

Doosan

# Puma HT 250

# TM - VDI 30



# 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.

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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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| Part-#                                                                              | Name                                                  |                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------|
| <b>8 010 25 090</b>                                                                 | <b>Axial drilling and milling head ER 25</b>          |                    |
|    | Weight [kg]:                                          | 1.580              |
|                                                                                     | Tool drive:                                           | DIN 5480           |
|                                                                                     | Shank size [mm]:                                      | 30.00              |
|                                                                                     | Shank type:                                           | VDI                |
|                                                                                     | Tool adaption:                                        | ER 25              |
|                                                                                     | Gear ratio [i]:                                       | 1:1                |
|                                                                                     | Torque max [Nm]:                                      | 25                 |
|                                                                                     | Rotation max [1/min]:                                 | 6000               |
|                                                                                     | Rotating direction:                                   | same               |
|                                                                                     | Coolant:                                              | EXT                |
|                                                                                     | Please note:                                          | round housing ø 68 |
| <b>8 010 25 091</b>                                                                 | <b>Axial drilling and milling head ER 25 IC</b>       |                    |
|    | Weight [kg]:                                          | 1.830              |
|                                                                                     | Tool drive:                                           | DIN 5480           |
|                                                                                     | Shank size [mm]:                                      | 30.00              |
|                                                                                     | Shank type:                                           | VDI                |
|                                                                                     | Tool adaption:                                        | ER 25              |
|                                                                                     | Gear ratio [i]:                                       | 1:1                |
|                                                                                     | Torque max [Nm]:                                      | 25                 |
|                                                                                     | Rotation max [1/min]:                                 | 6000               |
|                                                                                     | Rotating direction:                                   | same               |
|                                                                                     | Coolant:                                              | IC/Ext             |
|                                                                                     | Pressure max [bar]:                                   | 25                 |
|                                                                                     | Please note:                                          | round housing ø 68 |
| <b>8 010 25 118</b>                                                                 | <b>Axial drilling and milling head ER 25 AX UT</b>    |                    |
|  | Weight [kg]:                                          | 1.780              |
|                                                                                     | Tool drive:                                           | DIN 5480           |
|                                                                                     | Shank size [mm]:                                      | 30.00              |
|                                                                                     | Shank type:                                           | VDI                |
|                                                                                     | Tool adaption:                                        | ER 25 A - u-tec    |
|                                                                                     | Gear ratio [i]:                                       | 1:1                |
|                                                                                     | Torque max [Nm]:                                      | 25                 |
|                                                                                     | Rotation max [1/min]:                                 | 12000              |
|                                                                                     | Rotating direction:                                   | same               |
|                                                                                     | Coolant:                                              | EXT                |
|                                                                                     | Please note:                                          | stronger bearing   |
| <b>8 010 25 119</b>                                                                 | <b>Axial drilling and milling head ER 25 AX UT IC</b> |                    |
|  | Weight [kg]:                                          | 1.780              |
|                                                                                     | Tool drive:                                           | DIN 5480           |
|                                                                                     | Shank size [mm]:                                      | 30.00              |
|                                                                                     | Shank type:                                           | VDI                |
|                                                                                     | Tool adaption:                                        | ER 25 A - u-tec    |
|                                                                                     | Gear ratio [i]:                                       | 1:1                |
|                                                                                     | Torque max [Nm]:                                      | 25                 |
|                                                                                     | Rotation max [1/min]:                                 | 6000               |
|                                                                                     | Rotating direction:                                   | same               |
|                                                                                     | Coolant:                                              | IC/Ext             |
|                                                                                     | Pressure max [bar]:                                   | 25                 |
|                                                                                     | Please note:                                          | round housing ø 68 |

