

Technology at the highest level: The SMW-AUTOBLOK

HFKN

Easy lubrication
even on vertical machines
with 3 radial built-in
grease nipples

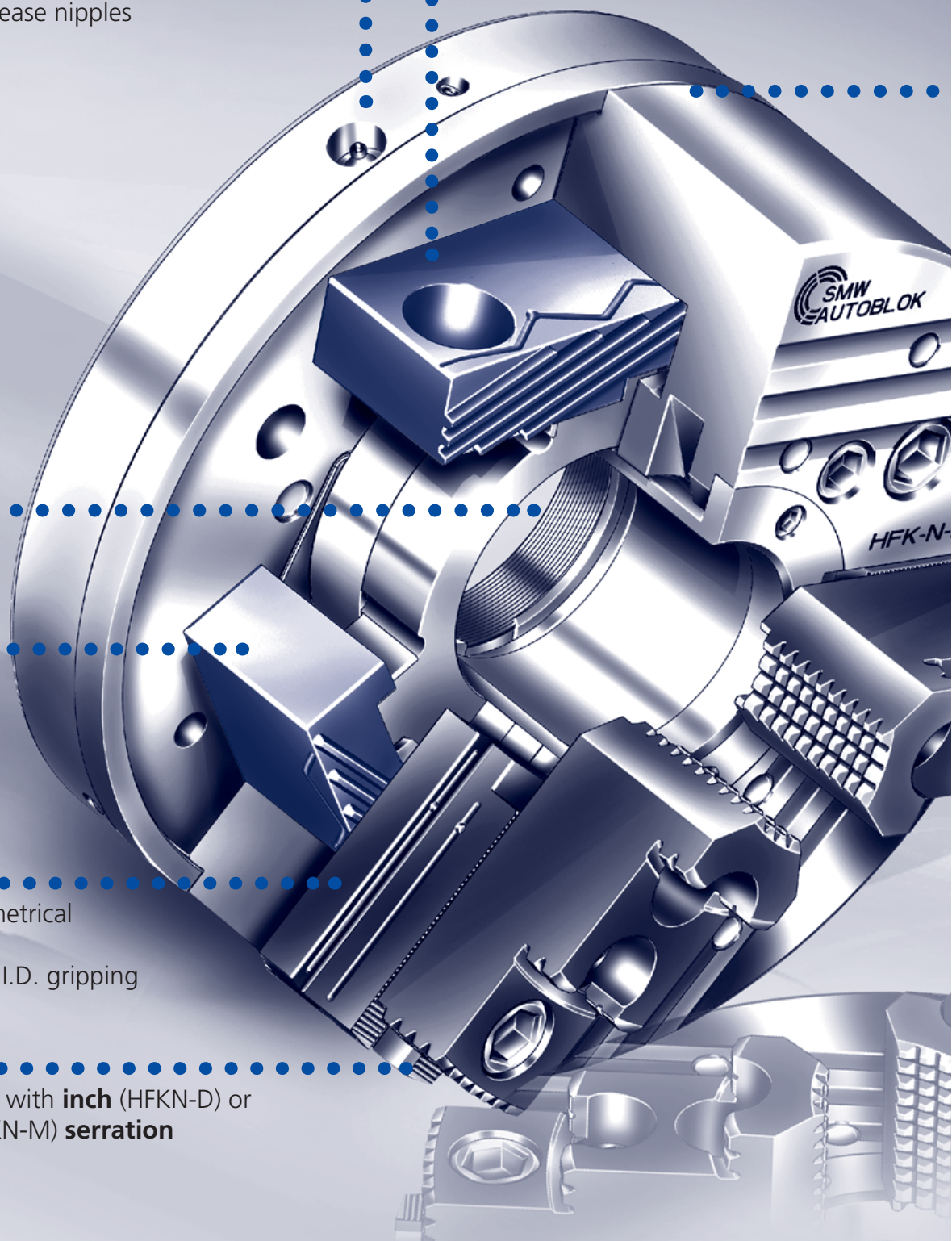
- **Wedge bar drive,**
- minimum loss in gripping force
- even at high speeds because of
- tangentially supported wedge bars.
- Minimum increase of gripping force
- **(hysteresis)** after quick spindle stop

Large through hole
for full use of
spindle bore

High **efficiency** of
the wedge bar drive
ensures highest
concentricity and
repeatability

