                              |                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------|
| <b>8 043 45 000</b>                                                               | <b>Universal head +105°/-20° adj. ER25 AX UT</b>  |                                 |
|  | Weight [kg]:                                      | 5.580                           |
|                                                                                   | Notation:                                         | offset; 180° reversible         |
|                                                                                   | Tool drive:                                       | Flat (~DIN 1809)                |
|                                                                                   | Shank size [mm]:                                  | 45.00                           |
|                                                                                   | 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:                               | opposite                        |
|                                                                                   | Coolant:                                          | EXT                             |
|                                                                                   | Please note:                                      | stronger bearing                |
|                                                                                   | Center distance [mm]:                             | 50                              |
| <b>8 043 45 004</b>                                                               | <b>Universal head +105°/-20° adj. ER25AX UTIK</b> |                                 |
|  | Weight [kg]:                                      | 5.660                           |
|                                                                                   | Notation:                                         | offset; 180° reversible         |
|                                                                                   | Tool drive:                                       | Flat (~DIN 1809)                |
|                                                                                   | Shank size [mm]:                                  | 45.00                           |
|                                                                                   | 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:                               | opposite                        |
|                                                                                   | Coolant:                                          | IC/Ext                          |
|                                                                                   | Pressure max [bar]:                               | 25                              |
|                                                                                   | Please note:                                      | stronger bearing                |
|                                                                                   | Center distance [mm]:                             | 50                              |
|                                                                                   | Offset [mm]:                                      | 35                              |
| <b>8 043 45 005</b>                                                               | <b>Universal head +105°/-20° adj. ER25AX UTIK</b> |                                 |
|                                                                                   | Weight [kg]:                                      | 5.610                           |
|                                                                                   | Notation:                                         | offset; 180° reversible         |
|                                                                                   | Version:                                          | at 42,9° position can be pinned |
|                                                                                   | Tool drive:                                       | Flat (~DIN 1809)                |
|                                                                                   | Shank size [mm]:                                  | 45.00                           |
|                                                                                   | 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:                               | opposite                        |
|                                                                                   | Coolant:                                          | IC/Ext                          |
|                                                                                   | Pressure max [bar]:                               | 25                              |
|                                                                                   | Please note:                                      | stronger bearing                |
|                                                                                   | Center distance [mm]:                             | 50                              |
|                                                                                   | Offset [mm]:                                      | 35                              |
| <b>8 043 45 015</b>                                                               | <b>Universal head +105°/-20° adj. Weldon 16</b>   |                                 |
|                                                                                   | Notation:                                         | offset; 180° reversible         |
|                                                                                   | Tool drive:                                       | Flat (~DIN 1809)                |
|                                                                                   | Shank size [mm]:                                  | 45.00                           |
|                                                                                   | Shank type:                                       | BMT                             |
|                                                                                   | Tool adaption:                                    | Weldon (DIN 1835 b) 16 special  |
|                                                                                   | Gear ratio [i]:                                   | 1:1                             |

| Part-#              | Name                                             |                                                        |
|---------------------|--------------------------------------------------|--------------------------------------------------------|
|                     | Torque max [Nm]:                                 | 25                                                     |
|                     | Rotation max [1/min]:                            | 6000                                                   |
|                     | Rotating direction:                              | opposite                                               |
|                     | Coolant:                                         | EXT                                                    |
|                     | Please note:                                     | stronger bearing                                       |
|                     | Center distance [mm]:                            | 50                                                     |
|                     | Offset [mm]:                                     | 35                                                     |
| <b>8 043 45 017</b> | <b>Universal head +105°/-20° adj. ER25 AX UT</b> |                                                        |
|                     | Weight [kg]:                                     | 5.590                                                  |
|                     | Notation:                                        | offset; 180° reversible; at 45° position can be pinned |
|                     | Tool drive:                                      | Flat (~DIN 1809)                                       |
|                     | Shank size [mm]:                                 | 45.00                                                  |
|                     | 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:                              | opposite                                               |
|                     | Coolant:                                         | EXT                                                    |
|                     | Please note:                                     | stronger bearing                                       |
|                     | Center distance [mm]:                            | 50                                                     |
| <b>8 043 46 002</b> | <b>Universal head +105°/-20° adj. Weldon 20</b>  |                                                        |
|                     | Weight [kg]:                                     | 5.790                                                  |
|                     | Notation:                                        | offset; 180° reversible                                |
|                     | Tool drive:                                      | Flat (~DIN 1809)                                       |
|                     | Shank size [mm]:                                 | 45.00                                                  |
|                     | Shank type:                                      | BMT                                                    |
|                     | Tool adaption:                                   | Weldon (DIN 1835 b) 20                                 |
|                     | Gear ratio [i]:                                  | 1:1                                                    |
|                     | Torque max [Nm]:                                 | 25                                                     |
|                     | Rotation max [1/min]:                            | 6000                                                   |
|                     | Rotating direction:                              | opposite                                               |
|                     | Coolant:                                         | EXT                                                    |
|                     | Please note:                                     | stronger bearing                                       |
|                     | Center distance [mm]:                            | 50                                                     |
|                     | Offset [mm]:                                     | 35                                                     |
| <b>8 050 43 009</b> | <b>Multispindle drilling head ER 11</b>          |                                                        |
|                     | Tool drive:                                      | Flat (~DIN 1809)                                       |
|                     | Shank size [mm]:                                 | 45.00                                                  |
|                     | Shank type:                                      | BMT                                                    |
|                     | Tool adaption:                                   | ER 11                                                  |
|                     | Gear ratio [i]:                                  | 1:1                                                    |
|                     | Torque max [Nm]:                                 | 10/Sp.                                                 |
|                     | Rotation max [1/min]:                            | 6000                                                   |
|                     | Rotating direction:                              | opposite                                               |
|                     | Coolant:                                         | EXT                                                    |
| <b>8 050 44 005</b> | <b>Multispindle drilling head ER 16 AX UT</b>    |                                                        |
|                     | Version:                                         | 2-spindles                                             |
|                     | Tool drive:                                      | Flat (~DIN 1809)                                       |
|                     | Shank size [mm]:                                 | 45.00                                                  |
|                     | Tool adaption:                                   | ER 16 A - u-tec                                        |
|                     | Gear ratio [i]:                                  | 1:1                                                    |
|                     | Torque max [Nm]:                                 | 25/Sp.                                                 |



