

ANGLE HEAD FORTE WWX

ANGLE HEAD 90° – RESET OUTPUT SPINDLE

Angle head for machining for spatial constraint / maximum useable tool length
Product versions: external cooling (EC), internal cooling (IC) or EC/IC combination



1 TAPER



2 TORQUE ARM

optional: customized torque arm
more information on page 25

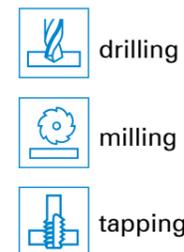
3 FRONT HEAD (SIZE)



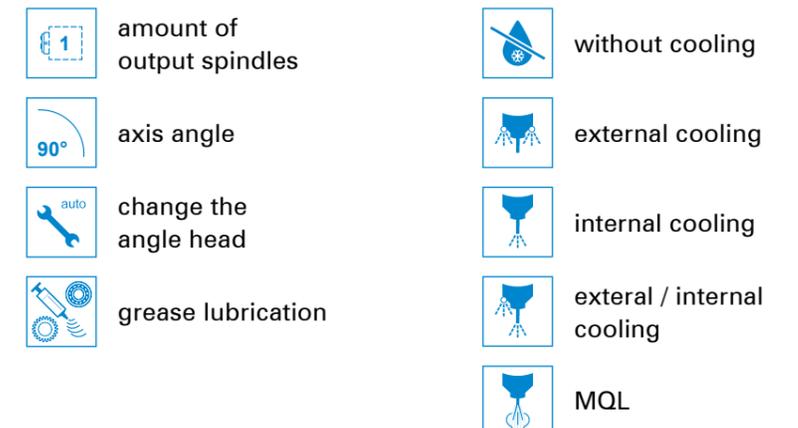
4 OUTPUT SPINDLE



MACHINING



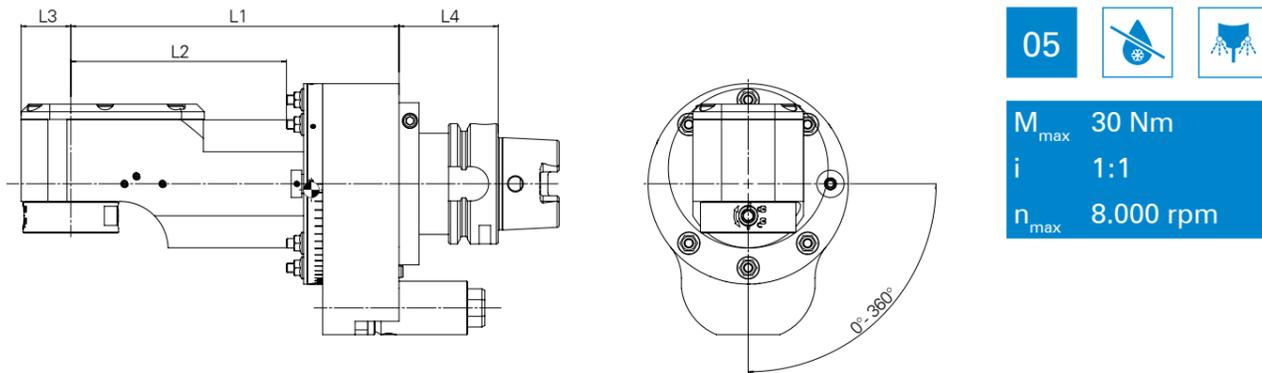
SPECIFICATIONS



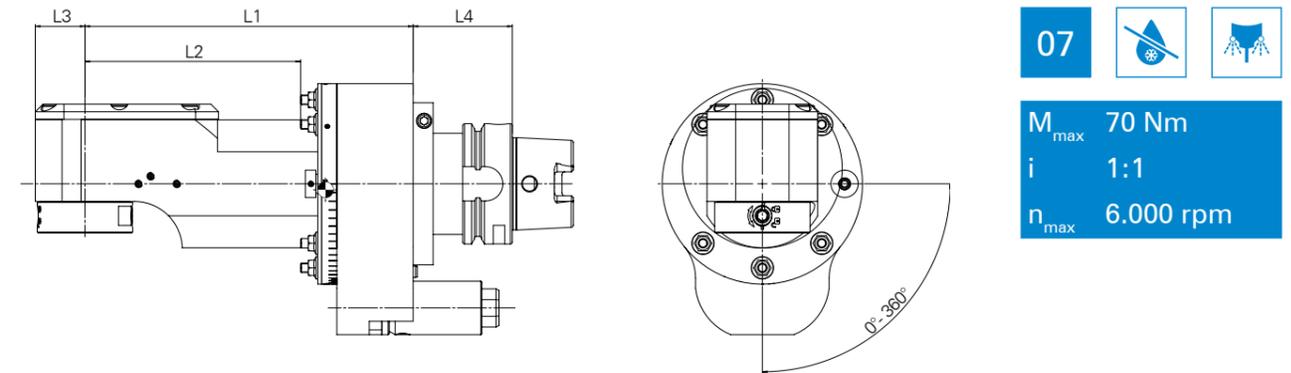
ANGLE HEAD FORTE WWX (EC)

FORTE WWX (EC)

TECHNICAL DATA



TECHNICAL DATA

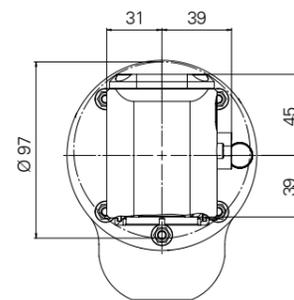
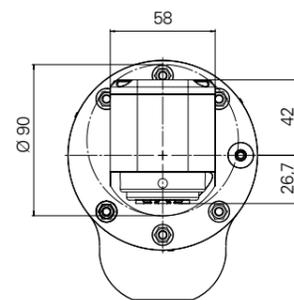
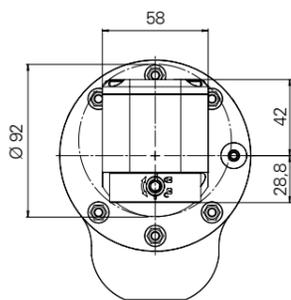


OUTPUT SPINDLE

BENZ Solidfix®-S3

Collet chuck-ER 25A

BENZ CAPTO™-C3

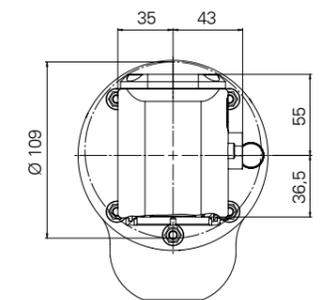
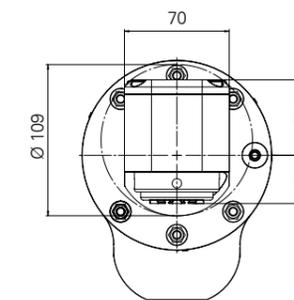
