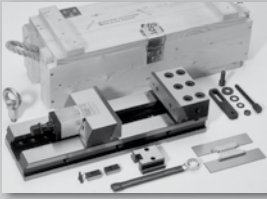
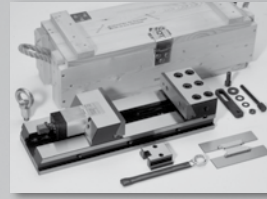


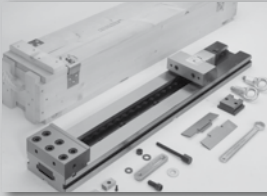
Modular clamping equipment "TC" range and accessories



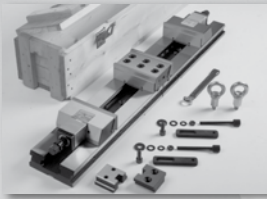
Tct
pag. 2. 6



TCg
pag. 2. 7



Tct-XL
pag. 2. 8



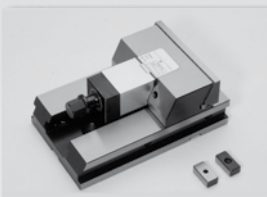
DCS-Tct
pag. 2. 9



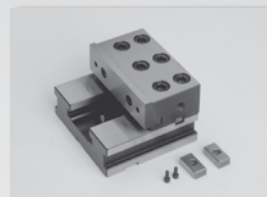
Extension element Tct
pag. 2. 12



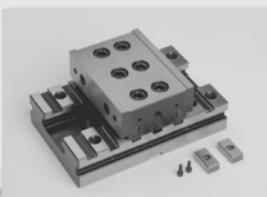
Double support with jaws TC
pag. 2. 13



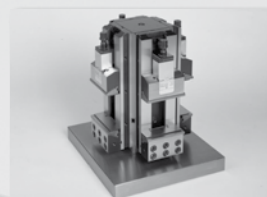
Complete extension element Tct
pag. 2. 13



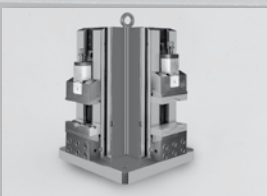
Base with fixed support Tct
pag. 2. 14



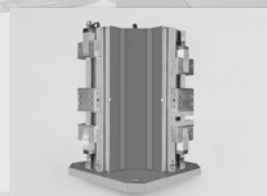
Base with double support whit jaws
pag. 2. 14



MVS-Tct
pag. 2. 16



VCS-Tct
pag. 2. 18



DVCS-Tct
pag. 2. 19



Accessories TC
pag. 2. 21



Spare parts TC
pag. 2. 25

TC is...

Modular

We use the true definition of the term modular; product which is composed of separate or separable elements. With these separate or separable elements we can achieve many different clamping solutions. The only different component of these clamping solutions is the base. The base length determines the clamping capacity while all other components remain the same. Fixed and movable vise jaws can be used with any base configuration, offering the most flexible workholding solutions available. This modular system allows the user to realize the maximum number of workholding combinations with the minimum investment in equipment.

Precision

All sliding and joining surfaces are precision ground. Each item is thoroughly inspected and tested both before and after assembly. This rigid quality control allows us to offer the high tolerance levels shown on page 47. Alignment of the clamping equipment is ensured by using high tolerance ground keys. Other key dimensions are available upon request. The clamping jaws pull the workpiece down 0.2 mm. (0.008") against the ground base for unmatched accuracy.

Durability

All components are constructed from oversize steel profiles ensuring the equipment is exceptionally sturdy and can provide the user with optimal performance. Wear parts are special treated to achieve a surface hardness of 50/60 HRC. All non-ground surfaces are burnished to protect against corrosion.

Quick-change

A patented system allows quick repositioning of the clamping jaws. The clamping jaw is lifted slightly from the base and shuttled to the next clamping position then lowered into place. Part changeovers and size changes can be made quickly and easily.

Reliable

The six bolts mounting the fixed jaw to the base provide the most rigid platform possible to support the clamped workpiece.

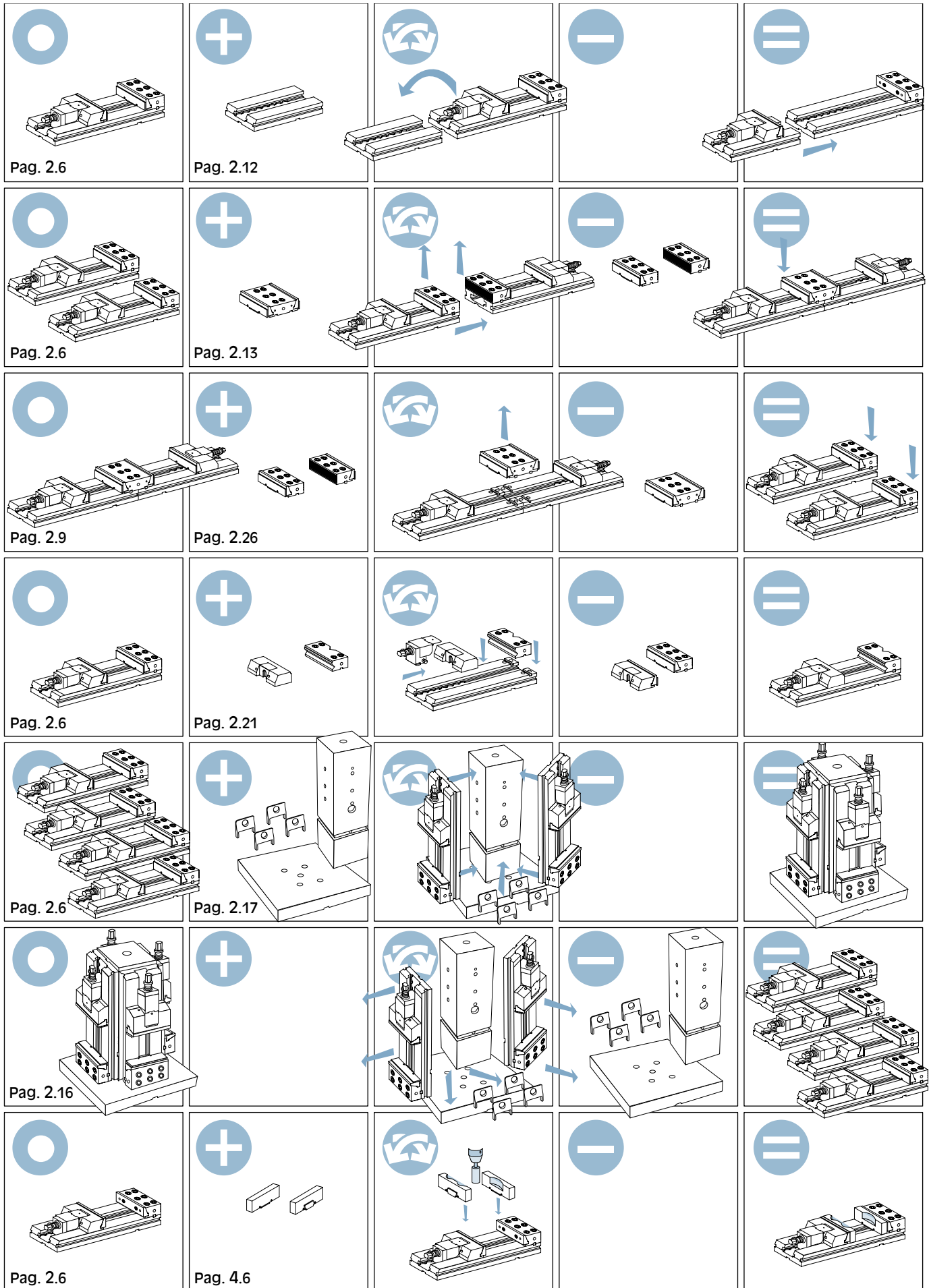
Versatility

The fixed jaw has serrations on the rare face so that by reversing it, unmachined workpieces can be clamped. The movable jaw can be rigid or floating (for clamping on uneven surfaces). The interchangeability of the rigid slide-way with the floating slide-way (both included as standard equipment) allows the user to clamp finished or raw workpieces. The standard CLAK system allows the quick-change of parallels, angular parallels, soft jaws and "V" jaws in order to machine any workpiece.

Manageable

The weight of 27 kg (59 lb.) for the 150 mm. x 200 mm. (6"x 8") vise and simple clamping system allow for easy movement from one machine tool to another.

The advantages of modularity



○ Start

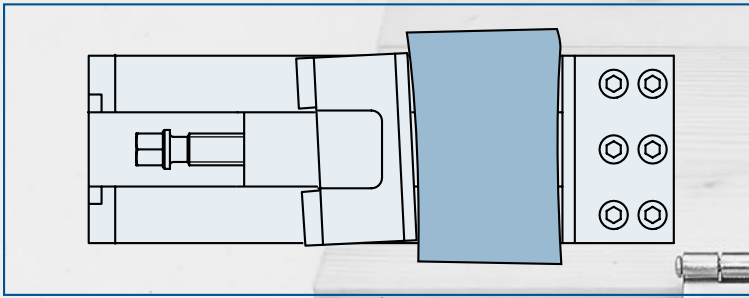
⊕ Add

↻ Combine

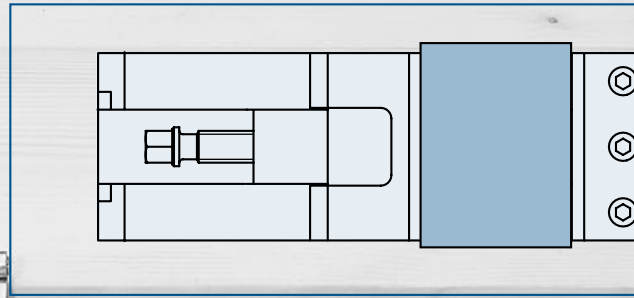
⊖ Remove

= Result

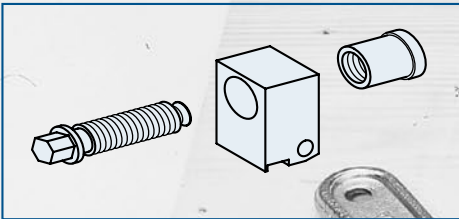
Floating slide - way raw workpieces



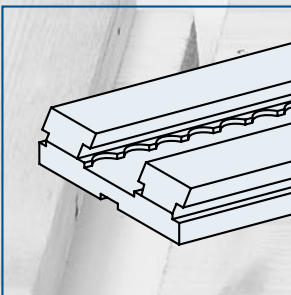
Rigid slide-way for finished workpiece



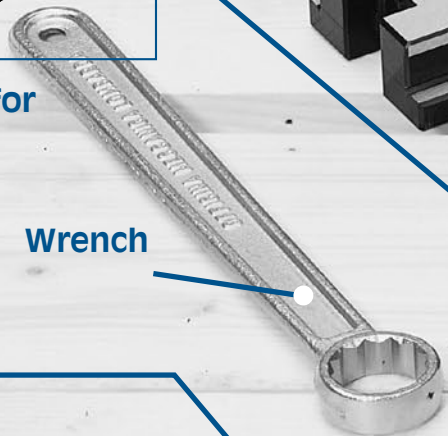
Block for clamping screw with threaded anti-friction bronze bushing