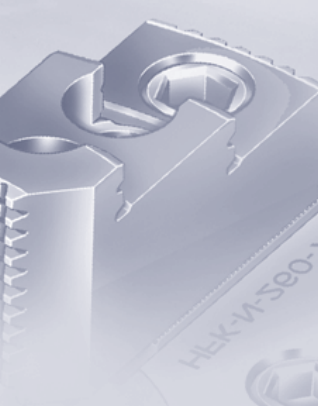
Extra long, symmetrical
jaw guides.
Ideal for O.D. or I.D. gripping

Master jaws with **inch** (HFKN-D) or
metric (HFKN-M) **serration**

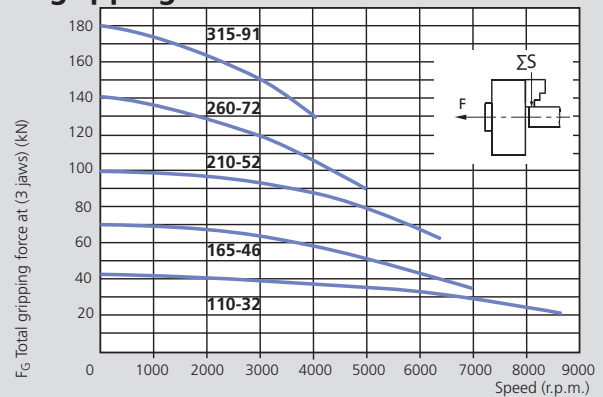


wedge bar drive

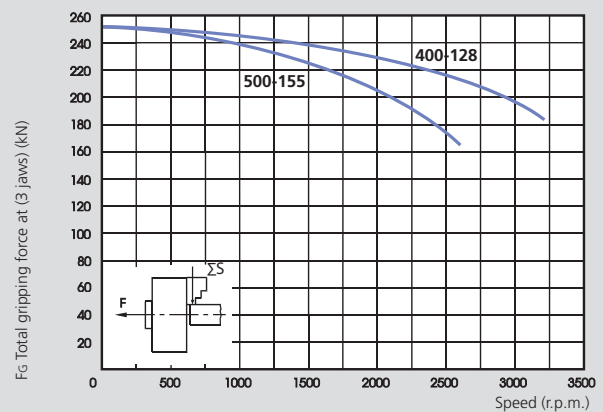
Chuck body and internal parts are **case hardened and ground**.
For highest rigidity, durability and precision



For high speeds Flat gripping force curve



The data in the diagrams refer to 3-jaw-chucks, newly maintained according to their service manuals using SMW-AUTOBLOK K05 grease. The static and dynamic gripping forces have been measured using standard soft top jaws, placed in a position not exceeding the outer diameter of the chuck.



⚠ Safety advice/danger of damage:

When using taller/heavier jaws and/or clamping on a bigger diameter reduce draw pull/rotating speed accordingly.

Clamping glossary

Case hardening: The surface of the components is hardened (60 HRC) to a depth of about 1 mm (0.04"). The core shows a high tensile strength and toughness. Compared to partial inductive hardened and nitrided parts the rigidity and the resistance against wear is greatly increased.

Hysteresis: At high speeds the chuck body "grows" due to centrifugal force. The draw pull of the clamping cylinder causes an increase in gripping force which cannot be decreased at a quick spindle stop (or change in speed). This can cause deformation at easily deformed parts. SMW-AUTOBLOK chucks with wedge bar drive have a very low hysteresis.

Wedge bar drive: The chuck is driven by tangentially mounted wedge bars. This design allows highest repeatability and rigidity. These chucks have very low loss in gripping force due to centrifugal force. The design does not require counterbalance weights which allows highest speeds without vibration.

Inch serration: The connection inbetween top jaws and master jaws is done through serration, T-nuts and bolts according to DIN 6353 (serration 90°, pitch in inches). This is standard on European chucks. HFKN chucks can be supplied either with inch serration or metric serration.

Metric serration: The connection inbetween top jaws and master jaws is done through serration, T-nuts and bolts according to ISO 9401 (serration 60°, pitch in mm). This is standard on Japanese chucks.