| Part-#                                                                            | Name                                               |                        |
|-----------------------------------------------------------------------------------|----------------------------------------------------|------------------------|
| <b>8 010 25 154</b>                                                               | <b>Axial drilling and milling head ER 25 AX UT</b> |                        |
|  | Weight [kg]:                                       | 1.830                  |
|                                                                                   | Tool drive:                                        | DIN 5480               |
|                                                                                   | Shank size [mm]:                                   | 30.00                  |
|                                                                                   | Shank type:                                        | VDI                    |
|                                                                                   | Tool adaption:                                     | ER 25 A - u-tec        |
|                                                                                   | Gear ratio [i]:                                    | 1:1                    |
|                                                                                   | Torque max [Nm]:                                   | 25                     |
|                                                                                   | Rotation max [1/min]:                              | 12000                  |
|                                                                                   | Rotating direction:                                | same                   |
|                                                                                   | Coolant:                                           | EXT                    |
| <b>8 013 22 000</b>                                                               | <b>Axial drilling and milling head Weldon 6</b>    |                        |
|                                                                                   | Version:                                           | left                   |
|                                                                                   | Tool drive:                                        | DIN 5480               |
|                                                                                   | Shank size [mm]:                                   | 30.00                  |
|                                                                                   | Shank type:                                        | VDI                    |
|                                                                                   | Tool adaption:                                     | Weldon (DIN 1835 b) 6  |
|                                                                                   | Gear ratio [i]:                                    | 1:2                    |
|                                                                                   | Torque max [Nm]:                                   | 8                      |
|                                                                                   | Rotation max [1/min]:                              | 8000                   |
|                                                                                   | Rotating direction:                                | same                   |
|                                                                                   | Coolant:                                           | EXT                    |
| <b>8 013 24 014</b>                                                               | <b>Axial drilling and milling head Weldon 10</b>   |                        |
|                                                                                   | Version:                                           | left                   |
|                                                                                   | Tool drive:                                        | DIN 5480               |
|                                                                                   | Shank size [mm]:                                   | 30.00                  |
|                                                                                   | Shank type:                                        | VDI                    |
|                                                                                   | Tool adaption:                                     | Weldon (DIN 1835 b) 10 |
|                                                                                   | Gear ratio [i]:                                    | 1:2                    |
|                                                                                   | Torque max [Nm]:                                   | 8                      |
|                                                                                   | Rotation max [1/min]:                              | 8000                   |
|                                                                                   | Rotating direction:                                | same                   |
|                                                                                   | Coolant:                                           | EXT                    |
| <b>8 013 25 007</b>                                                               | <b>Axial drilling and milling head Weldon 16</b>   |                        |
|                                                                                   | Weight [kg]:                                       | 4.320                  |
|                                                                                   | Version:                                           | left                   |
|                                                                                   | Tool drive:                                        | DIN 5480               |
|                                                                                   | Shank size [mm]:                                   | 30.00                  |
|                                                                                   | Shank type:                                        | VDI                    |
|                                                                                   | Tool adaption:                                     | Weldon (DIN 1835 b) 16 |
|                                                                                   | Gear ratio [i]:                                    | 1:2                    |
|                                                                                   | Torque max [Nm]:                                   | 8                      |
|                                                                                   | Rotation max [1/min]:                              | 8000                   |
|                                                                                   | Rotating direction:                                | same                   |
|                                                                                   | Coolant:                                           | EXT                    |
|                                                                                   | Please note:                                       | stronger bearing       |
| <b>8 014 25 002</b>                                                               | <b>Axial milling head universal arbor 22</b>       |                        |
|                                                                                   | Tool drive:                                        | DIN 5480               |
|                                                                                   | Shank size [mm]:                                   | 30.00                  |
|                                                                                   | Shank type:                                        | VDI                    |
|                                                                                   | Tool adaption:                                     | Universal arbor 22     |
|                                                                                   | Gear ratio [i]:                                    | 2:1                    |
|                                                                                   | Torque max [Nm]:                                   | 40                     |

| Part-#              | Name                                         |                             |
|---------------------|----------------------------------------------|-----------------------------|
|                     | Rotation max [1/min]:                        | 3000                        |
|                     | Rotating direction:                          | same                        |
|                     | Coolant:                                     | EXT                         |
|                     | Please note:                                 | stronger bearing            |
| <b>8 019 25 008</b> | <b>Axial milling head universal arbor 1"</b> |                             |
|                     | Weight [kg]:                                 | 5.300                       |
|                     | Notation:                                    | offset                      |
|                     | Version:                                     | left                        |
|                     | Tool drive:                                  | DIN 5480                    |
|                     | Shank size [mm]:                             | 30.00                       |
|                     | Shank type:                                  | VDI                         |
|                     | Tool adaption:                               | Universal arbor 1" (25,4mm) |
|                     | Gear ratio [i]:                              | 2:1                         |
|                     | Torque max [Nm]:                             | 40                          |
|                     | Rotation max [1/min]:                        | 4000                        |
|                     | Rotating direction:                          | opposite                    |
|                     | Coolant:                                     | EXT                         |
|                     | Please note:                                 | stronger bearing            |
|                     | Offset [mm]:                                 | 34,5                        |
| <b>8 019 25 021</b> | <b>Axial drilling and milling head ER 25</b> |                             |
|                     | Weight [kg]:                                 | 4.320                       |
|                     | Notation:                                    | offset                      |
|                     | Version:                                     | left                        |
|                     | Tool drive:                                  | DIN 5480                    |
|                     | Shank size [mm]:                             | 30.00                       |
|                     | Shank type:                                  | VDI                         |
|                     | Tool adaption:                               | ER 25                       |
|                     | Gear ratio [i]:                              | 1:2                         |
|                     | Torque max [Nm]:                             | 12                          |
|                     | Rotation max [1/min]:                        | 12000                       |
|                     | Rotating direction:                          | opposite                    |
|                     | Coolant:                                     | EXT                         |
|                     | Please note:                                 | stronger bearing            |
|                     | Offset [mm]:                                 | 34,5                        |
| <b>8 019 25 025</b> | <b>Axial milling head universal arbor 22</b> |                             |
|                     | Notation:                                    | offset                      |
|                     | Version:                                     | left                        |
|                     | Tool drive:                                  | DIN 5480                    |
|                     | Shank size [mm]:                             | 30.00                       |
|                     | Shank type:                                  | VDI                         |
|                     | Tool adaption:                               | Universal arbor 22          |
|                     | Gear ratio [i]:                              | 2:1                         |
|                     | Torque max [Nm]:                             | 40                          |
|                     | Rotation max [1/min]:                        | 4000                        |
|                     | Rotating direction:                          | opposite                    |
|                     | Coolant:                                     | EXT                         |
|                     | Please note:                                 | stronger bearing            |
|                     | Offset [mm]:                                 | 34,5                        |