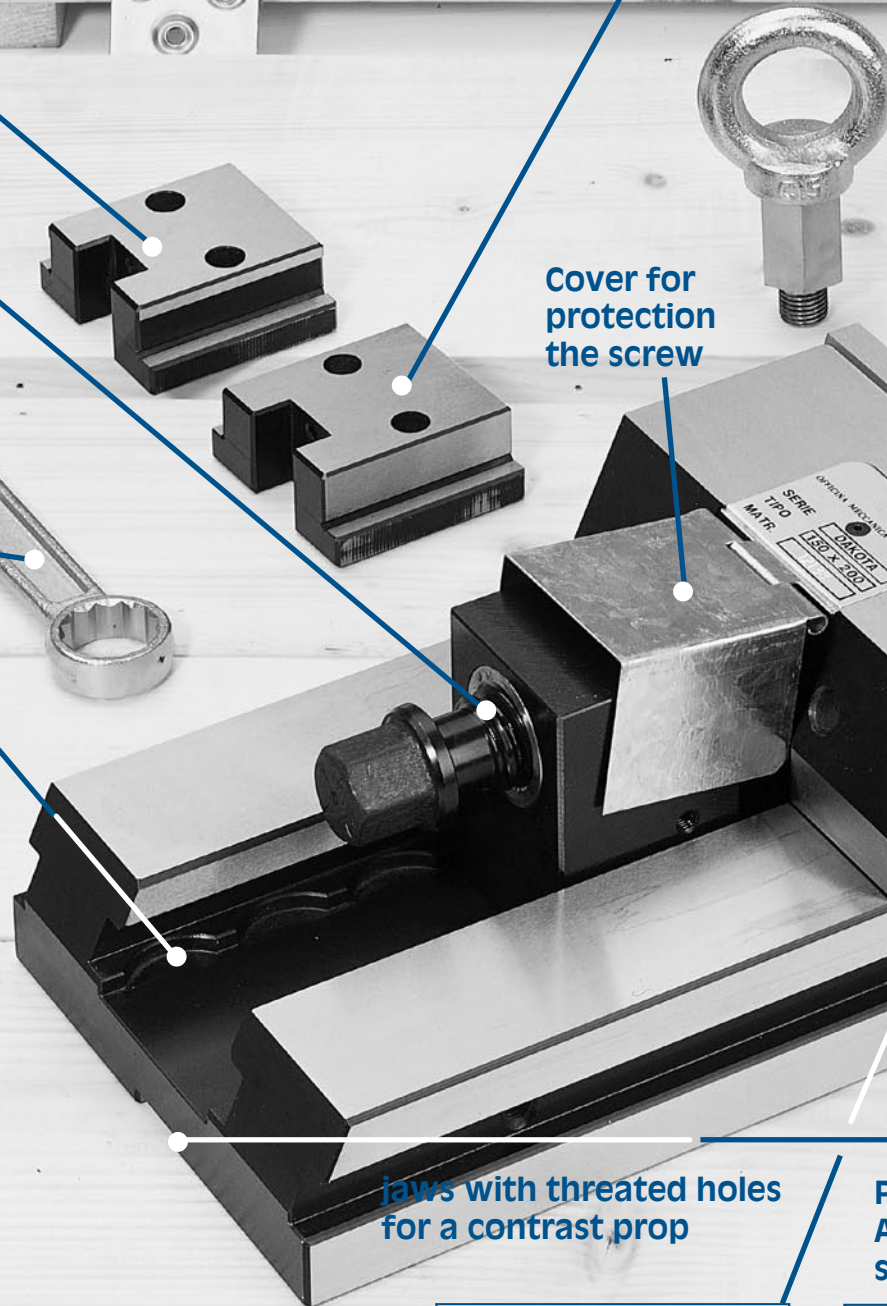
Patented system for quick positioning



Wrench

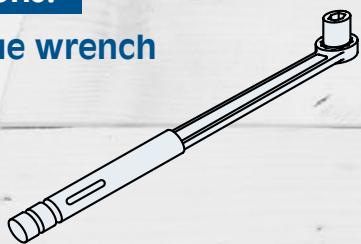


Cover for protection the screw



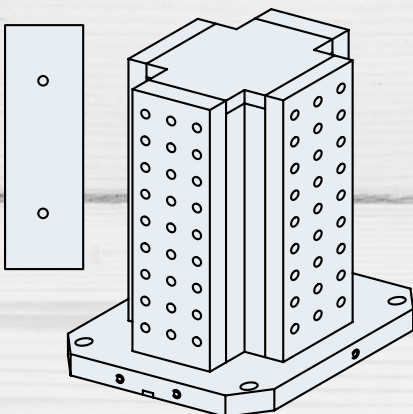
Options:

Torque wrench

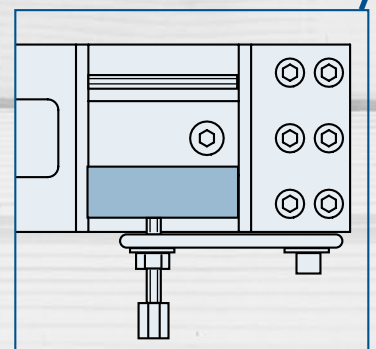


Grinding holes for the clamping on a grid system TCg

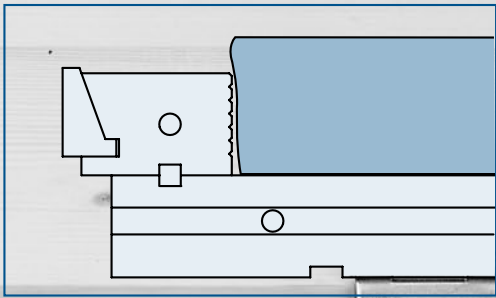
Base



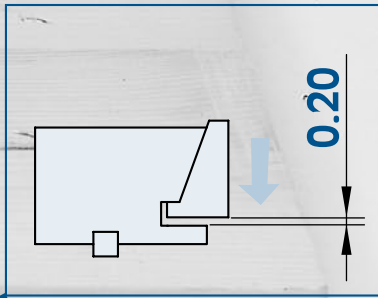
jaws with threaded holes for a contrast prop



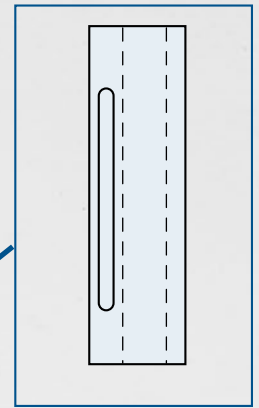
Fixed support turned of 180° (grooved part)



Pull down jaws 0,02 mm

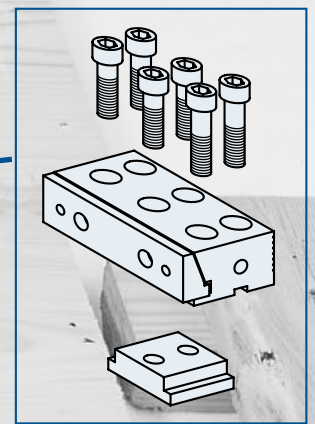


CLAK fitting

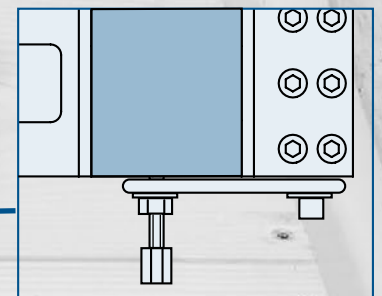


Eye bolt for lifting)