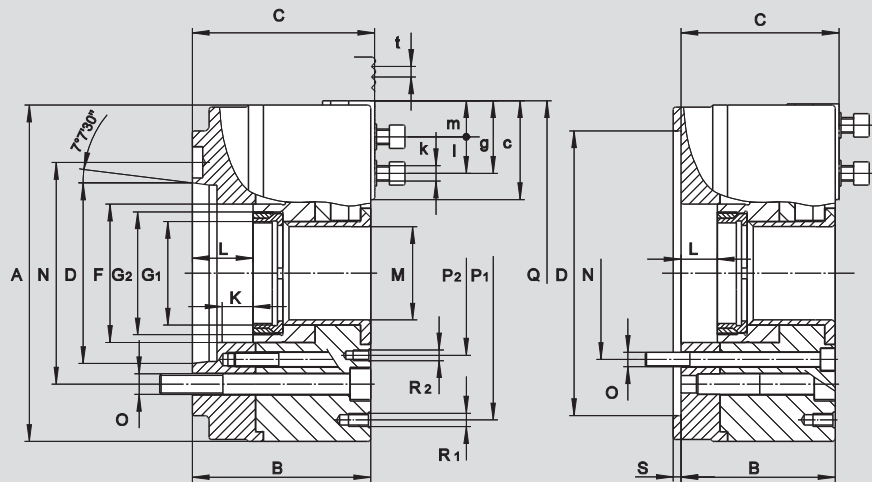
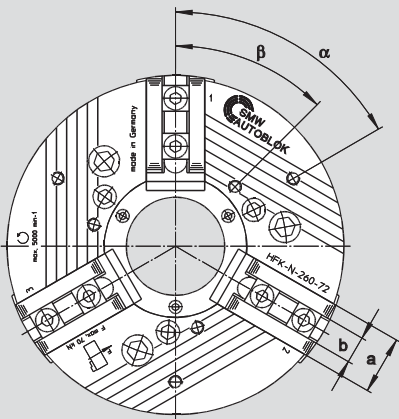
Efficiency: Efficiency is the ratio between the calculated theoretical gripping force (disregarding friction) and the actual (measured) gripping force.

HFKN-D HFKN-M

INCH serration

METRIC serration

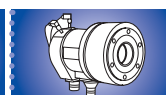
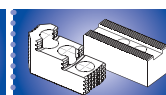
Main dimensions and technical data



Subject to technical changes
For more detailed information please ask for customer drawing

