

TSUGAMI

- M06D
- M06SD
- M06SY
- M08D
- M08SD
- M08SY

Toolholder Program

# TS65



**TSUGAMI**


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M06D

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M06SD

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M06SY

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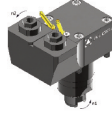




M08D

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M08SD

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M08SY

| TS65  | Version       | Tools Clamping | Center Height | Max. speed        | Ratio             | External          | Internal          | Page |
|---|---------------|----------------|---------------|-------------------|-------------------|-------------------|-------------------|------|
|    | 0°            | ER25 - DIN6499 |               | 8000rpm           | i=1:1             | RAPPS 25 121UTS65 | RAPPS 25 131UTS65 | 4    |
|   |               | ER32 - DIN6499 |               | 8000rpm           | i=1:1             | RAPPS 32 121UTS65 | RAPPS 32 131UTS65 | 4    |
|   |               | ER25 - DIN6499 |               | 8000rpm           | i=1:1             | RAPPD 25 121UTS65 | RAPPD 25 131UTS65 | 5    |
|   | 0° Double     | ER20 - DIN6499 |               | 6000rpm           | i=1:1             | RAPPTY20 121UTS65 |                   | 6    |
|  | 90°           | ER25 - DIN6499 | 65 mm         | 8000rpm           | i=1:1             | RRPPS 25 121UTS65 | RRPPS 25 131UTS65 | 7    |
|   |               | ER32 - DIN6499 | 65 mm         | 8000rpm           | i=1:1             | RRPPS 32 121UTS65 | RRPPS 32 131UTS65 | 7    |
|   |               | ER25 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPS 25 321UTS65 |                   | 7    |
|   |               | ER32 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPS 32 321UTS65 | RRPPS 32 331UTS65 | 7    |
|   |               | ER32 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPS 32 321RTS65 |                   | 7    |
|   |               | ER25 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPA 25 321UTS65 | RRPPA 25 331UTS65 | 8    |
| ER32 - DIN6499  | 85 mm         | 8000rpm        | i=1:1         | RRPPA 32 321UTS65 | RRPPS 32 331UTS65 | 8                 |                   |      |
|  | 90° Double    | ER25 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPTA25 321UTS65 |                   | 9    |
|   |               | ER32 - DIN6499 | 85 mm         | 8000rpm           | i=1:1             | RRPPTA32 321UTS65 |                   | 9    |
|  | 90° Quadruple | ER20 - DIN6499 | 103 mm        | 6000rpm           | i=1:1             | RRPPQY20 421UTS65 |                   | 9    |
|  | ±90°          | ER20 - DIN6499 |               | 6000rpm           | i=1:1             | ROPPS 20 121UTS65 | ROPPS 20 131UTS65 | 10   |

**TSUGAMI**


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M08D

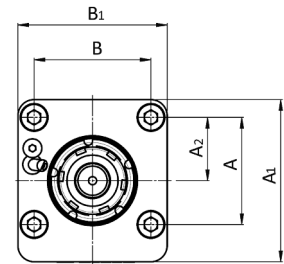
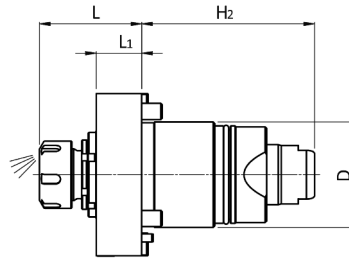
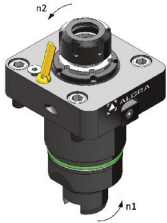
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M08SD

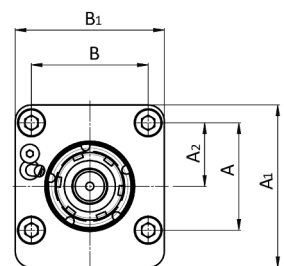
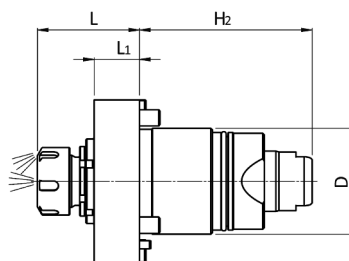
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