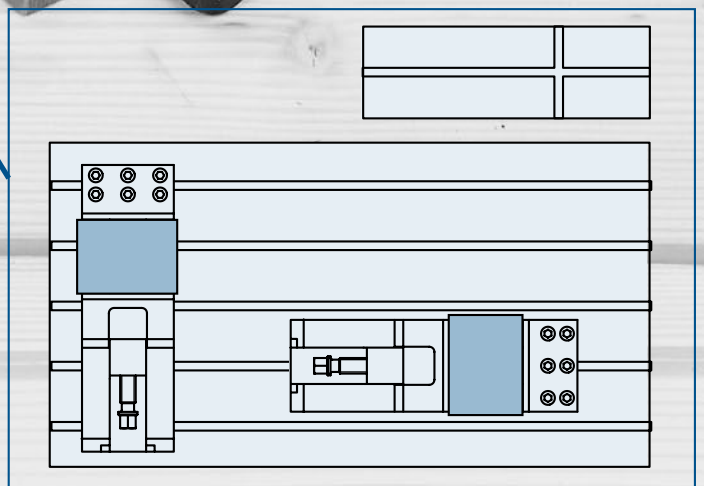
6 bolts for the fixed support



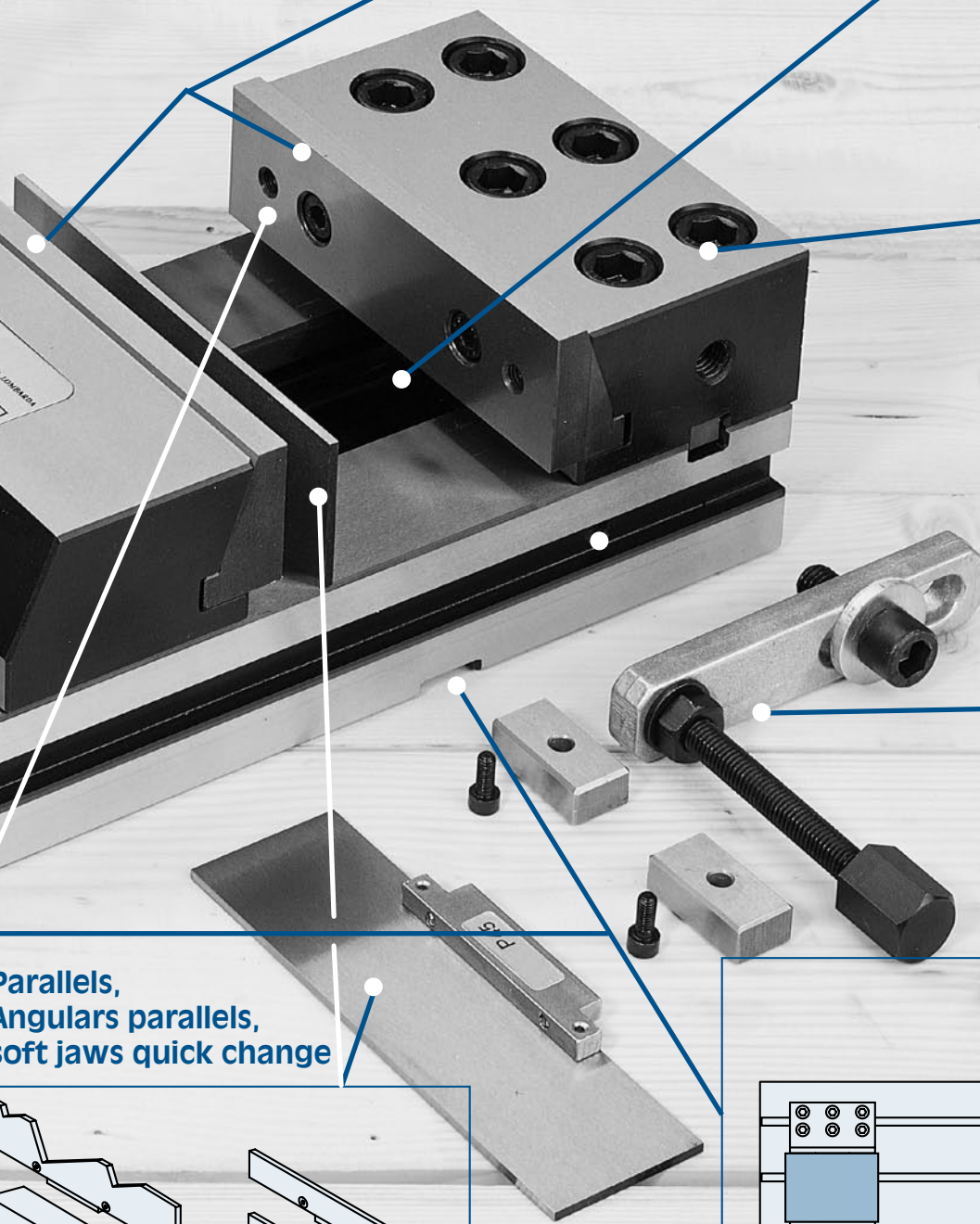
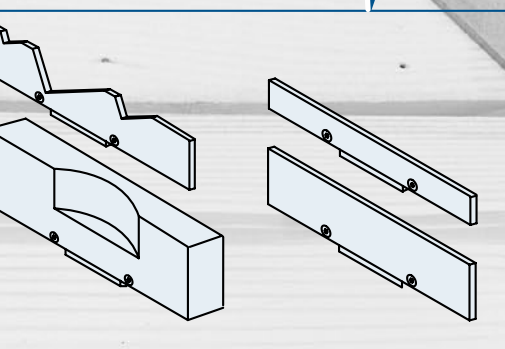
Work stop

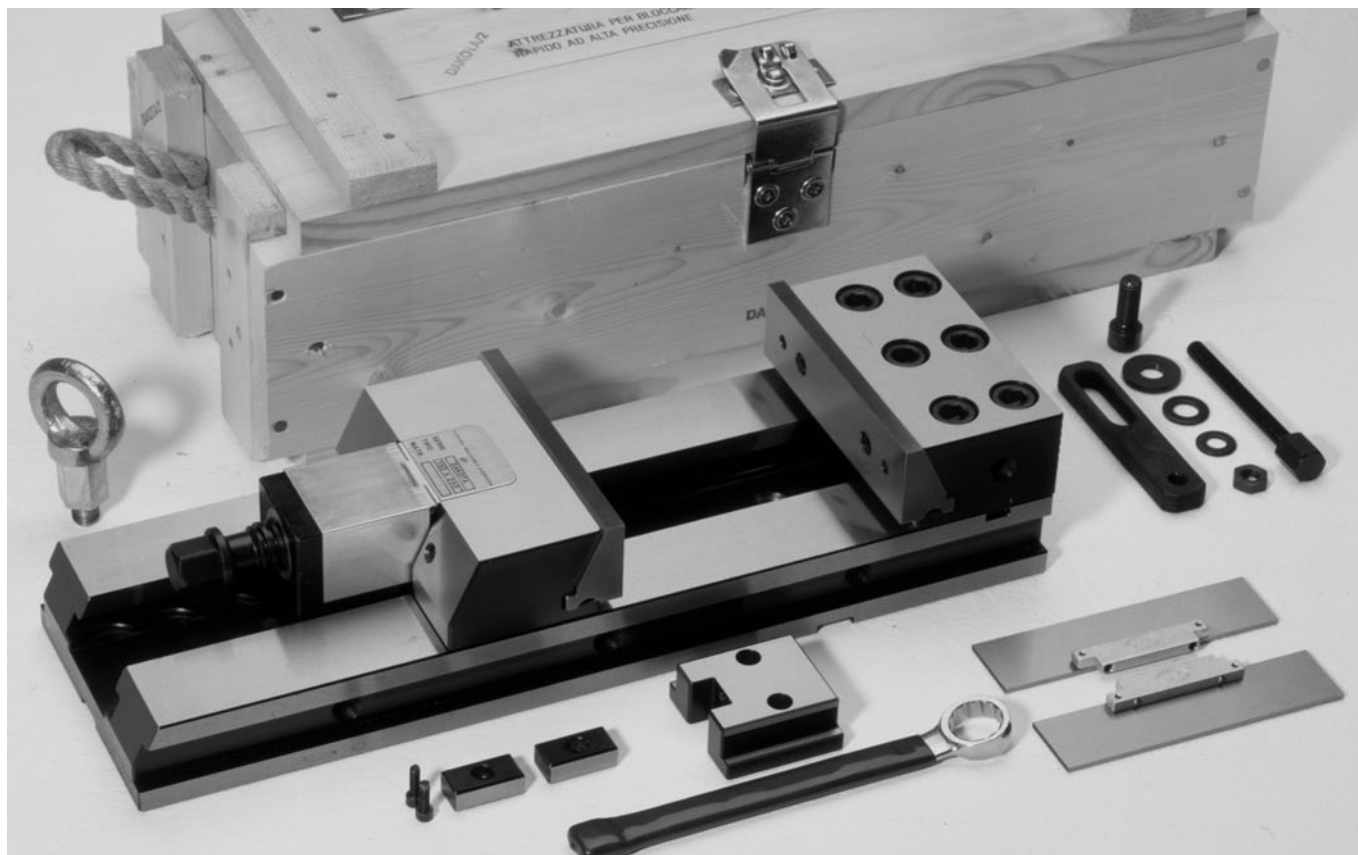


Cross key for T-slots M.T.

