

DN Solutions

**Puma 2100 BMT**

**65 - 12**

**Stationen**



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

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

## \*OUR PRODCUTS

Static tool holders

Live tool units

Precision tools

Tools for turning and machining centres

Tools for swiss type lathes

Tool changing and uick-change systems


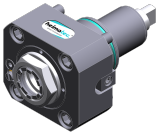
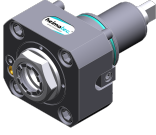
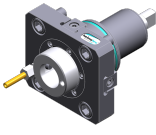
Tool systems for gear production

Digital tool management


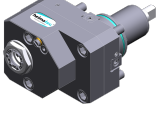
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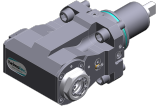
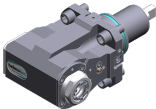


| Part-#  | Name  |                  |
|---|---|------------------|
| <b>8 010 66 132</b>   | <b>Axial drilling and milling head ER 32 AS UT</b>    |                  |
|    | Weight [kg]:  | 3.340            |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 32 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 50               |
|   | Rotation max [1/min]:                                 | 6000             |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | EXT              |
|   | Please note:  | short version    |
| <b>8 010 66 143</b>   | <b>Axial drilling and milling head ER 32 AX UT IC</b> |                  |
|    | Notation:   | 180° reversible  |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 32 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 70               |
|   | Rotation max [1/min]:                                 | 12000            |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | IC/Ext           |
|   | Pressure max [bar]:                                   | 100              |
|   | Please note:  | Dryrun possible  |
| <b>8 010 66 145</b>   | <b>Axial drilling and milling head ER 32 AX UT</b>    |                  |
|  | Notation:   | 180° reversible  |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 32 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 70               |
|   | Rotation max [1/min]:                                 | 12000            |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | EXT              |
|   | Pressure max [bar]:                                   | 140              |
| <b>8 010 67 025</b>   | <b>Axial drilling and milling head HT 5</b>           |                  |
|  | Weight [kg]:  | 3.065            |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | HT 5             |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 50               |
|   | Rotation max [1/min]:                                 | 6000             |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | EXT              |

| Part-#  | Name  |                  |
|---|---|------------------|
| <b>8 010 67 026</b>   | <b>Axial drilling and milling head HT 5 IC</b>        |                  |
|    | Weight [kg]:  | 3.210            |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | HT 5             |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 50               |
|   | Rotation max [1/min]:                                 | 6000             |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | IC/Ext           |
|   | Pressure max [bar]:                                   | 25               |
| <b>8 010 67 132</b>   | <b>Axial drilling and milling head ER 40 AX UT</b>    |                  |
|    | Weight [kg]:  | 4.870            |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 40 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:1              |
|   | Torque max [Nm]:                                      | 50               |
|   | Rotation max [1/min]:                                 | 5000             |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | EXT              |
|   | Please note:  | Combi bearing    |
| <b>8 013 64 008</b>   | <b>Axial drilling and milling head ER 16 AX UT</b>    |                  |
|  | Weight [kg]:  | 4.050            |
|   | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 16 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:4              |
|   | Torque max [Nm]:                                      | 5                |
|   | Rotation max [1/min]:                                 | 24000            |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | EXT              |
| <b>8 013 64 009</b>   | <b>Axial drilling and milling head ER 16 AX UT IC</b> |                  |
|  | Tool drive:   | Flat (~DIN 1809) |
|   | Shank size [mm]:                                      | 65.00            |
|   | Shank type:   | BMT              |
|   | Tool adaption:  | ER 16 A - u-tec  |
|   | Gear ratio [i]:                                       | 1:4              |
|   | Torque max [Nm]:                                      | 5                |
|   | Rotation max [1/min]:                                 | 24000            |
|   | Rotating direction:                                   | same             |
|   | Coolant:  | IC/Ext           |
|   | Pressure max [bar]:                                   | 100              |





