

Mori Seiki

# NT 4200 - BMT 60



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

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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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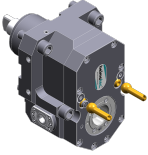
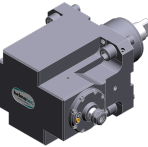
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| Part-#                                                                              | Name                                                  |                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|
| <b>8 010 66 094</b>                                                                 | <b>Axial drilling and milling head ER 32 AX UT</b>    |                                         |
|    | Weight [kg]:                                          | 5.680                                   |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)                        |
|                                                                                     | Shank size [mm]:                                      | 60.00                                   |
|                                                                                     | Shank type:                                           | BMT                                     |
|                                                                                     | Tool adaption:                                        | ER 32 A - u-tec                         |
|                                                                                     | Gear ratio [i]:                                       | 1:1                                     |
|                                                                                     | Torque max [Nm]:                                      | 100                                     |
|                                                                                     | Rotation max [1/min]:                                 | 10000                                   |
|                                                                                     | Rotating direction:                                   | same                                    |
|                                                                                     | Coolant:                                              | EXT                                     |
|                                                                                     | Please note:                                          | stronger bearing                        |
| <b>8 010 66 108</b>                                                                 | <b>Axial drilling and milling head ER 32 AX UT IC</b> |                                         |
|                                                                                     | Weight [kg]:                                          | 5.680                                   |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)                        |
|                                                                                     | Shank size [mm]:                                      | 60.00                                   |
|                                                                                     | Shank type:                                           | BMT                                     |
|                                                                                     | Tool adaption:                                        | ER 32 A - u-tec                         |
|                                                                                     | Gear ratio [i]:                                       | 1:1                                     |
|                                                                                     | Torque max [Nm]:                                      | 100                                     |
|                                                                                     | Rotation max [1/min]:                                 | 6000                                    |
|                                                                                     | Rotating direction:                                   | same                                    |
|                                                                                     | Coolant:                                              | IC/Ext                                  |
|                                                                                     | Pressure max [bar]:                                   | 25                                      |
|                                                                                     | Please note:                                          | stronger bearing                        |
| <b>8 010 66 139</b>                                                                 | <b>Axial drilling and milling head ER 32 AX UT IC</b> |                                         |
|  | Weight [kg]:                                          | 5.740                                   |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)                        |
|                                                                                     | Shank size [mm]:                                      | 60.00                                   |
|                                                                                     | Shank type:                                           | BMT                                     |
|                                                                                     | Tool adaption:                                        | ER 32 A - u-tec                         |
|                                                                                     | Gear ratio [i]:                                       | 1:1                                     |
|                                                                                     | Torque max [Nm]:                                      | 100                                     |
|                                                                                     | Rotation max [1/min]:                                 | 10000                                   |
|                                                                                     | Rotating direction:                                   | same                                    |
|                                                                                     | Coolant:                                              | IC                                      |
|                                                                                     | Pressure max [bar]:                                   | 100                                     |
|                                                                                     | Please note:                                          | Dryrun possible                         |
| <b>8 010 66 146</b>                                                                 | <b>Axial drilling and milling head C 4 IC</b>         |                                         |
|  | Tool drive:                                           | Flat (~DIN 1809)                        |
|                                                                                     | Shank size [mm]:                                      | 60.00                                   |
|                                                                                     | Shank type:                                           | BMT                                     |
|                                                                                     | Tool adaption:                                        | heimatec Capto(TM) C 4                  |
|                                                                                     | Gear ratio [i]:                                       | 1:1                                     |
|                                                                                     | Torque max [Nm]:                                      | 80                                      |
|                                                                                     | Rotation max [1/min]:                                 | 6000                                    |
|                                                                                     | Rotating direction:                                   | same                                    |
|                                                                                     | Coolant:                                              | IC/Ext                                  |
|                                                                                     | Pressure max [bar]:                                   | 100                                     |
|                                                                                     | Please note:                                          | Check applicability; note tool length!; |

| Part-#                                                                              | Name                                                  |                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------|
| <b>8 010 67 117</b>                                                                 | <b>Axial drilling and milling head ER 40 AX UT</b>    |                      |
|    | Weight [kg]:                                          | 6.180                |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)     |
|                                                                                     | Shank size [mm]:                                      | 60.00                |
|                                                                                     | Shank type:                                           | BMT                  |
|                                                                                     | Tool adaption:                                        | ER 40 u-tec          |
|                                                                                     | Gear ratio [i]:                                       | 1:1                  |
|                                                                                     | Torque max [Nm]:                                      | 100                  |
|                                                                                     | Rotation max [1/min]:                                 | 10000                |
|                                                                                     | Rotating direction:                                   | same                 |
|                                                                                     | Coolant:                                              | EXT                  |
|                                                                                     | Please note:                                          | stronger bearing     |
| <b>8 010 67 118</b>                                                                 | <b>Axial drilling and milling head ER 40 AX UT IC</b> |                      |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)     |
|                                                                                     | Shank size [mm]:                                      | 60.00                |
|                                                                                     | Shank type:                                           | BMT                  |
|                                                                                     | Tool adaption:                                        | ER 40 A - u-tec      |
|                                                                                     | Gear ratio [i]:                                       | 1:1                  |
|                                                                                     | Torque max [Nm]:                                      | 100                  |
|                                                                                     | Rotation max [1/min]:                                 | 6000                 |
|                                                                                     | Rotating direction:                                   | same                 |
|                                                                                     | Coolant:                                              | IC/Ext               |
|                                                                                     | Pressure max [bar]:                                   | 25                   |
|                                                                                     | Please note:                                          | stronger bearing     |
| <b>8 010 67 137</b>                                                                 | <b>Axial drilling and milling head ER 40 AX UT IC</b> |                      |
|  | Weight [kg]:                                          | 5.800                |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)     |
|                                                                                     | Shank size [mm]:                                      | 60.00                |
|                                                                                     | Shank type:                                           | BMT                  |
|                                                                                     | Tool adaption:                                        | ER 40 A - u-tec      |
|                                                                                     | Gear ratio [i]:                                       | 1:1                  |
|                                                                                     | Torque max [Nm]:                                      | 100                  |
|                                                                                     | Rotation max [1/min]:                                 | 10000                |
|                                                                                     | Rotating direction:                                   | same                 |
|                                                                                     | Coolant:                                              | IC                   |
|                                                                                     | Pressure max [bar]:                                   | 100                  |
|                                                                                     | Please note:                                          | Trochenlauf possible |
| <b>8 013 63 000</b>                                                                 | <b>Axial drilling and milling head ER 11</b>          |                      |
|  | Weight [kg]:                                          | 4.760                |
|                                                                                     | Tool drive:                                           | Flat (~DIN 1809)     |
|                                                                                     | Shank size [mm]:                                      | 60.00                |
|                                                                                     | Shank type:                                           | BMT                  |
|                                                                                     | Tool adaption:                                        | ER 11                |
|                                                                                     | Gear ratio [i]:                                       | 1:4                  |
|                                                                                     | Torque max [Nm]:                                      | 5                    |
|                                                                                     | Rotation max [1/min]:                                 | 48000                |
|                                                                                     | Rotating direction:                                   | same                 |
|                                                                                     | Coolant:                                              | EXT                  |