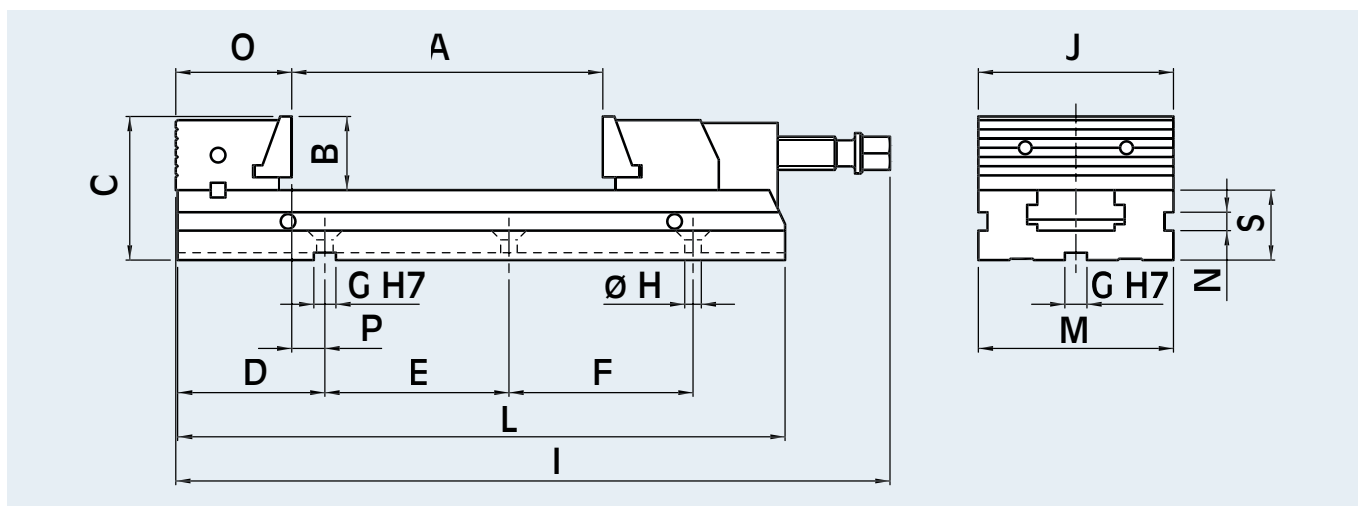


Parallels, Angulars parallels, Soft jaws quick change

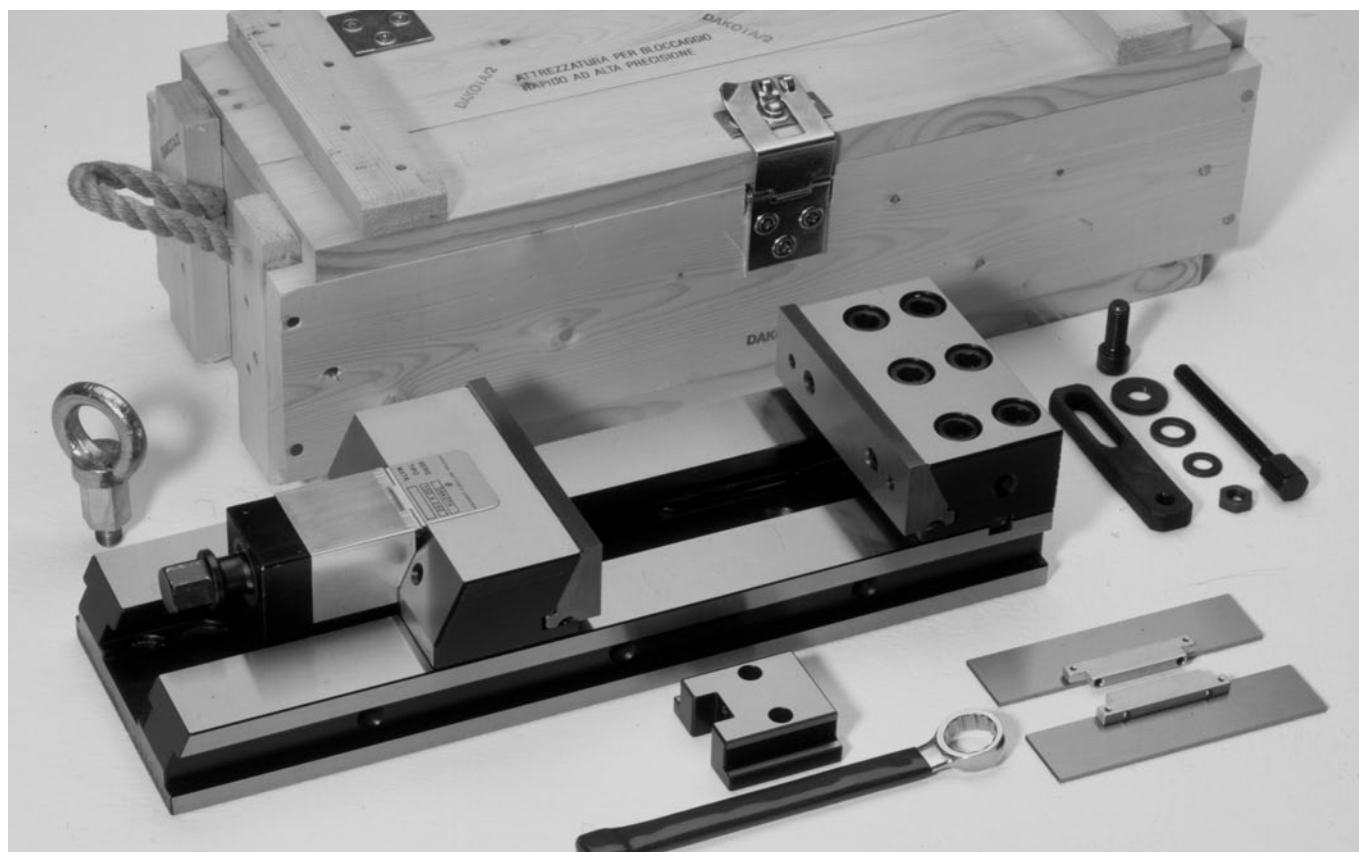




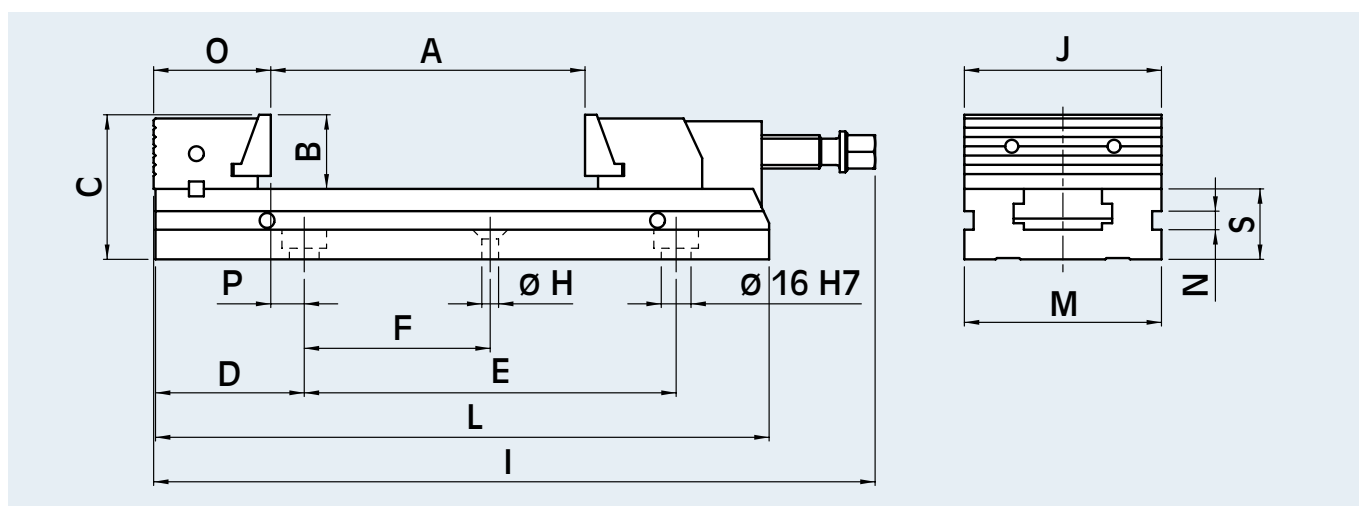
Clamping equipment Tct complete with wrench, work stop, rigid slide way, floating slide-way (for raw work-piece), pair of positioning keys, pair of CLAK parallels, cover for the protection of the screw, eye bolt for lifting, wooden packing case.



| Cod. | type | A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | S | Weight |
|-------------|---------------|-----|----|-----|-----|-----|-----|----|------|-----|-----|-----|-----|------|-----|----|----|--------|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 77 58 01 01 | Tct 110 x 100 | 100 | 40 | 78 | 80 | 150 | - | 12 | 9 | 338 | 110 | 280 | 110 | 10 | 63 | 18 | 38 | 11,5 |
| 77 58 01 02 | Tct 110 x 150 | 150 | 40 | 78 | 80 | 100 | 100 | 12 | 9 | 388 | 110 | 330 | 110 | 10 | 63 | 18 | 38 | 12,5 |
| 77 58 02 01 | Tct 150 x 200 | 200 | 50 | 98 | 114 | 200 | - | 18 | 12,5 | 481 | 150 | 413 | 150 | 13 | 85 | 30 | 48 | 27 |
| 77 58 02 02 | Tct 150 x 250 | 250 | 50 | 98 | 114 | 100 | 150 | 18 | 12,5 | 531 | 150 | 463 | 150 | 13 | 85 | 30 | 48 | 29 |
| 77 58 02 03 | Tct 150 x 300 | 300 | 50 | 98 | 114 | 100 | 100 | 18 | 12,5 | 588 | 150 | 520 | 150 | 13 | 85 | 30 | 48 | 31,5 |
| 77 58 03 01 | Tct 200 x 250 | 250 | 70 | 138 | 149 | 150 | 150 | 18 | 12,5 | 647 | 200 | 560 | 200 | 15,5 | 123 | 27 | 68 | 74 |
| 77 58 03 02 | Tct 200 x 300 | 300 | 70 | 138 | 149 | 200 | 200 | 18 | 12,5 | 697 | 200 | 610 | 200 | 15,5 | 123 | 27 | 68 | 78 |
| 77 58 03 03 | Tct 200 x 400 | 400 | 70 | 138 | 149 | 150 | 150 | 18 | 12,5 | 797 | 200 | 710 | 200 | 15,5 | 123 | 27 | 68 | 86 |