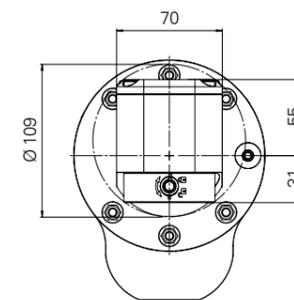


OUTPUT SPINDLE

BENZ Solidfix®-S4

Collet chuck-ER32A

BENZ CAPTO™-C4



 technical data for other output spindles on request

 technical data for other output spindles on request

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | |  |
|-----------|----------------|---------|---|
| | L1 [mm] | L2 [mm] | |
| 05 | 125 | 63,5 | 5,0 |
| | 172 | 110,5 | 5,8 |
| | 232 | 170,5 | 6,6 |

| Type Size | Technical data | |  |
|-----------|----------------|--------|---|
| | L3 [mm] | + [mm] | |
| S3 | 26 | 0 | 0 |
| ER25A | 26 | 0 | 0 |
| C3 | 30 | 0,6 | 0,6 |

| Type Size | Technical data | |  |
|-------------------------|----------------|--------|---|
| | L4 [mm] | + [mm] | |
| HSK-A63 | 52 | 0 | 0 |
| HSK-A100 | 55 | 1,7 | 1,7 |
| Capto C6 SK40 CAT40 | 45 | 0,1 | 0,1 |
| Capto C8 | 45 | 1 | 1 |
| SK50 CAT50 | 45 | 2,2 | 2,2 |
| BT40 | 53 | 0,4 | 0,4 |
| BT50 | 60 | 3,5 | 3,5 |

