

Takisawa  
**TS 4000 SY/YSG**  
**T 12**



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

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

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

## \*OUR PRODCUTS

Static tool holders

Live tool units

Precision tools

Tools for turning and machining centres

Tools for swiss type lathes

Tool changing and uick-change systems

Tool systems for gear production

Digital tool management

This catalogue, including all its parts, is protected by copyright. Any use outside the restricted limitations of the Copyright Act without the consent of heimatec is inadmissible and liable to prosecution. This applies in particular to duplication, translation, microfilming and storage and processing in electronic systems.

**heimatec GmbH** reserves the right to make technical changes at any time without giving prior notice. This applies in particular to adjustments at any time to meet new or changed international standards, or in case of further developments of our products or manufacturing processes.

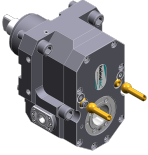
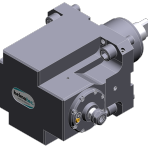
The current version of our General Terms and Conditions can be found on our website.

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

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

| Part-#              | Name                                                  |
|---------------------|-------------------------------------------------------|
| <b>8 013 64 003</b> | <b>Axial drilling and milling head ER 16 AX UT</b>    |
|                     | Weight [kg]: 4.840                                    |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 16 A - u-tec                        |
|                     | Gear ratio [i]: 1:4                                   |
|                     | Torque max [Nm]: 5                                    |
|                     | Rotation max [1/min]: 24000                           |
|                     | Rotating direction: same                              |
|                     | Coolant: EXT                                          |
| <b>8 013 64 016</b> | <b>Axial drilling and milling head ER 16 AX UT IC</b> |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 16 A - u-tec                        |
|                     | Gear ratio [i]: 1:4                                   |
|                     | Torque max [Nm]: 5                                    |
|                     | Rotation max [1/min]: 24000                           |
|                     | Rotating direction: same                              |
|                     | Coolant: IC/Ext                                       |
|                     | Pressure max [bar]: 100                               |
|                     | Please note: Dryrun possible                          |
| <b>8 019 64 051</b> | <b>Axial drilling and milling head ER 20 AX UT</b>    |
|                     | Weight [kg]: 18.420                                   |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 20 A - u-tec                        |
|                     | Gear ratio [i]: 1:1                                   |
|                     | Torque max [Nm]: 25                                   |
|                     | Rotation max [1/min]: 10000                           |
|                     | Rotating direction: same                              |
|                     | Coolant: EXT                                          |
|                     | Please note: stronger bearing, check applicability    |
|                     | Offset [mm]: 222,5                                    |
| <b>8 019 66 002</b> | <b>Axial drilling and milling head ER 32 AS UT IC</b> |
|                     | Weight [kg]: 11.190                                   |
|                     | Notation: offset; 180° reversible                     |
|                     | Tool drive: Flat (~DIN 1809)                          |
|                     | Shank size [mm]: 60.00                                |
|                     | Shank type: BMT                                       |
|                     | Tool adaption: ER 32 A - u-tec                        |
|                     | Gear ratio [i]: 1:2                                   |
|                     | Torque max [Nm]: 40                                   |
|                     | Rotation max [1/min]: 12000                           |
|                     | Rotating direction: opposite                          |
|                     | Coolant: IC/Ext                                       |
|                     | Pressure max [bar]: 140                               |
|                     | Please note: stronger bearing                         |
|                     | Offset [mm]: 50                                       |

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

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

| Part-#                                                                             | Name                                                   |                                            |
|------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|
|                                                                                    | Please note:                                           | Check applicability; tool length beachten! |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 66 201</b>                                                                | <b>Radial drilling and milling head ER 32 AX UT</b>    |                                            |
|   | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | ER 32 A - u-tec                            |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 12000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | EXT                                        |
|                                                                                    | Pressure max [bar]:                                    | 140                                        |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 66 208</b>                                                                | <b>Radial drilling and milling head ER 32 AX UT IC</b> |                                            |
|  | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | ER 32 A - u-tec                            |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 12000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | IC/Ext                                     |
|                                                                                    | Pressure max [bar]:                                    | 140                                        |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 67 081</b>                                                                | <b>Radial drilling and milling head HT 5</b>           |                                            |
|                                                                                    | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | HT 5                                       |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 10000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | EXT                                        |
|                                                                                    | Please note:                                           | stronger bearing                           |
|                                                                                    | Center distance [mm]:                                  | 90                                         |
| <b>8 030 67 082</b>                                                                | <b>Radial drilling and milling head HT 5 IC</b>        |                                            |
|                                                                                    | Notation:                                              | 180° reversible                            |
|                                                                                    | Tool drive:                                            | Flat (~DIN 1809)                           |
|                                                                                    | Shank size [mm]:                                       | 60.00                                      |
|                                                                                    | Shank type:                                            | BMT                                        |
|                                                                                    | Tool adaption:                                         | HT 5                                       |
|                                                                                    | Gear ratio [i]:                                        | 1:1                                        |
|                                                                                    | Torque max [Nm]:                                       | 50                                         |
|                                                                                    | Rotation max [1/min]:                                  | 10000                                      |
|                                                                                    | Rotating direction:                                    | opposite                                   |
|                                                                                    | Coolant:                                               | IC/Ext                                     |
|                                                                                    | Pressure max [bar]:                                    | 140                                        |