| Part-#  | Name  |                         |
|---|---|-------------------------|
| <b>8 019 61 000</b>   | <b>Axial drilling and milling head CHC</b>            |                         |
|    | Weight [kg]:  | 10.690                  |
|   | Notation:   | 180° reversible, IC-300 |
|   | Version:  | no Splash-protection    |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | CHC                     |
|   | Gear ratio [i]:                                       | 1:0,75                  |
|   | Rotation max [1/min]:                                 | 4500                    |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | no                      |
|   | Center distance [mm]:                                 | 100                     |
|   | Offset [mm]:  | 174,9                   |
| <b>8 019 65 019</b>   | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|   | Weight [kg]:  | 7.790                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:1                     |
|   | Torque max [Nm]:                                      | 50                      |
|   | Rotation max [1/min]:                                 | 6000                    |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | IC/Ext                  |
|   | Pressure max [bar]:                                   | 140                     |
|   | Please note:  | stronger bearing        |
|   | Offset [mm]:  | 50                      |
| <b>8 019 65 025</b>   | <b>Axial drilling and milling head ER 25 AX UT</b>    |                         |
|  | Weight [kg]:  | 6.500                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:3                     |
|   | Torque max [Nm]:                                      | 12                      |
|   | Rotation max [1/min]:                                 | 15000                   |
|   | Rotating direction:                                   | opposite                |
|   | Coolant:  | EXT                     |
|   | Please note:  | stronger bearing        |
|   | Offset [mm]:  | 50                      |
| <b>8 019 65 027</b>   | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                         |
|  | Weight [kg]:  | 7.850                   |
|   | Notation:   | offset; 180° reversible |
|   | Tool drive:   | Flat (~DIN 1809)        |
|   | Shank size [mm]:                                      | 65.00                   |
|   | Shank type:   | BMT                     |
|   | Tool adaption:  | ER 25 A - u-tec         |
|   | Gear ratio [i]:                                       | 1:2                     |
|   | Torque max [Nm]:                                      | 40                      |
|   | Rotation max [1/min]:                                 | 12000                   |


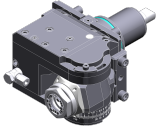

| Part-#  | Name   |  |
|---|--|--|
|   |  | Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Offset [mm]: 50 |
| <b>8 019 65 067</b>   | <b>Axial drilling and milling head ER 25 AX UT</b>   |  |
|    | Weight [kg]: 6.030<br>Notation: offset; 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 50<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Offset [mm]: 50                 |  |
| <b>8 019 66 014</b>   | <b>Axial drilling and milling head ER 32 AX UT IC</b>  |  |
|  | Weight [kg]: 10.740<br>Notation: offset;<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 100<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Offset [mm]: 75 |  |
| <b>8 030 65 061</b>   | <b>Radial drilling and milling head ER 25 AX UT</b>  |  |
|  | Weight [kg]: 7.970<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 16<br>Rotation max [1/min]: 12000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 100                  |  |

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| Part-#  | Name  |
|---|---|
| <b>8 030 65 078</b>   | <b>Radial drilling and milling head ER 25 AX UT IC</b>  |
|    | Weight [kg]: 8.140<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 16<br>Rotation max [1/min]: 12000<br>Rotating direction: same<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 100                           |
| <b>8 030 65 091</b>   | <b>Radial drilling and milling head ER 25 AX UT</b>   |
|   | Weight [kg]: 7.590<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 16<br>Rotation max [1/min]: 12000<br>Rotating direction: same<br>Coolant: no<br>Please note: stronger bearing<br>Center distance [mm]: 95   |
| <b>8 030 66 169</b>   | <b>Radial drilling and milling head ER 32 AS UT IC</b>  |
|  | Weight [kg]: 10.550<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 2:1<br>Torque max [Nm]: 80<br>Rotation max [1/min]: 3000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: Rotating direction note; combi bearing<br>Center distance [mm]: 100 |
| <b>8 030 66 260</b>   | <b>Radial drilling and milling head ER 32 AS UT</b>   |
|  | Weight [kg]: 9.260<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 70  |