| Part-#                                                                             | Name                                             |                         |
|------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|
|                                                                                    | Rotation max [1/min]:                            | 12000                   |
|                                                                                    | Rotating direction:                              | opposite                |
|                                                                                    | Coolant:                                         | EXT                     |
| <b>8 050 44 045</b>                                                                | <b>Multispindle drilling head ER 16 AX UT</b>    |                         |
|                                                                                    | Weight [kg]:                                     | 5.840                   |
|                                                                                    | Notation:                                        | offset, 180° reversible |
|                                                                                    | Version:                                         | 2-spindles              |
|                                                                                    | Tool drive:                                      | Flat (~DIN 1809)        |
|                                                                                    | Shank size [mm]:                                 | 45.00                   |
|                                                                                    | Shank type:                                      | BMT                     |
|                                                                                    | Tool adaption:                                   | ER 16 A - u-tec         |
|                                                                                    | Gear ratio [i]:                                  | 1:2                     |
|                                                                                    | Torque max [Nm]:                                 | 8/Sp.                   |
|                                                                                    | Rotation max [1/min]:                            | 12000                   |
|                                                                                    | Rotating direction:                              | same                    |
|                                                                                    | Coolant:                                         | EXT                     |
|                                                                                    | Offset [mm]:                                     | 64,359                  |
| <b>8 050 44 064</b>                                                                | <b>Multispindle drilling head ER 16 AX UT IC</b> |                         |
|  | Weight [kg]:                                     | 5.900                   |
|                                                                                    | Notation:                                        | offset, 180° reversible |
|                                                                                    | Version:                                         | 2-spindles              |
|                                                                                    | Tool drive:                                      | Flat (~DIN 1809)        |
|                                                                                    | Shank size [mm]:                                 | 45.00                   |
|                                                                                    | Shank type:                                      | BMT                     |
|                                                                                    | Tool adaption:                                   | ER 16 A - u-tec         |
|                                                                                    | Gear ratio [i]:                                  | 1:1                     |
|                                                                                    | Torque max [Nm]:                                 | 16/Sp.                  |
|                                                                                    | Rotation max [1/min]:                            | 6000                    |
|                                                                                    | Rotating direction:                              | same                    |
|                                                                                    | Coolant:                                         | IC/Ext                  |
|                                                                                    | Pressure max [bar]:                              | 140                     |
|                                                                                    | Please note:                                     | Check applicability!    |
|                                                                                    | Offset [mm]:                                     | 65                      |
| <b>8 053 44 032</b>                                                                | <b>Multispindle radial head ER 16 AX UT</b>      |                         |
|                                                                                    | Weight [kg]:                                     | 6.120                   |
|                                                                                    | Notation:                                        | 180° reversible         |
|                                                                                    | Version:                                         | 2-spindles              |
|                                                                                    | Tool drive:                                      | Flat (~DIN 1809)        |
|                                                                                    | Shank size [mm]:                                 | 45.00                   |
|                                                                                    | Shank type:                                      | BMT                     |
|                                                                                    | Tool adaption:                                   | ER 16 A - u-tec         |
|                                                                                    | Gear ratio [i]:                                  | 1:2                     |
|                                                                                    | Torque max [Nm]:                                 | 8                       |
|                                                                                    | Rotation max [1/min]:                            | 12000                   |
|                                                                                    | Rotating direction:                              | same                    |
|                                                                                    | Coolant:                                         | EXT                     |
|                                                                                    | Center distance [mm]:                            | 65                      |