M08SY

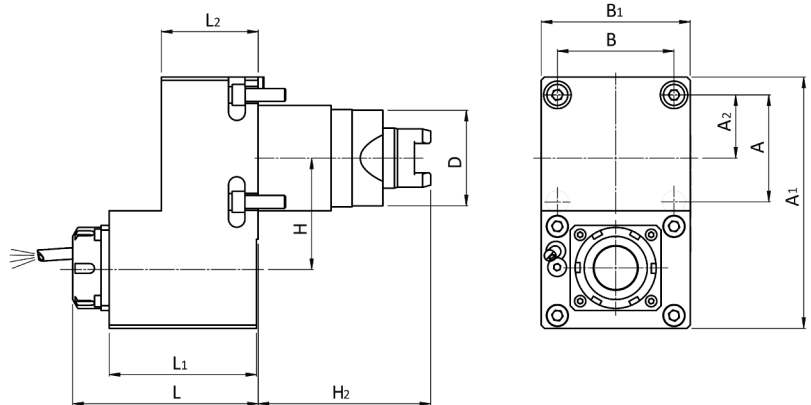
| TS65   | Version   | Tools Clamping | Center Height | Coolant  | ALGRA Part No.          | Page |
|--|---|----------------|---------------|----------|-------------------------|------|
|    | O.D. cutting holder                             | □ 25mm         | H:65mm        | External | E10/US 25 TS65X65       | 11   |
|  |   | □ 1"           | H:65mm        | External | E10/US 1" TS65X65       | 11   |
|    | O.D. double holder                              | □ 25mm         | H:65mm        | External | E10/UD 25 TS65X65       | 11   |
|  |   | □ 1"           | H:65mm        | External | E10/UD 1" TS65X65       | 11   |
|   | O.D. Y-axis double toolholders for both spindle | □ 20mm         | H:85mm        | External | E10/UQ 20 TS65X85       | 12   |
|  |   | □ 0.75"        | H:85mm        | External | E10/UQ 0.75" TS65X85    | 12   |
|  | Face and I.D. cutting holder                    | □ 25mm         | H:100mm       | External | E10/UA 25 TS65X100      | 12   |
|  |   | □ 1"           | H:100mm       | External | E10/UA 1" TS65X100      | 12   |
|  | Blade holder                                    | ∅ 32mm         | H:93mm        | External | E10/TT 32 TS65X93       | 13   |
|  | Boring Bar holder                               | ∅ 40mm         | H:85mm        | Int/Ext  | E10/B 40 TS65X85        | 13   |
|  |   | ∅ 1.5"         | H:85mm        | Int/Ext  | E10/B 1.5" TS65X85      | 13   |
|  | Boring Bar holder                               | ∅ 40mm         | H:101mm       | Int/Ext  | E10/BA 40 TS65X101      | 14   |
|  |   | ∅ 1.5"         | H:101mm       | Int/Ext  | E10/BA 1.5" TS65X101    | 14   |
|  | Boring Bar holder                               | ∅ 40mm         | H:54mm/101mm  | Int/Ext  | E10/BD 40 TS65X54/101   | 14   |
|  |   | ∅ 1.5"         | H:54mm/101mm  | Int/Ext  | E10/BA 1.5" TS65X54/101 | 14   |







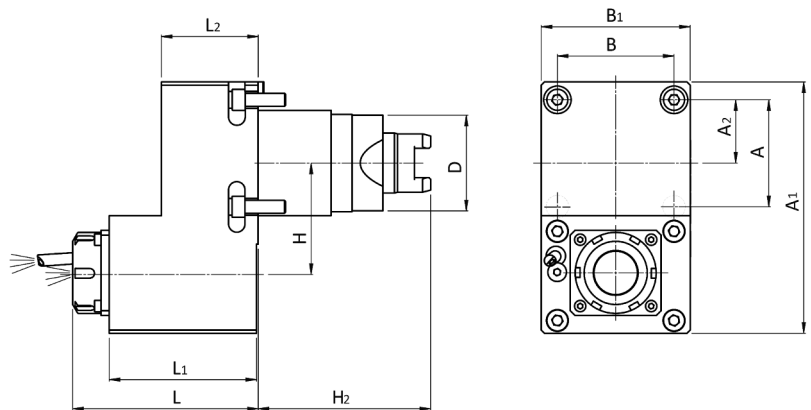
| 1/TS65   |   |   | Codice                    | D  | ER | H | H1 | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|--|---|---|---------------------------|----|----|---|----|-------|-----------|----|----|----|----|-----|----|----|----|----------------|----------------|----|
|  |   |   | code - code - Bestell Nr. |    |    |   |    |       | (min-max) |    |    |    |    |     |    |    |    | Nm             | min-1          | kW |
| 0°   |  |  | RAPPS 25 121UTS65         | 65 | 25 |   |    | 106,5 | 55-60     | 28 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|  |   |   | RAPPS 32 121UTS65         | 65 | 32 |   |    | 106,5 | 62-67     | 28 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|  |   |   |                           |    |    |   |    |       |           |    |    |    |    |     |    |    |    |                |                |    |









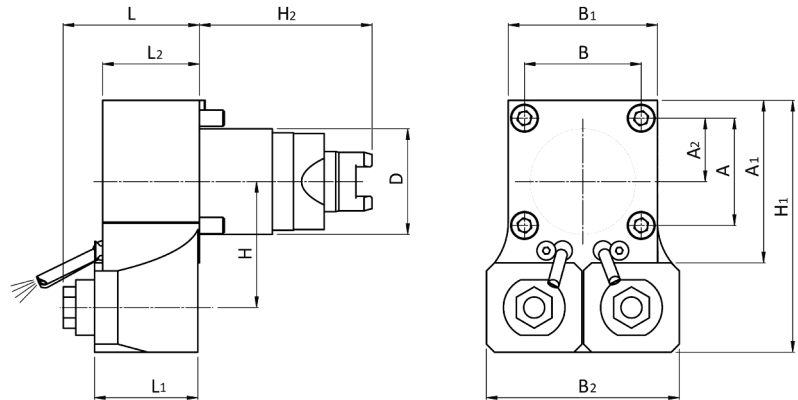
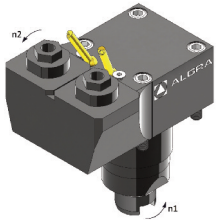
| 2/TS65  |   |   | Codice                    | D  | ER | H | H1 | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|---|---|---|---------------------------|----|----|---|----|-------|-----------|----|----|----|----|-----|----|----|----|----------------|----------------|----|
|   |   |   | code - code - Bestell Nr. |    |    |   |    |       | (min-max) |    |    |    |    |     |    |    |    | Nm             | min-1          | kW |
| 0°  |  |  | RAPPS 25 131UTS65         | 65 | 25 |   |    | 106,5 | 55-60     | 28 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|   |   |   | RAPPS 32 131UTS65         | 65 | 32 |   |    | 106,5 | 62-67     | 28 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|  |   |   |                           |    |    |   |    |       |           |    |    |    |    |     |    |    |    |                |                |    |
|  |   |   |                           |    |    |   |    |       |           |    |    |    |    |     |    |    |    |                |                |    |
|  |   |   |                           |    |    |   |    |       |           |    |    |    |    |     |    |    |    |                |                |    |