## Puma 2100 BMT 65 - 12 Stationen

| Part-#  | Name   |  |
|---|--|--|
|   |  | Rotation max [1/min]: 10000<br>Rotating direction: same<br>Coolant: EXT<br>Center distance [mm]: 100   |
| <b>8 030 66 261</b>   | <b>Radial drilling and milling head ER 32 AS UT IC</b> |  |
|    |  | Weight [kg]: 9.440<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 70<br>Rotation max [1/min]: 10000<br>Rotating direction: same<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 100 |
| <b>8 030 66 269</b>   | <b>Radial drilling and milling head ER 32 AX UT</b>    |  |
|  |  | Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 70<br>Rotation max [1/min]: 10000<br>Rotating direction: same<br>Coolant: EXT<br>Center distance [mm]: 100   |
| <b>8 030 66 270</b>   | <b>Radial drilling and milling head ER 32 AX UT IC</b> |  |
|  |  | Weight [kg]: 9.980<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 70<br>Rotation max [1/min]: 10000<br>Rotating direction: same<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 100 |
| <b>8 030 67 165</b>   | <b>Radial drilling and milling head ER 40 AX UT</b>    |  |
|  |  | Weight [kg]: 10.540<br>Notation: 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 40 u-tec<br>Gear ratio [i]: 1:1   |

| Part-#  | Name  |  |
|---|---|--|
|   |   | Torque max [Nm]: 50<br>Rotation max [1/min]: 6000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: Combi bearing<br>Center distance [mm]: 100 |
| <b>8 039 66 021</b>   | <b>Radial drilling and milling head ER 32 AX UT</b>   |  |
|    | Notation: 180° reversible<br>Employment for: Main- and sub spindle<br>Version: double spindle<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 32 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 70<br>Rotation max [1/min]: 10000<br>Rotating direction: same/opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 100  |  |
| <b>8 043 65 000</b>   | <b>Universal head +135°/-30° adj. ER25 AX UT</b>  |  |
|  | Weight [kg]: 10.800<br>Notation: offset; 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: stronger bearing; note tool length!<br>Center distance [mm]: 69<br>Offset [mm]: 60            |  |
| <b>8 043 65 004</b>   | <b>Universal head +135°/-30° adj. ER25AX UTIK</b>   |  |
|  | Weight [kg]: 10.080<br>Notation: offset; 180° reversible<br>Tool drive: Flat (~DIN 1809)<br>Shank size [mm]: 65.00<br>Shank type: BMT<br>Tool adaption: ER 25 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: same<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 69<br>Offset [mm]: 60 |  |

| Part-#  | Name   |                                   |
|---|--|-----------------------------------|
| <b>8 050 65 011</b>   | <b>Multispindle drilling head ER 25 AX UT</b>    |                                   |
|    | Weight [kg]:                                     | 6.700                             |
|   | Version:   | 2-spindles                        |
|   | Tool drive:                                      | Flat (~DIN 1809)                  |
|   | Shank size [mm]:                                 | 65.00                             |
|   | Shank type:                                      | BMT                               |
|   | Tool adaption:                                   | ER 25 A - u-tec                   |
|   | Gear ratio [i]:                                  | 1:1                               |
|   | Torque max [Nm]:                                 | 32/Sp.                            |
|   | Rotation max [1/min]:                            | 6000                              |
|   | Rotating direction:                              | opposite                          |
|   | Coolant:   | EXT                               |
|   | Please note:                                     | stronger bearing                  |
| <b>8 050 65 012</b>   | <b>Multispindle drilling head ER 25 AX UT IC</b> |                                   |
|    | Weight [kg]:                                     | 6.740                             |
|   | Tool drive:                                      | Flat (~DIN 1809)                  |
|   | Shank size [mm]:                                 | 65.00                             |
|   | Shank type:                                      | BMT                               |
|   | Tool adaption:                                   | ER 25 A - u-tec                   |
|   | Gear ratio [i]:                                  | 1:1                               |
|   | Torque max [Nm]:                                 | 32/Sp.                            |
|   | Rotation max [1/min]:                            | 6000                              |
|   | Rotating direction:                              | opposite                          |
|   | Coolant:   | IC/Ext                            |
|   | Pressure max [bar]:                              | 25                                |
|   | Please note:                                     | stronger bearing                  |
| <b>8 100 16 000</b>   | <b>Tool holder radial ø17,1 / minus</b>          |                                   |
|  | Notation:  | 180° reversible                   |
|   | Employment for:                                  | Angle handpiece or extension CN01 |
|   | Tool drive:                                      | Flat (~DIN 1809)                  |
|   | Shank size [mm]:                                 | 65.00                             |
|   | Shank type:                                      | BMT                               |
|   | Tool adaption:                                   | Interface ø17,1 / M17x1           |
|   | Gear ratio [i]:                                  | 1:1                               |
|   | Rotation max [1/min]:                            | 6000                              |
|   | Rotating direction:                              | opposite                          |
|   | Coolant:   | no                                |
|   | Center distance [mm]:                            | 100                               |
| <b>8 200 62 006</b>   | <b>Cover plate 96,0x100,0x 10,0</b>              |                                   |
|  | Weight [kg]:                                     | 1.340                             |
|   | Shank size [mm]:                                 | 65.00                             |
|   | Shank type:                                      | BMT                               |
| <b>8 202 10 009</b>   | <b>Basic holder longitudinal seat FN 12</b>      |                                   |
|  | Weight [kg]:                                     | 1.490                             |
|   | Notation:  | 180° reversible                   |
|   | Shank type:                                      | BMT                               |
|   | Machine adaption:                                | Centering key b 18                |
|   | Tool adaption:                                   | Interface FN 12                   |
|   | Coolant:   | EXT                               |