| Part-#              | Name                                             |                                   |
|---------------------|--------------------------------------------------|-----------------------------------|
| <b>8 019 25 027</b> | <b>Axial drilling and milling head ER 25 IC</b>  |                                   |
|                     | Weight [kg]:                                     | 4.360                             |
|                     | Notation:                                        | offset                            |
|                     | Version:                                         | left                              |
|                     | Tool drive:                                      | DIN 5480                          |
|                     | Shank size [mm]:                                 | 30.00                             |
|                     | Shank type:                                      | VDI                               |
|                     | Tool adaption:                                   | ER 25                             |
|                     | Gear ratio [i]:                                  | 1:3                               |
|                     | Torque max [Nm]:                                 | 6                                 |
|                     | Rotation max [1/min]:                            | 15000                             |
|                     | Rotating direction:                              | opposite                          |
|                     | Coolant:                                         | IC/Ext                            |
|                     | Pressure max [bar]:                              | 25                                |
|                     | Please note:                                     | stronger bearing                  |
|                     | Offset [mm]:                                     | 34,5                              |
| <b>8 030 24 036</b> | <b>Radial drilling and milling head ER 20 AX</b> |                                   |
|                     | Version:                                         | left                              |
|                     | Tool drive:                                      | DIN 5480                          |
|                     | Shank size [mm]:                                 | 30.00                             |
|                     | Shank type:                                      | VDI                               |
|                     | Tool adaption:                                   | ER 20 A                           |
|                     | Gear ratio [i]:                                  | 1:2                               |
|                     | Torque max [Nm]:                                 | 8                                 |
|                     | Rotation max [1/min]:                            | 12000                             |
|                     | Rotating direction:                              | opposite                          |
|                     | Coolant:                                         | EXT                               |
|                     | Please note:                                     | Old turret locator distance 46 mm |
|                     | Center distance [mm]:                            | 100                               |
| <b>8 030 24 040</b> | <b>Radial drilling and milling head ER 20 AX</b> |                                   |
|                     | Weight [kg]:                                     | 4.760                             |
|                     | Version:                                         | left                              |
|                     | Tool drive:                                      | DIN 5480                          |
|                     | Shank size [mm]:                                 | 30.00                             |
|                     | Shank type:                                      | VDI                               |
|                     | Tool adaption:                                   | ER 20 A                           |
|                     | Gear ratio [i]:                                  | 1:2                               |
|                     | Torque max [Nm]:                                 | 8                                 |
|                     | Rotation max [1/min]:                            | 8000                              |
|                     | Rotating direction:                              | opposite                          |
|                     | Coolant:                                         | EXT                               |
|                     | Center distance [mm]:                            | 100                               |
| <b>8 030 25 055</b> | <b>Radial drilling and milling head ER 25</b>    |                                   |
|                     | Weight [kg]:                                     | 4.020                             |
|                     | Version:                                         | left                              |
|                     | Tool drive:                                      | DIN 5480                          |
|                     | Shank size [mm]:                                 | 30.00                             |
|                     | Shank type:                                      | VDI                               |
|                     | Tool adaption:                                   | ER 25                             |
|                     | Gear ratio [i]:                                  | 1:1                               |
|                     | Torque max [Nm]:                                 | 25                                |
|                     | Rotation max [1/min]:                            | 6000                              |
|                     | Rotating direction:                              | opposite                          |
|                     | Coolant:                                         | EXT                               |
|                     | Center distance [mm]:                            | 100                               |