| Part-#              | Name                                                  |
|---------------------|-------------------------------------------------------|
| <b>8 013 64 003</b> | <b>Axial drilling and milling head ER 16 AX UT</b>    |
|                     | Weight [kg]: 4.840                                    |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | 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                                          |
| <b>8 013 64 016</b> | <b>Axial drilling and milling head ER 16 AX UT IC</b> |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | 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 64 051</b> | <b>Axial drilling and milling head ER 20 AX UT</b>    |
|                     | Weight [kg]: 18.420                                   |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 20 A - u-tec                        |
|                     | Gear ratio [i]: 1:1                                   |
|                     | Torque max [Nm]: 25                                   |
|                     | Rotation max [1/min]: 10000                           |
|                     | Rotating direction: same                              |
|                     | Coolant: EXT                                          |
|                     | Please note: stronger bearing, check applicability    |
|                     | Offset [mm]: 222,5                                    |
| <b>8 019 66 002</b> | <b>Axial drilling and milling head ER 32 AS UT IC</b> |
|                     | Weight [kg]: 11.190                                   |
|                     | Notation: offset; 180° reversible                     |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 32 A - u-tec                        |
|                     | Gear ratio [i]: 1:2                                   |
|                     | Torque max [Nm]: 40                                   |
|                     | Rotation max [1/min]: 12000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: IC/Ext                                       |
|                     | Pressure max [bar]: 140                               |
|                     | Please note: stronger bearing                         |
|                     | Offset [mm]: 50                                       |

| Part-#              | Name                                                  |                         |
|---------------------|-------------------------------------------------------|-------------------------|
| <b>8 019 66 019</b> | <b>Axial drilling and milling head ER 32 AX UT</b>    |                         |
|                     | Notation:                                             | offset; 180° reversible |
|                     | Tool drive:                                           | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 60.00                   |
|                     | Shank type:                                           | BMT                     |
|                     | Tool adaption:                                        | ER 32 A - u-tec         |
|                     | Gear ratio [i]:                                       | 2:1                     |
|                     | Torque max [Nm]:                                      | 80                      |
|                     | Rotation max [1/min]:                                 | 3000                    |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:                                              | EXT                     |
|                     | Please note:                                          | stronger bearing        |
|                     | Offset [mm]:                                          | 50                      |
| <b>8 019 66 022</b> | <b>Axial drilling and milling head ER 32 AS UT IC</b> |                         |
|                     | Weight [kg]:                                          | 11.130                  |
|                     | Notation:                                             | offset; 180° reversible |
|                     | Tool drive:                                           | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 60.00                   |
|                     | Shank type:                                           | BMT                     |
|                     | Tool adaption:                                        | ER 32 A - u-tec         |
|                     | Gear ratio [i]:                                       | 1:1                     |
|                     | Torque max [Nm]:                                      | 50                      |
|                     | Rotation max [1/min]:                                 | 10000                   |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:                                              | IC/Ext                  |
|                     | Pressure max [bar]:                                   | 140                     |
|                     | Please note:                                          | stronger bearing        |
|                     | Offset [mm]:                                          | 50                      |
| <b>8 019 66 073</b> | <b>Axial drilling and milling head ER 32 AS UT</b>    |                         |
|                     | Notation:                                             | offset; 180° reversible |
|                     | Tool drive:                                           | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 60.00                   |
|                     | Shank type:                                           | BMT                     |
|                     | Tool adaption:                                        | ER 32 A - u-tec         |
|                     | Gear ratio [i]:                                       | 1:2                     |
|                     | Torque max [Nm]:                                      | 40                      |
|                     | Rotation max [1/min]:                                 | 12000                   |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:                                              | EXT                     |
|                     | Please note:                                          | stronger bearing        |
|                     | Offset [mm]:                                          | 50                      |
| <b>8 019 66 074</b> | <b>Axial drilling and milling head ER 32 AS UT</b>    |                         |
|                     | Weight [kg]:                                          | 9.220                   |
|                     | Notation:                                             | offset; 180° reversible |
|                     | Tool drive:                                           | Flat (~DIN 1809)        |
|                     | Shank size [mm]:                                      | 60.00                   |
|                     | Shank type:                                           | BMT                     |
|                     | Tool adaption:                                        | ER 32 A - u-tec         |
|                     | Gear ratio [i]:                                       | 1:1                     |
|                     | Torque max [Nm]:                                      | 50                      |
|                     | Rotation max [1/min]:                                 | 10000                   |
|                     | Rotating direction:                                   | opposite                |
|                     | Coolant:                                              | EXT                     |
|                     | Please note:                                          | stronger bearing        |
|                     | Offset [mm]:                                          | 50                      |

| Part-#                                                                              | Name                                            |                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------|
| <b>8 019 66 086</b>                                                                 | <b>Axial drilling and milling head C 4</b>      |                                          |
|    | Weight [kg]:                                    | 10.040                                   |
|                                                                                     | Notation:                                       | 180° reversible, Y-axes offset           |
|                                                                                     | Tool drive:                                     | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                | 60.00                                    |
|                                                                                     | Shank type:                                     | BMT                                      |
|                                                                                     | Tool adaption:                                  | heimatec Capto(TM) C 4                   |
|                                                                                     | Gear ratio [i]:                                 | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                | 50                                       |
|                                                                                     | Rotation max [1/min]:                           | 6000                                     |
|                                                                                     | Rotating direction:                             | opposite                                 |
|                                                                                     | Coolant:                                        | EXT                                      |
|                                                                                     | Please note:                                    | Check applicability; tool length check ! |
|                                                                                     | Offset [mm]:                                    | 62                                       |
| <b>8 030 63 007</b>                                                                 | <b>Radial drilling and milling head ER 11</b>   |                                          |
|    | Weight [kg]:                                    | 10.950                                   |
|                                                                                     | Notation:                                       | 180° reversible                          |
|                                                                                     | Tool drive:                                     | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                | 60.00                                    |
|                                                                                     | Shank type:                                     | BMT                                      |
|                                                                                     | Tool adaption:                                  | ER 11                                    |
|                                                                                     | Gear ratio [i]:                                 | 1:4                                      |
|                                                                                     | Torque max [Nm]:                                | 5                                        |
|                                                                                     | Rotation max [1/min]:                           | 48000                                    |
|                                                                                     | Rotating direction:                             | opposite                                 |
|                                                                                     | Coolant:                                        | EXT                                      |
|                                                                                     | Center distance [mm]:                           | 90                                       |
| <b>8 030 66 146</b>                                                                 | <b>Radial drilling and milling head HT 4 IC</b> |                                          |
|                                                                                     | Notation:                                       | 180° reversible                          |
|                                                                                     | Tool drive:                                     | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                | 60.00                                    |
|                                                                                     | Shank type:                                     | BMT                                      |
|                                                                                     | Tool adaption:                                  | HT 4                                     |
|                                                                                     | Gear ratio [i]:                                 | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                | 50                                       |
|                                                                                     | Rotation max [1/min]:                           | 10000                                    |
|                                                                                     | Rotating direction:                             | opposite                                 |
|                                                                                     | Coolant:                                        | IC/Ext                                   |
|                                                                                     | Pressure max [bar]:                             | 140                                      |
|                                                                                     | Please note:                                    | stronger bearing                         |
|                                                                                     | Center distance [mm]:                           | 90                                       |
| <b>8 030 66 163</b>                                                                 | <b>Radial drilling and milling head C 4 IC</b>  |                                          |
|  | Weight [kg]:                                    | 13.880                                   |
|                                                                                     | Notation:                                       | 180° reversible                          |
|                                                                                     | Tool drive:                                     | Flat (~DIN 1809)                         |
|                                                                                     | Shank size [mm]:                                | 60.00                                    |
|                                                                                     | Shank type:                                     | BMT                                      |
|                                                                                     | Tool adaption:                                  | heimatec Capto(TM) C 4                   |
|                                                                                     | Gear ratio [i]:                                 | 1:1                                      |
|                                                                                     | Torque max [Nm]:                                | 80                                       |
|                                                                                     | Rotation max [1/min]:                           | 6000                                     |
|                                                                                     | Rotating direction:                             | opposite                                 |
|                                                                                     | Coolant:                                        | IC/Ext                                   |
|                                                                                     | Pressure max [bar]:                             | 140                                      |