| Part-#  | Name                                      |                           |
|---|---|---------------------------|
| <b>8 209 14 006</b>   | <b>Adapter for VDI 40</b>                 |                           |
|    | Weight [kg]:                              | 7.650                     |
|   | Notation:                                 | 180° reversible           |
|   | Employment for:                           | Main- and sub spindle     |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | DIN 69880 - 40            |
|   | Coolant:                                  | EXT                       |
|   | Center distance [mm]:                     | 100                       |
| <b>8 224 12 014</b>   | <b>Cut-off holder sq. 25</b>              |                           |
|    | Weight [kg]:                              | 2.320                     |
| <b>8 224 13 015</b>   | <b>Cut-off holder SH 32</b>               |                           |
|   | Weight [kg]:                              | 1.870                     |
|   | Employment for:                           | Cut-off tool 32           |
|   | Version:                                  | Clampshaft on turret side |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Clampshaft SH 32          |
|   | Coolant:                                  | EXT                       |
| <b>8 224 14 026</b>   | <b>Universal turning holder sq. 20 IC</b> |                           |
|  | Weight [kg]:                              | 3.795                     |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 20                    |
|   |   | Sq. 20                    |
|   | Coolant:                                  | IC/Ext                    |
|   | Pressure max [bar]:                       | 100                       |
|   | Please note:                              | Key rail                  |
| <b>8 224 14 027</b>   | <b>Universal turning holder sq. 20 IC</b> |                           |
|  | Weight [kg]:                              | 4.600                     |
|   | Notation:                                 | 180° reversible           |
|   | Shank type:                               | BMT                       |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 20                    |
|   |   | Sq. 20                    |
|   | Coolant:                                  | IC/Ext                    |
|   | Pressure max [bar]:                       | 100                       |
|   | Please note:                              | Key rail                  |
| <b>8 224 15 005</b>   | <b>Universal turning holder sq. 25</b>    |                           |
|  | Weight [kg]:                              | 3.960                     |
|   | Machine adaption:                         | Centering key b 18        |
|   | Tool adaption:                            | Sq. 25                    |
|   | Coolant:                                  | EXT                       |
|   | Pressure max [bar]:                       | 80                        |