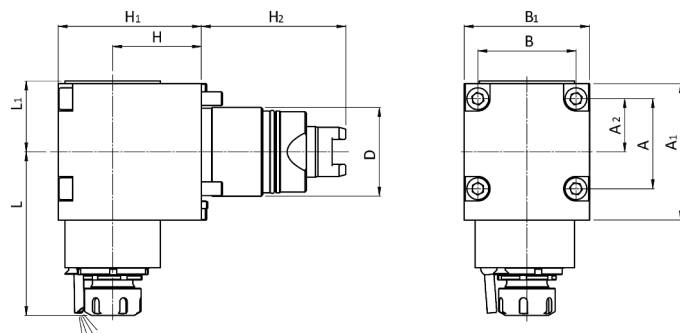
| 3/TS65  |  |  | Codice                    | D  | ER | H  | H1 | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|---|--|--|---------------------------|----|----|----|----|-------|-----------|----|----|----|----|-----|----|----|----|----------------|----------------|----|
|   |  |  | code - code - Bestell Nr. |    |    |    |    |       | (min-max) |    |    |    |    |     |    |    |    | Nm             | min-1          | kW |
|    |  |  | <b>RAPPD 25 121UTS65</b>  | 65 | 25 | 55 |    | 106,5 | 93-98     | 90 | 60 | 66 | 72 | 155 | 96 | 39 |    | 40             | 8000           | 8  |
|   |  |  |                           |    |    |    |    |       |           |    |    |    |    |     |    |    |    |                |                |    |







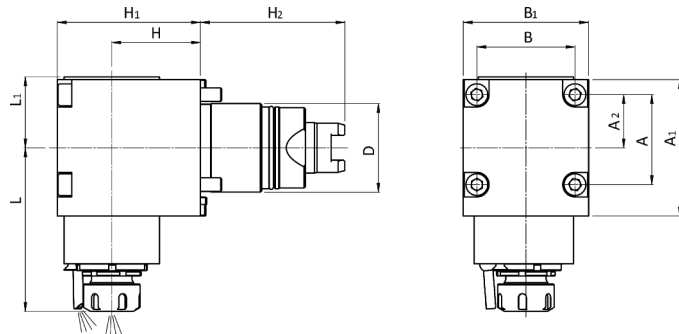
| 4/TS65  |  |  | Codice                    | D  | ER | H  | H1 | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|---|--|--|---------------------------|----|----|----|----|-------|-----------|----|----|----|----|-----|----|----|----|----------------|----------------|----|
|   |  |  | code - code - Bestell Nr. |    |    |    |    |       | (min-max) |    |    |    |    |     |    |    |    | Nm             | min-1          | kW |
|    |  |  | <b>RAPPD 25 131UTS65</b>  | 65 | 25 | 55 |    | 106,5 | 93-98     | 90 | 60 | 66 | 72 | 155 | 96 | 39 |    | 40             | 8000           | 8  |
|    |  |  |                           |    |    |    |    |       |           |    |    |    |    |     |    |    |    |                |                |    |








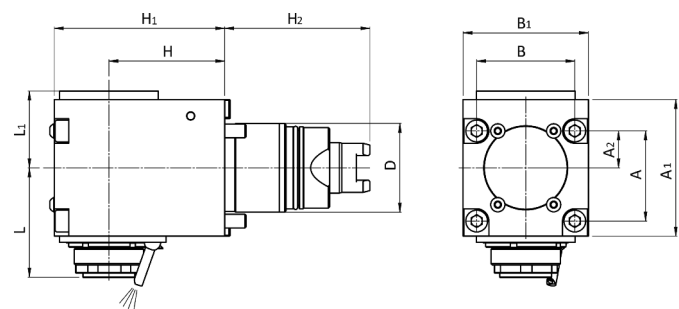
| 5/TS65  |  |  | Codice                    | D  | ER | H    | H1  | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2  | M <sub>2</sub> | n <sub>2</sub> | P   |
|---|--|--|---------------------------|----|----|------|-----|-------|-----------|----|----|----|----|-----|----|----|-----|----------------|----------------|-----|
|   |  |  | code - code - Bestell Nr. |    |    |      |     |       | (min-max) |    |    |    |    |     |    |    |     | Nm             | min-1          | kW  |
|    |  |  | <b>RAPPTY20 121UTS65</b>  | 65 | 20 | 77,5 | 155 | 106,5 | 84-89     | 76 | 60 | 66 | 72 | 100 | 92 | 39 | 119 | 45             | 6000           | 4,5 |
|   |  |  |                           |    |    |      |     |       |           |    |    |    |    |     |    |    |     |                |                |     |