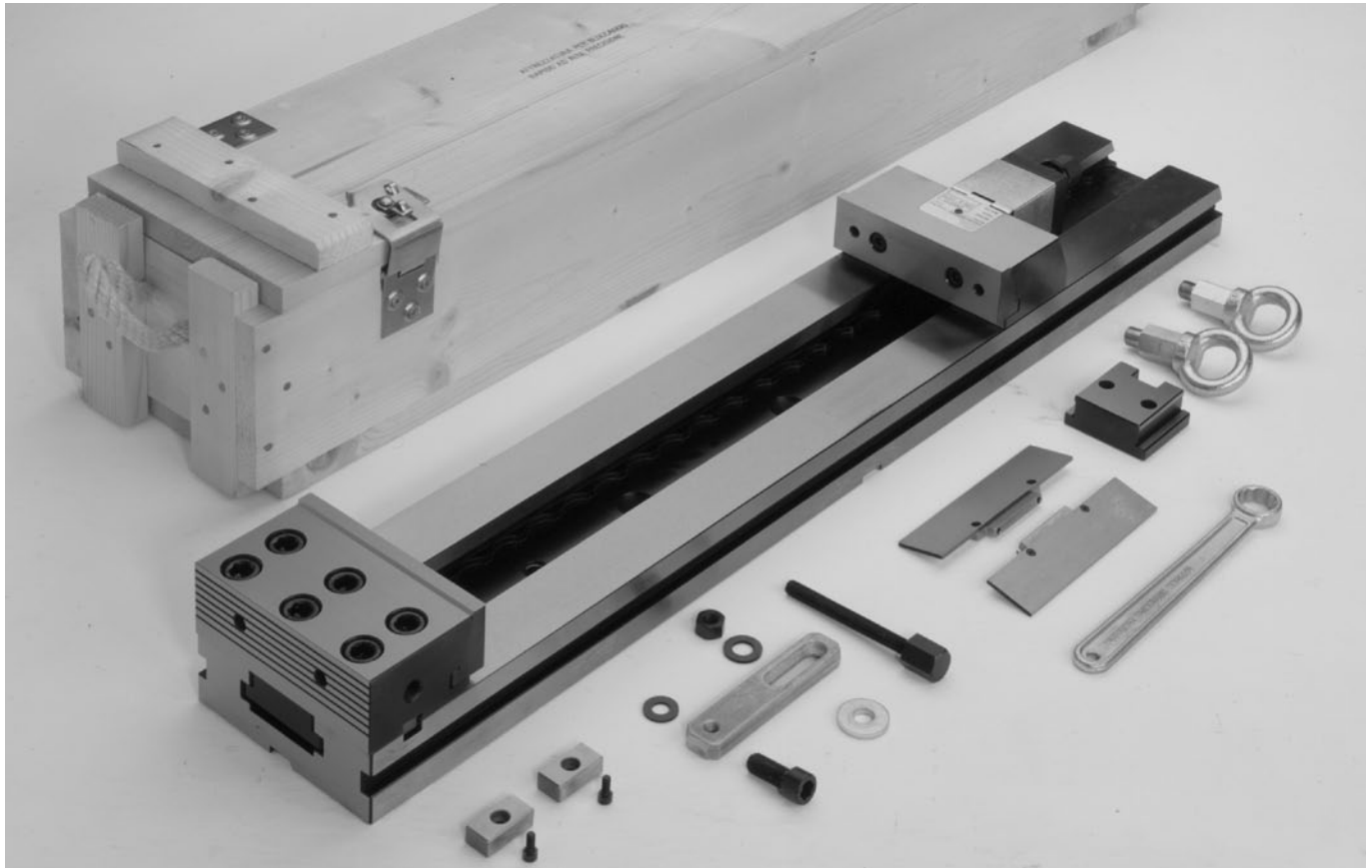
Clamping equipment TCg complete with wrench, work stop, rigid slide way, floating slide-way (for raw workpiece), pair of CLAK parallels, cover for the protection of the screw, eye bolt for lifting, wooden packing case.



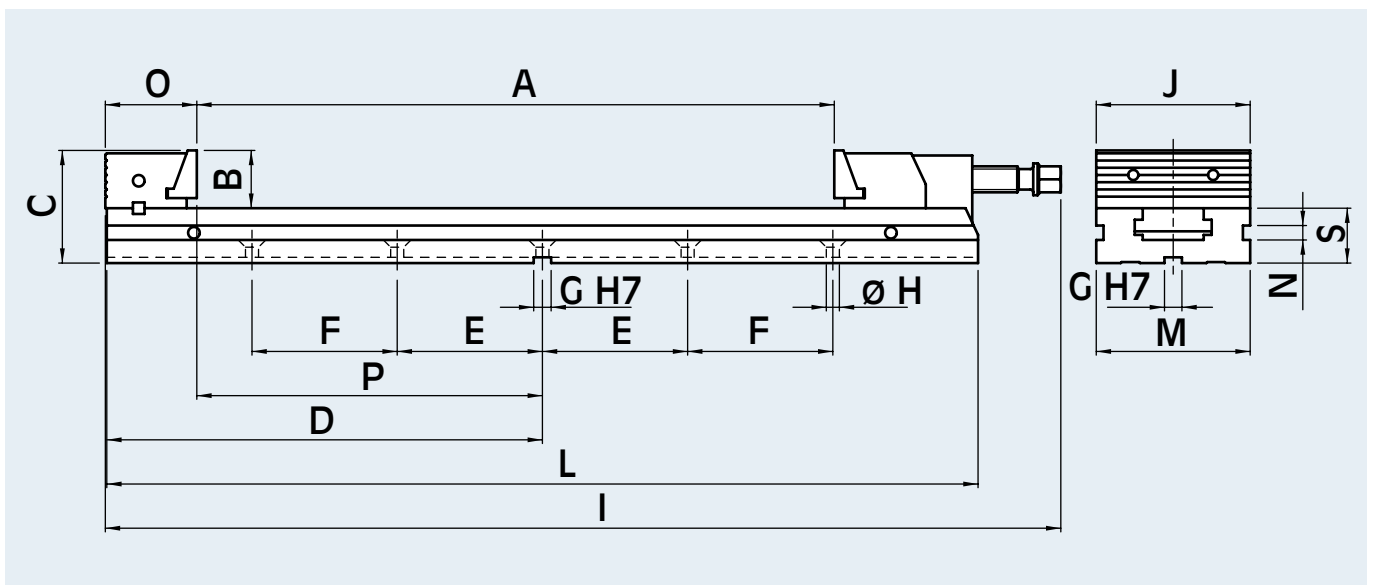
| Cod. | type | A | B | C | D | E | F | H | I | J | L | M | N | O | P | S | Weight |
|-------------|---------------|-----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|----|----|--------|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 77 58 01 07 | TCg 110 x 100 | 100 | 40 | 78 | 80 | 150 | - | 9 | 338 | 110 | 280 | 110 | 10 | 63 | 18 | 38 | 11,5 |
| 77 58 01 08 | TCg 110 x 150 | 150 | 40 | 78 | 80 | 200 | - | 9 | 388 | 110 | 330 | 110 | 10 | 63 | 18 | 38 | 12,5 |
| 77 58 02 07 | TCg 150 x 200 | 200 | 50 | 98 | 114 | 200 | - | 12,5 | 481 | 150 | 413 | 150 | 13 | 85 | 30 | 48 | 27 |
| 77 58 02 08 | TCg 150 x 250 | 250 | 50 | 98 | 114 | 200 | - | 12,5 | 531 | 150 | 463 | 150 | 13 | 85 | 30 | 48 | 29 |
| 77 58 03 07 | TCg 200 x 250 | 250 | 70 | 138 | 149 | 300 | 150 | 12,5 | 647 | 200 | 560 | 200 | 15,5 | 123 | 27 | 68 | 74 |
| 77 58 03 08 | TCg 200 x 300 | 300 | 70 | 138 | 149 | 400 | 200 | 12,5 | 697 | 200 | 610 | 200 | 15,5 | 123 | 27 | 68 | 78 |

* Other fixing and positioning holes dimensions upon request

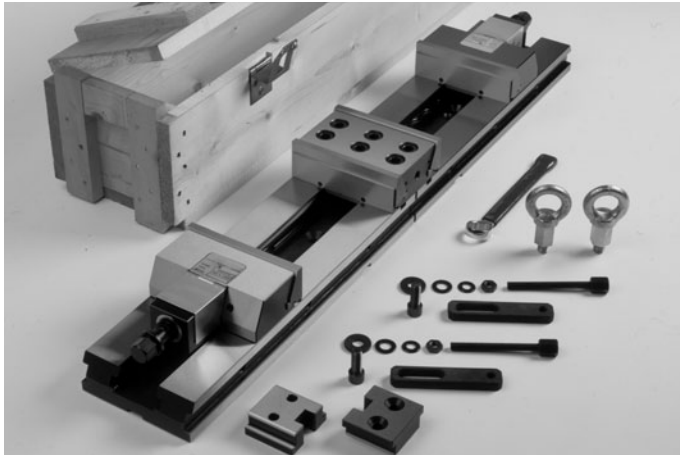
Tct - XL clamping equipment (for T slots)



Clamping equipment Tct-XL, complete with wrench, work stop, rigid slide-way, floating slide-way (for raw workpiece), pair of positioning keys, pair of CLAK parallels, cover for the protection of the screw, eye bolt for lifting, wooden packing case.

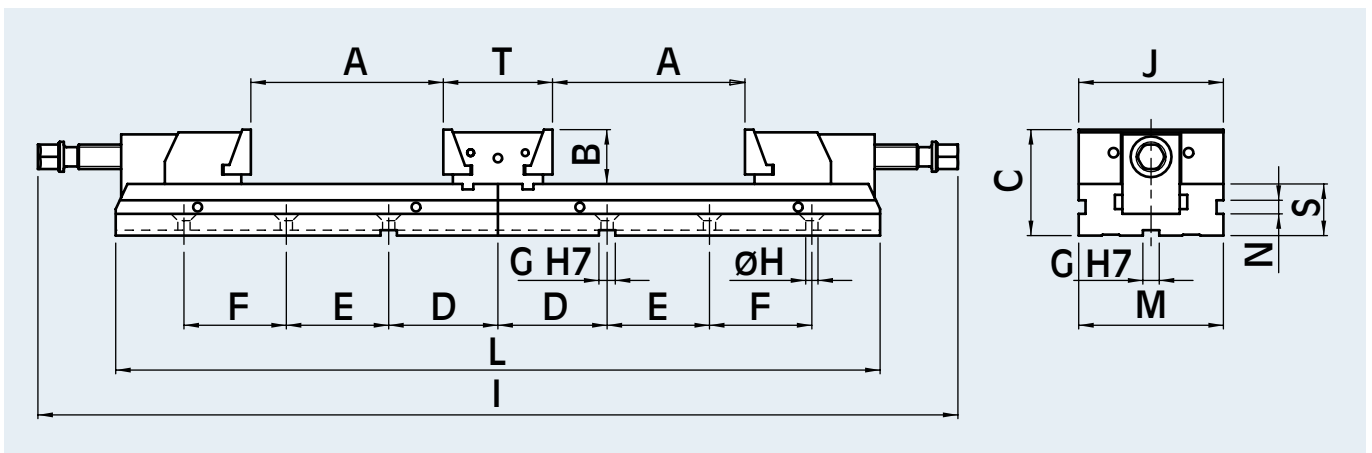


| Cod. | type | A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | S | Weight |
|-------------|------------------|-----|----|----|-----|-----|-----|----|------|-----|-----|-----|-----|----|----|-----|----|--------|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 77 58 01 04 | Tct-XL 110 x 425 | 425 | 40 | 78 | 300 | 100 | 100 | 12 | 9 | 658 | 110 | 600 | 110 | 10 | 63 | 238 | 38 | 18,2 |
| 77 58 02 04 | Tct-XL 150 x 545 | 545 | 50 | 98 | 379 | 100 | 150 | 18 | 12,5 | 825 | 150 | 758 | 150 | 13 | 85 | 295 | 48 | 40 |
| 77 58 02 05 | Tct-XL 150 x 665 | 665 | 50 | 98 | 439 | 100 | 200 | 18 | 12,5 | 946 | 150 | 878 | 150 | 13 | 85 | 355 | 48 | 44,7 |