| Part-#  | Name                                      |                    |
|---|---|--------------------|
| <b>8 224 15 006</b>   | <b>Universal turning holder sq. 25</b>    |                    |
|    | Weight [kg]:                              | 4.590              |
|   | Notation:                                 | 180° reversible    |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 25             |
|   |   | Sq. 25             |
|   | Coolant:                                  | EXT                |
|   | Pressure max [bar]:                       | 80                 |
| <b>8 224 15 015</b>   | <b>Universal turning holder sq. 1"</b>    |                    |
|    | Weight [kg]:                              | 3.930              |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 1" (25,4mm)    |
|   | Coolant:                                  | EXT                |
| <b>8 224 15 016</b>   | <b>Universal turning holder sq. 1"</b>    |                    |
|   | Weight [kg]:                              | 4.580              |
|   | Shank type:                               | BMT                |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 1" (25,4mm)    |
|   |   | Sq. 1" (25,4mm)    |
|   | Coolant:                                  | EXT                |
| <b>8 224 15 052</b>   | <b>Universal turning holder sq. 25 IC</b> |                    |
|  | Shank type:                               | BMT                |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 25             |
|   |   | Sq. 25             |
|   | Coolant:                                  | IC/Ext             |
|   | Pressure max [bar]:                       | 100                |
|   | Please note:                              | Key rail           |
| <b>8 224 15 053</b>   | <b>Universal turning holder sq. 25 IC</b> |                    |
|  | Weight [kg]:                              | 4.690              |
|   | Notation:                                 | 180° reversible    |
|   | Shank type:                               | BMT                |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 25             |
|   |   | Sq. 25             |
|   | Coolant:                                  | IC/Ext             |
|   | Pressure max [bar]:                       | 100                |
|   | Please note:                              | Key rail           |
| <b>8 224 15 056</b>   | <b>Universal turning holder sq. 1" IC</b> |                    |
|  | Notation:                                 | 180° reversible    |
|   | Shank type:                               | BMT                |
|   | Machine adaption:                         | Centering key b 18 |
|   | Tool adaption:                            | Sq. 1" (25,4mm)    |
|   |   | Sq. 1" (25,4mm)    |
|   | Coolant:                                  | IC/Ext             |
|   | Pressure max [bar]:                       | 100                |
|   | Please note:                              | Key rail           |

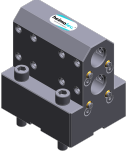
| Part-#  | Name                              |  |
|---|-----------------------------------|--|
| <b>8 229 16 012</b>   | <b>Tool holder C 4 IC</b>         |  |
|    | Weight [kg]:                      | 3.300                                  |
|   | Notation:                         | 180° reversible                        |
|   | Version:                          | right                                  |
|   | Shank type:                       | BMT                                    |
|   | Machine adaption:                 | Centering key b 18                     |
|   | Tool adaption:                    | heimatec Capto(TM) C 4                 |
|   | Coolant:                          | IC                                     |
|   | Please note:                      | Check applicability; note tool length! |
|   | Offset [mm]:                      | 31                                     |
| <b>8 240 15 026</b>   | <b>Tool holder ABS 50 IC/Ext</b>  |  |
|    | Weight [kg]:                      | 7.800                                  |
|   | Notation:                         | 180° reversible                        |
|   | Employment for:                   | Main- and sub spindle                  |
|   | Shank type:                       | BMT                                    |
|   | Machine adaption:                 | Centering key b 18                     |
|   | Tool adaption:                    | ABS 50                                 |
|   | Coolant:                          | IC/Ext                                 |
|   | Center distance [mm]:             | 100                                    |
| <b>8 240 16 026</b>   | <b>Collet chuck holder ER 32</b>  |  |
|  | Weight [kg]:                      | 6.820                                  |
|   | Notation:                         | 180° reversible                        |
|   | Shank type:                       | BMT                                    |
|   | Machine adaption:                 | Centering key b 18                     |
|   | Tool adaption:                    | ER 32                                  |
|   | Coolant:                          | IC/Ext                                 |
|   | Please note:                      | Insert reversible                      |
|   | Center distance [mm]:             | 100                                    |
| <b>8 240 17 050</b>   | <b>Boring bar holder Ø 25</b>     |  |
|  | Weight [kg]:                      | 10.730                                 |
|   | Notation:                         | 180° reversible                        |
|   | Employment for:                   | Main- and sub spindle                  |
|   | Shank type:                       | BMT                                    |
|   | Machine adaption:                 | Centering key b 18                     |
|   | Tool adaption:                    | Ø 25                                   |
|   | Coolant:                          | IC/Ext                                 |
|   | Pressure max [bar]:               | 80                                     |
|   | Center distance [mm]:             | 100                                    |
| <b>8 240 17 063</b>   | <b>Boring bar holder Ø 1 1/4"</b> |  |
|  | Weight [kg]:                      | 10.500                                 |
|   | Notation:                         | 180° reversible                        |
|   | Employment for:                   | Main- and sub spindle                  |
|   | Shank type:                       | BMT                                    |
|   | Machine adaption:                 | Centering key b 18                     |
|   | Tool adaption:                    | Ø 1 1/4" (31,75mm)                     |
|   | Coolant:                          | IC/Ext                                 |
|   | Center distance [mm]:             | 100                                    |