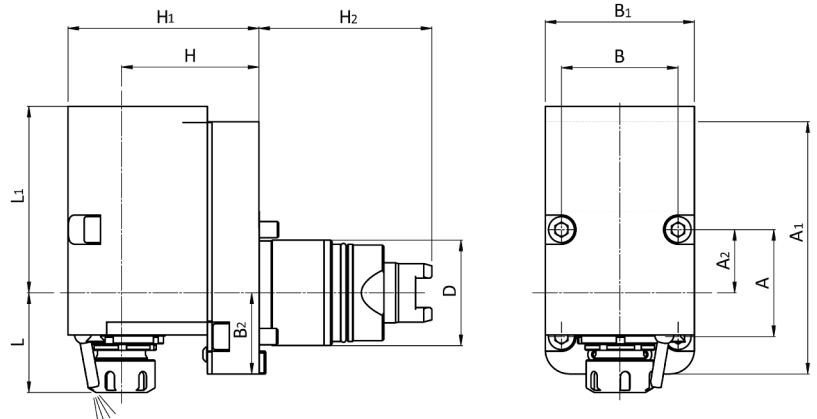
| 6/TS65  |  |  | Codice                    | D  | ER | H  | H1  | H2    | L         | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|---|--|--|---------------------------|----|----|----|-----|-------|-----------|----|----|----|----|-----|----|----|----|----------------|----------------|----|
|   |  |  | code - code - Bestell Nr. |    |    |    |     |       | (min-max) |    |    |    |    |     |    |    |    | Nm             | min-1          | kW |
|    |  |  | <b>RRPPS 25 121UTS65</b>  | 65 | 25 | 65 | 105 | 106,5 | 117,3-120 | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|   |  |  | <b>RRPPS 32 121UTS65</b>  | 65 | 32 | 65 | 105 | 106,5 | 124-127   | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|   |  |  | <b>RRPPS 25 321UTS65</b>  | 65 | 25 | 85 | 118 | 106,5 | 117,3-120 | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|   |  |  | <b>RRPPS 32 321UTS65</b>  | 65 | 32 | 85 | 118 | 106,5 | 117,3-120 | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40             | 8000           | 8  |
|    |  |  |                           |    |    |    |     |       |           |    |    |    |    |     |    |    |    |                |                |    |






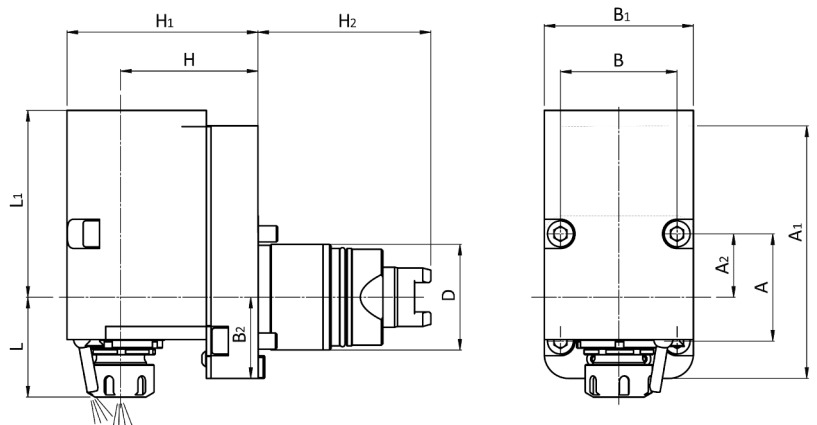
| 7/TS65   |  |  | Codice<br>code - code - Bestell Nr. | D  | ER | H  | H1  | H2    | L<br>(min-max) | L1 | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub><br>Nm | n <sub>2</sub><br>min-1 | P<br>kW |
|--|--|--|-------------------------------------|----|----|----|-----|-------|----------------|----|----|----|----|-----|----|----|----|----------------------|-------------------------|---------|
| 90°  |   |   | RRPPS 25 121UTS65                   | 65 | 25 | 65 | 105 | 106,5 | 117-122        | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40                   | 8000                    | 8       |
|  |  |  | RRPPS 32 121UTS65                   | 65 | 32 | 65 | 105 | 106,5 | 124-127        | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40                   | 8000                    | 8       |
|  |  |  | RRPPS 25 321UTS65                   | 65 | 25 | 85 | 118 | 106,5 | 117-122        | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40                   | 8000                    | 8       |
|  |  |  | RRPPS 32 321UTS65                   | 65 | 32 | 85 | 118 | 106,5 | 124-127        | 60 |    | 66 | 72 | 100 | 92 | 39 |    | 40                   | 8000                    | 8       |








| 8/TS65  |   |   | Codice<br>code - code - Bestell Nr. | D  | ER | H  | H1  | H2    | L<br>(min-max) | L1   | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub><br>Nm | n <sub>2</sub><br>min-1 | P<br>kW |
|---|---|---|-------------------------------------|----|----|----|-----|-------|----------------|------|----|----|----|-----|----|----|----|----------------------|-------------------------|---------|
| 90°   |  |  | RRPPS 32 321RTS65                   | 65 | 32 | 85 | 125 | 106,5 | 76-81          | 56,5 |    | 66 | 72 | 100 | 92 | 27 |    | 70                   | 8000                    | 8       |
|  |   |   |                                     |    |    |    |     |       |                |      |    |    |    |     |    |    |    |                      |                         |         |