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

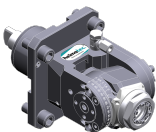
| Part-#              | Name                                          |                                              |
|---------------------|-----------------------------------------------|----------------------------------------------|
|                     | Rotating direction:                   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

# Takisawa

## TS 4000 SY/YSG T 12

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

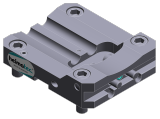
| Part-#              | Name                                                |
|---------------------|-----------------------------------------------------|
| <b>8 039 67 000</b> | <b>Radial drilling and milling head ER 40</b>       |
|                     | Weight [kg]: 13.410                       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

| Part-#                                                                              | Name                                                            |                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------|
|                                                                                     | Coolant:                                                        | EXT                                   |
|                                                                                     | Please note:                                                    | stronger bearing                      |
|                                                                                     | Center distance [mm]:                                           | 90                                    |
| <b>8 040 64 011</b>                                                                 | <b>Universal head ± 90° adjustable ER 16 AX UT</b>              |                                       |
|                                                                                     | Weight [kg]:                                                    | 5.750                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 16 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:2                                   |
|                                                                                     | Torque max [Nm]:                                                | 12                                    |
|                                                                                     | Rotation max [1/min]:                                           | 12000                                 |
|                                                                                     | Rotating direction:                                             | opposite                              |
|                                                                                     | Coolant:                                                        | EXT                                   |
|                                                                                     | Please note:                                                    | Note swivel range !                   |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
|   | <b>8 040 65 004 Universal head ± 90° adjustable ER 25 AX UT</b> |                                       |
|                                                                                     | Weight [kg]:                                                    | 6.000                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 25 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:1                                   |
|                                                                                     | Torque max [Nm]:                                                | 25                                    |
|                                                                                     | Rotation max [1/min]:                                           | 6000                                  |
|                                                                                     | Rotating direction:                                             | opposite                              |
|                                                                                     | Coolant:                                                        | EXT                                   |
|                                                                                     | Please note:                                                    | Note swivel range !; stronger bearing |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
| <b>8 040 65 008</b>                                                                 | <b>Universal head ± 90° adjustable ER 25 AX UT IC</b>           |                                       |
|                                                                                     | Weight [kg]:                                                    | 5.990                                 |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 25 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:1                                   |
|                                                                                     | Torque max [Nm]:                                                | 25                                    |
|                                                                                     | Rotation max [1/min]:                                           | 6000                                  |
|                                                                                     | Rotating direction:                                             | opposite                              |
|                                                                                     | Coolant:                                                        | IC/Ext                                |
|                                                                                     | Pressure max [bar]:                                             | 140                                   |
|                                                                                     | Please note:                                                    | Note swivel range !                   |
|                                                                                     | Center distance [mm]:                                           | 81                                    |
|  | <b>8 040 65 019 Universal head ± 90° adjustable ER 25 AX UT</b> |                                       |
|                                                                                     | Weight [kg]:                                                    | 6.000                                 |
|                                                                                     | Version:                                                        | at 45° position can be pinned         |
|                                                                                     | Tool drive:                                                     | Flat (~DIN 1809)                      |
|                                                                                     | Shank size [mm]:                                                | 60.00                                 |
|                                                                                     | Shank type:                                                     | BMT                                   |
|                                                                                     | Tool adaption:                                                  | ER 25 A - u-tec                       |
|                                                                                     | Gear ratio [i]:                                                 | 1:1                                   |
|                                                                                     | Torque max [Nm]:                                                | 25                                    |
|                                                                                     | Rotation max [1/min]:                                           | 10000                                 |

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

# Takisawa

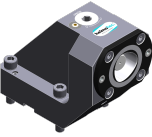
## TS 4000 SY/YSG T 12

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

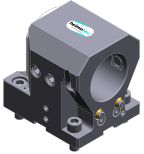
| Part-#              | Name                                         |
|---------------------|----------------------------------------------|
| <b>8 224 15 014</b> | <b>Universal turning holder sq. 1"</b>       |
|                     | Weight [kg]: 5.560                           |
|               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

# Takisawa

## TS 4000 SY/YSG T 12

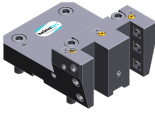
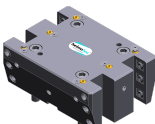
| Part-#                                                                              | Name                              |                                        |
|-------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|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

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

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

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

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

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

Takisawa  
TS 4000 SY/YSG T 12

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



● heimatec overseas branches

○ global representations of heimatec

**heimatec**<sup>®</sup>

**heimatec GmbH**  
Präzisionswerkzeuge  
Carl-Benz-Str. 4  
77871 Renchen  
Germany

T +49 7843 9466 0  
[www.heimatec.com](http://www.heimatec.com)  
[info@heimatec.com](mailto:info@heimatec.com)

Please find the contact details of our worldwide trading partners on our website:  
<https://heimatec.com/business-partners>