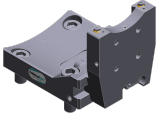


| Part-#  | Name                              |                       |
|---|-----------------------------------|-----------------------|
| <b>8 240 18 049</b>   | <b>Boring bar holder Ø 32</b>     |                       |
|    | Weight [kg]:                      | 10.480                |
|   | Notation:                         | 180° reversible       |
|   | Employment for:                   | Main- and sub spindle |
|   | Shank type:                       | BMT                   |
|   | Machine adaption:                 | Centering key b 18    |
|   | Tool adaption:                    | Ø 32                  |
|   | Coolant:                          | IC/Ext                |
|   | Pressure max [bar]:               | 80                    |
|   | Center distance [mm]:             | 100                   |
| <b>8 240 18 091</b>   | <b>Boring bar holder Ø 1 1/2"</b> |                       |
|    | Weight [kg]:                      | 10.110                |
|   | Notation:                         | 180° reversible       |
|   | Shank type:                       | BMT                   |
|   | Machine adaption:                 | Centering key b 18    |
|   | Tool adaption:                    | Ø 1 1/2" (38,1mm)     |
|   | Coolant:                          | IC/Ext                |
|   | Center distance [mm]:             | 100                   |
| <b>8 240 19 043</b>   | <b>Boring bar holder Ø 40</b>     |                       |
|   | Weight [kg]:                      | 10.050                |
|   | Notation:                         | 180° reversible       |
|   | Employment for:                   | Main- and sub spindle |
|   | Shank type:                       | BMT                   |
|   | Machine adaption:                 | Centering key b 18    |
|   | Tool adaption:                    | Ø 40                  |
|   | Coolant:                          | IC/Ext                |
|   | Pressure max [bar]:               | 80                    |
|   | Center distance [mm]:             | 100                   |
| <b>8 240 19 051</b>   | <b>Boring bar holder Ø 50</b>     |                       |
|  | Weight [kg]:                      | 9.340                 |
|   | Notation:                         | 180° reversible       |
|   | Employment for:                   | Main- and sub spindle |
|   | Shank type:                       | BMT                   |
|   | Machine adaption:                 | Centering key b 18    |
|   | Tool adaption:                    | Ø 50                  |
|   | Coolant:                          | IC/Ext                |
|   | Pressure max [bar]:               | 80                    |
|   | Center distance [mm]:             | 100                   |
| <b>8 240 19 070</b>   | <b>Boring bar holder Ø 50</b>     |                       |
|  | Weight [kg]:                      | 11.220                |
|   | Notation:                         | 180° reversible       |
|   | Employment for:                   | Main- and sub spindle |
|   | Version:                          | Special               |
|   | Shank type:                       | BMT                   |
|   | Machine adaption:                 | Centering key b 18    |
|   | Tool adaption:                    | Ø 50                  |
|   | Coolant:                          | IC/Ext                |
|   | Center distance [mm]:             | 115                   |