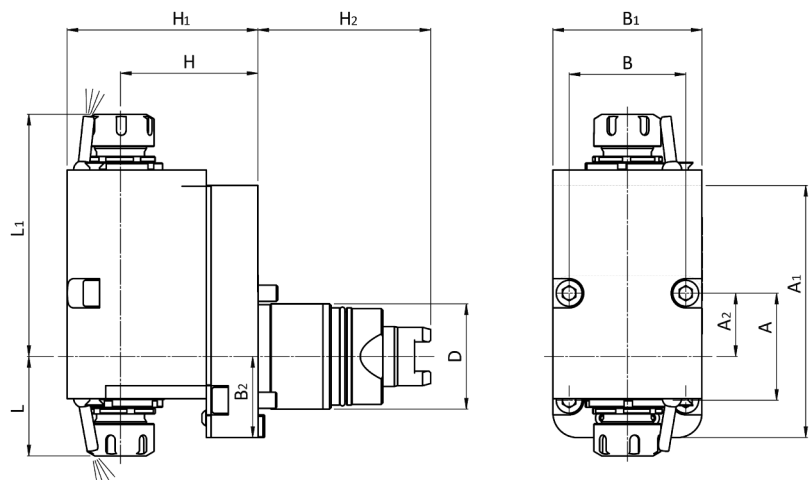





| 9/TS65   |   |   | Codice                    | D  | ER | H  | H1  | H2    | L         | L1  | L2  | A  | B  | A1  | B1  | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P    |
|--|---|---|---------------------------|----|----|----|-----|-------|-----------|-----|-----|----|----|-----|-----|----|----|----------------|----------------|------|
|  |   |   | code - code - Bestell Nr. |    |    |    |     |       | (min-max) |     |     |    |    |     |     |    |    | Nm             | min-1          | kW   |
| 90°  |  |  | RRPPA 25 321UTS65         | 65 | 25 | 85 | 118 | 106,5 | 58-63     | 115 |     | 66 | 72 | 155 | 92  | 39 |    | 40             | 8000           | 8    |
|  |   |   | RRPPA 32 321UTS65         | 65 | 32 | 85 | 118 | 106,5 | 65÷70     |     | 115 |    | 66 | 72  | 155 | 92 | 39 |                | 40             | 8000 |
|  |   |   |                           |    |    |    |     |       |           |     |     |    |    |     |     |    |    |                |                |      |

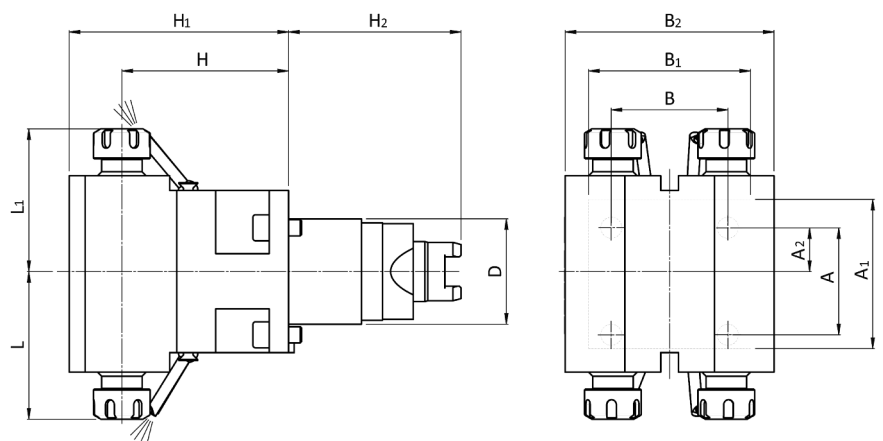





| 10/TS65   |   |   | Codice                    | D  | ER | H  | H1  | H2    | L         | L1  | L2  | A  | B  | A1  | B1  | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P    |
|---|---|---|---------------------------|----|----|----|-----|-------|-----------|-----|-----|----|----|-----|-----|----|----|----------------|----------------|------|
|   |   |   | code - code - Bestell Nr. |    |    |    |     |       | (min-max) |     |     |    |    |     |     |    |    | Nm             | min-1          | kW   |
| 90°   |  |  | RRPPA 25 331UTS65         | 65 | 25 | 85 | 118 | 106,5 | 57,8-61,5 | 115 |     | 66 | 72 | 155 | 92  | 39 | 50 | 40             | 8000           | 8    |
|   |   |   | RRPPA 32 331UTS65         | 65 | 32 | 85 | 118 | 106,5 | 65÷70     |     | 115 |    | 66 | 72  | 155 | 92 | 39 |                | 40             | 8000 |
|  |  |  |                           |    |    |    |     |       |           |     |     |    |    |     |     |    |    |                |                |      |

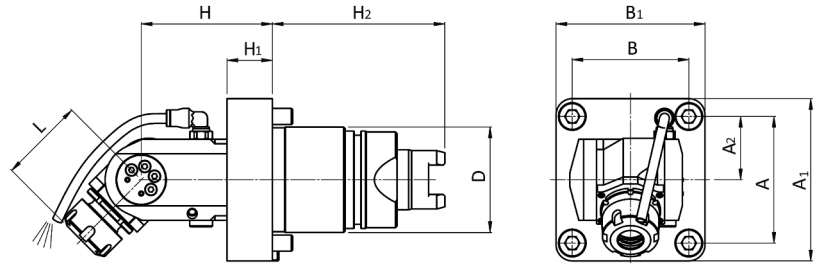


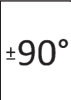

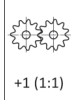



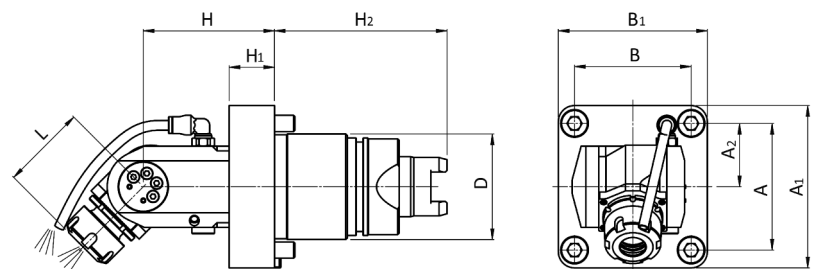
| 11/TS65  |   | Codice  | D                 | ER | H  | H1 | H2  | L         | L1        | L2  | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub> | n <sub>2</sub> | P  |
|--|---|---|-------------------|----|----|----|-----|-----------|-----------|-----|----|----|-----|----|----|----|----------------|----------------|----|
|  |   | code - code - Bestell Nr.   |                   |    |    |    |     | (min-max) |           |     |    |    |     |    |    |    | Nm             | min-1          | kW |
| 90°  |  |  | RRPPTA25 321UTS65 | 65 | 25 | 85 | 118 | 106,5     | 56,5-61,5 | 150 | 66 | 72 | 155 | 92 | 39 | 40 | 8000           | 8              |    |
|  |   |   | RRPPTA32 321UTS65 | 65 | 32 | 85 | 118 | 106,5     | 65-70     | 150 | 66 | 72 | 155 | 92 | 39 | 40 | 8000           | 8              |    |
|  | EXTERNAL  |   |                   |    |    |    |     |           |           |     |    |    |     |    |    |    |                |                |    |