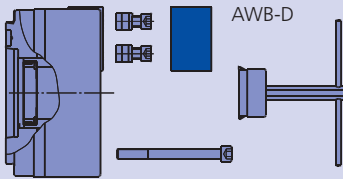
| Type HFKN-D Type HFKN-M | 110-32 110-32 | 165-46 165-46 | 210-52 210-52 | 260-72 260-72 | 315-91 315-91 | 400-128 400-128 | 500-155 500-155 | |
|-----------------------------|-------------------|------------------|-------------------|-------------------|-------------------------|-----------------------|-----------------------|-------------------|
| Mounting | Size Z100 A4 | Z140 A5 A6 | Z170 A6 A8 | Z170 Z220 A6 A8 | Z220 Z300 A8 A11 | Z300 Z380 A11 A15 | Z380 A11 A15 | |
| | A | 115 | 165 | 215 | 260 | 315 | 400 | 500 |
| | B | 64 75 | 90 105 107 | 102 119 121 | 119 119 136 138 | 127 127 146 148 | 143 143 164 166 | 157 178 180 |
| | C | 68.1 77.5 | 92.5 107.5 109.5 | 105 122 124 | 122 122 139 141 | 130 130 149 151 | 148 148 169 171 | 162 183 185 |
| H6 | D | 100 63.51 | 140 82.57 106.39 | 170 106.39 139.73 | 170 220 106.39 139.73 | 220 300 139.73 196.88 | 300 380 196.88 285.77 | 380 196.88 285.77 |
| | F | 46 | 67 | 85 | 107 | 134 | 180 | 207 |
| Threaded ring/depth | G1 | * | * | M60 x 1.5/16 | M80 x 2/20 | M100 x 2/22 | M138 x 2/22 | M165 x 2/25 |
| Piston thread/depth | G2 | M38 x 1.5/15 | M60 x 1.5/18 | M75 x 2/19 | M95 x 2/23 | M120 x 2/25 | M160 x 2/25 | M185 x 2/28 |
| Piston stroke | K | 9 | 15 | 19 | 23 | 23 | 30 | 32 |
| max. | L | 10.5 21.5 | 15 30 32 | 19 36 38 | 23 23 40 42 | 23 23 42 44 | 32 32 53 55 | 33 54 56 |
| | M | 32 | 46 | 52 | 72 | 91 | 128 | 155 |
| Fixing bolt circle | N | 82.6 | 104.8 104.8 133.4 | 133.4 133.4 171.4 | 133.4 171.4 133.4 171.4 | 171.4 235 171.4 235 | 235 330.2 235 330.2 | 330.2 235 330.2 |
| Fixing bolt | O | M10 | M10 M10 M12 | M12 M12 M16 | M12 M16 M12 M16 | M16 M20 M16 M20 | M20 M24 M20 M24 | M24 M20 M24 |
| | P1 | 100 | 120 | 168 | 210 | 268 | 330 | 430 |
| | P2 | 65 | 90 | 110 | 130 | 155 | 200 | 220 |
| | Q | 118 | 167 | 219 | 264 | 319 | 408 | 508 |
| Thread/thread depth | R1 | M6/12 | M8/16 | M10/20 | M10/20 | M10/20 | M12/18 | M16/25 |
| Thread/thread depth | R2 | M6/12 | M8/16 | M10/20 | M10/20 | M10/20 | M12/18 | M12/18 |
| | S | 6 | 6 | 6 | 6 | 6 | 8 | 8 |
| | a | 20 | 32 | 40 | 45 | 50 | 60 | 60 |
| f7 | b | 8 (g6) | 14 | 17 | 21 | 21 | 25.5 | 25.5 |
| | c | 34 | 47.5 | 69 | 75 | 92.5 | 115 | 150 |
| Bolt ISO 4762 12.9 | g | 28.5 | 39 | 58.5 | 65.5 | 74 | 100 | 136 |
| | k | M6 | M10 | M12 | M16 | M16 | M20 | M20 |
| min. | l | 12 | 16 | 22 | 28 | 30 | 35 | 35 |
| min. | m | 2 | 5 | 6 | 8 | 8 | 10 | 10 |
| HFKN-D inch serration | t | 1/16" 90° | 1/16" 90° | 1/16" 90° | 1/16" 90° | 1/16" 90° | 3/32" 90° | 3/32" 90° |
| HFKN-M metric serration | t | | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 3 x 60° | 3 x 60° |
| HFKN-C tongue & groove | | S08 N08 | | | | | | |
| | α° | 60 | 40 | 60 | 60 | 60 | 60 | 60 |
| | β° | 60 | 60 | 60 | 45 | 45 | 60 | 60 |
| Stroke per jaw | mm | 2.4 | 4 | 5.0 | 6.1 | 6.1 | 8.0 | 8.0 |
| max. actuating force | kN | 20 | 35 | 53 | 70 | 95 | 125 | 125 |
| max. total gripping force | kN | 40 | 70 | 100 | 140 | 190 | 250 | 250 |
| max. speed | r.p.m. | 8500** | 7000** | 6300 | 5000 | 4200 | 3200 | 2600 |
| Weight without jaws | kg | 4.4 4.7 | 14 15 15 | 24 26 26 | 40 40 43 43 | 63 63 66 66 | 111 111 116 116 | 225 231 231 |
| Moment of inertia | kg·m ² | 0.007 | 0.06 | 0.11 | 0.38 | 0.85 | 2.5 | 6.5 |
| rec. closed center cylinder | Type | SIN-S 85 | SIN-S 100/125 | SIN-S 125/150 | SIN-S 150/175 | SIN-S 150/175/200 | SIN-S 175/200 | SIN-S 175/200 |
| rec. open center cylinder | Type | VNK 70-37 | VNK 102-46 | VNK 130-52 | VNK 170-77 | VNK 225-95 | VNK 320-127 | VSG 450-165 |

* HFKN 110-32 and HFKN 165-46 available with fixed piston thread only.
** higher speed with special top jaws only



Ordering review HFKN-D (inch serration)

HFKN-D with soft top jaws AWB-D

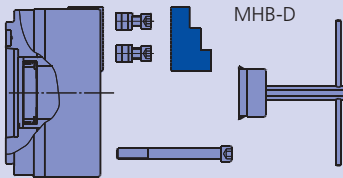


Supply range:

- Chuck + mounting bolts
- Soft top jaws AWB-D
- 1 set (= 6 pieces) T-nuts with bolts
- Key

| Size Spindle mounting | HFKN-D 110-32 | HFKN-D 165-46 | HFKN-D 210-52 | HFKN-D 260-72 | HFKN-D 315-91 | HFKN-D 400-128 | HFKN-D 500-155 |
|--------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Centering rim small | - | - | - | Z 170 090316 | Z 220 090320 | Z 300 090324 | Z 300 090328 |
| Centering rim large | Z 100 065354 | Z 140 090310 | Z 170 090313 | Z 220 090317 | Z 300 090321 | Z 380 090325 | Z 380 090329 |
| A 04 | 065355 | - | - | - | - | - | - |
| A 05 | - | 090311 | - | - | - | - | - |
| A 06 | - | 090312 | 090314 | 090318 | - | - | - |
| A 08 | - | - | 090315 | 090319 | 090322 | - | - |
| A 11 | - | - | - | - | 090323 | 090326 | 090330 |
| A 15 | - | - | - | - | - | 090327 | 090331 |

HFKN-D with hardened reversible top jaws MHB-D



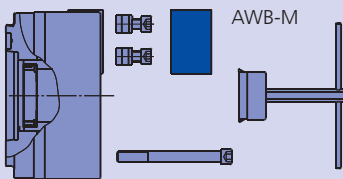
Supply range:

- Chuck + mounting bolts
- Hardened ground reversible top jaws MHB-D
- 1 set (= 6 pieces) T-nuts with bolts
- Key

| Size Spindle mounting | HFKN-D 110-32 | HFKN-D 165-46 | HFKN-D 210-52 | HFKN-D 260-72 | HFKN-D 315-91 | HFKN-D 400-128 | HFKN-D 500-155 |
|--------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Centering rim small | - | - | - | Z 170 090338 | Z 220 090342 | Z 300 090346 | Z 300 090350 |
| Centering rim large | Z 100 065356 | Z 140 090332 | Z 170 090335 | Z 220 090339 | Z 300 090343 | Z 380 090347 | Z 380 090351 |
| A 04 | 065357 | - | - | - | - | - | - |
| A 05 | - | 090333 | - | - | - | - | - |
| A 06 | - | 090334 | 090336 | 090340 | - | - | - |
| A 08 | - | - | 090337 | 090341 | 090344 | - | - |
| A 11 | - | - | - | - | 090345 | 090348 | 090352 |
| A 15 | - | - | - | - | - | 090349 | 090353 |

Ordering review HFKN-M (metric serration) / size 110 with tongue and groove

HFKN-M with soft top jaws AWB-M

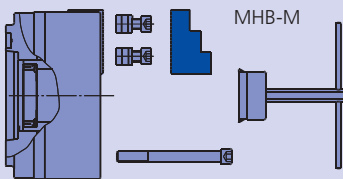


Supply range:

- Chuck + mounting bolts
- Soft top jaws AWB-M
- 1 set (= 6 pieces) T-nuts with bolts
- Key

| Size Spindle mounting | HFKN-C 110-32 | HFKN-M 165-46 | HFKN-M 210-52 | HFKN-M 260-72 | HFKN-M 315-91 | HFKN-M 400-128 | HFKN-M 500-155 |
|--------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Centering rim small | - | - | - | Z 170 090360 | Z 220 090364 | Z 300 090368 | Z 300 090372 |
| Centering rim large | Z 100 065466 | Z 140 090354 | Z 170 090357 | Z 220 090361 | Z 300 090365 | Z 380 090369 | Z 380 090373 |
| A 04 | 065467 | - | - | - | - | - | - |
| A 05 | - | 090355 | - | - | - | - | - |
| A 06 | - | 090356 | 090358 | 090362 | - | - | - |
| A 08 | - | - | 090359 | 090363 | 090366 | - | - |
| A 11 | - | - | - | - | 090367 | 090370 | 090374 |
| A 15 | - | - | - | - | - | 090371 | 090375 |

HFKN-M with hardened reversible top jaws MHB-M



Supply range:

- Chuck + mounting bolts
- Hardened ground reversible top jaws MHB-M
- 1 set (= 6 pieces) T-nuts with bolts
- Key

| Size Spindle mounting | HFKN-M 165-46 | HFKN-M 210-52 | HFKN-M 260-72 | HFKN-M 315-91 | HFKN-M 400-128 | HFKN-M 500-155 |
|--------------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Centering rim small | - | - | Z 170 090382 | Z 220 090386 | Z 300 090390 | Z 300 090394 |
| Centering rim large | Z 140 090376 | Z 170 090379 | Z 220 090383 | Z 300 090387 | Z 380 090391 | Z 380 090395 |
| A 04 | - | - | - | - | - | - |
| A 05 | 090377 | - | - | - | - | - |
| A 06 | 090378 | 090380 | 090384 | - | - | - |
| A 08 | - | 090381 | 090385 | 090388 | - | - |
| A 11 | - | - | - | 090389 | 090392 | 090396 |
| A 15 | - | - | - | - | 090393 | 090397 |