| Part-#              | Name                                                 |
|---------------------|------------------------------------------------------|
| <b>8 030 25 058</b> | <b>Radial drilling and milling head Weldon 16 IC</b> |
|                     | Version: left                                        |
|                     | Tool drive: DIN 5480                                 |
|                     | Shank size [mm]: 30.00                               |
|                     | Shank type: VDI                                      |
|                     | Tool adaption: Weldon (DIN 1835 b) 16                |
|                     | Gear ratio [i]: 1:1                                  |
|                     | Torque max [Nm]: 25                                  |
|                     | Rotation max [1/min]: 6000                           |
|                     | Rotating direction: opposite                         |
|                     | Coolant: IC/Ext                                      |
|                     | Center distance [mm]: 100                            |
| <b>8 030 26 013</b> | <b>Radial drilling and milling head Weldon 20 IC</b> |
|                     | Weight [kg]: 4.620                                   |
|                     | Version: left                                        |
|                     | Tool drive: DIN 5480                                 |
|                     | Shank size [mm]: 30.00                               |
|                     | Shank type: VDI                                      |
|                     | Tool adaption: Weldon (DIN 1835 b) 20                |
|                     | Gear ratio [i]: 1:1                                  |
|                     | Torque max [Nm]: 25                                  |
|                     | Rotation max [1/min]: 6000                           |
|                     | Rotating direction: opposite                         |
|                     | Coolant: IC/Ext                                      |
|                     | Please note: stronger bearing                        |
|                     | Center distance [mm]: 100                            |
| <b>8 030 26 055</b> | <b>Radial drilling and milling head HT 4</b>         |
|                     | Weight [kg]: 4.820                                   |
|                     | Version: left                                        |
|                     | Tool drive: DIN 5480                                 |
|                     | Shank size [mm]: 30.00                               |
|                     | Shank type: VDI                                      |
|                     | Tool adaption: HT 4                                  |
|                     | Gear ratio [i]: 1:3                                  |
|                     | Torque max [Nm]: 8                                   |
|                     | Rotation max [1/min]: 15000                          |
|                     | Rotating direction: opposite                         |
|                     | Coolant: EXT                                         |
|                     | Center distance [mm]: 100                            |
| <b>8 031 26 016</b> | <b>Radial milling head universal arbor 27</b>        |
|                     | Weight [kg]: 3.430                                   |
|                     | Version: left                                        |
|                     | Tool drive: DIN 5480                                 |
|                     | Shank size [mm]: 30.00                               |
|                     | Shank type: VDI                                      |
|                     | Tool adaption: Universal arbor 27                    |
|                     | Gear ratio [i]: 1:1                                  |
|                     | Torque max [Nm]: 25                                  |
|                     | Rotation max [1/min]: 6000                           |
|                     | Rotating direction: opposite                         |
|                     | Coolant: EXT                                         |
|                     | Please note: stronger bearing                        |
|                     | Center distance [mm]: 64                             |

| Part-#              | Name                                             |
|---------------------|--------------------------------------------------|
| <b>8 033 25 106</b> | <b>Radial drilling and milling head ER 25 IC</b> |
|                     | Notation: offset                                 |
|                     | Version: left                                    |
|                     | Tool drive: DIN 5480                             |
|                     | Shank size [mm]: 30.00                           |
|                     | Shank type: VDI                                  |
|                     | Tool adaption: ER 25                             |
|                     | Gear ratio [i]: 1:1                              |
|                     | Torque max [Nm]: 25                              |
|                     | Rotation max [1/min]: 6000                       |
|                     | Rotating direction: same                         |
|                     | Coolant: IC/Ext                                  |
|                     | Pressure max [bar]: 140                          |
|                     | Center distance [mm]: 100                        |
| <b>8 033 26 017</b> | <b>Radial drilling and milling head HT 4 IC</b>  |
|                     | Weight [kg]: 5.860                               |
|                     | Notation: offset                                 |
|                     | Version: left                                    |
|                     | Tool drive: DIN 5480                             |
|                     | Shank size [mm]: 30.00                           |
|                     | Shank type: VDI                                  |
|                     | Tool adaption: HT 4                              |
|                     | Gear ratio [i]: 1:3                              |
|                     | Torque max [Nm]: 8                               |
|                     | Rotation max [1/min]: 12000                      |
|                     | Rotating direction: same                         |
|                     | Coolant: IC/Ext                                  |
|                     | Pressure max [bar]: 25                           |
|                     | Center distance [mm]: 100                        |
| <b>8 033 26 018</b> | <b>Radial drilling and milling head HT 4</b>     |
|                     | Weight [kg]: 5.640                               |
|                     | Notation: offset                                 |
|                     | Version: left                                    |
|                     | Tool drive: DIN 5480                             |
|                     | Shank size [mm]: 30.00                           |
|                     | Shank type: VDI                                  |
|                     | Tool adaption: HT 4                              |
|                     | Gear ratio [i]: 1:3                              |
|                     | Torque max [Nm]: 8                               |
|                     | Rotation max [1/min]: 12000                      |
|                     | Rotating direction: same                         |
|                     | Coolant: EXT                                     |
|                     | Center distance [mm]: 100                        |
| <b>8 036 25 002</b> | <b>Radial drilling and milling head ER 25 IC</b> |
|                     | Weight [kg]: 3.990                               |
|                     | Version: doubletoothed                           |
|                     | Tool drive: DIN 5480                             |
|                     | Shank size [mm]: 30.00                           |
|                     | Shank type: VDI                                  |
|                     | Tool adaption: ER 25                             |
|                     | Gear ratio [i]: 1:1                              |
|                     | Torque max [Nm]: 25                              |
|                     | Rotation max [1/min]: 6000                       |
|                     | Rotating direction: opposite                     |
|                     | Coolant: IC/Ext                                  |