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | |  |
|-----------|----------------|---------|---|
| | L1 [mm] | L2 [mm] | |
| 07 | 155 | 93,5 | 7,6 |
| | 200 | 138,5 | 8,6 |
| | 253 | 191,5 | 9,2 |

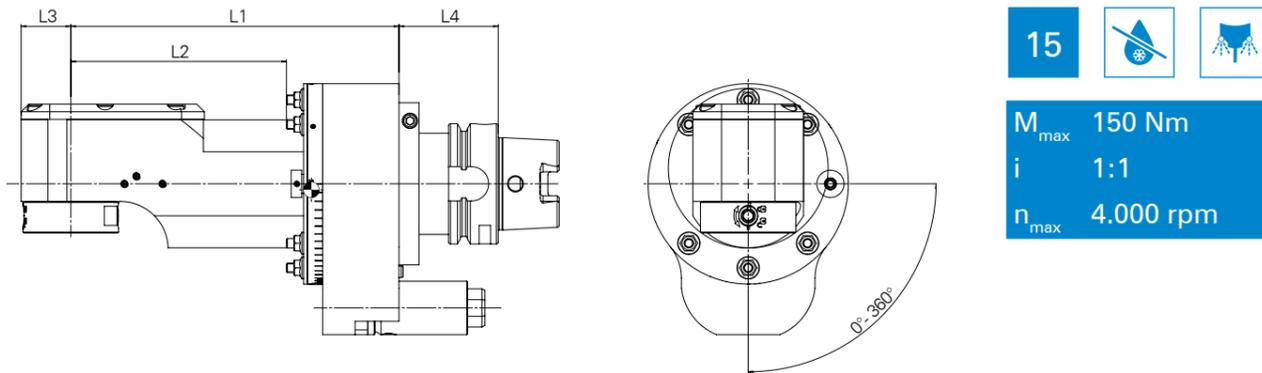
| Type Size | Technical data | |  |
|-----------|----------------|--------|---|
| | L3 [mm] | + [mm] | |
| S4 | 35 | 0 | 0 |
| ER32A | 35 | 0 | 0 |
| C4 | 35 | 1 | 1 |

| Type Size | Technical data | |  |
|-------------------------|----------------|--------|---|
| | L4 [mm] | + [mm] | |
| HSK-A63 | 52 | 0 | 0 |
| HSK-A100 | 55 | 1,9 | 1,9 |
| Capto C6 SK40 CAT40 | 45 | 0,1 | 0,1 |
| Capto C8 | 45 | 1 | 1 |
| SK50 CAT50 | 45 | 2,2 | 2,2 |
| BT40 | 53 | 0,5 | 0,5 |
| BT50 | 60 | 3,7 | 3,7 |