HFKN-D HFKN-M

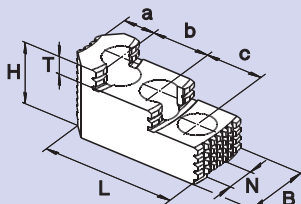
INCH serration

METRIC serration

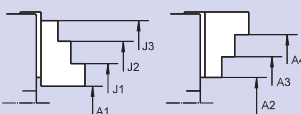
JAWS



MHB-D (Inch serration) Hardened reversible top jaws

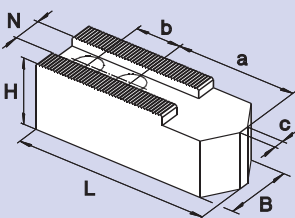


Clamping ranges



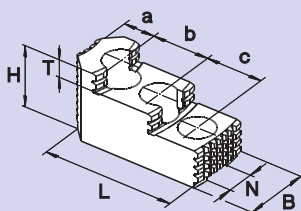
| Chuck | HFKN-D 110 | HFKN-D 165 | HFKN-D 210 | HFKN-D 260 | HFKN-D 315 | HFKN-D 400 | HFKN-D 500 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Jaw type | MHB-D | MHB-D | MHB-D | MHB-D | MHB-D | MHB-D | MHB-D |
| Id. No. | 007076 | 12081636 | 12082036 | 12083036 | 12083036 | 12084546 | 12084546 |
| Serration | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 3/32" x 90° | 3/32" x 90° |
| B | 20 | 34 | 40 | 45 | 45 | 60 | 60 |
| H | 31 | 39 | 45 | 56 | 56 | 75 | 75 |
| L | 48 | 65 | 82 | 105 | 105 | 140 | 140 |
| T | 7 | 10 | 10.5 | 13.5 | 13.5 | 32 | 19 |
| N | 8 | 14 | 17 | 21 | 21 | 25.5 | 25.5 |
| a | 9.5 | 18 | 19 | 26 | 26 | 38 | 38 |
| b | 12 | 16 | 23 | 30 | 30 | 38 | 38 |
| c | 12 | 16 | 23 | 30 | 30 | 38 | 38 |
| kg/set | 0.35 | 0.9 | 1.71 | 2.85 | 2.85 | 7.5 | 7.5 |
| A1 | | 15-75 | 10-100 | 15-115 | 50-170 | 40-205 | 80-320 |
| A2 | | - | - | - | - | - | - |
| A3 | | 62-120 | 62-150 | 100-205 | 115-265 | 160-330 | 220-450 |
| A4 | | 110-175 | 140-230 | 185-285 | 200-350 | 260-420 | 320-560 |
| J1 | | 65-125 | 65-150 | 75-165 | 90-225 | 120-285 | 180-410 |
| J2 | | 115-175 | 135-230 | 150-250 | 160-310 | 220-385 | 280-510 |
| J3 | | 145-210 | 180-265 | 225-325 | 235-380 | 330-480 | 370-670 |

AWB-D (Inch serration) Soft top jaws

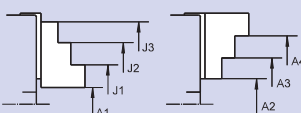


| Chuck | HFKN-D 110 | HFKN-D 165 | HFKN-D 210 | HFKN-D 260 | HFKN-D 315 | HFKN-D 400 | HFKN-D 500 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Jaw type | AWB-D | AWB-D | AWB-D | AWB-D | AWB-D | AWB-D | AWB-D |
| Id. No. | 038258 | 035954 | 081616 | 081618 | 081618 | 081620 | 081620 |
| Serration | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 1/16" x 90° | 3/32" x 90° | 3/32" x 90° |
| B | 20 | 40 | 40 | 50 | 50 | 60 | 60 |
| H | 30 | 40 | 40 | 50 | 50 | 60 | 60 |
| L | 55 | 80 | 90 | 120 | 120 | 140 | 140 |
| N | 8 | 14 | 17 | 21 | 21 | 25.5 | 25.5 |
| a | 30 | 43 | 53 | 70 | 70 | 80 | 80 |
| b | 12 | 22 | 22 | 28 | 28 | 35 | 35 |
| c | 0 | 4 | 4 | 6 | 6 | - | - |
| kg/set | 0.55 | 2.0 | 2.7 | 5.1 | 5.1 | 9.65 | 9.65 |

