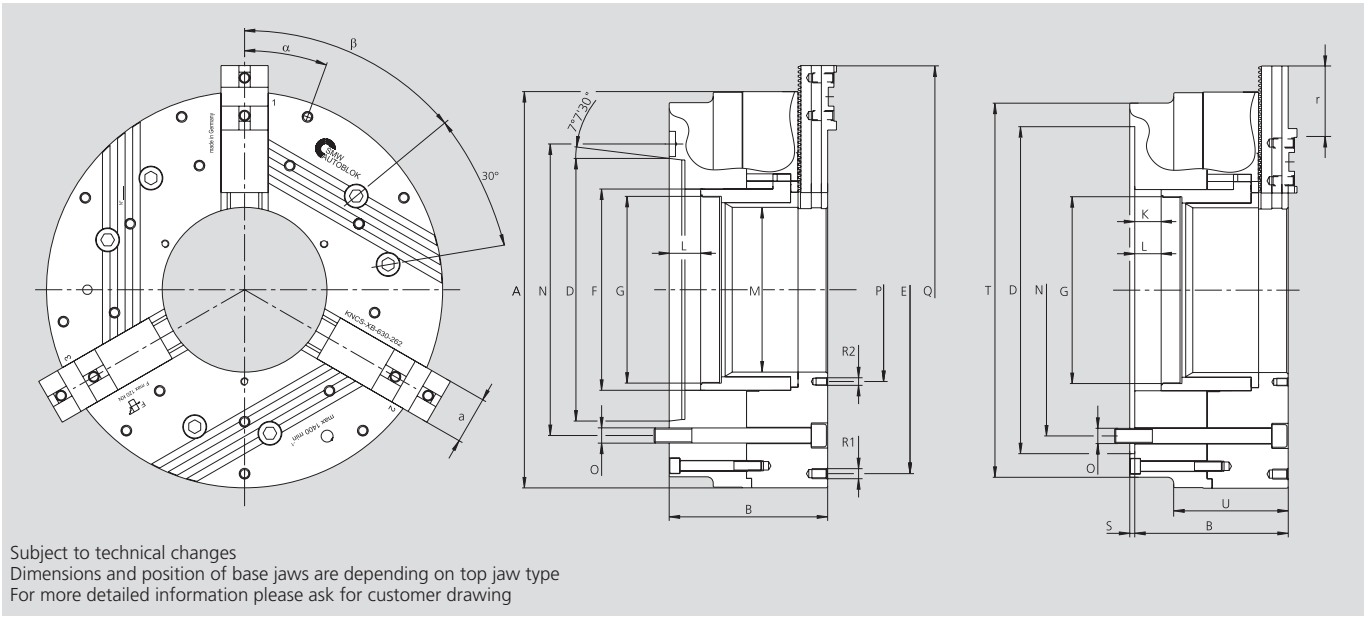


# KNCS®-NBX

QUICK JAW CHANGE  
wide master jaws

- Main dimensions and technical data
- EXTRA LARGE THROUGH HOLE



Subject to technical changes  
Dimensions and position of base jaws are depending on top jaw type  
For more detailed information please ask for customer drawing