| Part-#                                                                              | Name                                          |                  |
|-------------------------------------------------------------------------------------|-----------------------------------------------|------------------|
| <b>8 053 44 062</b>                                                                 | <b>Multispindle radial head ER16 AX UT IC</b> |                  |
|    | Weight [kg]:                                  | 6.580            |
|                                                                                     | Notation:                                     | 180° reversible  |
|                                                                                     | Version:                                      | 2-spindles       |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                              | 45.00            |
|                                                                                     | Shank type:                                   | BMT              |
|                                                                                     | Tool adaption:                                | ER 16 A - u-tec  |
|                                                                                     | Gear ratio [i]:                               | 1:1              |
|                                                                                     | Torque max [Nm]:                              | 32/Sp            |
|                                                                                     | Rotation max [1/min]:                         | 12000            |
|                                                                                     | Rotating direction:                           | same             |
|                                                                                     | Coolant:                                      | IC/Ext           |
|                                                                                     | Pressure max [bar]:                           | 140              |
|                                                                                     | Center distance [mm]:                         | 65               |
| <b>8 053 44 063</b>                                                                 | <b>Multispindle radial head ER16 AX UT IC</b> |                  |
|   | Notation:                                     | 180° reversible  |
|                                                                                     | Version:                                      | 2-spindles       |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                              | 45.00            |
|                                                                                     | Shank type:                                   | BMT              |
|                                                                                     | Tool adaption:                                | ER 16 A - u-tec  |
|                                                                                     | Gear ratio [i]:                               | 1:2              |
|                                                                                     | Torque max [Nm]:                              | 16/Sp            |
|                                                                                     | Rotation max [1/min]:                         | 12000            |
|                                                                                     | Rotating direction:                           | same             |
|                                                                                     | Coolant:                                      | IC/Ext           |
|                                                                                     | Pressure max [bar]:                           | 140              |
|                                                                                     | Center distance [mm]:                         | 65               |
| <b>8 053 44 065</b>                                                                 | <b>Multispindle radial head ER 16 AX UT</b>   |                  |
|  | Weight [kg]:                                  | 6.400            |
|                                                                                     | Notation:                                     | 180° reversible  |
|                                                                                     | Version:                                      | 2-spindles       |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                              | 45.00            |
|                                                                                     | Shank type:                                   | BMT              |
|                                                                                     | Tool adaption:                                | ER 16 A - u-tec  |
|                                                                                     | Gear ratio [i]:                               | 1:2              |
|                                                                                     | Torque max [Nm]:                              | 16/Sp            |
|                                                                                     | Rotation max [1/min]:                         | 12000            |
|                                                                                     | Rotating direction:                           | same             |
|                                                                                     | Coolant:                                      | EXT              |
|                                                                                     | Center distance [mm]:                         | 65               |
| <b>8 053 44 066</b>                                                                 | <b>Multispindle radial head ER 16 AX UT</b>   |                  |
|  | Notation:                                     | 180° reversible  |
|                                                                                     | Version:                                      | 2-spindles       |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809) |
|                                                                                     | Shank size [mm]:                              | 45.00            |
|                                                                                     | Shank type:                                   | BMT              |
|                                                                                     | Tool adaption:                                | ER 16 A - u-tec  |
|                                                                                     | Gear ratio [i]:                               | 1:1              |
|                                                                                     | Torque max [Nm]:                              | 32/Sp            |
|                                                                                     | Rotation max [1/min]:                         | 12000            |

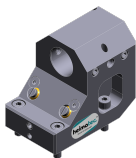
| Part-#                                                                              | Name                                          |                                        |
|-------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
|                                                                                     | Rotating direction:                           | same                                   |
|                                                                                     | Coolant:                                      | EXT                                    |
|                                                                                     | Center distance [mm]:                         | 65                                     |
| <b>8 053 44 067</b>                                                                 | <b>Multispindle radial head ER 20 AX UT</b>   |                                        |
|                                                                                     | Notation:                                     | 180° reversible                        |
|                                                                                     | Version:                                      | 2-spindles                             |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                              | 45.00                                  |
|                                                                                     | Shank type:                                   | BMT                                    |
|                                                                                     | Tool adaption:                                | ER 20 A - u-tec                        |
|                                                                                     | Gear ratio [i]:                               | 1:1                                    |
|                                                                                     | Torque max [Nm]:                              | 32/Sp                                  |
|                                                                                     | Rotation max [1/min]:                         | 12000                                  |
|                                                                                     | Rotating direction:                           | same                                   |
|                                                                                     | Coolant:                                      | EXT                                    |
|                                                                                     | Please note:                                  | Check applicability; note tool length! |
|                                                                                     | Center distance [mm]:                         | 75                                     |
| <b>8 053 44 072</b>                                                                 | <b>Multispindle radial head ER 20 AX UT</b>   |                                        |
|                                                                                     | Notation:                                     | 180° reversible                        |
|                                                                                     | Version:                                      | 2-spindles                             |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                              | 45.00                                  |
|                                                                                     | Shank type:                                   | BMT                                    |
|                                                                                     | Tool adaption:                                | ER 20 A - u-tec                        |
|                                                                                     | Gear ratio [i]:                               | 1:1                                    |
|                                                                                     | Torque max [Nm]:                              | 32/Sp.                                 |
|                                                                                     | Rotation max [1/min]:                         | 10000                                  |
|                                                                                     | Rotating direction:                           | same/opposite                          |
|                                                                                     | Coolant:                                      | EXT                                    |
|                                                                                     | Please note:                                  | Mortise depth ~ 71 mm                  |
|                                                                                     | Center distance [mm]:                         | 75/120                                 |
| <b>8 053 44 074</b>                                                                 | <b>Multispindle radial head ER 20 AX UTIK</b> |                                        |
|  | Notation:                                     | 180° reversible                        |
|                                                                                     | Version:                                      | 2-spindles                             |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                              | 45.00                                  |
|                                                                                     | Shank type:                                   | BMT                                    |
|                                                                                     | Tool adaption:                                | ER 20 A - u-tec                        |
|                                                                                     | Gear ratio [i]:                               | 1:1                                    |
|                                                                                     | Torque max [Nm]:                              | 32/Sp                                  |
|                                                                                     | Rotation max [1/min]:                         | 12000                                  |
|                                                                                     | Rotating direction:                           | same                                   |
|                                                                                     | Coolant:                                      | IC/Ext                                 |
|                                                                                     | Pressure max [bar]:                           | 140                                    |
|                                                                                     | Please note:                                  | Check applicability; note tool length! |
|                                                                                     | Center distance [mm]:                         | 75                                     |
| <b>8 053 44 075</b>                                                                 | <b>Multispindle radial head ER 20 AX UTIK</b> |                                        |
|                                                                                     | Notation:                                     | 180° reversible                        |
|                                                                                     | Version:                                      | 2-spindles                             |
|                                                                                     | Tool drive:                                   | Flat (~DIN 1809)                       |
|                                                                                     | Shank size [mm]:                              | 45.00                                  |
|                                                                                     | Shank type:                                   | BMT                                    |
|                                                                                     | Tool adaption:                                | ER 20 A - u-tec                        |