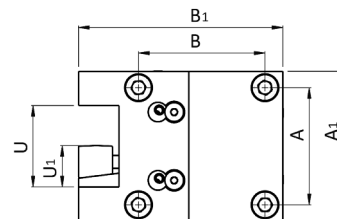
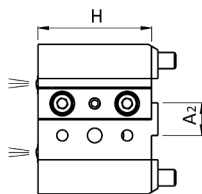
| 12/TS65   |   | Codice  | D                 | ER | H  | H1  | H2  | L         | L1    | L2 | A  | B  | A1  | B1 | A2 | B2  | M <sub>2</sub> | n <sub>2</sub> | P   |
|---|---|---|-------------------|----|----|-----|-----|-----------|-------|----|----|----|-----|----|----|-----|----------------|----------------|-----|
|   |   | code - code - Bestell Nr.   |                   |    |    |     |     | (min-max) |       |    |    |    |     |    |    |     | Nm             | min-1          | kW  |
| 90°   |  |  | RRPPQY20 421UTS65 | 65 | 20 | 103 | 136 | 106,5     | 83-88 | 91 | 66 | 72 | 100 | 92 | 27 | 129 | 40             | 6000           | 3,5 |
|   |   |   |                   |    |    |     |     |           |       |    |    |    |     |    |    |     |                |                |     |
|  | EXTERNAL  |   |                   |    |    |     |     |           |       |    |    |    |     |    |    |     |                |                |     |





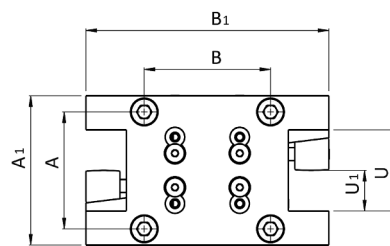
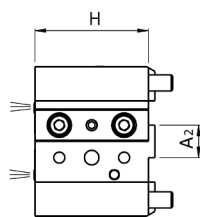
| 13/TS65   |  | Codice<br>code - code - Bestell Nr. | D  | ER | H  | H1 | H2 | L<br>(min-max) | L1  | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub><br>Nm | n <sub>2</sub><br>min-1 | P<br>kW |
|---|--|-------------------------------------|----|----|----|----|----|----------------|-----|----|----|----|-----|----|----|----|----------------------|-------------------------|---------|
|    |  | <b>ROPPS 20 121UTS65</b>            | 65 | 20 | 65 | 12 |    | 49-52          | 115 |    | 66 | 72 | 100 | 92 | 39 |    | 15                   | 8000                    | 3       |
|   |  |                                     |    |    |    |    |    |                |     |    |    |    |     |    |    |    |                      |                         |         |





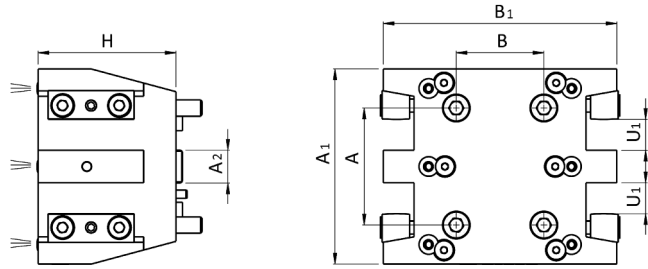
| 14/TS65   |  | Codice<br>code - code - Bestell Nr. | D  | ER | H  | H1 | H2 | L<br>(min-max) | L1  | L2 | A  | B  | A1  | B1 | A2 | B2 | M <sub>2</sub><br>Nm | n <sub>2</sub><br>min-1 | P<br>kW |
|---|--|-------------------------------------|----|----|----|----|----|----------------|-----|----|----|----|-----|----|----|----|----------------------|-------------------------|---------|
|    |  | <b>ROPPS 20 131UTS65</b>            | 65 | 20 | 65 | 12 |    | 49-52          | 115 |    | 66 | 72 | 100 | 92 | 39 |    | 15                   | 8000                    | 3       |
|    |  |                                     |    |    |    |    |    |                |     |    |    |    |     |    |    |    |                      |                         |         |