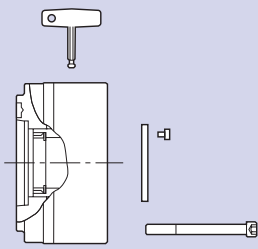
| SMW-AUTOBLOK Type                      |       | KNCS-NBX 425-170 |        |        | KNCS-NBX 530-210 |        |        | KNCS-NBX 630-262 |        |        | KNCS-NBX 800-262 |        |        | KNCS-NBX 1000-262 |        |        |
|----------------------------------------|-------|------------------|--------|--------|------------------|--------|--------|------------------|--------|--------|------------------|--------|--------|-------------------|--------|--------|
| Mounting                               | Size  | Z380             | A11    | A15    | Z380             | A11    | A15    | Z520             | A15    | A20    | Z520             | A15    | A20    | Z520              | A15    | A20    |
|                                        | A     | 425              |        |        | 530              |        |        | 630              |        |        | 800              |        |        | 1000              |        |        |
|                                        | B     | 197              | 237    | 220    | 244              | 284    | 267    | 244              | 284*   | 269    | 244              | 284*   | 269    | 244               | 284*   | 269    |
| H6                                     | D     | 380              | 196.88 | 285.77 | 380              | 196.88 | 285.77 | 520              | 285.77 | 412.77 | 520              | 285.77 | 412.77 | 520               | 285.77 | 412.77 |
|                                        | E     | 330.2            |        |        | 420              |        |        | 420/585          |        |        | 420/585/750      |        |        | 420/585/750/915   |        |        |
|                                        | F     | 222              |        |        | 262              |        |        | 320              |        |        | 320              |        |        | 320               |        |        |
| Piston thread/depth                    | G     | M202 x 2/25      |        |        | M240 x 2/28      |        |        | M297 x 2/33      |        |        | M297 x 2/33      |        |        | M297 x 2/33       |        |        |
| Piston stroke                          | K     | 32               |        |        | 42               |        |        | 42               |        |        | 42               |        |        | 42                |        |        |
| max.                                   | L     | 32               | 72     | 55     | 42               | 82     | 55     | 42               | 82     | 67     | 42               | 82     | 67     | 42                | 82     | 67     |
|                                        | M     | 170              |        |        | 210              |        |        | 262              |        |        | 262              |        |        | 262               |        |        |
| Fixing bolt circle                     | N     | 330.2            | 235.0  | 330.2  | 330.2            | 235.0  | 30.2   | 463.6            | 330.2* | 463.6  | 463.6            | 330.2* | 463.6  | 463.6             | 330.2* | 463.6  |
| Fixing bolt                            | O     | M24              | M20    | M24    | M24              | M20    | M24    | M24              | M24*   | M24    | M24              | M24*   | M24    | M24               | M24*   | M24    |
|                                        | P     | 195              |        |        | 235              |        |        | 292              |        |        | 292              |        |        | 292               |        |        |
|                                        | Q     | 487              |        |        | 598              |        |        | 745              |        |        | 915              |        |        | 1107              |        |        |
| Thread/thread depth                    | R1    | M12/16           |        |        | M16/25           |        |        | M16/25           |        |        | M16/25           |        |        | M16/25            |        |        |
| Thread/thread depth                    | R2    | M12/16           |        |        | M16/25           |        |        | M12/18           |        |        | M12/18           |        |        | M12/18            |        |        |
|                                        | S     | 8                |        |        | 8                |        |        | 8                |        |        | 8                |        |        | 8                 |        |        |
|                                        | T     | 412              |        |        | 490              |        |        | 595              |        |        | 600              |        |        | 600               |        |        |
|                                        | U     | 137              |        |        | 167              |        |        | 182              |        |        | 182              |        |        | 182               |        |        |
|                                        | a     | 50               |        |        | 62               |        |        | 75               |        |        | 75               |        |        | 75                |        |        |
| Base jaw tooth pitch                   | -     | 5.5              |        |        | 7                |        |        | 7                |        |        | 7                |        |        | 7                 |        |        |
| Base jaw offset                        | r     | 49.5             |        |        | 70               |        |        | 119              |        |        | 133              |        |        | 133               |        |        |
| Base jaw offset                        | teeth | 9                |        |        | 10               |        |        | 17               |        |        | 19               |        |        | 19                |        |        |
|                                        | α°    | 15°/12x30°       |        |        | 20°/9x40°        |        |        | 20°/9x40°        |        |        | 20°/9x40°        |        |        | 20°/9x40°         |        |        |
|                                        | β°    | 60               |        |        | 60               |        |        | 60               |        |        | 60               |        |        | 60                |        |        |
| Stroke per jaw at piston stroke K max. | mm    | 8                | 32     |        | 10               | 42     |        | 10               | 42     |        | 10               | 42     |        | 10                | 42     |        |
| max. actuating force 3-jaw chuck       | kN    | 115              |        |        | 120              |        |        | 120              |        |        | 120              |        |        | 120               |        |        |
| max. total gripping force 3-jaw chuck  | kN    | 240              |        |        | 250              |        |        | 250              |        |        | 250              |        |        | 250               |        |        |
| max. speed 3-jaw chuck                 | r.p.m | 2500             |        |        | 1500             |        |        | 1400             |        |        | 1000             |        |        | 850               |        |        |
| Weight without jaws                    | kg    | 164              |        |        | 320              |        |        | 395              |        |        | 635              |        |        | 985               |        |        |
| Moment of inertia                      | kg·m² | 4.3              |        |        | 13               |        |        | 23               |        |        | 54               |        |        | 125               |        |        |
| rec. closed center cylinder            | Type  | SIN-S 175/200    |        |        | SIN-S 175/200    |        |        | SIN-S 175/200    |        |        | SIN-S 175/200    |        |        | SIN-S 175/200     |        |        |
| rec. open center cylinder              | Type  | VSG 450-165      |        |        | VSG 550-205      |        |        | VSG 550-205      |        |        | VSG 550-205      |        |        | VSG 550-205       |        |        |