| Part-#              | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Pressure max [bar]: 140<br>Center distance [mm]: 100                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>8 036 25 003</b> | <b>Radial drilling and milling head ER 25</b><br>Weight [kg]: 3.990<br>Version: doubletoothed<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 25<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 100                                                                                                                |
| <b>8 036 25 041</b> | <b>Radial drilling and milling head ER 25 AX UT</b><br>Weight [kg]: 4.220<br>Notation: 180° reversible<br>Version: doubletoothed<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<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: opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 100                                  |
| <b>8 036 25 042</b> | <b>Radial drilling and milling head ER 25 AX UT IC</b><br>Weight [kg]: 4.640<br>Notation: 180° reversible<br>Version: doubletoothed<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<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: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 100 |
| <b>8 040 24 012</b> | <b>Universal head ± 90° adjustable ER 20</b><br>Weight [kg]: 2.470<br>Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 20<br>Gear ratio [i]: 1:1                                                                                                                                                                                                                                                           |

| Part-#              | Name                                                                                                                                                                                                                                                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Torque max [Nm]: 10<br>Rotation max [1/min]: 6000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: Fixation 180° reversible<br>Center distance [mm]: 64                                                                                                                                                               |
| <b>8 040 24 035</b> | <b>Universal head ± 90° adjustable ER 16</b>                                                                                                                                                                                                                                                                                     |
|                     | Weight [kg]: 2.320<br>Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 10<br>Rotation max [1/min]: 6000<br>Rotating direction: same<br>Coolant: EXT<br>Please note: Fixation 180° reversible<br>Center distance [mm]: 64   |
| <b>8 040 24 059</b> | <b>Universal head ± 90° adjustable ER 16 AX UT</b>                                                                                                                                                                                                                                                                               |
|                     | Weight [kg]: 4.430<br>Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 88                              |
| <b>8 040 24 075</b> | <b>Universal head ± 90° adjustable ER 16 AX UT IC</b>                                                                                                                                                                                                                                                                            |
|                     | Weight [kg]: 4.450<br>Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 88 |
| <b>8 040 24 077</b> | <b>Universal head ± 90° adjustable ER 16 AX UT</b>                                                                                                                                                                                                                                                                               |
|                     | Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:1                                                                                                                                                                                      |

| Part-#              | Name                                                                                                                                                                                                                                                                                                                              |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 88                                                                                                                                                                                                     |
| <b>8 040 24 078</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT IC</b>                                                                                                                                                                                                                                                         |
|                     | Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 88                       |
| <b>8 040 24 079</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT</b>                                                                                                                                                                                                                                                            |
|                     | Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 88                                                     |
| <b>8 040 24 081</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT IC</b>                                                                                                                                                                                                                                                         |
|                     | Weight [kg]: 4.450<br>Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:1<br>Torque max [Nm]: 25<br>Rotation max [1/min]: 6000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 88 |
| <b>8 040 24 084</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT</b>                                                                                                                                                                                                                                                            |
|                     | Weight [kg]: 4.440<br>Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000                                                                                                          |

| Part-#              | Name                                                                                                                                                                                                                                                                                                                                       |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 88                                                                                                                                                                                                                                                                   |
| <b>8 040 24 087</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT IC</b>                                                                                                                                                                                                                                                                  |
|                     | Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Center distance [mm]: 88                               |
| <b>8 040 24 108</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 16 AX UT</b>                                                                                                                                                                                                                                                                     |
|                     | Weight [kg]: 4.470<br>Version: left, at $+45^\circ$ position can be pinned<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 16 A - u-tec<br>Gear ratio [i]: 1:2<br>Torque max [Nm]: 12<br>Rotation max [1/min]: 12000<br>Rotating direction: opposite<br>Coolant: EXT<br>Center distance [mm]: 88 |
| <b>8 040 25 021</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 25 AX UT</b>                                                                                                                                                                                                                                                                     |
|                     | Weight [kg]: 4.630<br>Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<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: opposite<br>Coolant: EXT<br>Please note: stronger bearing<br>Center distance [mm]: 88        |
| <b>8 040 25 022</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 25 AX UT IC</b>                                                                                                                                                                                                                                                                  |
|                     | Weight [kg]: 4.650<br>Version: left<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<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: opposite                                                                                     |