Mori Seiki  
NT 4200 - BMT 60

| Part-#                                                                             | Name                                                   |                                            |
|------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|
|                                                                                    | Please note:                                           | Check applicability; tool length beachten! |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 66 201</b>                                                                | <b>Radial drilling and milling head ER 32 AX UT</b>    |                                            |
|   | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | 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                                        |
|                                                                                    | Pressure max [bar]:                                    | 140                                        |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 66 208</b>                                                                | <b>Radial drilling and milling head ER 32 AX UT IC</b> |                                            |
|  | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | 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]:                                  | 90                                         |
| <b>8 030 67 081</b>                                                                | <b>Radial drilling and milling head HT 5</b>           |                                            |
|                                                                                    | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | HT 5                                       |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 10000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | EXT                                        |
|                                                                                    | Please note:                                           | stronger bearing                           |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 67 082</b>                                                                | <b>Radial drilling and milling head HT 5 IC</b>        |                                            |
|                                                                                    | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | HT 5                                       |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 10000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | IC/Ext                                     |
|                                                                                    | Pressure max [bar]:                                    | 140                                        |



Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Please note: stronger bearing<br>Center distance [mm]: 90                                                                                                                                                                                                                                                                                                                               |
| <b>8 030 67 136</b> | <b>Radial drilling and milling head ER 40 AX UT IC</b>                                                                                                                                                                                                                                                                                                                                  |
|                     | Weight [kg]: 13.280<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: ER 40 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 90 |
| <b>8 030 67 139</b> | <b>Radial drilling and milling head ER 40 AX UT</b>                                                                                                                                                                                                                                                                                                                                     |
|                     | Weight [kg]: 13.120<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: ER 40 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000<br>Rotating direction: opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 90                               |
| <b>8 030 68 041</b> | <b>Radial drilling and milling head HT 6</b>                                                                                                                                                                                                                                                                                                                                            |
|                     | Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: HT 6<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000<br>Rotating direction: opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 90                                                                 |
| <b>8 030 68 042</b> | <b>Radial drilling and milling head HT 6 IC</b>                                                                                                                                                                                                                                                                                                                                         |
|                     | Weight [kg]: 13.260<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: HT 6<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000                                                                                                                                                       |

Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                          |                                              |
|---------------------|-----------------------------------------------|----------------------------------------------|
|                     | Rotating direction:                           | opposite                                     |
|                     | Coolant:                                      | IC/Ext                                       |
|                     | Pressure max [bar]:                           | 140                                          |
|                     | Please note:                                  | stronger bearing                             |
|                     | Center distance [mm]:                         | 90                                           |
| <b>8 031 65 012</b> | <b>Radial milling head universal arbor 22</b> |                                              |
|                     | Weight [kg]:                                  | 13.100                                       |
|                     | Notation:                                     | 180° reversible                              |
|                     | Tool drive:                                   | Flat (~DIN 1809)                             |
|                     | Shank size [mm]:                              | 60.00                                        |
|                     | Shank type:                                   | BMT                                          |
|                     | Tool adaption:                                | Universal arbor 22                           |
|                     | Gear ratio [i]:                               | 1:1                                          |
|                     | Torque max [Nm]:                              | 50                                           |
|                     | Rotation max [1/min]:                         | 10000                                        |
|                     | Rotating direction:                           | opposite                                     |
|                     | Coolant:                                      | EXT                                          |
|                     | Please note:                                  | stronger bearing                             |
|                     | Center distance [mm]:                         | 90                                           |
| <b>8 031 66 004</b> | <b>Radial milling head universal arbor 27</b> |                                              |
|                     | Weight [kg]:                                  | 13.210                                       |
|                     | Notation:                                     | 180° reversible                              |
|                     | Tool drive:                                   | Flat (~DIN 1809)                             |
|                     | Shank size [mm]:                              | 60.00                                        |
|                     | Shank type:                                   | BMT                                          |
|                     | Tool adaption:                                | Universal arbor 27                           |
|                     | Gear ratio [i]:                               | 1:1                                          |
|                     | Torque max [Nm]:                              | 50                                           |
|                     | Rotation max [1/min]:                         | 10000                                        |
|                     | Rotating direction:                           | opposite                                     |
|                     | Coolant:                                      | EXT                                          |
|                     | Please note:                                  | stronger bearing                             |
|                     | Center distance [mm]:                         | 90                                           |
| <b>8 037 64 019</b> | <b>Radial disk mill head arbor 3/4"</b>       |                                              |
|                     | Weight [kg]:                                  | 13.440                                       |
|                     | Version:                                      | ± 45° turnable; at 0° position can be pinned |
|                     | Tool drive:                                   | Flat (~DIN 1809)                             |
|                     | Shank size [mm]:                              | 60.00                                        |
|                     | Shank type:                                   | BMT                                          |
|                     | Tool adaption:                                | Arbor 3/4" (19,05mm)                         |
|                     | Gear ratio [i]:                               | 2:1                                          |
|                     | Torque max [Nm]:                              | 63                                           |
|                     | Rotation max [1/min]:                         | 3000                                         |
|                     | Rotating direction:                           | same                                         |
|                     | Coolant:                                      | EXT                                          |
|                     | Please note:                                  | strong version; stronger bearing             |
|                     | Center distance [mm]:                         | 100                                          |
| <b>8 037 65 023</b> | <b>Radial disk mill head arbor 22</b>         |                                              |
|                     | Weight [kg]:                                  | 13.570                                       |
|                     | Version:                                      | ± 45° turnable; at 0° position can be pinned |
|                     | Tool drive:                                   | Flat (~DIN 1809)                             |
|                     | Shank size [mm]:                              | 60.00                                        |
|                     | Shank type:                                   | BMT                                          |
|                     | Tool adaption:                                | Arbor 22                                     |