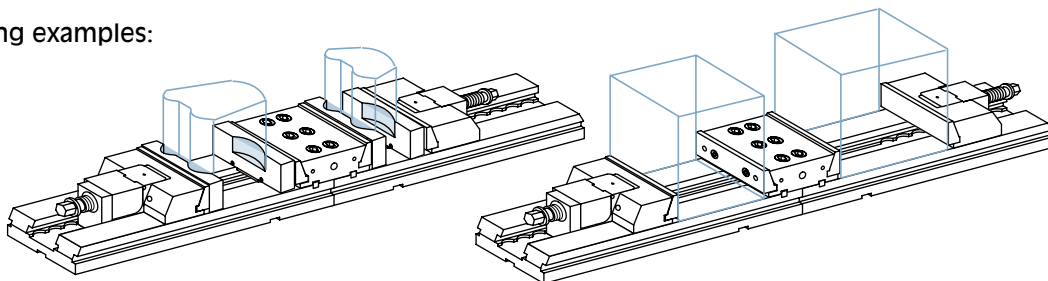
Double clamping equipment DCS-Tct complete with:

- 1 wrench,
- 2 work stops,
- 2 rigid slide-ways,
- 2 floating slide-ways (for raw workpiece),
- 1 pair of positioning keys,
- 2 pair of CLAK parallels,
- 2 covers for the protection of the screw,
- 2 eye bolts for lifting,
- wooden packing case.

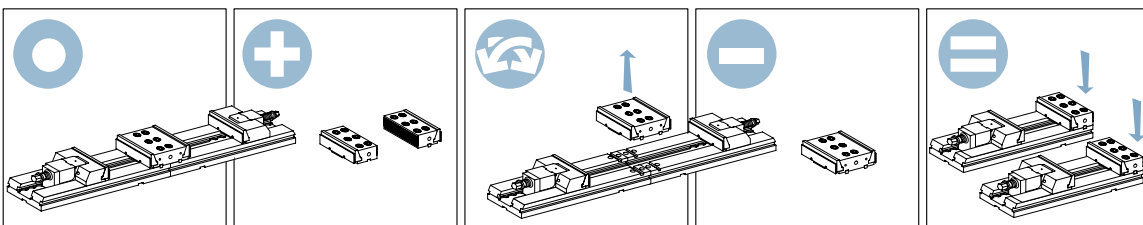


| Cod. | for type | A mm | B mm | C mm | D mm | E mm | F mm | G mm | H mm | I mm | J mm | L mm | M mm | N mm | S mm | T mm | Weight kg |
|-------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 77 58 11 01 | DCS-Tct 110 x 130 | 130 | 40 | 78 | 80 | 150 | - | 12 | 9 | 676 | 110 | 560 | 110 | 10 | 38 | 80 | 22 |
| 77 58 11 02 | DCS-Tct 110 x 180 | 180 | 40 | 78 | 80 | 100 | 100 | 12 | 9 | 776 | 110 | 660 | 110 | 10 | 38 | 80 | 24 |
| 77 58 12 01 | DCS-Tct 150 x 230 | 230 | 50 | 98 | 116 | 200 | - | 18 | 12,5 | 966 | 150 | 830 | 150 | 13 | 48 | 108 | 52 |
| 77 58 12 02 | DCS-Tct 150 x 280 | 280 | 50 | 98 | 116 | 100 | 150 | 18 | 12,5 | 1066 | 150 | 930 | 150 | 13 | 48 | 108 | 56 |
| 77 58 13 01 | DCS-Tct 200 x 280 | 280 | 70 | 138 | 150 | 150 | 150 | 18 | 12,5 | 1294 | 200 | 1122 | 200 | 15,5 | 68 | 194 | 136 |
| 77 58 13 02 | DCS-Tct 200 x 330 | 330 | 70 | 138 | 150 | 200 | 200 | 18 | 12,5 | 1394 | 200 | 1222 | 200 | 15,5 | 68 | 194 | 144 |

Working examples:



The modularity of the system combined with some other components offers many additional clamping solutions.

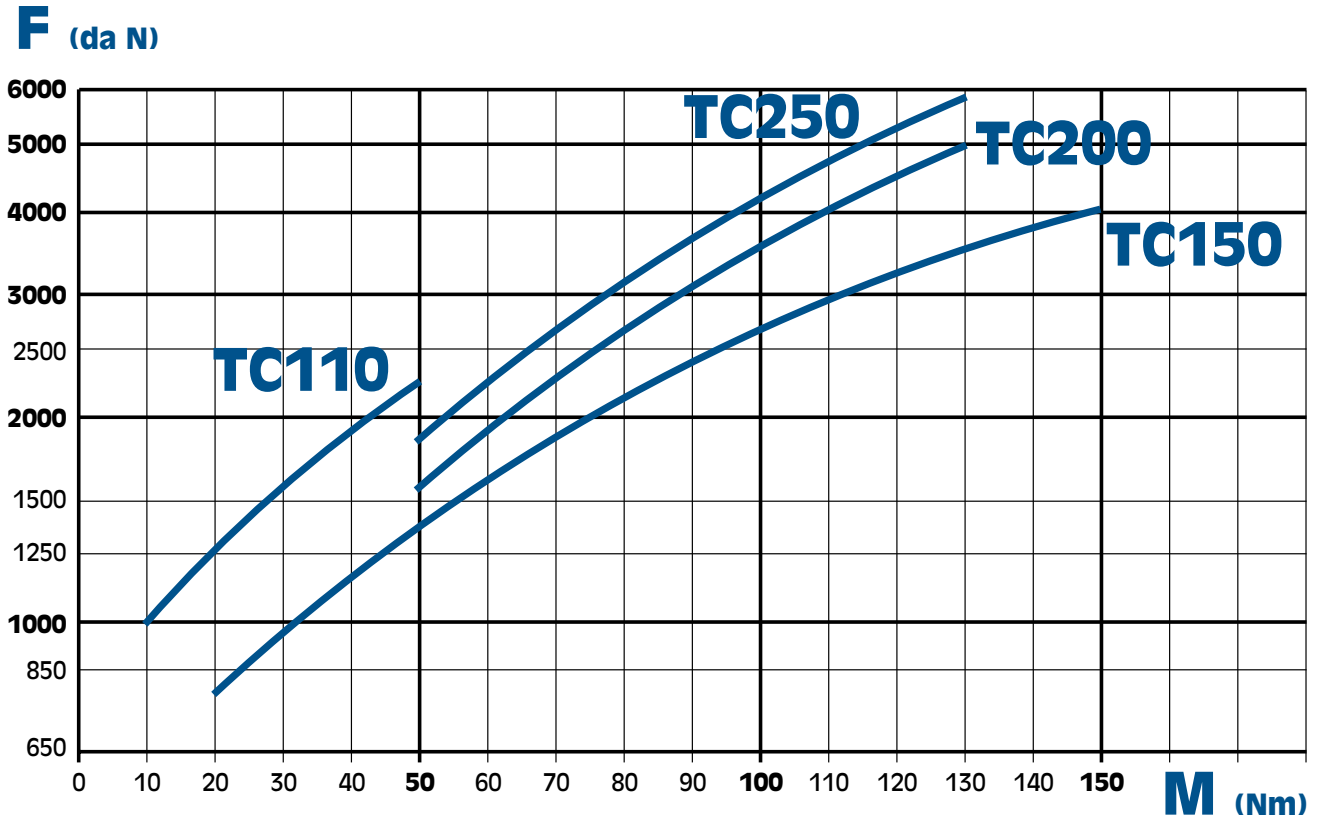


Operating instruction

Clamping the workpiece

For controlled clamping and the best repeatability use of a torque wrench is recommended:

- 1 clamp the workpiece with the torque wrench at the necessary clamping force in accordance with the following diagram
- 2 Zero set on the workpiece
- 3 Machine the first workpiece
- 4 Clamp the other workpieces at the same clamping force

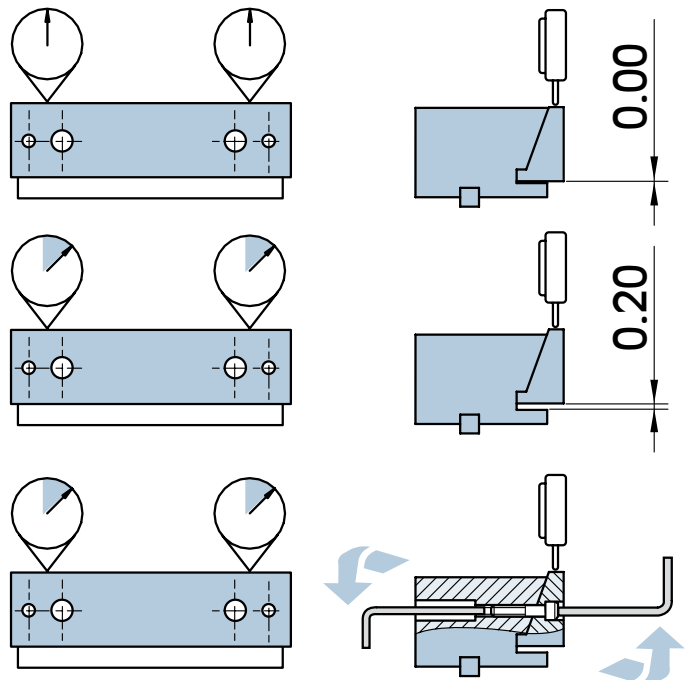


Jaw alignment

When it is necessary to replace the jaws in order to ensure the best part pull-down, we recommended the following steps:

1) make sure the jaws are properly secured to the support.