| Part-#              | Name                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 88                                                                                                                                                                                                                                                            |
| <b>8 040 25 040</b> | <b>Universal head <math>\pm 90^\circ</math> adjustable ER 25 AX UT IC</b>                                                                                                                                                                                                                                                                                          |
|                     | Weight [kg]: 3.500<br>Version: right<br>Tool drive: DIN 5480<br>Shank size [mm]: 30.00<br>Shank type: VDI<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: opposite<br>Coolant: IC/Ext<br>Pressure max [bar]: 140<br>Please note: stronger bearing<br>Center distance [mm]: 88 |
| <b>8 200 20 000</b> | <b>Plug Z2-30 K</b>                                                                                                                                                                                                                                                                                                                                                |
|                     | Weight [kg]: 0.060<br>Shank size [mm]: 30.00<br>Shank type: VDI                                                                                                                                                                                                                                                                                                    |
| <b>8 200 20 005</b> | <b>Plug Z2-30 S</b>                                                                                                                                                                                                                                                                                                                                                |
|                     | Weight [kg]: 0.740<br>Shank size [mm]: 30.00<br>Shank type: VDI                                                                                                                                                                                                                                                                                                    |
| <b>8 202 20 012</b> | <b>Basic holder longitudinal seat FN 12</b>                                                                                                                                                                                                                                                                                                                        |
|                     | Weight [kg]: 1.160<br>Version: universal<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: Interface FN 12<br>Coolant: EXT                                                                                                                                                                                                                            |
| <b>8 209 22 006</b> | <b>Adapter for VDI 30</b>                                                                                                                                                                                                                                                                                                                                          |
|                     | Weight [kg]: 4.000<br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: DIN 69880 - 30<br>Coolant: EXT<br>Please note: demountable in right version<br>Center distance [mm]: 85                                                                                                                                                         |
| <b>8 210 26 011</b> | <b>Tool holder HT 4 IC</b>                                                                                                                                                                                                                                                                                                                                         |
|                     | Weight [kg]: 1.270<br>Version: right<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: HT 4<br>Coolant: IC/Ext                                                                                                                                                                                                                                        |

| Part-#              | Name                                                                                                                                                                                                                                      |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8 210 26 012</b> | <b>Tool holder HT 4 IC</b><br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: HT 4<br>Coolant: IC/Ext                                                                                                        |
| <b>8 215 22 000</b> | <b>Tool holder C2-30x20</b><br>Weight [kg]: 1.980<br>Employment for: VDI 30<br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: Sq. 20/16<br>Coolant: EXT                                                     |
| <b>8 215 22 001</b> | <b>Tool holder C4-30x20</b><br>Employment for: VDI 30<br>Version: left<br>Shank type: VDI<br>Tool adaption: Sq. 20/16<br>Coolant: EXT                                                                                                     |
| <b>8 231 25 000</b> | <b>Collet chuck holder ER 25</b><br>Weight [kg]: 3.880<br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: ER 25<br>Coolant: IC/Ext<br>Please note: demountable in right version<br>Center distance [mm]: 100 |
| <b>8 231 26 011</b> | <b>Tool holder HT 4</b><br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: HT 4<br>Coolant: IC/Ext<br>Please note: demountable in right version<br>Center distance [mm]: 100                                 |
| <b>8 231 26 027</b> | <b>Boring bar holder Ø 20</b><br>Version: left<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: Ø 20<br>Coolant: IC/Ext<br>Please note: demountable in right version<br>Center distance [mm]: 100                           |