| Part-#                                                                              | Name                                        |                                 |
|-------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------|
|                                                                                     | Gear ratio [i]:                             | 1:1                             |
|                                                                                     | Torque max [Nm]:                            | 32/Sp.                          |
|                                                                                     | Rotation max [1/min]:                       | 10000                           |
|                                                                                     | Rotating direction:                         | same/opposite                   |
|                                                                                     | Coolant:                                    | IC/Ext                          |
|                                                                                     | Pressure max [bar]:                         | 140                             |
|                                                                                     | Please note:                                | Mortise depth ~ 71 mm           |
|                                                                                     | Center distance [mm]:                       | 75/120                          |
| <b>8 200 02 001</b>                                                                 | <b>Cover plate</b>                          |                                 |
|                                                                                     | Weight [kg]:                                | 0.320                           |
|                                                                                     | Shank type:                                 | -                               |
| <b>8 202 00 010</b>                                                                 | <b>Basic holder longitudinal seat FN 12</b> |                                 |
|    | Weight [kg]:                                | 0.920                           |
|                                                                                     | Notation:                                   | 180° reversible                 |
|                                                                                     | Shank type:                                 | BMT                             |
|                                                                                     | Machine adaption:                           | Centering bolt ø 12             |
|                                                                                     | Tool adaption:                              | Interface FN 12                 |
|                                                                                     | Coolant:                                    | EXT                             |
| <b>8 224 01 020</b>                                                                 | <b>Cut-off holder sq. 20</b>                |                                 |
|                                                                                     | Weight [kg]:                                | 2.020                           |
|                                                                                     | Employment for:                             | right cutting tools             |
|                                                                                     | Version:                                    | Special; edge on side of turret |
|                                                                                     | Shank type:                                 | BMT                             |
|                                                                                     | Machine adaption:                           | Centering bolt ø 12             |
|                                                                                     | Tool adaption:                              | Sq. 20                          |
|                                                                                     | Coolant:                                    | EXT                             |
| <b>8 224 03 016</b>                                                                 | <b>Universal turning holder sq. 3/4" IC</b> |                                 |
|  | Weight [kg]:                                | 2.630                           |
|                                                                                     | Notation:                                   | 180° reversible                 |
|                                                                                     | Shank type:                                 | BMT                             |
|                                                                                     | Machine adaption:                           | Centering bolt ø 12             |
|                                                                                     | Tool adaption:                              | Sq. 3/4" (19,05mm)              |
|                                                                                     |                                             | Sq. 3/4" (19,05mm)              |
|                                                                                     | Coolant:                                    | IC/Ext                          |
|                                                                                     | Pressure max [bar]:                         | 100                             |
|                                                                                     | Please note:                                | Key rail                        |
| <b>8 224 04 000</b>                                                                 | <b>Universal turning holder sq. 20</b>      |                                 |
|  | Weight [kg]:                                | 2.640                           |
|                                                                                     | Notation:                                   | 180° reversible                 |
|                                                                                     | Shank type:                                 | BMT                             |
|                                                                                     | Machine adaption:                           | Centering bolt ø 12             |
|                                                                                     | Tool adaption:                              | Sq. 20                          |
|                                                                                     |                                             | Sq. 20                          |
|                                                                                     | Coolant:                                    | EXT                             |

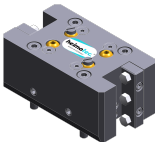


| Part-#                                                                            | Name                                      |                                        |
|-----------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|
| <b>8 224 04 035</b>                                                               | <b>Universal turning holder sq. 20 IC</b> |                                        |
|  | Weight [kg]:                              | 2.620                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | Sq. 20                                 |
|                                                                                   | Coolant:                                  | IC                                     |
| <b>8 224 04 068</b>                                                               | <b>Universal turning holder sq. 20 IC</b> |                                        |
|  | Weight [kg]:                              | 2.610                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | Sq. 20                                 |
|                                                                                   |                                           | Sq. 20                                 |
|                                                                                   | Coolant:                                  | IC/Ext                                 |
|                                                                                   | Pressure max [bar]:                       | 100                                    |
|                                                                                   | Please note:                              | Key rail                               |
| <b>8 229 05 004</b>                                                               | <b>Tool holder C 3 IC</b>                 |                                        |
|                                                                                   | Weight [kg]:                              | 2.980                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Version:                                  | right                                  |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | heimatec Capto(TM) C 3                 |
|                                                                                   | Coolant:                                  | IC                                     |
|                                                                                   | Please note:                              | Check applicability; note tool length! |
|                                                                                   | Offset [mm]:                              | 65                                     |
| <b>8 229 05 005</b>                                                               | <b>Tool holder C 3 IC</b>                 |                                        |
|                                                                                   | Weight [kg]:                              | 1.590                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Version:                                  | right                                  |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | heimatec Capto(TM) C 3                 |
|                                                                                   | Coolant:                                  | IC                                     |
|                                                                                   | Please note:                              | Check applicability; note tool length! |
|                                                                                   | Offset [mm]:                              | 27                                     |
| <b>8 240 05 034</b>                                                               | <b>Boring bar holder Ø 16</b>             |                                        |
|                                                                                   | Weight [kg]:                              | 4.360                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | Ø 16                                   |
|                                                                                   | Coolant:                                  | IC/Ext                                 |
|                                                                                   | Center distance [mm]:                     | 75                                     |
| <b>8 240 05 059</b>                                                               | <b>Tool holder C 3 IC</b>                 |                                        |
|                                                                                   | Weight [kg]:                              | 4.130                                  |
|                                                                                   | Notation:                                 | 180° reversible                        |
|                                                                                   | Version:                                  | right                                  |
|                                                                                   | Shank type:                               | BMT                                    |
|                                                                                   | Machine adaption:                         | Centering bolt ø 12                    |
|                                                                                   | Tool adaption:                            | heimatec Capto(TM) C 3                 |