2) loosen the adjustment screws until the jaws are backed off about 0.2 mm. (0.008") tighten the lock nuts located on the back side of the support in the opposite direction of the adjustment screws

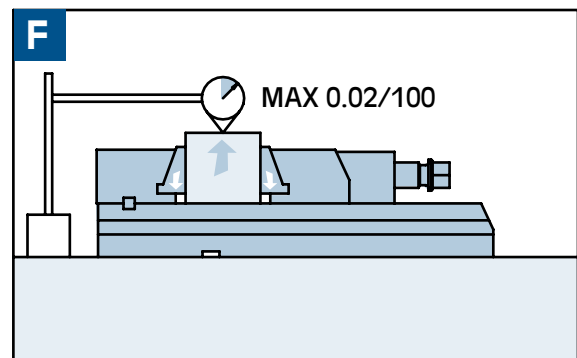
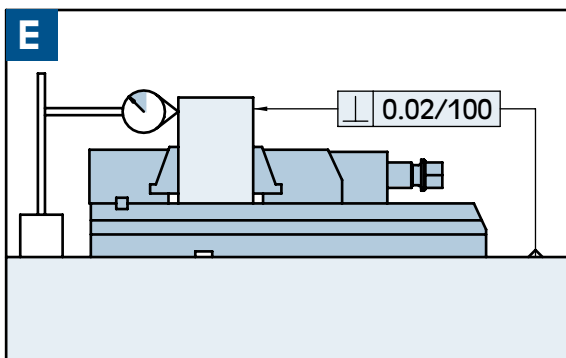
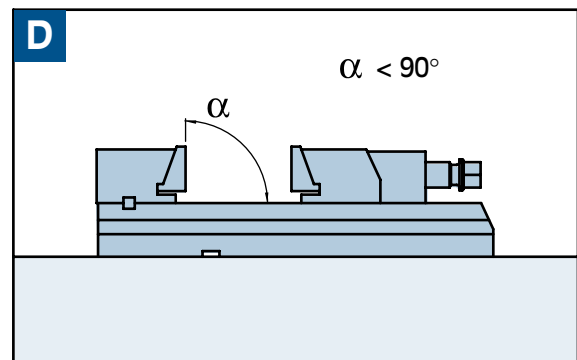
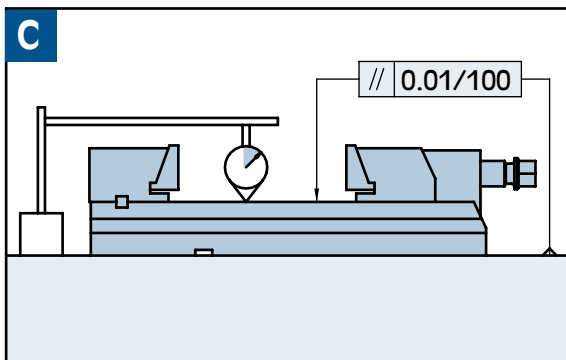
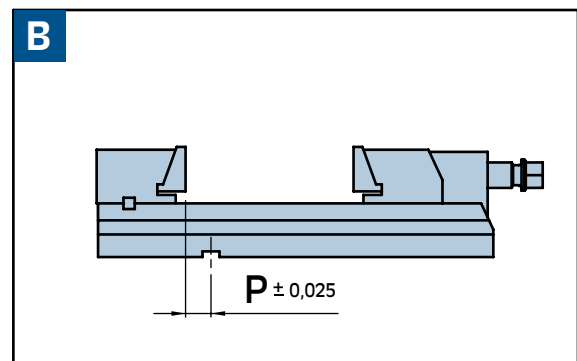
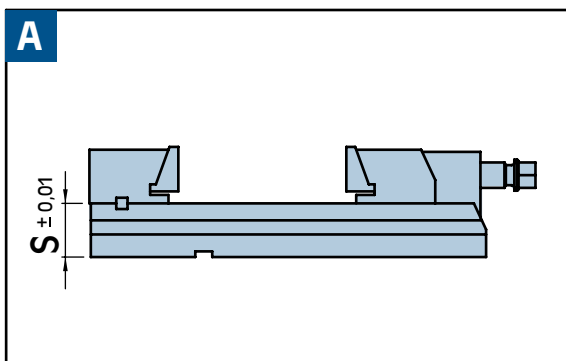
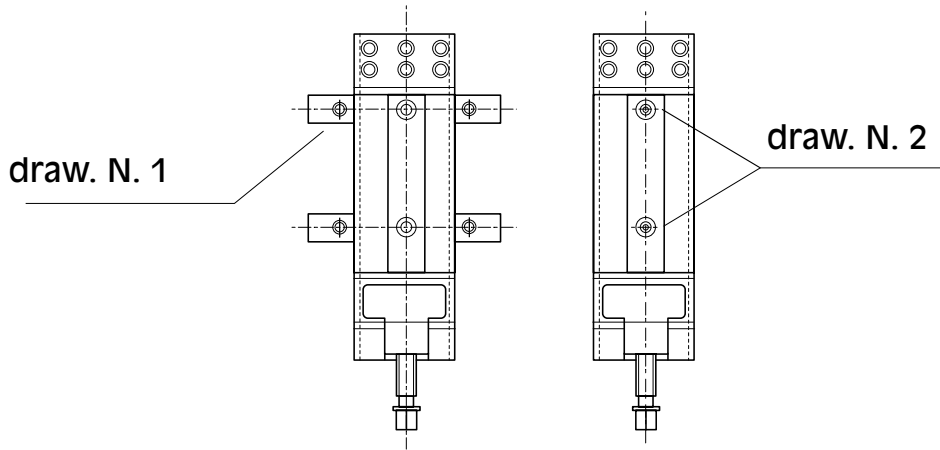


manufacturing tolerances

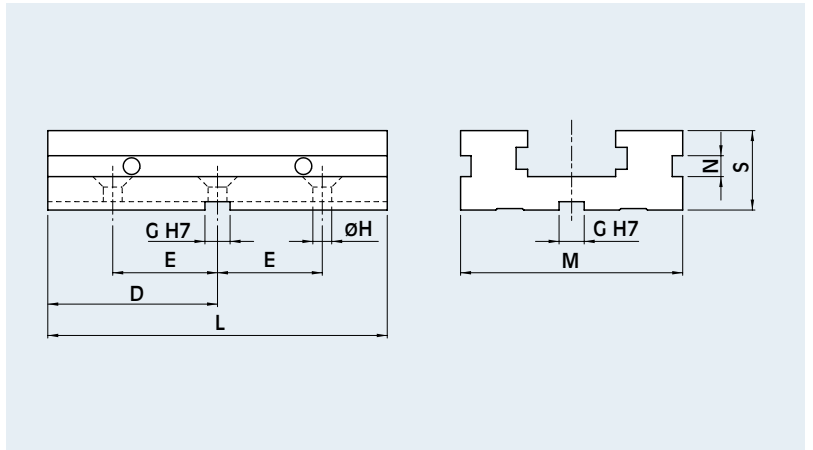
How to clamp the vises at the table of the machine tool.

In order to obtain a perfect clamping of the workpiece and in order to obtain the tolerances of which point " E " is necessary to clamp the vise on the table of the machine tool by means of the ORIGINAL OML'S CLAMPS (Ex cod. 58022795 see drawing n. 1).

Or by means of the T-nuts (58022595 see drawing n. 2)

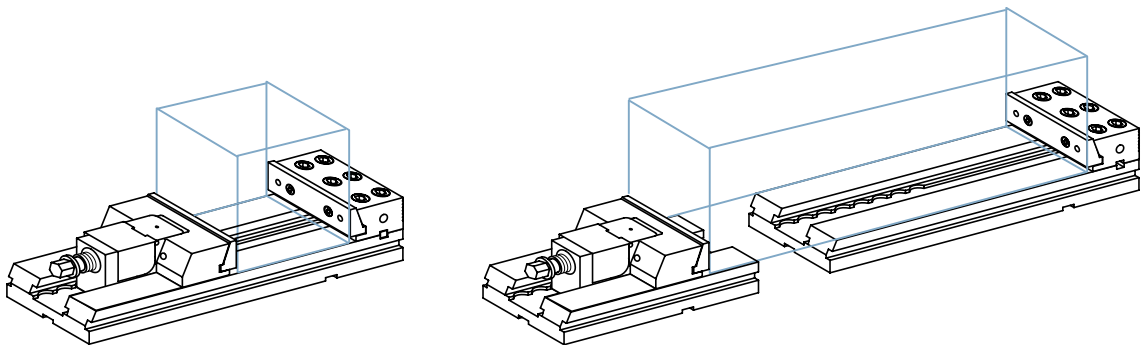


TCT extension element with pair of positioning keys

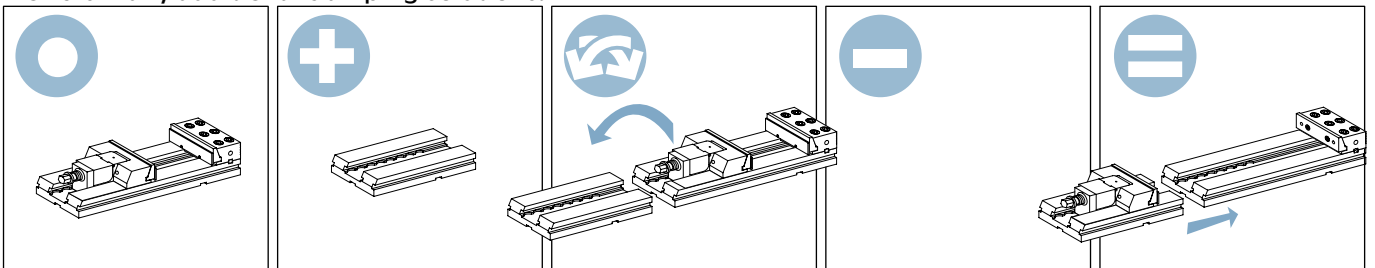


| Cod. | for type | D mm | E mm | G mm | H mm | L mm | M mm | N mm | S mm | Weight kg |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 58 01 17 00 | TCT 110 x ... | 81 | 50 | 12 | 9 | 162 | 110 | 10 | 38 | 3,5 |
| 58 02 17 00 | TCT 150 x ... | 114 | 75 | 18 | 12,5 | 228 | 150 | 13 | 48 | 9 |
| 58 03 17 00 | TCT 200 x ... | 150 | 100 | 18 | 12,5 | 300 | 200 | 15,5 | 68 | 22 |