| Part-#              | Name                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Gear ratio [i]: 2:1<br>Torque max [Nm]: 63<br>Rotation max [1/min]: 3000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: strong version; stronger bearing<br>Center distance [mm]: 100                                                                                                                                                                                                    |
| <b>8 037 66 007</b> | <b>Radial disk mill head arbor 1 1/4"</b>                                                                                                                                                                                                                                                                                                                                                             |
|                     | Weight [kg]: 13.930<br>Version: Special<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: Arbor 1 1/4" (31,75mm)<br>Gear ratio [i]: 2:1<br>Torque max [Nm]: 63<br>Rotation max [1/min]: 3000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: strong version; stronger bearing<br>Center distance [mm]: 100                                   |
| <b>8 039 66 010</b> | <b>Radial drilling and milling head ER 32</b>                                                                                                                                                                                                                                                                                                                                                         |
|                     | Weight [kg]: 13.290<br>Version: double spindle<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: ER 32<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000<br>Rotating direction: same/opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 90                                                    |
| <b>8 039 66 038</b> | <b>Radial drilling and milling head ER 32 AX UT</b>                                                                                                                                                                                                                                                                                                                                                   |
|                     | Weight [kg]: 12.570<br>Employment for: Main- and sub spindle<br>Version: double spindle<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 60.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 10000<br>Rotating direction: same/opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 90 |

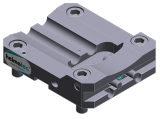
| Part-#              | Name                                                |
|---------------------|-----------------------------------------------------|
| <b>8 039 67 000</b> | <b>Radial drilling and milling head ER 40</b>       |
|                     | Weight [kg]: 13.410                                 |
|                     | Employment for: Main- and sub spindle               |
|                     | Version: double spindle                             |
|                     | Tool drive: Flat (~DIN 1809)                        |
|                     | Shank size [mm]: 60.00                              |
|                     | Shank type: BMT                                     |
|                     | Tool adaption: ER 40                                |
|                     | Gear ratio [i]: 1:1                                 |
|                     | Torque max [Nm]: 50                                 |
|                     | Rotation max [1/min]: 10000                         |
|                     | Rotating direction: same/opposite                   |
|                     | Coolant: EXT                                        |
|                     | Please note: stronger bearing                       |
|                     | Center distance [mm]: 90                            |
| <b>8 039 67 007</b> | <b>Radial drilling and milling head HT 5</b>        |
|                     | Employment for: Main- and sub spindle               |
|                     | Version: double spindle                             |
|                     | Tool drive: Flat (~DIN 1809)                        |
|                     | Shank size [mm]: 60.00                              |
|                     | Shank type: BMT                                     |
|                     | Tool adaption: HT 5                                 |
|                     | Gear ratio [i]: 1:1                                 |
|                     | Torque max [Nm]: 50                                 |
|                     | Rotation max [1/min]: 10000                         |
|                     | Rotating direction: same/opposite                   |
|                     | Coolant: EXT                                        |
|                     | Please note: stronger bearing                       |
|                     | Center distance [mm]: 90                            |
| <b>8 039 67 015</b> | <b>Radial drilling and milling head ER 40 AX UT</b> |
|                     | Weight [kg]: 13.000                                 |
|                     | Employment for: Main- and sub spindle               |
|                     | Version: double spindle                             |
|                     | Tool drive: Flat (~DIN 1809)                        |
|                     | Shank size [mm]: 60.00                              |
|                     | Shank type: BMT                                     |
|                     | Tool adaption: ER 40 A - u-tec                      |
|                     | Gear ratio [i]: 1:1                                 |
|                     | Torque max [Nm]: 50                                 |
|                     | Rotation max [1/min]: 10000                         |
|                     | Rotating direction: same/opposite                   |
|                     | Coolant: EXT                                        |
|                     | Please note: stronger bearing                       |
|                     | Center distance [mm]: 90                            |
| <b>8 039 68 008</b> | <b>Radial drilling and milling head HT 6</b>        |
|                     | Employment for: Main- and sub spindle               |
|                     | Version: double spindle                             |
|                     | Tool drive: Flat (~DIN 1809)                        |
|                     | Shank size [mm]: 60.00                              |
|                     | Shank type: BMT                                     |
|                     | Tool adaption: HT 6                                 |
|                     | Gear ratio [i]: 1:1                                 |
|                     | Torque max [Nm]: 50                                 |
|                     | Rotation max [1/min]: 10000                         |
|                     | Rotating direction: same/opposite                   |

Mori Seiki  
NT 4200 - BMT 60

| Part-#                                                                              | Name                                                            |                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------|
|                                                                                     | Coolant:                                                        | EXT                                   |
|                                                                                     | Please note:                                                    | stronger bearing                      |
|                                                                                     | Center distance [mm]:                                           | 90                                    |
| <b>8 040 64 011</b>                                                                 | <b>Universal head ± 90° adjustable ER 16 AX UT</b>              |                                       |
|                                                                                     | Weight [kg]:                                                    | 5.750                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 16 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:2                                   |
|                                                                                     | Torque max [Nm]:                                                | 12                                    |
|                                                                                     | Rotation max [1/min]:                                           | 12000                                 |
|                                                                                     | Rotating direction:                                             | opposite                              |
|                                                                                     | Coolant:                                                        | EXT                                   |
|                                                                                     | Please note:                                                    | Note swivel range !                   |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
|   | <b>8 040 65 004 Universal head ± 90° adjustable ER 25 AX UT</b> |                                       |
|                                                                                     | Weight [kg]:                                                    | 6.000                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | 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:                                                    | Note swivel range !; stronger bearing |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
| <b>8 040 65 008</b>                                                                 | <b>Universal head ± 90° adjustable ER 25 AX UT IC</b>           |                                       |
|                                                                                     | Weight [kg]:                                                    | 5.990                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | 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]:                                             | 140                                   |
|                                                                                     | Please note:                                                    | Note swivel range !                   |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
|  | <b>8 040 65 019 Universal head ± 90° adjustable ER 25 AX UT</b> |                                       |
|                                                                                     | Weight [kg]:                                                    | 6.000                                 |
|                                                                                     | Version:                                                        | at 45° position can be pinned         |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 25 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:1                                   |
|                                                                                     | Torque max [Nm]:                                                | 25                                    |
|                                                                                     | Rotation max [1/min]:                                           | 10000                                 |