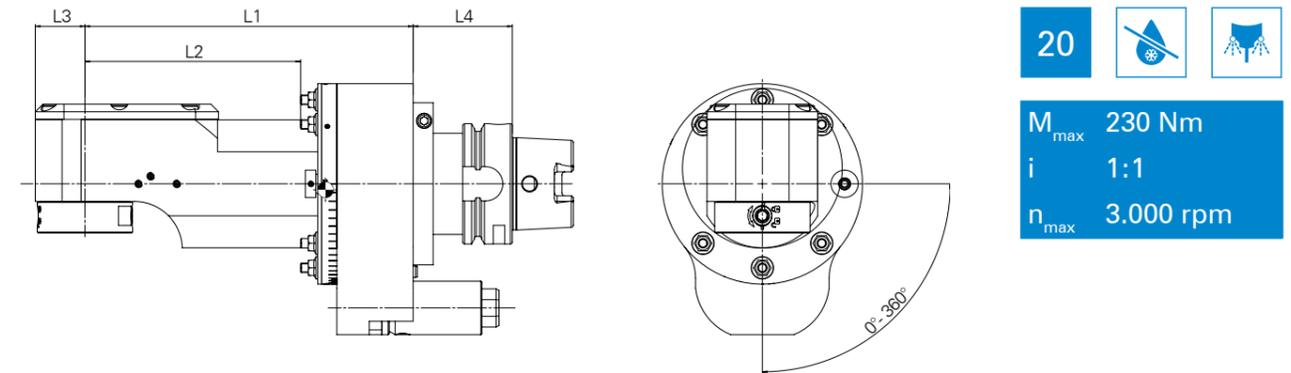
ANGLE HEAD FORTE WWX (EC)

FORTE WWX (EC)

TECHNICAL DATA



TECHNICAL DATA

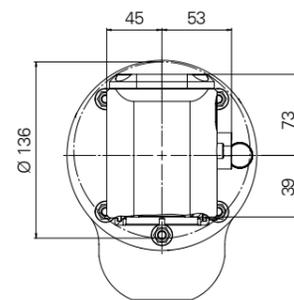
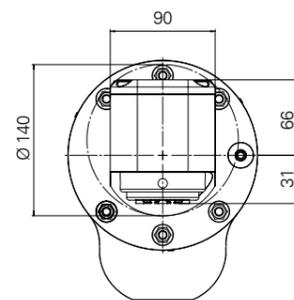
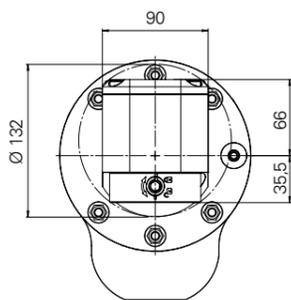


OUTPUT SPINDLE

BENZ Solidfix®-S5

Collet chuck-ER 40A

BENZ CAPTO™-C5



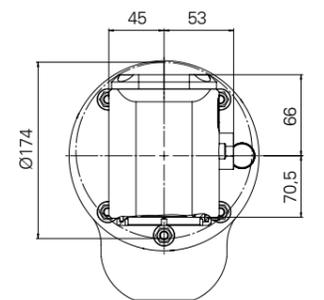
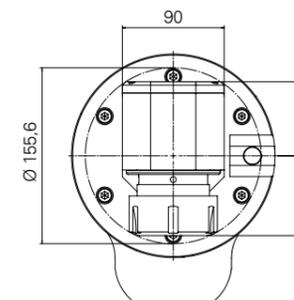
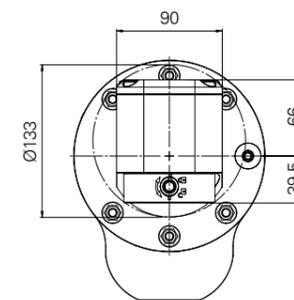
 technical data for other output spindles on request

OUTPUT SPINDLE

BENZ Solidfix®-S5

Collet chuck-ER50

BENZ CAPTO™-C6



 technical data for other output spindles on request

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | |  |
|-----------|----------------|---------|---|
| | L1 [mm] | L2 [mm] | |
| 15 | 195 | 125,5 | 14,2 |
| | 232 | 162,5 | 14,8 |
| | 332 | 262,5 | 17,4 |

| Type Size | Technical data | |  |
|-----------|----------------|--------|---|
| | L3 [mm] | + [kg] | |
| S5 | 40 | 0 | |
| ER40A | 40 | 0 | |
| C5 | 42 | 2,1 | |

| Type Size | Technical data | |  |
|--------------|----------------|--------|---|
| | L4 [mm] | + [kg] | |
| HSK-A100 | 55 | 0 | |
| Capto C8 | 45 | -0,8 | |
| SK50 CAT50 | 45 | 0,3 | |
| BT50 | 60 | 1,8 | |