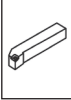



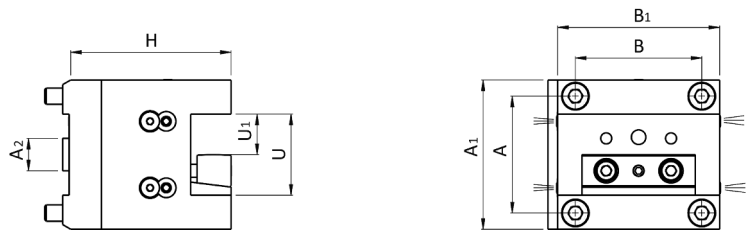
| 101/TS65  |                   | Codice<br>code - code - Bestell Nr. | U  | U1 | U2 | H  | H1 | H2 | H3 | A  | B  | A1 | B1  | A2 | B2 | B3 |
|---|-------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|
|  <br>EXTERNAL | E10/US 25 TS65X70 |                                     | 50 | 25 |    | 70 |    |    |    | 72 | 78 | 92 | 126 | 20 |    |    |
|   | E10/US 1" TS65X70 |                                     | 2" | 1" |    | 70 |    |    |    | 72 | 78 | 92 | 126 | 20 |    |    |





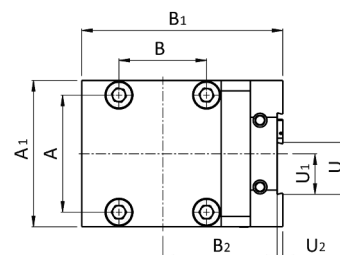
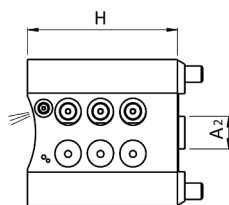
| 102/TS65  |                   | Codice<br>code - code - Bestell Nr. | U  | U1 | U2 | H  | H1 | H2 | H3 | A  | B  | A1 | B1  | A2 | B2 | B3 |
|---|-------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|
|  <br>EXTERNAL | E10/UD 25 TS65X70 |                                     | 50 | 25 |    | 70 |    |    |    | 72 | 78 | 92 | 150 | 20 |    |    |
|   | E10/UD 1" TS65X70 |                                     | 2" | 1" |    | 70 |    |    |    | 72 | 78 | 92 | 126 | 20 |    |    |



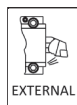
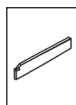
| 103/TS65  |  | Codice                    | U | U1    | U2 | H  | H1 | H2 | H3 | A  | B  | A1  | B1  | A2 | B2 | B3 |
|---|--|---------------------------|---|-------|----|----|----|----|----|----|----|-----|-----|----|----|----|
|   |  | code - code - Bestell Nr. |   |       |    |    |    |    |    |    |    |     |     |    |    |    |
|  <br>EXTERNAL |  | E10/UQ 20 TS65X85         |   | 20    |    | 85 |    |    |    | 72 | 54 | 120 | 144 | 20 |    |    |
|   |  | E10/UQ 0.75" TS65X85      |   | 0.75" |    | 85 |    |    |    | 72 | 54 | 120 | 144 | 20 |    |    |



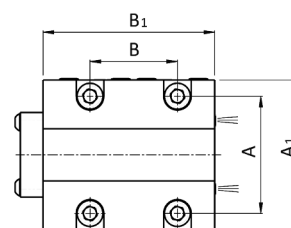
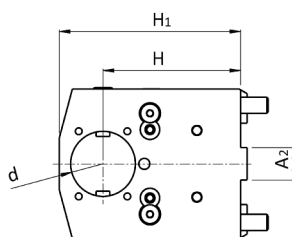
| 104/TS65  |  | Codice                    | U  | U1 | U2 | H   | H1 | H2 | H3 | A  | B  | A1 | B1  | A2 | B2 | B3 |
|---|--|---------------------------|----|----|----|-----|----|----|----|----|----|----|-----|----|----|----|
|   |  | code - code - Bestell Nr. |    |    |    |     |    |    |    |    |    |    |     |    |    |    |
|  <br>EXTERNAL |  | E10/UA 25 TS65X100        | 50 | 25 |    | 100 |    |    |    | 72 | 78 | 92 | 100 | 20 |    |    |
|   |  | E10/UA 1" TS65X100        | 2" | 1" |    | 100 |    |    |    | 72 | 78 | 92 | 100 | 20 |    |    |



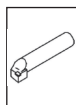
| 105/TS65 | Codice<br>code - code - Bestell Nr. | U  | U1 | U2   | H  | H1 | H2 | H3 | A  | B  | A1 | B1  | A2 | B2   | B3 |
|----------|-------------------------------------|----|----|------|----|----|----|----|----|----|----|-----|----|------|----|
|          | E10/TT 32 TS65X93                   | 32 | 25 | 2,36 | 93 |    |    |    | 72 | 54 | 90 | 124 | 20 | 70,5 |    |



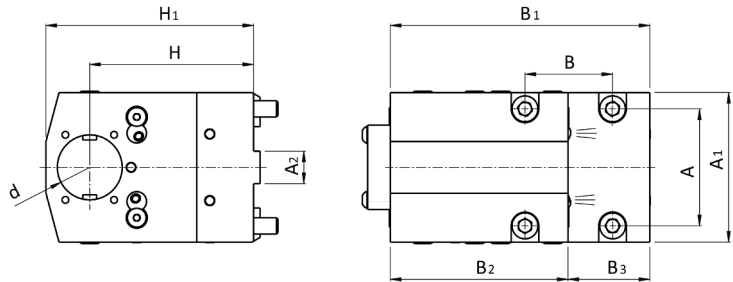
EXTERNAL





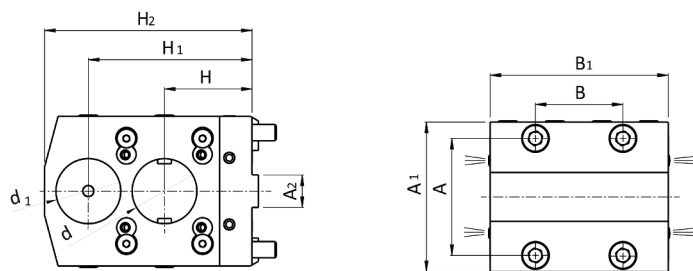
| 106/TS65 | Codice<br>code - code - Bestell Nr. | d      | d1 | d2 | H  | H1  | H2 | H3 | A  | B  | A1 | B1  | A2 | B2 | B3 |
|----------|-------------------------------------|--------|----|----|----|-----|----|----|----|----|----|-----|----|----|----|
|          | E10/B 40 TS65X85                    | Ø 40   |    |    | 85 | 112 |    |    | 72 | 54 | 92 | 106 | 20 |    |    |
|          | E10/B 1.5" TS65X85                  | Ø 1,5" |    |    | 85 | 112 |    |    | 72 | 54 | 92 | 106 | 20 |    |    |