| Part-#                                                                            | Name                                              |                              |
|-----------------------------------------------------------------------------------|---------------------------------------------------|------------------------------|
| <b>8 231 27 004</b>                                                               | <b>Boring bar holder Ø 25</b>                     |                              |
|                                                                                   | Weight [kg]:                                      | 3.400                        |
|                                                                                   | Version:                                          | left                         |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Ø 25                         |
|                                                                                   | Coolant:                                          | IC/Ext                       |
|                                                                                   | Please note:                                      | demountable in right version |
|                                                                                   | Center distance [mm]:                             | 85                           |
| <b>8 234 24 003</b>                                                               | <b>Combi facing holder 30x20x 92</b>              |                              |
|  | Weight [kg]:                                      | 4.750                        |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Sq. 20                       |
|                                                                                   | Coolant:                                          | EXT                          |
| <b>8 274 22 000</b>                                                               | <b>Tool holder D2-30x20</b>                       |                              |
|                                                                                   | Weight [kg]:                                      | 2.220                        |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Sq. 20/16                    |
|                                                                                   | Coolant:                                          | EXT                          |
| <b>8 274 22 001</b>                                                               | <b>Tool holder D1-30x20</b>                       |                              |
|                                                                                   | Weight [kg]:                                      | 2.040                        |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Sq. 20/16                    |
|                                                                                   | Coolant:                                          | EXT                          |
| <b>8 320 22 019</b>                                                               | <b>Cut-off holder, height adjustable SH 26 IC</b> |                              |
|                                                                                   | Weight [kg]:                                      | 1.510                        |
|                                                                                   | Version:                                          | universal                    |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Clampshaft SH 26             |
|                                                                                   | Coolant:                                          | IC/Ext                       |
|                                                                                   | Pressure max [bar]:                               | 70                           |
| <b>8 320 23 013</b>                                                               | <b>Cut-off holder, height adjustable SH 32 IC</b> |                              |
|                                                                                   | Weight [kg]:                                      | 1.720                        |
|                                                                                   | Version:                                          | universal                    |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Clampshaft SH 32             |
|                                                                                   | Coolant:                                          | IC/Ext                       |
|                                                                                   | Pressure max [bar]:                               | 70                           |
| <b>8 320 23 018</b>                                                               | <b>Cut-off holder, height adjustable SH 32 IC</b> |                              |
|                                                                                   | Weight [kg]:                                      | 1.910                        |
|                                                                                   | Version:                                          | universal                    |
|                                                                                   | Shank size [mm]:                                  | 30.00                        |
|                                                                                   | Shank type:                                       | VDI                          |
|                                                                                   | Tool adaption:                                    | Clampshaft SH 32             |
|                                                                                   | Coolant:                                          | IC/Ext                       |

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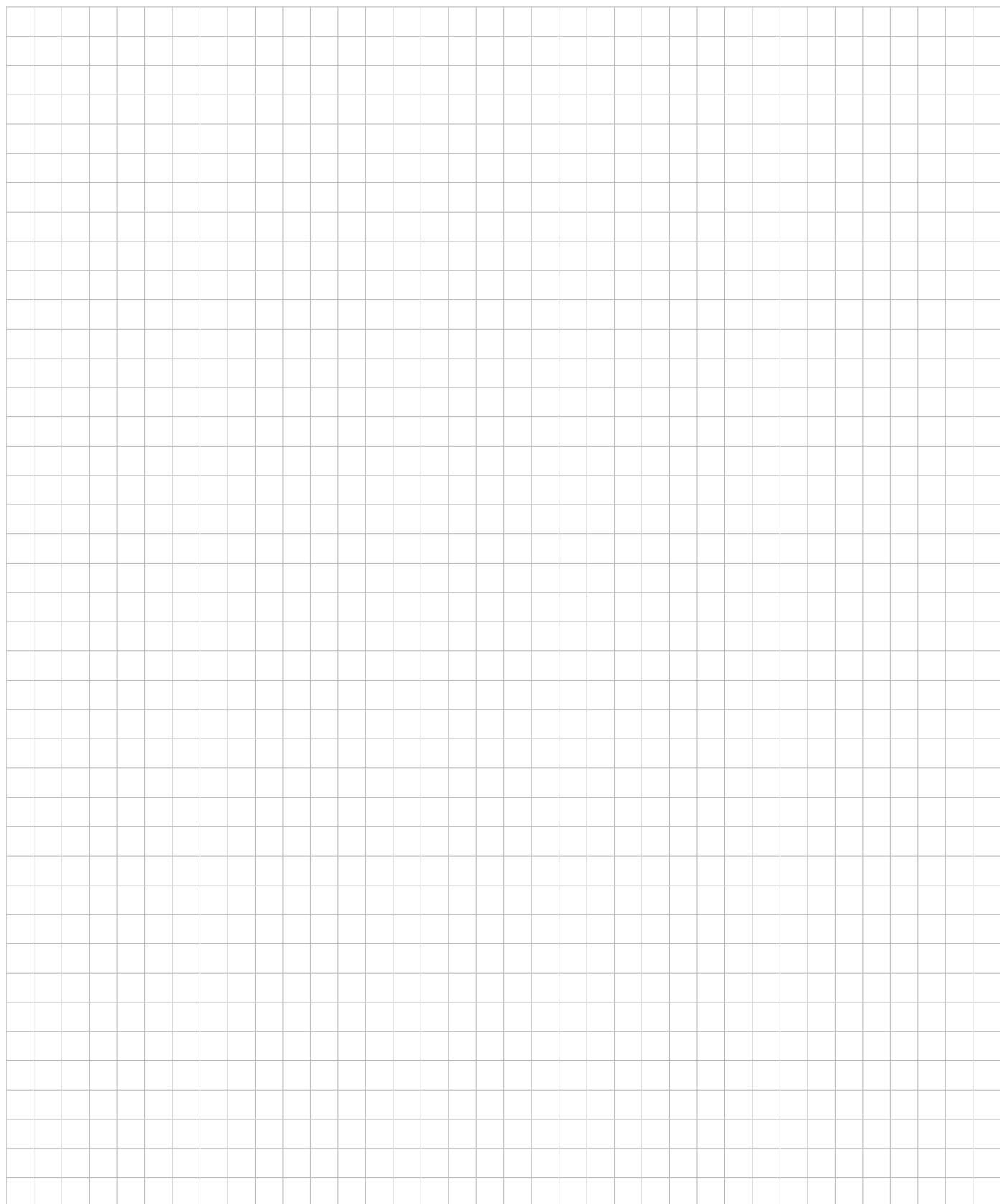
## Puma HT 250 TM - VDI 30