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | |  |
|-----------|----------------|---------|---|
| | L1 [mm] | L2 [mm] | |
| 20 | 200 | 135,5 | 17,4 |
| | 237 | 172,5 | 16,7 |
| | 337 | 272,5 | 21,9 |

| Type Size | Technical data | |  |
|-----------|----------------|--------|---|
| | L3 [mm] | + [kg] | |
| S5 | 45 | 0 | |
| ER50 | 45 | 0 | |
| C6 | 50 | 6 | |

| Type Size | Technical data | |  |
|--------------|----------------|--------|---|
| | L4 [mm] | + [kg] | |
| HSK-A100 | 55 | 0 | |
| Capto C8 | 45 | -0,8 | |
| SK50 CAT50 | 45 | 0,3 | |
| BT50 | 60 | 2,9 | |

ANGLE HEAD FORTE WWX (IC)

FORTE WWX (IC)

TECHNICAL DATA

05

M_{max} 30 Nm
i 1:1
 n_{max} 8.000 min⁻¹

*optional: MQL

TECHNICAL DATA

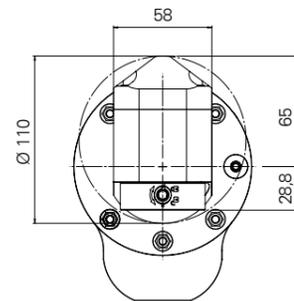
07

M_{max} 70 Nm
i 1:1
 n_{max} 6.000 min⁻¹

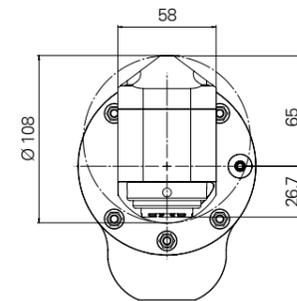
*optional: MQL

OUTPUT SPINDLE

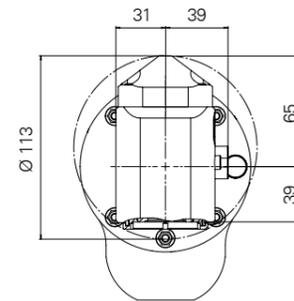
BENZ Solidfix®-S3



Collet chuck-ER 25A

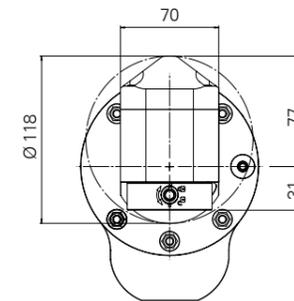


BENZ CAPTO™-C3

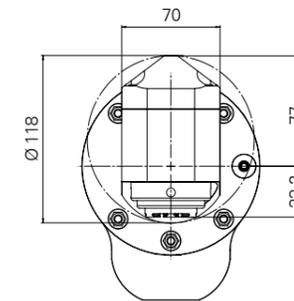


OUTPUT SPINDLE

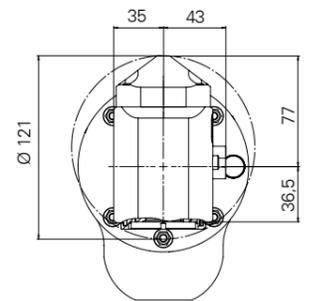
BENZ Solidfix®-S4



Collet chuck-ER32A



BENZ CAPTO™-C4



i technical data for other output spindles on request

i technical data for other output spindles on request

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | | |
|-----------|----------------|---------|-----|
| | L1 [mm] | L2 [mm] | |
| 05 | 125 | 63,5 | 5,2 |
| | 172 | 110,5 | 5,9 |
| | 232 | 170,5 | 6,7 |

| Type Size | Technical data | | |
|-----------|----------------|--------|--|
| | L3 [mm] | + [mm] | |
| S3 | 26 | 0 | |
| ER25A | 26 | 0 | |
| C3 | 30 | 0,6 | |

| Type Size | Technical data | | |
|-------------------------|----------------|--------|--|
| | L4 [mm] | + [mm] | |
| HSK-A63 | 52 | 0 | |
| HSK-A100 | 55 | 1,7 | |
| Capto C6 SK40 CAT40 | 45 | 0,1 | |
| Capto C8 | 45 | 1 | |
| SK50 CAT50 | 45 | 2,2 | |
| BT40 | 53 | 0,4 | |
| BT50 | 60 | 3,5 | |