| Part-#                                                                              | Name                                             |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------|
|                                                                                     | Rotating direction:                              | opposite                             |
|                                                                                     | Coolant:                                         | EXT                                  |
|                                                                                     | Please note:                                     | Note swivel range!; stronger bearing |
|                                                                                     | Center distance [mm]:                            | 81                                   |
| <b>8 050 65 000</b>                                                                 | <b>Multispindle drilling head ER 25 AX UT</b>    |                                      |
|    | Weight [kg]:                                     | 8.260                                |
|                                                                                     | Version:                                         | 2-spindles                           |
|                                                                                     | Tool drive:                                      | Flat (~DIN 1809)                     |
|                                                                                     | Shank size [mm]:                                 | 60.00                                |
|                                                                                     | Shank type:                                      | BMT                                  |
|                                                                                     | Tool adaption:                                   | ER 25 A - u-tec                      |
|                                                                                     | Gear ratio [i]:                                  | 1:1                                  |
|                                                                                     | Torque max [Nm]:                                 | 32/Sp.                               |
|                                                                                     | Rotation max [1/min]:                            | 6000                                 |
|                                                                                     | Rotating direction:                              | opposite                             |
|                                                                                     | Coolant:                                         | EXT                                  |
|                                                                                     | Please note:                                     | stronger bearing                     |
| <b>8 050 65 001</b>                                                                 | <b>Multispindle drilling head ER 25 AX UT IC</b> |                                      |
|                                                                                     | Weight [kg]:                                     | 8.240                                |
|                                                                                     | Version:                                         | 2-spindles                           |
|                                                                                     | Tool drive:                                      | Flat (~DIN 1809)                     |
|                                                                                     | Shank size [mm]:                                 | 60.00                                |
|                                                                                     | Shank type:                                      | BMT                                  |
|                                                                                     | Tool adaption:                                   | ER 25 A - u-tec                      |
|                                                                                     | Gear ratio [i]:                                  | 1:1                                  |
|                                                                                     | Torque max [Nm]:                                 | 32/Sp.                               |
|                                                                                     | Rotation max [1/min]:                            | 6000                                 |
|                                                                                     | Rotating direction:                              | opposite                             |
|                                                                                     | Coolant:                                         | IC/Ext                               |
|                                                                                     | Pressure max [bar]:                              | 25                                   |
|                                                                                     | Please note:                                     | stronger bearing                     |
| <b>8 050 65 022</b>                                                                 | <b>Multispindle drilling head ER 25 AX UT IC</b> |                                      |
|  | Weight [kg]:                                     | 8.790                                |
|                                                                                     | Version:                                         | 2-spindles                           |
|                                                                                     | Tool drive:                                      | Flat (~DIN 1809)                     |
|                                                                                     | Shank size [mm]:                                 | 60.00                                |
|                                                                                     | Shank type:                                      | BMT                                  |
|                                                                                     | Tool adaption:                                   | ER 25 A - u-tec                      |
|                                                                                     | Gear ratio [i]:                                  | 1:1                                  |
|                                                                                     | Torque max [Nm]:                                 | 32/Sp.                               |
|                                                                                     | Rotation max [1/min]:                            | 10000                                |
|                                                                                     | Rotating direction:                              | opposite                             |
|                                                                                     | Coolant:                                         | IC/Ext                               |
|                                                                                     | Pressure max [bar]:                              | 140                                  |
|                                                                                     | Please note:                                     | stronger bearing                     |
|                                                                                     | Offset [mm]:                                     | +35/ -35                             |
| <b>8 053 65 014</b>                                                                 | <b>Multispindle radial head ER 25 AX UTIK</b>    |                                      |
|  | Weight [kg]:                                     | 14.270                               |
|                                                                                     | Notation:                                        | 180° reversible                      |
|                                                                                     | Version:                                         | 2-spindles                           |
|                                                                                     | Tool drive:                                      | Flat (~DIN 1809)                     |
|                                                                                     | Shank size [mm]:                                 | 60.00                                |
|                                                                                     | Shank type:                                      | BMT                                  |

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NT 4200 - BMT 60

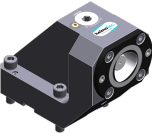
| Part-#                                                                            | Name                                        |                         |
|-----------------------------------------------------------------------------------|---------------------------------------------|-------------------------|
|                                                                                   | Tool adaption:                              | ER 25 A - u-tec         |
|                                                                                   | Gear ratio [i]:                             | 1:1                     |
|                                                                                   | Torque max [Nm]:                            | 32/Sp                   |
|                                                                                   | Rotation max [1/min]:                       | 10000                   |
|                                                                                   | Rotating direction:                         | same                    |
|                                                                                   | Coolant:                                    | IC/Ext                  |
|                                                                                   | Pressure max [bar]:                         | 140                     |
|                                                                                   | Center distance [mm]:                       | 90                      |
|                                                                                   | Offset [mm]:                                | ±35                     |
| <b>8 200 64 001</b>                                                               | <b>Cover plate</b>                          |                         |
|                                                                                   | Weight [kg]:                                | 2.610                   |
|                                                                                   | Shank type:                                 | BMT                     |
| <b>8 202 10 010</b>                                                               | <b>Basic holder longitudinal seat FN 12</b> |                         |
|  | Weight [kg]:                                | 2.370                   |
|                                                                                   | Notation:                                   | 180° reversible         |
|                                                                                   | Shank type:                                 | BMT                     |
|                                                                                   | Machine adaption:                           | Centering key slot b 20 |
|                                                                                   | Tool adaption:                              | Interface FN 12         |
|                                                                                   | Coolant:                                    | EXT                     |
| <b>8 224 12 007</b>                                                               | <b>Cut-off holder sq. 25</b>                |                         |
|                                                                                   | Weight [kg]:                                | 3.500                   |
|                                                                                   | Shank type:                                 | BMT                     |
|                                                                                   | Machine adaption:                           | Centering key slot b 20 |
|                                                                                   | Tool adaption:                              | Sq. 25                  |
|                                                                                   | Coolant:                                    | EXT                     |
| <b>8 224 12 017</b>                                                               | <b>Cut-off holder sq. 1"</b>                |                         |
|                                                                                   | Weight [kg]:                                | 4.050                   |
|                                                                                   | Shank type:                                 | BMT                     |
|                                                                                   | Machine adaption:                           | Centering key slot b 20 |
|                                                                                   | Tool adaption:                              | Sq. 1" (25,4mm)         |
|                                                                                   | Coolant:                                    | EXT                     |
| <b>8 224 14 002</b>                                                               | <b>Universal turning holder sq. 20</b>      |                         |
|                                                                                   | Weight [kg]:                                | 4.910                   |
|                                                                                   | Shank type:                                 | BMT                     |
|                                                                                   | Machine adaption:                           | Centering key slot b 20 |
|                                                                                   | Tool adaption:                              | Sq. 20                  |
|                                                                                   |                                             | Sq. 20                  |
|                                                                                   | Coolant:                                    | EXT                     |
|                                                                                   | Pressure max [bar]:                         | 80                      |
| <b>8 224 15 003</b>                                                               | <b>Universal turning holder sq. 25</b>      |                         |
|                                                                                   | Weight [kg]:                                | 5.460                   |
|                                                                                   | Shank type:                                 | BMT                     |
|                                                                                   | Machine adaption:                           | Centering key slot b 20 |
|                                                                                   | Tool adaption:                              | Sq. 25                  |
|                                                                                   |                                             | Sq. 25                  |
|                                                                                   | Coolant:                                    | EXT                     |
|                                                                                   | Pressure max [bar]:                         | 80                      |

Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                   |                               |
|---------------------|----------------------------------------|-------------------------------|
| <b>8 224 15 014</b> | <b>Universal turning holder sq. 1"</b> |                               |
|                     | Weight [kg]:                           | 5.560                         |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | Sq. 1" (25,4mm)               |
|                     |                                        | Sq. 1" (25,4mm)               |
|                     | Coolant:                               | EXT                           |
| <b>8 240 14 003</b> | <b>Insert drill holder 12 IC</b>       |                               |
|                     | Weight [kg]:                           | 8.870                         |
|                     | Notation:                              | 180° reversible               |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | Whistle-Notch (DIN 1835 E) 12 |
|                     | Coolant:                               | IC                            |
|                     | Center distance [mm]:                  | 80                            |
| <b>8 240 15 014</b> | <b>Insert drill holder 16 IC</b>       |                               |
|                     | Weight [kg]:                           | 8.820                         |
|                     | Notation:                              | 180° reversible               |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | Whistle-Notch (DIN 1835 E) 16 |
|                     | Coolant:                               | IC                            |
|                     | Center distance [mm]:                  | 80                            |
| <b>8 240 16 039</b> | <b>Collet chuck holder ER 32</b>       |                               |
|                     | Weight [kg]:                           | 7.570                         |
|                     | Notation:                              | 180° reversible               |
|                     | Shank size [mm]:                       | 59.70                         |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | ER 32                         |
|                     | Coolant:                               | IC/Ext                        |
|                     | Pressure max [bar]:                    | 80                            |
|                     | Please note:                           | Insert reversible             |
|                     | Center distance [mm]:                  | 80                            |
| <b>8 240 16 057</b> | <b>Tool holder ABS 63</b>              |                               |
|                     | Weight [kg]:                           | 8.050                         |
|                     | Notation:                              | 180° reversible               |
|                     | Shank size [mm]:                       | 59.70                         |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | ABS 63                        |
|                     | Coolant:                               | IC/Ext                        |
|                     | Please note:                           | Insert reversible             |
|                     | Center distance [mm]:                  | 80                            |
| <b>8 240 17 022</b> | <b>Collet chuck holder ER 40</b>       |                               |
|                     | Weight [kg]:                           | 7.720                         |
|                     | Notation:                              | 180° reversible               |
|                     | Shank size [mm]:                       | 59.70                         |
|                     | Shank type:                            | BMT                           |
|                     | Machine adaption:                      | Centering key slot b 20       |
|                     | Tool adaption:                         | ER 40                         |
|                     | Coolant:                               | IC/Ext                        |
|                     | Pressure max [bar]:                    | 80                            |

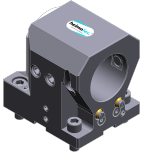


Mori Seiki  
NT 4200 - BMT 60

| Part-#                                                                              | Name                              |                                        |
|-------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
|                                                                                     | Please note:                      | Insert reversible                      |
|                                                                                     | Center distance [mm]:             | 80                                     |
| <b>8 240 17 112</b>                                                                 | <b>Boring bar holder Ø 1 1/4"</b> |                                        |
|    | Weight [kg]:                      | 9.010                                  |
|                                                                                     | Notation:                         | 180° reversible                        |
|                                                                                     | Shank size [mm]:                  | 59.70                                  |
|                                                                                     | Shank type:                       | BMT                                    |
|                                                                                     | Machine adaption:                 | Centering key slot b 20                |
|                                                                                     | Tool adaption:                    | Ø 1 1/4" (31,75mm)                     |
|                                                                                     | Coolant:                          | IC/Ext                                 |
|                                                                                     | Center distance [mm]:             | 80                                     |
| <b>8 240 18 019</b>                                                                 | <b>Tool holder HT 6</b>           |                                        |
|                                                                                     | Weight [kg]:                      | 7.900                                  |
|                                                                                     | Notation:                         | 180° reversible                        |
|                                                                                     | Shank type:                       | BMT                                    |
|                                                                                     | Machine adaption:                 | Centering key slot b 20                |
|                                                                                     | Tool adaption:                    | HT 6                                   |
|                                                                                     | Coolant:                          | IC/Ext                                 |
|                                                                                     | Please note:                      | Insert reversible                      |
|                                                                                     | Center distance [mm]:             | 80                                     |
| <b>8 240 18 034</b>                                                                 | <b>Tool holder C 6 IC</b>         |                                        |
|  | Weight [kg]:                      | 13.920                                 |
|                                                                                     | Shank type:                       | BMT                                    |
|                                                                                     | Machine adaption:                 | Centering key slot b 20                |
|                                                                                     | Tool adaption:                    | heimatec Capto(TM) C 6                 |
|                                                                                     | Coolant:                          | IC                                     |
|                                                                                     | Please note:                      | Check applicability; note tool length! |
|                                                                                     | Center distance [mm]:             | 110                                    |
| <b>8 240 18 075</b>                                                                 | <b>Insert drill holder 32 IC</b>  |                                        |
|                                                                                     | Weight [kg]:                      | 9.620                                  |
|                                                                                     | Notation:                         | 180° reversible                        |
|                                                                                     | Shank size [mm]:                  | 60.00                                  |
|                                                                                     | Shank type:                       | BMT                                    |
|                                                                                     | Machine adaption:                 | Centering key slot b 20                |
|                                                                                     | Tool adaption:                    | Ø 32                                   |
|                                                                                     | Coolant:                          | IC                                     |
|                                                                                     | Center distance [mm]:             | 80                                     |
| <b>8 240 19 016</b>                                                                 | <b>Boring bar holder Ø 50</b>     |                                        |
|                                                                                     | Weight [kg]:                      | 8.170                                  |
|                                                                                     | Notation:                         | 180° reversible                        |
|                                                                                     | Shank type:                       | BMT                                    |
|                                                                                     | Machine adaption:                 | Centering key slot b 20                |
|                                                                                     | Tool adaption:                    | Ø 50                                   |
|                                                                                     | Coolant:                          | IC/Ext                                 |
|                                                                                     | Pressure max [bar]:               | 80                                     |
|                                                                                     | Center distance [mm]:             | 80                                     |

Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                                     |
|---------------------|----------------------------------------------------------|
| <b>8 240 19 018</b> | <b>Boring bar holder Ø 50</b>                            |
|                     | Weight [kg]: 12.160                                      |
|                     | Employment for: Heavy duty cutting                       |
|                     | Version: long                                            |
|                     | Shank type: BMT                                          |
|                     | Machine adaption: Centering key slot b 20                |
|                     | Tool adaption: Ø 50                                      |
|                     | Coolant: IC/Ext                                          |
|                     | Please note: optimum assembly with 8 788 99 000 possible |
|                     | Center distance [mm]: 80                                 |
| <b>8 240 19 033</b> | <b>Boring bar holder Ø 40</b>                            |
|                     | Weight [kg]: 11.210                                      |
|                     | Notation: 180° reversible                                |
|                     | Version: long                                            |
|                     | Shank type: BMT                                          |
|                     | Machine adaption: Centering key slot b 20                |
|                     | Tool adaption: Ø 40                                      |
|                     | Coolant: IC/Ext                                          |
|                     | Pressure max [bar]: 80                                   |
|                     | Center distance [mm]: 120                                |
| <b>8 240 19 035</b> | <b>Boring bar holder Ø 1 1/2"</b>                        |
|                     | Weight [kg]: 8.780                                       |
|                     | Notation: 180° reversible                                |
|                     | Shank size [mm]: 59.70                                   |
|                     | Shank type: BMT                                          |
|                     | Machine adaption: Centering key slot b 20                |
|                     | Tool adaption: Ø 1 1/2" (38,1mm)                         |
|                     | Coolant: IC/Ext                                          |
|                     | Center distance [mm]: 80                                 |
| <b>8 240 19 041</b> | <b>Insert drill holder 40 IC</b>                         |
|                     | Weight [kg]: 9.270                                       |
|                     | Notation: 180° reversible                                |
|                     | Shank type: BMT                                          |
|                     | Machine adaption: Centering key slot b 20                |
|                     | Tool adaption: Ø 40                                      |
|                     | Coolant: IC                                              |
|                     | Center distance [mm]: 80                                 |
| <b>8 240 19 050</b> | <b>Boring bar holder Ø 2"</b>                            |
|                     | Weight [kg]: 8.120                                       |
|                     | Notation: 180° reversible                                |
|                     | Shank size [mm]: 59.70                                   |
|                     | Shank type: BMT                                          |
|                     | Machine adaption: Centering key slot b 20                |
|                     | Tool adaption: Ø 2" (50,8mm)                             |
|                     | Coolant: IC/Ext                                          |
|                     | Center distance [mm]: 80                                 |

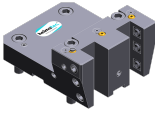
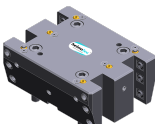
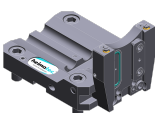
| Part-#                                                                             | Name                              |                         |
|------------------------------------------------------------------------------------|-----------------------------------|-------------------------|
| <b>8 240 19 082</b>                                                                | <b>Boring bar holder Ø 1 1/2"</b> |                         |
|   | Weight [kg]:                      | 11.500                  |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Ø 1 1/2" (38,1mm)       |
|                                                                                    | Coolant:                          | IC/Ext                  |
|                                                                                    | Center distance [mm]:             | 120                     |
| <b>8 240 19 083</b>                                                                | <b>Boring bar holder Ø 2"</b>     |                         |
|                                                                                    | Weight [kg]:                      | 10.940                  |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Ø 2" (50,8mm)           |
|                                                                                    | Coolant:                          | IC/Ext                  |
|                                                                                    | Center distance [mm]:             | 120                     |
| <b>8 240 19 084</b>                                                                | <b>Boring bar holder Ø 2 1/2"</b> |                         |
|  | Weight [kg]:                      | 8.580                   |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Ø 2 1/2" (63,5mm)       |
|                                                                                    | Coolant:                          | IC/Ext                  |
|                                                                                    | Center distance [mm]:             | 80                      |
| <b>8 240 19 107</b>                                                                | <b>Boring bar holder Ø 40</b>     |                         |
|                                                                                    | Weight [kg]:                      | 10.200                  |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Ø 40                    |
|                                                                                    | Coolant:                          | IC/Ext                  |
|                                                                                    | Center distance [mm]:             | 100                     |
| <b>8 244 15 001</b>                                                                | <b>Combi facing holder sq. 25</b> |                         |
|                                                                                    | Weight [kg]:                      | 9.600                   |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Sq. 25                  |
|                                                                                    |                                   | Sq. 25                  |
|                                                                                    | Coolant:                          | EXT                     |
|                                                                                    | Pressure max [bar]:               | 80                      |
|                                                                                    | Center distance [mm]:             | 75                      |
| <b>8 244 15 004</b>                                                                | <b>Combi facing holder sq. 1"</b> |                         |
|                                                                                    | Weight [kg]:                      | 9.610                   |
|                                                                                    | Notation:                         | 180° reversible         |
|                                                                                    | Shank type:                       | BMT                     |
|                                                                                    | Machine adaption:                 | Centering key slot b 20 |
|                                                                                    | Tool adaption:                    | Sq. 1" (25,4mm)         |
|                                                                                    |                                   | Sq. 1" (25,4mm)         |
|                                                                                    | Coolant:                          | EXT                     |
|                                                                                    | Center distance [mm]:             | 75                      |

Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                                |
|---------------------|-----------------------------------------------------|
| <b>8 249 16 004</b> | <b>Double collet chuck holder ER 32</b>             |
|                     | Weight [kg]: 8.040                                  |
|                     | Notation: 180° reversible                           |
|                     | Employment for: Main- and sub spindle               |
|                     | Shank type: BMT                                     |
|                     | Machine adaption: Centering key slot b 20           |
|                     | Tool adaption: ER 32                                |
|                     | Coolant: IC/Ext                                     |
|                     | Pressure max [bar]: 80                              |
|                     | Center distance [mm]: 80                            |
| <b>8 249 16 006</b> | <b>Double tool holder C 4 IC</b>                    |
|                     | Weight [kg]: 7.570                                  |
|                     | Notation: 180° reversible                           |
|                     | Employment for: Main- and sub spindle               |
|                     | Version: right                                      |
|                     | Shank type: BMT                                     |
|                     | Machine adaption: Centering key slot b 20           |
|                     | Tool adaption: heimatec Capto(TM) C 4               |
|                     | heimatec Capto(TM) C 4                              |
|                     | Coolant: IC                                         |
|                     | Please note: Check applicability; note tool length! |
|                     | Center distance [mm]: 90                            |
| <b>8 249 16 010</b> | <b>Double collet chuck holder ER 32</b>             |
|                     | Weight [kg]: 11.370                                 |
|                     | Notation: 180° reversible                           |
|                     | Employment for: Main- and sub spindle               |
|                     | Shank type: BMT                                     |
|                     | Machine adaption: Centering key slot b 20           |
|                     | Tool adaption: ER 32                                |
|                     | Coolant: IC/Ext                                     |
|                     | Pressure max [bar]: 80                              |
|                     | Center distance [mm]: 120                           |
| <b>8 249 17 002</b> | <b>Double collet chuck holder ER 40</b>             |
|                     | Weight [kg]: 8.330                                  |
|                     | Notation: 180° reversible                           |
|                     | Employment for: Main- and sub spindle               |
|                     | Shank size [mm]: 59.70                              |
|                     | Shank type: BMT                                     |
|                     | Machine adaption: Centering key slot b 20           |
|                     | Tool adaption: ER 40                                |
|                     | Coolant: IC/Ext                                     |
|                     | Pressure max [bar]: 80                              |
|                     | Center distance [mm]: 80                            |
| <b>8 249 18 000</b> | <b>Double tool holder HT 6</b>                      |
|                     | Notation: 180° reversible                           |
|                     | Employment for: Main- and sub spindle               |
|                     | Shank type: BMT                                     |
|                     | Machine adaption: Centering key slot b 20           |
|                     | Tool adaption: HT 6                                 |
|                     | Coolant: EXT                                        |
|                     | Center distance [mm]: 80                            |