## Puma 2100 BMT 65 - 12 Stationen

| Part-#  | Name                                      |                         |
|---|---|-------------------------|
| <b>8 240 19 137</b>   | <b>Boring bar holder Ø 2"</b>             |                         |
|    | Weight [kg]:                              | 7.060                   |
|   | Notation:                                 | 180° reversible         |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | Ø 2" (50,8mm)           |
|   | Coolant:                                  | IC/Ext                  |
|   | Center distance [mm]:                     | 80                      |
| <b>8 244 15 005</b>   | <b>Combi facing holder sq. 25</b>         |                         |
|    | Weight [kg]:                              | 6.510                   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key slot b 18 |
|   | Tool adaption:                            | Sq. 25                  |
|   | Coolant:                                  | EXT                     |
|   | Pressure max [bar]:                       | 80                      |
| <b>8 244 15 006</b>   | <b>Combi facing holder sq. 1"</b>         |                         |
|   | Weight [kg]:                              | 6.530                   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key slot b 18 |
|   | Tool adaption:                            | Sq. 1" (25,4mm)         |
|   | Coolant:                                  | EXT                     |
| <b>8 249 16 005</b>   | <b>Double collet chuck holder ER 32</b>   |                         |
|  | Weight [kg]:                              | 8.560                   |
|   | Notation:                                 | 180° reversible         |
|   | Employment for:                           | Main- and sub spindle   |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | ER 32                   |
|   | Coolant:                                  | IC/Ext                  |
|   | Center distance [mm]:                     | 100                     |
| <b>8 251 14 019</b>   | <b>Combi multiple holder 3x sq. 20</b>    |                         |
|  | Weight [kg]:                              | 4.890                   |
|   | Employment for:                           | Main spindle            |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | Sq. 20                  |
|   |   | Sq. 20                  |
|   | Coolant:                                  | EXT                     |
| <b>8 251 15 003</b>   | <b>Combi double turning holder sq. 25</b> |                         |
|  | Notation:                                 | 180° reversible         |
|   | Shank type:                               | BMT                     |
|   | Machine adaption:                         | Centering key b 18      |
|   | Tool adaption:                            | Sq. 25                  |
|   |   | Sq. 25                  |
|   |   | Sq. 25                  |
|   |   | Sq. 25                  |
|   | Coolant:                                  | EXT                     |
|   | Pressure max [bar]:                       | 80                      |

| Part-#  | Name   |                       |
|---|--|-----------------------|
| <b>8 251 15 008</b>   | <b>Combi double turning holder sq. 1"</b>    |                       |
|    | Weight [kg]:                                 | 6.590                 |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 1" (25,4mm)       |
|   | Coolant:                                     | EXT                   |
| <b>8 251 15 046</b>   | <b>Combi double turning holder sq. 25 IC</b> |                       |
|    | Weight [kg]:                                 | 6.520                 |
|   | Notation:                                    | 180° reversible       |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |
|   |  | Sq. 25                |
|   | Coolant:                                     | IC/Ext                |
|   | Pressure max [bar]:                          | 100                   |
|   | Please note:                                 | Key rail              |
| <b>8 253 17 056</b>   | <b>Double boring bar holder Ø 25</b>         |                       |
|  | Weight [kg]:                                 | 7.300                 |
|   | Notation:                                    | 180° reversible       |
|   | Employment for:                              | Main- and sub spindle |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Ø 25                  |
|   | Coolant:                                     | IC/Ext                |
|   | Please note:                                 | Special               |
|   | Center distance [mm]:                        | 70/110                |
| <b>8 253 17 115</b>   | <b>Multiple boring bar holder Ø 1 1/4"</b>   |                       |
|  | Weight [kg]:                                 | 8.950                 |
|   | Notation:                                    | 180° reversible       |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Ø 1 1/4" (31,75mm)    |
|   |  | Ø 1 1/4" (31,75mm)    |
|   | Coolant:                                     | IC/Ext                |
|   | Center distance [mm]:                        | 70/110                |
| <b>8 253 18 006</b>   | <b>Double boring bar holder Ø 32</b>         |                       |
|  | Weight [kg]:                                 | 8.860                 |
|   | Notation:                                    | 180° reversible       |
|   | Employment for:                              | Main- and sub spindle |
|   | Shank type:                                  | BMT                   |
|   | Machine adaption:                            | Centering key b 18    |
|   | Tool adaption:                               | Ø 32                  |
|   |  | Ø 32                  |
|   | Coolant:                                     | IC/Ext                |
|   | Please note:                                 | Special               |
|   | Center distance [mm]:                        | 70/110                |