MHB-M (Metric serration) Hardened reversible top jaws

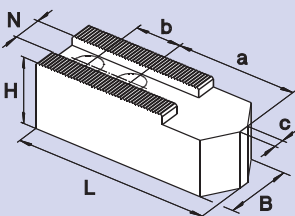


Clamping ranges



| Chuck | HFKN-M 165 | HFKN-M 210 | HFKN-M 260 | HFKN-M 315 | HFKN-M 400 | HFKN-M 500 | |
|-----------|------------|------------|------------|------------|------------|------------|---------|
| Jaw type | MHB-M | MHB-M | MHB-M | MHB-M | MHB-M | MHB-M | |
| Id. No. | 12081627 | 12082127 | 12082627 | 12083037 | on request | on request | |
| Serration | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 3 x 60° | 3 x 60° | |
| B | 34 | 40 | 45 | 45 | 55 | 55 | |
| H | 39 | 45 | 56 | 56 | 73 | 73 | |
| L | 67 | 86 | 100 | 105 | 145 | 145 | |
| T | 10 | 10.5 | 15.5 | 13.5 | 32 | 32 | |
| N | 12 | 14 | 16 | 21 | 25.5 | 25.5 | |
| a | 14 | 19 | 23 | 26 | 46 | 46 | |
| b | 20 | 25 | 30 | 30 | 38 | 38 | |
| c | 20 | 25 | 30 | 30 | 38 | 38 | |
| kg/set | 0.9 | 1.8 | 2.55 | 2.85 | 6.7 | 6.7 | |
| A1 | | 15-75 | 10-100 | 15-115 | 50-170 | 40-190 | 80-320 |
| A2 | | - | - | - | - | 85-235 | 125-365 |
| A3 | | 62-120 | 62-150 | 100-205 | 115-265 | - | - |
| A4 | | 110-175 | 140-230 | 185-285 | 200-350 | 270-420 | 320-560 |
| J1 | | 65-125 | 65-150 | 75-165 | 90-225 | 150-300 | 180-420 |
| J2 | | 115-175 | 135-230 | 150-250 | 160-310 | - | - |
| J3 | | 145-210 | 180-265 | 225-325 | 235-380 | 330-480 | 370-610 |

AWB-M (Metric serration) Soft top jaws



| Chuck | HFKN-C 110* | HFKN-M 165 | HFKN-M 210 | HFKN-M 260 | HFKN-M 315 | HFKN-M 400 | HFKN-M 500 |
|-----------|-------------|------------|------------|------------|------------|------------|------------|
| Jaw type | WBR | AWB-M | AWB-M | AWB-M | AWB-M | AWB-M | AWB-M |
| Id. No. | 013843 | 081719 | 081720 | 081722 | 035957 | 036791 | 036791 |
| Serration | S08 N08 | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 1.5 x 60° | 3 x 60° | 3 x 60° |
| B | 20 | 30 | 35 | 40 | 50 | 60 | 60 |
| H | 25 | 32 | 40 | 40 | 50 | 60 | 60 |
| L | 53 | 82 | 102 | 125 | 120 | 140 | 140 |
| N | S08 N08 | 12 | 14 | 16 | 21 | 25.5 | 25.5 |
| a | 30.5 | 47 | 57 | 65 | 70 | 80 | 80 |
| b | 15 | 20 | 25 | 30 | 30 | 35 | 35 |
| c | 0 | 4 | 4 | 6 | 6 | - | - |
| kg/set | 0.45 | 1.4 | 2.5 | 3.95 | 5.1 | 9.65 | - |