Mori Seiki  
NT 4200 - BMT 60

| Part-#              | Name                                      |                         |
|---------------------|-------------------------------------------|-------------------------|
| <b>8 251 14 007</b> | <b>Combi double turning holder sq. 20</b> |                         |
|                     | Weight [kg]:                              | 7.800                   |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key slot b 20 |
|                     | Tool adaption:                            | Sq. 20                  |
|                     | Coolant:                                  | EXT                     |
| <b>8 251 15 001</b> | <b>Combi double turning holder sq. 25</b> |                         |
|                     | Weight [kg]:                              | 8.280                   |
|                     | Version:                                  | short                   |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key slot b 20 |
|                     | Tool adaption:                            | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     | Coolant:                                  | EXT                     |
|                     | Pressure max [bar]:                       | 80                      |
| <b>8 251 15 002</b> | <b>Combi double turning holder sq. 25</b> |                         |
|                     | Weight [kg]:                              | 10.020                  |
|                     | Version:                                  | extended                |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key slot b 20 |
|                     | Tool adaption:                            | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     |                                           | Sq. 25                  |
|                     | Coolant:                                  | EXT                     |
|                     | Pressure max [bar]:                       | 80                      |
| <b>8 251 15 009</b> | <b>Combi double turning holder sq. 1"</b> |                         |
|                     | Weight [kg]:                              | 8.290                   |
|                     | Version:                                  | short                   |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key slot b 20 |
|                     | Tool adaption:                            | Sq. 1" (25,4mm)         |
|                     | Coolant:                                  | EXT                     |
| <b>8 251 15 010</b> | <b>Combi double turning holder sq. 1"</b> |                         |
|                     | Weight [kg]:                              | 10.030                  |
|                     | Version:                                  | long                    |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key slot b 20 |
|                     | Tool adaption:                            | Sq. 1" (25,4mm)         |
|                     | Coolant:                                  | EXT                     |
| <b>8 253 18 001</b> | <b>Double boring bar holder Ø 32</b>      |                         |
|                     | Weight [kg]:                              | 11.900                  |
|                     | Employment for:                           | Main- and sub spindle   |
|                     | Shank type:                               | BMT                     |
|                     | Machine adaption:                         | Centering key b 20      |
|                     | Tool adaption:                            | Ø 32                    |
|                     | Coolant:                                  | IC/Ext                  |
|                     | Pressure max [bar]:                       | 80                      |
|                     | Center distance [mm]:                     | 80/125                  |

| Part-#                                                                              | Name                                              |                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|
| <b>8 253 18 007</b>                                                                 | <b>Double boring bar holder Ø 1 1/4"</b>          |                         |
|                                                                                     | Weight [kg]:                                      | 12.440                  |
|                                                                                     | Employment for:                                   | Main- and sub spindle   |
|                                                                                     | Shank size [mm]:                                  | 59.70                   |
|                                                                                     | Shank type:                                       | BMT                     |
|                                                                                     | Machine adaption:                                 | Centering key b 20      |
|                                                                                     | Tool adaption:                                    | Ø 1 1/4" (31,75mm)      |
|                                                                                     | Coolant:                                          | IC/Ext                  |
|                                                                                     | Center distance [mm]:                             | 80/125                  |
| <b>8 253 18 010</b>                                                                 | <b>Double boring bar holder Ø 1 1/2"</b>          |                         |
|    | Weight [kg]:                                      | 11.260                  |
|                                                                                     | Employment for:                                   | Main- and sub spindle   |
|                                                                                     | Shank size [mm]:                                  | 59.70                   |
|                                                                                     | Shank type:                                       | BMT                     |
|                                                                                     | Machine adaption:                                 | Centering key b 20      |
|                                                                                     | Tool adaption:                                    | Ø 1 1/2" (38,1mm)       |
|                                                                                     | Coolant:                                          | IC/Ext                  |
|                                                                                     | Center distance [mm]:                             | 65/120                  |
| <b>8 259 12 001</b>                                                                 | <b>Multiple turning holder sq. 25 / 1"</b>        |                         |
|  | Weight [kg]:                                      | 6.470                   |
|                                                                                     | Notation:                                         | 180° reversible         |
|                                                                                     | Version:                                          | Y-axes offset           |
|                                                                                     | Shank type:                                       | BMT                     |
|                                                                                     | Machine adaption:                                 | Centering key slot b 20 |
|                                                                                     | Tool adaption:                                    | Sq. 25                  |
|                                                                                     | Coolant:                                          | EXT                     |
| <b>8 259 12 002</b>                                                                 | <b>Multiple turning holder sq. 25 / 1"</b>        |                         |
|  | Weight [kg]:                                      | 11.830                  |
|                                                                                     | Employment for:                                   | Main- and sub spindle   |
|                                                                                     | Version:                                          | Y-axes offset           |
|                                                                                     | Shank type:                                       | BMT                     |
|                                                                                     | Machine adaption:                                 | Centering key slot b 20 |
|                                                                                     | Tool adaption:                                    | Sq. 25/1" (25,4mm)      |
|                                                                                     |                                                   | Sq. 25/1" (25,4mm)      |
|                                                                                     |                                                   | Sq. 25/1" (25,4mm)      |
|                                                                                     |                                                   | Sq. 25/1" (25,4mm)      |
|                                                                                     | Coolant:                                          | EXT                     |
| <b>8 320 13 009</b>                                                                 | <b>Cut-off holder, height adjustable SH 32 IC</b> |                         |
|  | Weight [kg]:                                      | 2.990                   |
|                                                                                     | Notation:                                         | 180° reversible         |
|                                                                                     | Shank type:                                       | BMT                     |
|                                                                                     | Machine adaption:                                 | Centering key slot b 20 |
|                                                                                     | Tool adaption:                                    | Clampshaft SH 32        |
|                                                                                     | Coolant:                                          | IC/Ext                  |
|                                                                                     | Pressure max [bar]:                               | 70                      |

Mori Seiki  
NT 4200 - BMT 60

| Part-#       | Name                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 320 19 005 | <b>Cut-off holder, height adjustable 845 IC</b><br>Weight [kg]: 2.830<br>Notation: 180° reversible<br>Shank type: BMT<br>Machine adaption: Centering key slot b 20<br>Tool adaption:  System 845<br>Coolant: IC<br>Pressure max [bar]: 70 |



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○ global representations of heimatec

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