INT./EXT.



| 107/TS65   |  | Codice                    | d      | d1 | d2 | H   | H1  | H2 | H3 | A  | B  | A1 | B1  | A2 | B2  | B3 |
|--|--|---------------------------|--------|----|----|-----|-----|----|----|----|----|----|-----|----|-----|----|
|  |  | code - code - Bestell Nr. |        |    |    |     |     |    |    |    |    |    |     |    |     |    |
|  <br>INT./EXT. |  | E10/BA 40 TS65X101        | Ø 40   |    |    | 101 | 128 |    |    | 72 | 54 | 92 | 160 | 20 | 110 | 50 |
|  |  | E10/BA 1.5" TS65X101      | Ø 1.5" |    |    | 101 | 128 |    |    | 72 | 54 | 92 | 160 | 20 | 110 | 50 |



| 108/TS65   |  | Codice                    | d      | d1 | d2 | H  | H1  | H2  | H3 | A  | B  | A1 | B1  | A2 | B2 | B3 |
|--|--|---------------------------|--------|----|----|----|-----|-----|----|----|----|----|-----|----|----|----|
|  |  | code - code - Bestell Nr. |        |    |    |    |     |     |    |    |    |    |     |    |    |    |
|  <br>INT./EXT. |  | E10/BD 40 TS65X54/101     | Ø 40   | 40 |    | 54 | 101 | 128 |    | 72 | 54 | 92 | 110 | 20 |    |    |
|  |  | E10/BD 1.5" TS65X54/101   | Ø 1.5" | 1" |    | 54 | 101 | 128 |    | 72 | 54 | 92 | 110 | 20 |    |    |

**La produzione:  
il lavoro**

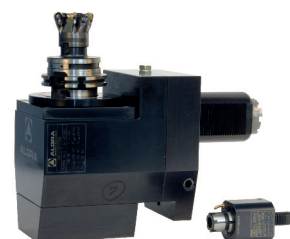
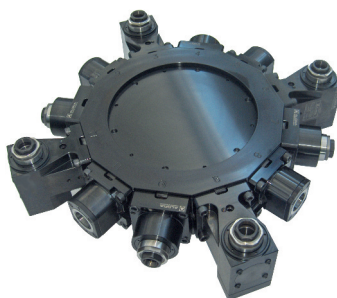
Production:  
work

La produzione viene sviluppata nella moderna struttura a temperatura controllata di Almenno San Salvatore, mentre negli stabilimenti di Brembilla (I-Bergamo) vengono effettuate le lavorazioni di montaggio ed assemblaggio di gruppi completi. La superficie coperta delle strutture è di mq. 15.000, dei quali mq. 1.000 sono adibiti agli uffici amministrativi, commerciali e tecnici. L'attività produttiva si svolge con l'utilizzo di impianti e macchinari CNC costantemente aggiornati alle nuove tecnologie ed in grado di sviluppare le seguenti lavorazioni:

- Asportazione di truciolo
- Elettroerosione
- Tornitura orizzontale e verticale
- Fresatura universale 5 assi
- Fresatura/tornitura
- Lappatura per fori e piani
- Rettifica in tondo interno ed esterno
- Rettifica in tangenziale oltre al montaggio di gruppi e sottogruppi completi.

*The production is developed in the modern, temperature controlled facility in Almenno San Salvatore, with Brembilla factories there are the assembly operations and the assembly of complete groups. The facilities covered area is of 15,000 sqm., 1,000 sqm. of which are used for the administrative commercial and technical offices. The production cycle takes place with the use of CNC fixtures and equipment constantly updated with new technologies and able to develop the following machining:*

- Chip machining
- Electroerosion
- Horizontal and vertical turning
- 5-axis universal milling
- Milling/turning
- Lapping for holes and plane surfaces
- Cylindrical internal and external grinding
- Tangential grinding in addition to the assembly of complete groups and subassemblies.



**Certificazioni:  
uno standard  
qualitativo**

Certification:  
a quality  
standard

La tecnologia avanzata svolge un ruolo chiave nell'obiettivo di incrementare il proprio valore, quello dei propri prodotti, dei servizi e della capacità del personale, operando nel rispetto delle norme UNI EN ISO 9001:2008 e ISO 14001:2004. L'alto livello di sensibilità verso il rispetto delle regole di sicurezza e dell'ambiente è presente ed immediatamente percepito in tutte le strutture aziendali.

*Advanced technology plays a key role aiming to increase its value and the products, services and staff capacity value, operating in compliance with UNI EN ISO 9001:2008 and ISO 14001:2004.*

*The high level of sensitivity towards the observance of safety rules and the environment is present and perceived immediately in all facilities.*



UNI EN ISO 9001:2008 - Cert. n° 0141



UNI EN ISO 14001:2004 - Cert. n° 0270A



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