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| Part-#              | Name                                                                                                                                                                                                                                                                                             |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Pressure max [bar]: 70<br>Please note: Clampshaft internal                                                                                                                                                                                                                                       |
| <b>8 320 23 038</b> | <b>Cut-off holder, height adjustable SH 32 IC</b><br>Weight [kg]: 1.900<br>Version: universal<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption: Clampshaft SH 32<br>Coolant: IC/Ext<br>Pressure max [bar]: 70<br>Please note: Clampshaft internal, check applicability!             |
| <b>8 320 29 002</b> | <b>Cut-off holder, height adjustable 845 IC</b><br>Weight [kg]: 1.630<br>Version: universal<br>Shank size [mm]: 30.00<br>Shank type: VDI<br>Tool adaption:  System 845<br>Coolant: IC<br>Pressure max [bar]: 70 |







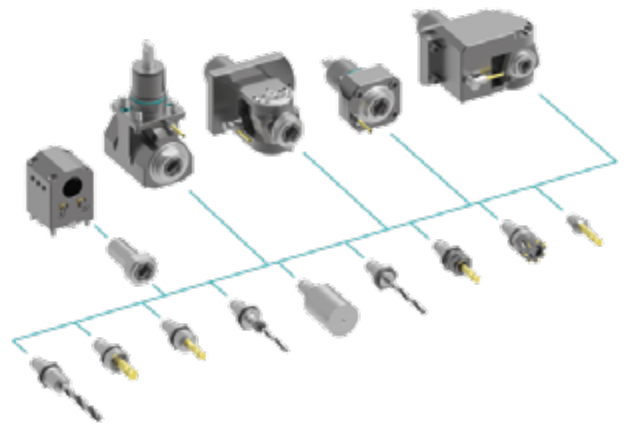
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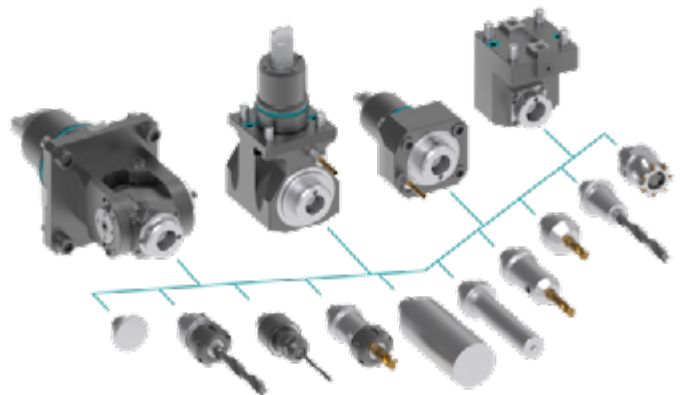
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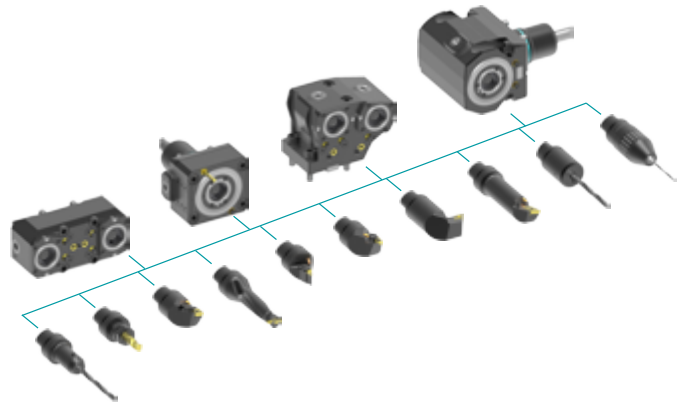
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