| Part-#              | Name                               |                                        |
|---------------------|------------------------------------|----------------------------------------|
|                     | Coolant:                           | IC                                     |
|                     | Please note:                       | Check applicability; note tool length! |
|                     | Center distance [mm]:              | 80                                     |
| <b>8 240 05 060</b> | <b>Tool holder C 3 IC</b>          |                                        |
|                     | Weight [kg]:                       | 3.190                                  |
|                     | Notation:                          | 180° reversible                        |
|                     | Version:                           | offset; right                          |
|                     | Shank type:                        | BMT                                    |
|                     | Machine adaption:                  | Centering bolt ø 12                    |
|                     | Tool adaption:                     | heimatec Capto(TM) C 3                 |
|                     | Coolant:                           | IC                                     |
|                     | Please note:                       | Check applicability; note tool length! |
|                     | Center distance [mm]:              | 80                                     |
| <b>8 240 06 034</b> | <b>Boring bar holder Ø 20</b>      |                                        |
|                     | Weight [kg]:                       | 4.280                                  |
|                     | Notation:                          | 180° reversible                        |
|                     | Shank type:                        | BMT                                    |
|                     | Machine adaption:                  | Centering bolt ø 12                    |
|                     | Tool adaption:                     | Ø 20                                   |
|                     | Coolant:                           | IC/Ext                                 |
|                     | Center distance [mm]:              | 75                                     |
| <b>8 240 07 038</b> | <b>Boring bar holder Ø 25</b>      |                                        |
|                     | Weight [kg]:                       | 4.160                                  |
|                     | Notation:                          | 180° reversible                        |
|                     | Shank type:                        | BMT                                    |
|                     | Machine adaption:                  | Centering bolt ø 12                    |
|                     | Tool adaption:                     | Ø 25                                   |
|                     | Coolant:                           | IC/Ext                                 |
|                     | Center distance [mm]:              | 75                                     |
| <b>8 240 07 050</b> | <b>Boring bar holder Ø 1 1/4 "</b> |                                        |
|                     | Weight [kg]:                       | 3.790                                  |
|                     | Notation:                          | offset                                 |
|                     | Shank type:                        | BMT                                    |
|                     | Machine adaption:                  | Centering bolt ø 12                    |
|                     | Tool adaption:                     | Ø 1 1/4" (31,75mm)                     |
|                     | Coolant:                           | IC/Ext                                 |
|                     | Center distance [mm]:              | 75                                     |
| <b>8 240 08 000</b> | <b>Boring bar holder Ø 32</b>      |                                        |
|                     | Weight [kg]:                       | 3.740                                  |
|                     | Notation:                          | offset                                 |
|                     | Shank type:                        | BMT                                    |
|                     | Machine adaption:                  | Centering bolt ø 12                    |
|                     | Tool adaption:                     | Ø 32                                   |
|                     | Coolant:                           | IC/Ext                                 |
|                     | Center distance [mm]:              | 75                                     |



| Part-#                                                                             | Name                              |                                        |
|------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>8 240 08 046</b>                                                                | <b>Boring bar holder Ø 32</b>     |                                        |
|                                                                                    | Weight [kg]:                      | 3.940                                  |
|                                                                                    | Notation:                         | 180° reversible                        |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt ø 12                    |
|                                                                                    | Tool adaption:                    | Ø 32                                   |
|                                                                                    | Coolant:                          | IC/Ext                                 |
|                                                                                    | Center distance [mm]:             | 75                                     |
| <b>8 240 08 074</b>                                                                | <b>Boring bar holder Ø 1 1/2"</b> |                                        |
|                                                                                    | Weight [kg]:                      | 4.000                                  |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt ø 12                    |
|                                                                                    | Tool adaption:                    | Ø 1 1/2" (38,1mm)                      |
|                                                                                    | Coolant:                          | IC/Ext                                 |
|                                                                                    | Center distance [mm]:             | 75                                     |
| <b>8 240 09 002</b>                                                                | <b>Boring bar holder Ø 40</b>     |                                        |
|  | Weight [kg]:                      | 2.660                                  |
|                                                                                    | Version:                          | offset                                 |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt Ø 12                    |
|                                                                                    | Tool adaption:                    | Ø 40                                   |
|                                                                                    | Coolant:                          | IC/Ext                                 |
|                                                                                    | Center distance [mm]:             | 75                                     |
| <b>8 240 09 013</b>                                                                | <b>Boring bar holder Ø 40</b>     |                                        |
|                                                                                    | Weight [kg]:                      | 3.950                                  |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt Ø 12                    |
|                                                                                    | Tool adaption:                    | Ø 40                                   |
|                                                                                    | Coolant:                          | IC/Ext                                 |
|                                                                                    | Center distance [mm]:             | 75                                     |
| <b>8 244 04 019</b>                                                                | <b>Combi facing holder sq. 20</b> |                                        |
|                                                                                    | Weight [kg]:                      | 3.700                                  |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt ø 12                    |
|                                                                                    | Tool adaption:                    | Sq. 20                                 |
|                                                                                    | Coolant:                          | EXT                                    |
| <b>8 249 05 008</b>                                                                | <b>Double tool holder C 3 IC</b>  |                                        |
|                                                                                    | Weight [kg]:                      | 4.860                                  |
|                                                                                    | Employment for:                   | Main- and sub spindle                  |
|                                                                                    | Version:                          | right                                  |
|                                                                                    | Shank type:                       | BMT                                    |
|                                                                                    | Machine adaption:                 | Centering bolt ø 12                    |
|                                                                                    | Tool adaption:                    | heimatec Capto(TM) C 3                 |
|                                                                                    |                                   | heimatec Capto(TM) C 3                 |
|                                                                                    | Coolant:                          | IC                                     |
|                                                                                    | Please note:                      | Check applicability; note tool length! |
|                                                                                    | Center distance [mm]:             | 80                                     |