\* Indirect mounting by reducing flange





### Ordering review

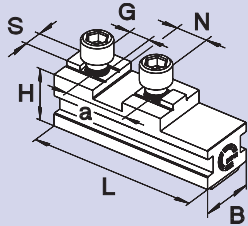


| Size<br>Spindle mounting | KNCS-NBX<br>425-170 | KNCS-NBX<br>530-210 | KNCS-NBX<br>630-262 | KNCS-NBX<br>800-262 | KNCS-NBX<br>1000-262 |
|--------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Centering rim            | Z380                | Z380                | Z520                | Z520                | Z520                 |
| center mount             | 160080              | 160090              | 069760              | 069770              | 069780               |
| A 11                     | 160081              | 160091              |                     |                     |                      |
| A 15                     | 160082              | 160092              | 069768              | 069778              | 069788               |
| A 20                     |                     |                     | 069769              | 069779              | 069789               |

### Supply range:

Chuck + disengaging key + mounting bolts + mounting key + set of coverplates without base jaws, without top jaws

### Base jaw type

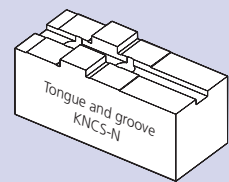


### GBK-B

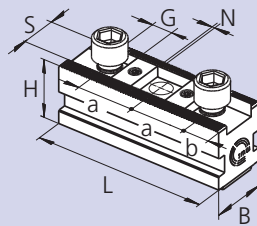
KNCS-N standard tongue & groove

| KNCS-NBX   | 425-170 | 530-210 | 630-262 | 800-262 | 1000-262 |
|------------|---------|---------|---------|---------|----------|
| Id. No.    | 039629  | 035565  | 035902  | 064604  | 069806   |
| B          | 50      | 62      | 75      | 75      | 75       |
| H          | 45.8    | 57      | 57      | 57      | 57       |
| L          | 125     | 160     | 200     | 286     | 384      |
| N          | 26      | 30      | 30      | 30      | 30       |
| S          | 12      | 18      | 18      | 18      | 18       |
| G (metric) | M12     | M16     | M16     | M16     | M16      |
| a          | 54      | 60      | 60      | 60      | 60       |