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | | |
|-----------|----------------|---------|-----|
| | L1 [mm] | L2 [mm] | |
| 07 | 155 | 93,5 | 7,5 |
| | 200 | 138 | 8,7 |
| | 253 | 191,5 | 10 |

| Type Size | Technical data | | |
|-----------|----------------|--------|--|
| | L3 [mm] | + [mm] | |
| S4 | 35 | 0 | |
| ER32A | 35 | 0 | |
| C4 | 35 | 0,5 | |

| Type Size | Technical data | | |
|-------------------------|----------------|--------|--|
| | L4 [mm] | + [mm] | |
| HSK-A63 | 52 | 0 | |
| HSK-A100 | 55 | 1,9 | |
| Capto C6 SK40 CAT40 | 45 | 0,1 | |
| Capto C8 | 45 | 1 | |
| SK50 CAT50 | 45 | 2,2 | |
| BT40 | 53 | 0,5 | |
| BT50 | 60 | 3,7 | |

ANGLE HEAD FORTE WWX (IC)

FORTE WWX (IC)

TECHNICAL DATA

15

M_{max} 150 Nm

i 1:1

n_{max} 4.000 min⁻¹

OUTPUT SPINDLE

BENZ Solidfix®-S5

Collet chuck-ER 40A

BENZ CAPTO™-C5

technical data for other output spindles on request

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | | | Type Size | Technical data | | | Type Size | Technical data | | |
|-----------|----------------|---------|------|-----------|----------------|-----|------|--------------|----------------|------|------|
| | L1 [mm] | L2 [mm] | | | L3 [mm] | + | | | L4 [mm] | + | |
| 15 | 195 | 125,5 | 14,1 | S5 | 40 | 0 | 0 | HSK-A100 | 55 | 0 | 0 |
| | 232 | 161 | 16,3 | ER40A | 40 | 0 | -0,8 | Capto C8 | 45 | -0,8 | -0,8 |
| | 332 | 262,5 | 18,7 | C5 | 42 | 0,5 | 0,3 | SK50 CAT50 | 45 | 0,3 | 0,3 |
| | | | | | | | 1,8 | BT50 | 60 | 1,8 | 1,8 |

TECHNICAL DATA

20

M_{max} 230 Nm

i 1:1

n_{max} 3.000 min⁻¹

OUTPUT SPINDLE

BENZ Solidfix®-S5

Collet chuck-ER 50

BENZ CAPTO™-C6

technical data for other output spindles on request

FRONT HEAD

+OUTPUT SPINDLE

+TAPER

| Type Size | Technical data | | | Type Size | Technical data | | | Type Size | Technical data | | |
|-----------|----------------|---------|------|-----------|----------------|-----|------|--------------|----------------|------|------|
| | L1 [mm] | L2 [mm] | | | L3 [mm] | + | | | L4 [mm] | + | |
| 20 | 200 | 135,5 | 17,6 | S5 | 45 | 0 | 0 | HSK-A100 | 55 | 0 | 0 |
| | 237 | 172,5 | 18,6 | ER50 | 45 | 0 | -0,8 | Capto C8 | 45 | -0,8 | -0,8 |
| | 337 | 272,5 | 20,4 | C6 | 50 | 3,3 | 0,3 | SK50 CAT50 | 45 | 0,3 | 0,3 |
| | | | | | | | 2,9 | BT50 | 60 | 2,9 | 2,9 |