| Part-#                                                                              | Name                                           |                                        |
|-------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------|
| <b>8 250 05 002</b>                                                                 | <b>Multiple tool holder C 3 IC</b>             |                                        |
|                                                                                     | Weight [kg]:                                   | 2.140                                  |
|                                                                                     | Employment for:                                | Main- and sub spindle                  |
|                                                                                     | Version:                                       | right                                  |
|                                                                                     | Shank type:                                    | BMT                                    |
|                                                                                     | Machine adaption:                              | Centering bolt ø 12                    |
|                                                                                     | Tool adaption:                                 | heimatec Capto(TM) C 3                 |
|                                                                                     |                                                | heimatec Capto(TM) C 3                 |
|                                                                                     | Coolant:                                       | IC                                     |
|                                                                                     | Please note:                                   | Check applicability; note tool length! |
|                                                                                     | Offset [mm]:                                   | 27                                     |
|                                                                                     |                                                | 27                                     |
| <b>8 250 05 003</b>                                                                 | <b>Multiple tool holder C 3 IC</b>             |                                        |
|                                                                                     | Weight [kg]:                                   | 3.730                                  |
|                                                                                     | Employment for:                                | Main- and sub spindle                  |
|                                                                                     | Version:                                       | right                                  |
|                                                                                     | Shank type:                                    | BMT                                    |
|                                                                                     | Machine adaption:                              | Centering bolt ø 12                    |
|                                                                                     | Tool adaption:                                 | heimatec Capto(TM) C 3                 |
|                                                                                     |                                                | heimatec Capto(TM) C 3                 |
|                                                                                     | Coolant:                                       | IC                                     |
|                                                                                     | Please note:                                   | Check applicability; note tool length! |
|                                                                                     | Offset [mm]:                                   | 65                                     |
|                                                                                     |                                                | 65                                     |
| <b>8 251 03 002</b>                                                                 | <b>Combi double turning holder sq. 3/4" IC</b> |                                        |
|  | Weight [kg]:                                   | 4.360                                  |
|                                                                                     | Notation:                                      | 180° reversible                        |
|                                                                                     | Shank type:                                    | BMT                                    |
|                                                                                     | Machine adaption:                              | Centering bolt ø 12                    |
|                                                                                     | Tool adaption:                                 | Sq. 3/4" (19,05mm)                     |
|                                                                                     |                                                | Sq. 3/4" (19,05mm)                     |
|                                                                                     |                                                | Sq. 3/4" (19,05mm)                     |
|                                                                                     |                                                | Sq. 3/4" (19,05mm)                     |
|                                                                                     | Coolant:                                       | IC/Ext                                 |
|                                                                                     | Pressure max [bar]:                            | 100                                    |
|                                                                                     | Please note:                                   | Key rail                               |
| <b>8 251 04 002</b>                                                                 | <b>Combi double turning holder sq. 20</b>      |                                        |
|  | Weight [kg]:                                   | 4.380                                  |
|                                                                                     | Notation:                                      | 180° reversible                        |
|                                                                                     | Shank type:                                    | BMT                                    |
|                                                                                     | Machine adaption:                              | Centering bolt ø 12                    |
|                                                                                     | Tool adaption:                                 | Sq. 20                                 |
|                                                                                     |                                                | Sq. 20                                 |
|                                                                                     |                                                | Sq. 20                                 |
|                                                                                     |                                                | Sq. 20                                 |
|                                                                                     | Coolant:                                       | EXT                                    |
| <b>8 251 04 003</b>                                                                 | <b>Combi double turning holder sq. 3/4"</b>    |                                        |
|  | Weight [kg]:                                   | 4.410                                  |
|                                                                                     | Notation:                                      | 180° reversible                        |
|                                                                                     | Shank type:                                    | BMT                                    |
|                                                                                     | Machine adaption:                              | Centering bolt ø 12                    |
|                                                                                     | Tool adaption:                                 | Sq. 3/4" (19,05mm)                     |
|                                                                                     |                                                | Sq. 3/4" (19,05mm)                     |