### Existing top jaw



### Base jaw type

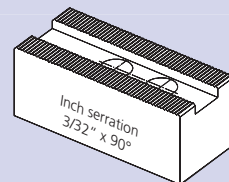


### GBK-BD

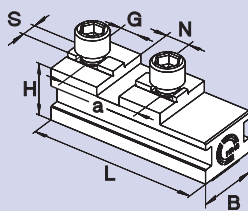
Inch serrated (for SMW-AUTOBLOK standard jaws)

| KNCS-NBX  | 425-170     | 530-210     | 630-262     | 800-262             | 1000-262 |
|-----------|-------------|-------------|-------------|---------------------|----------|
| Id. No.   | 036293      | 036294      | 036295      | 036296              |          |
| B         | 50          | 62          | 75          | 75                  | 75       |
| H         | 45.8        | 61          | 61          | 61                  | 61       |
| L         | 125         | 160         | 200         | 287                 |          |
| N         | 3/32" x 90° | 3/32" x 90° | 3/32" x 90° | 3/32" x 90°         |          |
| S (ridge) | 25.5        | 25.5        | 25.5        | 25.5                |          |
| G         | M20         | M20         | M20         | M20                 |          |
| a         | 2 x 38      | 38/49/38    | 38/38/52/38 | 3 x 38/60, 7/2 x 38 |          |
| b         | 17          | 17          | 18          | 17.5                |          |

### Existing top jaw



### Base jaw type

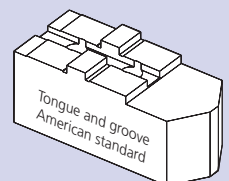


### GBK-BA

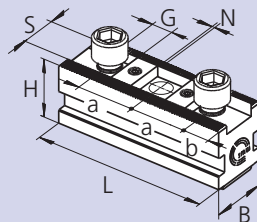
American standard tongue & groove

| KNCS-NBX | 425-170 | 530-210 | 630-262 | 800-262 | 1000-262  |
|----------|---------|---------|---------|---------|-----------|
| Id. No.  | 039631  | 060561  | 060562  | 064590  | 069807    |
| B        | 50      | 62      | 75      | 75      | 75        |
| H        | 45.8    | 57      | 57      | 57      | 57        |
| L        | 146     | 168     | 203     | 286     | 384       |
| N        | 19.02   | 19.02   | 19.02   | 19.02   | 19.02/3x  |
| S        | 12.7    | 12.7    | 12.7    | 12.7    | 12.7      |
| G (inch) | 3/4-10  | 3/4-10  | 3/4-10  | 3/4-10  | 3/4-10/4x |
| a        | 76.2    | 76.2    | 76.2    | 76.2    | 76.2/3x   |

### Existing top jaw



### Base jaw type

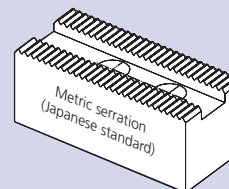


### GBK-BM

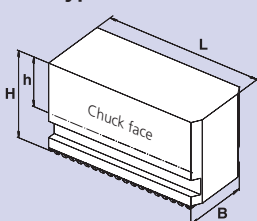
Metric serration

| KNCS-NBX   | 425-170   | 530-210 | 630-262        | 800-262 | 1000-262 |
|------------|-----------|---------|----------------|---------|----------|
| Id. No.    | 035569    | 035570  | 035917         | 036708  |          |
| B          | 50        | 62      | 75             | 75      |          |
| H          | 45.8      | 61      | 61             | 61      |          |
| L          | 125       | 160     | 200            | 287     |          |
| N          | 1.5 x 60° | 3 x 60° | 3 x 60°        | 3 x 60° |          |
| S          | 22        | 25      | 25             | 25      |          |
| G (metric) | M20       | M20     | M20            | M20     |          |
| a          | 2 x 43    | 50/60   | 60/60/70, 5/60 | 4 x 60  |          |
| b          | 17        | 17      | 17             | 17.5    |          |

### Existing top jaw



### Jaw type



### UVB-B

Soft wide monoblock jaws

| KNCS-NBX | 425       | 530       |
|----------|-----------|-----------|
| Jaw type | UVB-B 400 | UVB-B 500 |
| Id. No.  | 238740    | 238912    |
| B        | 50        | 62        |
| H        | 125       | 160       |
| h        | 91        | 113       |
| L        | 148       | 175       |
| kg/set   | 17.6      | 32        |