* size 110 with tongue & groove

HFKN-D

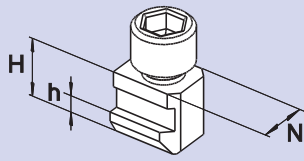
HFKN-M

- T-NUTS
- GREASE

INCH serration

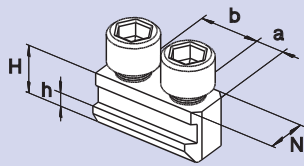
METRIC serration

NST T-nuts suitable for HFKN-D



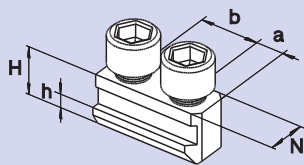
| Chuck | HFKN-D 110 | HFKN-D 165 | HFKN-D 210 | HFKN-D 260 | HFKN-D 315 | HFKN-D 400 | HFKN-D 500 |
|----------------------------|------------|------------|------------|------------|------------|------------|------------|
| T-nut type | | NST | NST | NST | NST | NST | NST |
| Id.No | | 035958 | 034245 | 034197 | 034197 | 014812 | 014812 |
| N | | 14 | 17 | 21 | 21 | 25.5 | 25.5 |
| H | | 18.5 | 20.5 | 26.5 | 26.5 | 29 | 29 |
| h | | 6.5 | 7.5 | 10 | 10 | 11 | 11 |
| Cyl.-screw DIN 912-12.9 | | M10 x 20 | M12 x 25 | M16 x 35 | M16 x 35 | M20 x 40 | M20 x 40 |
| Torque Md max. (Nm) | | 50 | 70 | 150 | 150 | 300 | 300 |

NSTE T-nuts suitable for HFKN-D



| Chuck | HFKN-D 110 | HFKN-D 165 | HFKN-D 210 | HFKN-D 260 | HFKN-D 315 | HFKN-D 400 | HFKN-D 500 |
|----------------------------|------------|------------|------------|------------|------------|------------|------------|
| T-nut type | | NSTE | NSTE | NSTE | NSTE | NSTE | NSTE |
| Id.No | 038265 | 73061650 | 73062150 | 73063050 | 73063050 | 081817 | 081817 |
| N | 8 | 14 | 17 | 21 | 21 | 25.5 | 25.5 |
| H | 13.5 | 18.5 | 20.5 | 26.5 | 26.5 | 29 | 29 |
| h | 5.0 | 6.5 | 7.5 | 10 | 10 | 11 | 11 |
| a | 5 | 8 | 10 | 13 | 13 | 16 | 16 |
| b | 12 | 16 | 23 | 30 | 30 | 35 | 35 |
| Cyl.-screw DIN 912-12.9 | M6 x 20 | M10 x 20 | M12 x 25 | M16 x 35 | M16 x 35 | M20 x 40 | M20 x 40 |
| Torque Md max. (Nm) | 16 | 50 | 70 | 150 | 150 | 300 | 300 |

NSTE T-nuts suitable for HFKN-M



| Chuck | HFKN-M 110 | HFKN-M 165 | HFKN-M 210 | HFKN-M 260 | HFKN-M 315 | HFKN-M 400 | HFKN-M 500 |
|----------------------------|------------|------------|------------|------------|------------|------------|------------|
| T-nut type | | NSTE-M | NSTE-M | NSTE-M | NSTE-M | NSTE-M | NSTE-M |
| Id.No | | 73061602 | 73062101 | 73062501 | 73063050 | 081817 | 081817 |
| N | | 12 | 14 | 16 | 21 | 25.5 | 25.5 |
| H | | 18.5 | 20.5 | 26.5 | 26.5 | 29 | 29 |
| h | | 6.5 | 7.5 | 10 | 10 | 11 | 11 |
| a | | 8 | 10 | 13 | 13 | 16 | 16 |
| b | | 20 | 25 | 30 | 30 | 35 | 35 |
| Cyl.-screw DIN 912-12.9 | | M10 x 20 | M12 x 25 | M12 x 35 | M16 x 35 | M20 x 40 | M20 x 40 |
| Torque Md max. (Nm) | | 50 | 70 | 70 | 150 | 300 | 300 |

Important for maintenance and safe operation, to be ordered with the chuck

Grease K05®

Special grease for manual and power chucks



Cartridge 14 Oz. (DIN 1284)
Grease content 500 g
Id. No. 016440



Can 1000 g
Id. No. 011881

- High adhesion
- High resistance against coolant
- High load bearing capacity
- Low friction coefficient
- High gripping force
- Avoids tribocorrosion

Grease gun

Grease gun (DIN 1283) for cartridges 14 Oz. (DIN 1284).

- Also refillable from grease can 1000 g.



Lubrication set Id. No. 083726

Supply range

- Grease gun
- 1 Adapter flexible for high pressure grease nipple
- 1 Adapter for cone grease nipple