| Part-#                                                                              | Name                                                                            |                                                                                                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                                     |                                                                                 | Sq. 3/4" (19,05mm)<br>Sq. 3/4" (19,05mm)<br>EXT                                                  |
|                                                                                     | Coolant:                                                                        |                                                                                                  |
| <b>8 251 04 059</b>                                                                 | <b>Combi double turning holder sq. 20 IC</b>                                    |                                                                                                  |
|    | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption: | 4.360<br>180° reversible<br>BMT<br>Centering bolt ø 12<br>Sq. 20<br>Sq. 20<br>Sq. 20<br>Sq. 20   |
|                                                                                     | Coolant:<br>Pressure max [bar]:<br>Please note:                                 | IC/Ext<br>100<br>Key rail                                                                        |
| <b>8 253 07 000</b>                                                                 | <b>Double boring bar holder Ø 25</b>                                            |                                                                                                  |
|   | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption: | 2.320<br>offset, 180° reversible<br>BMT<br>Centering bolt ø 12<br>Ø 25<br>Ø 25                   |
|                                                                                     | Coolant:<br>Center distance [mm]:                                               | IC/Ext<br>50/85                                                                                  |
| <b>8 253 07 003</b>                                                                 | <b>Multiple boring bar holder Ø 1"</b>                                          |                                                                                                  |
|  | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption: | 2.530<br>offset, 180° reversible<br>BMT<br>Centering bolt ø 12<br>Ø 1" (25,4mm)<br>Ø 1" (25,4mm) |
|                                                                                     | Coolant:<br>Center distance [mm]:                                               | IC/Ext<br>50/85                                                                                  |
| <b>8 253 07 004</b>                                                                 | <b>Double boring bar holder Ø 1"</b>                                            |                                                                                                  |
|  | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption: | 3.740<br>180° reversible<br>BMT<br>Centering bolt ø 12<br>Ø 1" (25,4mm)<br>Ø 1" (25,4mm)         |
|                                                                                     | Coolant:<br>Center distance [mm]:                                               | IC/Ext<br>50/85                                                                                  |
| <b>8 253 07 006</b>                                                                 | <b>Double boring bar holder Ø 25</b>                                            |                                                                                                  |
|  | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption: | 3.710<br>180° reversible<br>BMT<br>Centering bolt ø 12<br>Ø 25<br>Ø 25                           |
|                                                                                     | Coolant:<br>Center distance [mm]:                                               | IC/Ext<br>50/85                                                                                  |

| Part-#              | Name                                     |                                            |
|---------------------|------------------------------------------|--------------------------------------------|
| <b>8 259 01 006</b> | <b>Multiple turning holder 4x sq. 20</b> |                                            |
|                     | Weight [kg]:                             | 4.700                                      |
|                     | Employment for:                          | Main- and sub spindle                      |
|                     | Version:                                 | Y-axes offset                              |
|                     | Shank type:                              | BMT                                        |
|                     | Machine adaption:                        | Centering bolt ø 12                        |
|                     | Tool adaption:                           | Sq. 20                                     |
|                     |                                          | Sq. 20                                     |
|                     |                                          | Sq. 20                                     |
|                     |                                          | Sq. 20                                     |
|                     | Coolant:                                 | EXT                                        |
| <b>8 259 05 001</b> | <b>Multiple tool holder C 3 IC</b>       |                                            |
|                     | Weight [kg]:                             | 5.590                                      |
|                     | Employment for:                          | Main- and sub spindle                      |
|                     | Version:                                 | right; Y-axes offset                       |
|                     | Shank type:                              | BMT                                        |
|                     | Machine adaption:                        | Centering bolt ø 12                        |
|                     | Tool adaption:                           | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     | Coolant:                                 | IC                                         |
|                     | Please note:                             | Check applicability; note tool length! not |
|                     | Offset [mm]:                             | 65                                         |
|                     |                                          | 65                                         |
| <b>8 259 05 002</b> | <b>Multiple tool holder C 3 IC</b>       |                                            |
|                     | Weight [kg]:                             | 6.330                                      |
|                     | Employment for:                          | Main- and sub spindle                      |
|                     | Version:                                 | right; Y-axes offset                       |
|                     | Shank type:                              | BMT                                        |
|                     | Machine adaption:                        | Centering bolt ø 12                        |
|                     | Tool adaption:                           | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     | Coolant:                                 | IC                                         |
|                     | Please note:                             | Check applicability; note tool length!     |
|                     | Center distance [mm]:                    | 80                                         |
| <b>8 259 05 003</b> | <b>Multiple tool holder C 3 IC</b>       |                                            |
|                     | Notation:                                | 180° reversible                            |
|                     | Version:                                 | right; Y-axes offset                       |
|                     | Shank type:                              | BMT                                        |
|                     | Machine adaption:                        | Centering bolt ø 12                        |
|                     | Tool adaption:                           | heimatec Capto(TM) C 3                     |
|                     |                                          | heimatec Capto(TM) C 3                     |
|                     | Coolant:                                 | IC                                         |
|                     | Please note:                             | Check applicability; note tool length!     |
|                     | Center distance [mm]:                    | 80                                         |
|                     | Offset [mm]:                             | +32                                        |
|                     |                                          | -32                                        |