| Part-#  | Name  |                       |
|---|---|-----------------------|
| <b>8 259 12 007</b>   | <b>Multiple turning holder sq. 25/1"</b>          |                       |
|    | Weight [kg]:                                      | 8.790                 |
|   | Employment for:                                   | Main- and sub spindle |
|   | Version:  | Y-axes offset         |
|   | Shank type:                                       | BMT                   |
|   | Machine adaption:                                 | Centering key b 18    |
|   | 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>8 259 12 008</b>   | <b>Multiple turning holder sq. 25/1"</b>          |                       |
|    | Weight [kg]:                                      | 5.000                 |
|   | Notation:   | 180° reversible       |
|   | Version:  | Y-axes offset         |
|   | Shank type:                                       | BMT                   |
|   | Machine adaption:                                 | Centering key b 18    |
|   | Tool adaption:                                    | Sq. 25/1" (25,4 mm)   |
|   |   | Sq. 25/1" (25,4 mm)   |
|   | Coolant:  | EXT                   |
| <b>8 259 17 009</b>   | <b>Double boring bar holder Ø 1"</b>              |                       |
|  | Notation:   | 180° reversible       |
|   | Employment for:                                   | Main- and sub spindle |
|   | Machine adaption:                                 | Centering key b 18    |
|   | Tool adaption:                                    | Ø 1" (25,4mm)         |
|   | Coolant:  | IC/Ext                |
|   | Please note:                                      | Special               |
|   | Center distance [mm]:                             | 70/110                |
| <b>8 320 12 017</b>   | <b>Cut-off holder, height adjustable SH 26 IC</b> |                       |
|  | Weight [kg]:                                      | 1.980                 |
|   | Notation:   | 180° reversible       |
|   | Shank type:                                       | BMT                   |
|   | Machine adaption:                                 | Centering key b 18    |
|   | Tool adaption:                                    | Clampshaft SH 26      |
|   | Coolant:  | IC/Ext                |
|   | Pressure max [bar]:                               | 70                    |
| <b>8 320 13 005</b>   | <b>Cut-off holder, height adjustable SH 32 IC</b> |                       |
|  | Weight [kg]:                                      | 2.120                 |
|   | Notation:   | 180° reversible       |
|   | Shank type:                                       | BMT                   |
|   | Machine adaption:                                 | Centering key b 18    |
|   | Tool adaption:                                    | Clampshaft SH 32      |
|   | Coolant:  | IC/Ext                |
|   | Pressure max [bar]:                               | 70                    |

| Part-#   | Name   |   |
|--|--|---|
| <b>8 320 13 019</b>  | <b>Cut-off holder, height adjustable SH 32 IC</b>  |   |
|   | Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br>Coolant:<br>Pressure max [bar]:<br>Please note:                 | 180° reversible<br>BMT<br>Centering key b 18<br>Clampshaft SH 32<br>IC/Ext<br>70<br>with offset cut-off tool holder; use  |
| <b>8 320 13 020</b>  | <b>Cut-off holder, height adjustable SH 32 IC</b>  |   |
|   | Weight [kg]:<br>Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br>Coolant:<br>Pressure max [bar]:<br>Please note: | 2.240<br>180° reversible<br>BMT<br>Centering key b 18<br>Clampshaft SH 32<br>IC/Ext<br>70<br>Clampshaft internal  |
| <b>8 320 19 020</b>  | <b>Cut-off holder, height adjustable 845 IC</b>  |   |
|  | Notation:<br>Shank type:<br>Machine adaption:<br>Tool adaption:<br>Coolant:<br>Pressure max [bar]:<br>Please note:                 | 180° reversible<br>BMT<br>Centering key b 18<br> System 845<br>IC<br>70<br>Clampshaft internal |

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