| Part-#              | Name                               |                                             |
|---------------------|------------------------------------|---------------------------------------------|
| <b>8 259 05 004</b> | <b>Multiple tool holder C 3 IC</b> |                                             |
|                     | Weight [kg]:                       | 4.390                                       |
|                     | Notation:                          | 180° reversible                             |
|                     | Version:                           | right; offset; Y-axes offset                |
|                     | Shank type:                        | BMT                                         |
|                     | Machine adaption:                  | Centering bolt ø 12                         |
|                     | Tool adaption:                     | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     | Coolant:                           | IC                                          |
|                     | Please note:                       | Check applicability; note tool length!      |
|                     | Center distance [mm]:              | 80                                          |
| <b>8 259 05 005</b> | <b>Multiple tool holder C 3 IC</b> |                                             |
|                     | Weight [kg]:                       | 4.210                                       |
|                     | Employment for:                    | Main- and sub spindle                       |
|                     | Version:                           | right; Y-axes offset                        |
|                     | Shank type:                        | BMT                                         |
|                     | Machine adaption:                  | Centering bolt ø 12                         |
|                     | Tool adaption:                     | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     | Coolant:                           | IC                                          |
|                     | Please note:                       | Check applicability; note tool length!; not |
|                     | Offset [mm]:                       | 27                                          |
|                     |                                    | 27                                          |
| <b>8 259 05 006</b> | <b>Multiple tool holder C 3 IC</b> |                                             |
|                     | Weight [kg]:                       | 2.840                                       |
|                     | Notation:                          | 180° reversible                             |
|                     | Version:                           | right; Y-axes offset                        |
|                     | Shank type:                        | BMT                                         |
|                     | Machine adaption:                  | Centering bolt ø 12                         |
|                     | Tool adaption:                     | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     | Coolant:                           | IC                                          |
|                     | Please note:                       | Check applicability; note tool length!      |
|                     | Offset [mm]:                       | 27                                          |
| <b>8 259 05 007</b> | <b>Multiple tool holder C 3 IC</b> |                                             |
|                     | Weight [kg]:                       | 4.000                                       |
|                     | Notation:                          | 180° reversible                             |
|                     | Version:                           | right; Y-axes offset                        |
|                     | Shank type:                        | BMT                                         |
|                     | Machine adaption:                  | Centering bolt ø 12                         |
|                     | Tool adaption:                     | heimatec Capto(TM) C 3                      |
|                     |                                    | heimatec Capto(TM) C 3                      |
|                     | Coolant:                           | IC                                          |
|                     | Pressure max [bar]:                | 100                                         |
|                     | Please note:                       | Check applicability; note tool length!      |
|                     | Offset [mm]:                       | 65                                          |



| Part-#              | Name                                              |                               |
|---------------------|---------------------------------------------------|-------------------------------|
| <b>8 259 09 001</b> | <b>Multiple holder ø25 and sq. 20</b>             |                               |
|                     | Weight [kg]:                                      | 3.980                         |
|                     | Notation:                                         | 180° reversible               |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt ø 12           |
|                     | Tool adaption:                                    | ø25/ sq. 20                   |
|                     |                                                   | ø25/ sq. 20                   |
|                     | Coolant:                                          | IC/Ext                        |
|                     | Center distance [mm]:                             | 50/85                         |
| <b>8 261 08 000</b> | <b>Tool holder for centering insert</b>           |                               |
|                     | Weight [kg]:                                      | 5.270                         |
|                     | Notation:                                         | 180° reversible               |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt Ø 12           |
|                     | Tool adaption:                                    | Ø 32                          |
|                     | Coolant:                                          | EXT                           |
|                     | Please note:                                      | Price without centering point |
|                     | Center distance [mm]:                             | 55                            |
| <b>8 263 09 000</b> | <b>Tool holder with rotating centering point</b>  |                               |
|                     | Weight [kg]:                                      | 4.070                         |
|                     | Notation:                                         | 180° reversible               |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt ø 12           |
|                     | Rotation max [1/min]:                             | 6000                          |
|                     | Coolant:                                          | EXT                           |
|                     | Please note:                                      | Taper roller bearings         |
|                     | Center distance [mm]:                             | 75                            |
| <b>8 263 09 007</b> | <b>Tool holder with rotating centering point</b>  |                               |
|                     | Weight [kg]:                                      | 6.410                         |
|                     | Notation:                                         | 180° reversible; offset       |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt ø 12           |
|                     | Rotation max [1/min]:                             | 6000                          |
|                     | Coolant:                                          | EXT                           |
|                     | Center distance [mm]:                             | 85                            |
| <b>8 320 02 017</b> | <b>Cut-off holder, height adjustable SH 26 IC</b> |                               |
|                     | Notation:                                         | 180° reversible               |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt ø 12           |
|                     | Tool adaption:                                    | Clampshaft SH 26              |
|                     | Coolant:                                          | IC/Ext                        |
|                     | Pressure max [bar]:                               | 70                            |
| <b>8 320 02 018</b> | <b>Cut-off holder, height adjustable SH 26 IC</b> |                               |
|                     | Notation:                                         | 180° reversible               |
|                     | Shank type:                                       | BMT                           |
|                     | Machine adaption:                                 | Centering bolt ø 12           |
|                     | Tool adaption:                                    | Clampshaft SH 26              |
|                     | Coolant:                                          | IC/Ext                        |
|                     | Pressure max [bar]:                               | 70                            |
|                     | Please note:                                      | Clampshaft internal           |



| Part-#                                                                            | Name                                              |                                                                                              |
|-----------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>8 320 03 007</b>                                                               | <b>Cut-off holder, height adjustable SH 32 IC</b> |                                                                                              |
|  | Weight [kg]:                                      | 1.520                                                                                        |
|                                                                                   | Notation:                                         | 180° reversible                                                                              |
|                                                                                   | Shank type:                                       | BMT                                                                                          |
|                                                                                   | Machine adaption:                                 | Centering bolt ø 12                                                                          |
|                                                                                   | Tool adaption:                                    | Clampshaft SH 32                                                                             |
|                                                                                   | Coolant:                                          | IC/Ext                                                                                       |
|                                                                                   | Pressure max [bar]:                               | 140                                                                                          |
| <b>8 320 09 003</b>                                                               | <b>Cut-off holder, height adjustable 845 IC</b>   |                                                                                              |
|                                                                                   | Notation:                                         | 180° reversible                                                                              |
|                                                                                   | Shank type:                                       | BMT                                                                                          |
|                                                                                   | Machine adaption:                                 | Centering bolt ø 12                                                                          |
|                                                                                   | Tool adaption:                                    |  System 845 |
|                                                                                   | Coolant:                                          | IC                                                                                           |
|                                                                                   | Pressure max [bar]:                               | 70                                                                                           |



● heimatec overseas branches

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