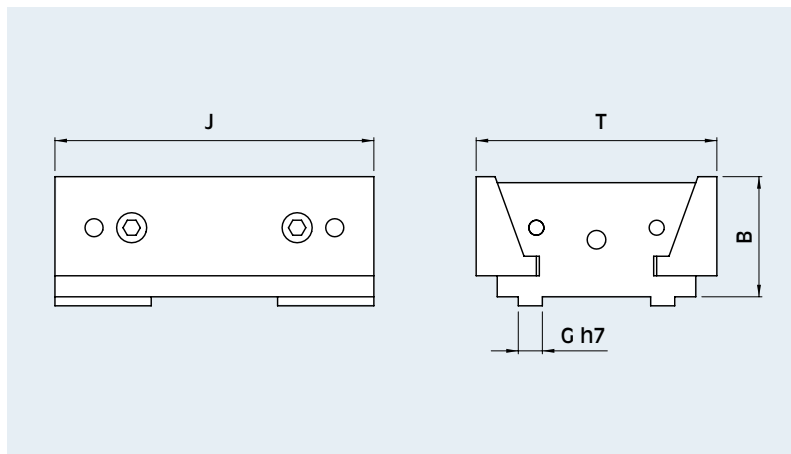
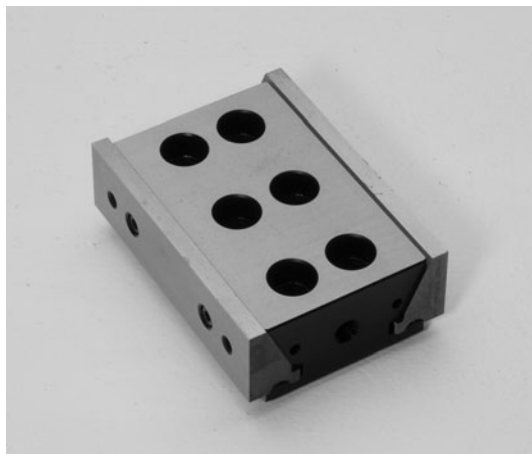
Working examples:



The modularity of the system combined with some other components offers many additional clamping solutions.



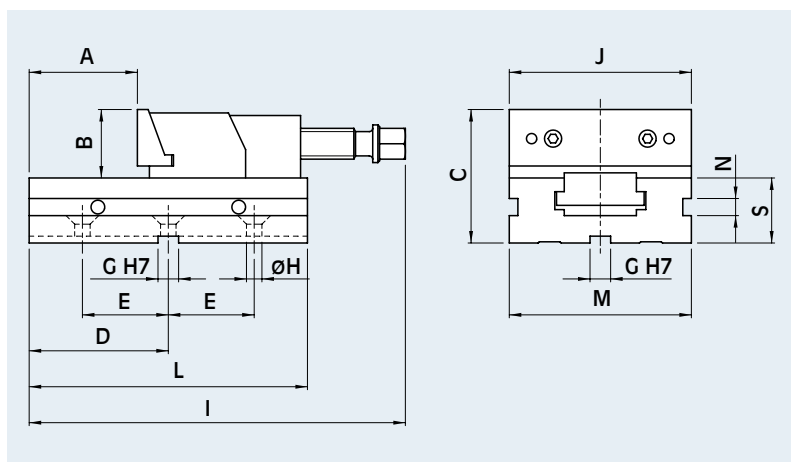
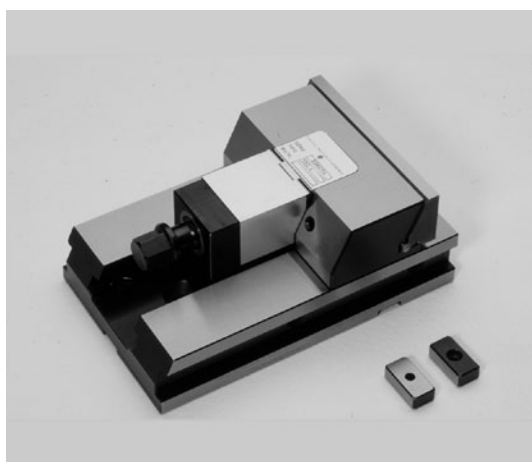
TC double fixed support with jaw



| Cod. | for type | B mm | G mm | J mm | T mm | Weight kg |
|-------------|--------------|---------|---------|---------|---------|--------------|
| 58 11 72 10 | TC 110 x ... | 40 | 8 | 110 | 80 | 2,2 |
| 58 12 72 10 | TC 150 x ... | 50 | 12 | 150 | 108 | 5 |
| 58 13 72 10 | TC 200 x ... | 70 | 14 | 200 | 194 | 11,6 |

Tct complete extension element

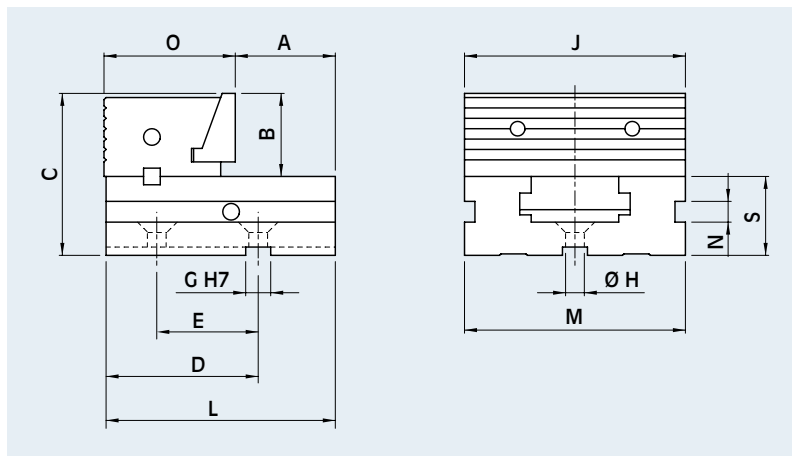
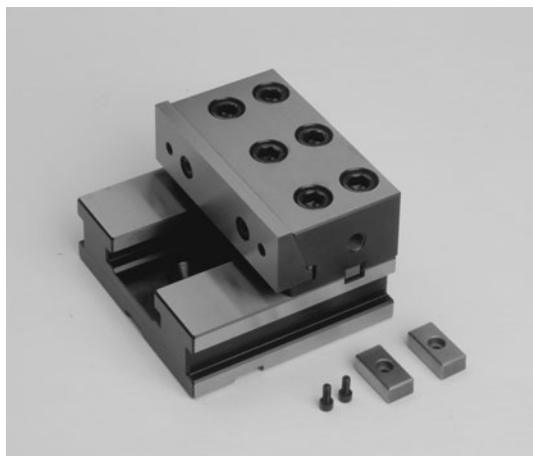
with pair of positioning keys h6 (by choice)



| Cod. | for type | A mm | B mm | C mm | D mm | E mm | G mm | H mm | I mm | J mm | L mm | M mm | N mm | S mm | Weight kg |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 58 01 71 10 | Tct 110 x ... | 60 | 40 | 78 | 81 | 50 | 12 | 9 | 220 | 110 | 162 | 110 | 10 | 38 | 6,2 |
| 58 02 71 10 | Tct 150 x ... | 100 | 50 | 98 | 114 | 75 | 18 | 12,5 | 295 | 150 | 228 | 150 | 13 | 48 | 15,1 |
| 58 03 71 10 | Tct 200 x ... | 120 | 70 | 138 | 150 | 100 | 18 | 12,5 | 390 | 200 | 300 | 200 | 15,5 | 68 | 39,2 |

TC base with fixed support with jaw

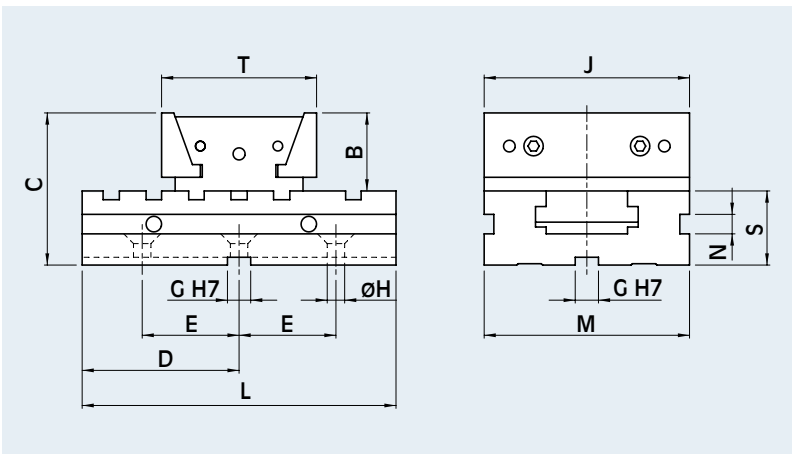
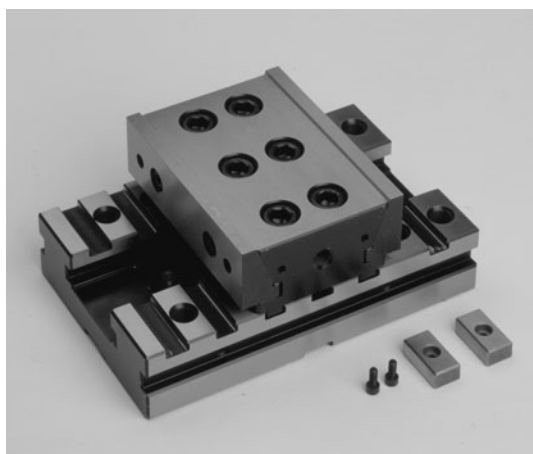
complete with pair of positioning keys h6 (by choice)



| Cod. | for type | A mm | B mm | C mm | D mm | E mm | G mm | H mm | J mm | L mm | M mm | N mm | O mm | S mm | Weight kg |
|-------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 58 01 70 10 | TcT 110 | 58 | 40 | 78 | 80 | 50 | 12 | 9 | 110 | 120 | 110 | 10 | 63 | 38 | 4 |
| 58 02 70 10 | TcT 150 | 81 | 50 | 98 | 114 | 75 | 18 | 12,5 | 150 | 165 | 150 | 13 | 85 | 48 | 9 |
| 58 03 70 10 | TcT 200 | 82 | 70 | 138 | 149 | 100 | 18 | 12,5 | 200 | 205 | 200 | 15,5 | 123 | 68 | 28 |

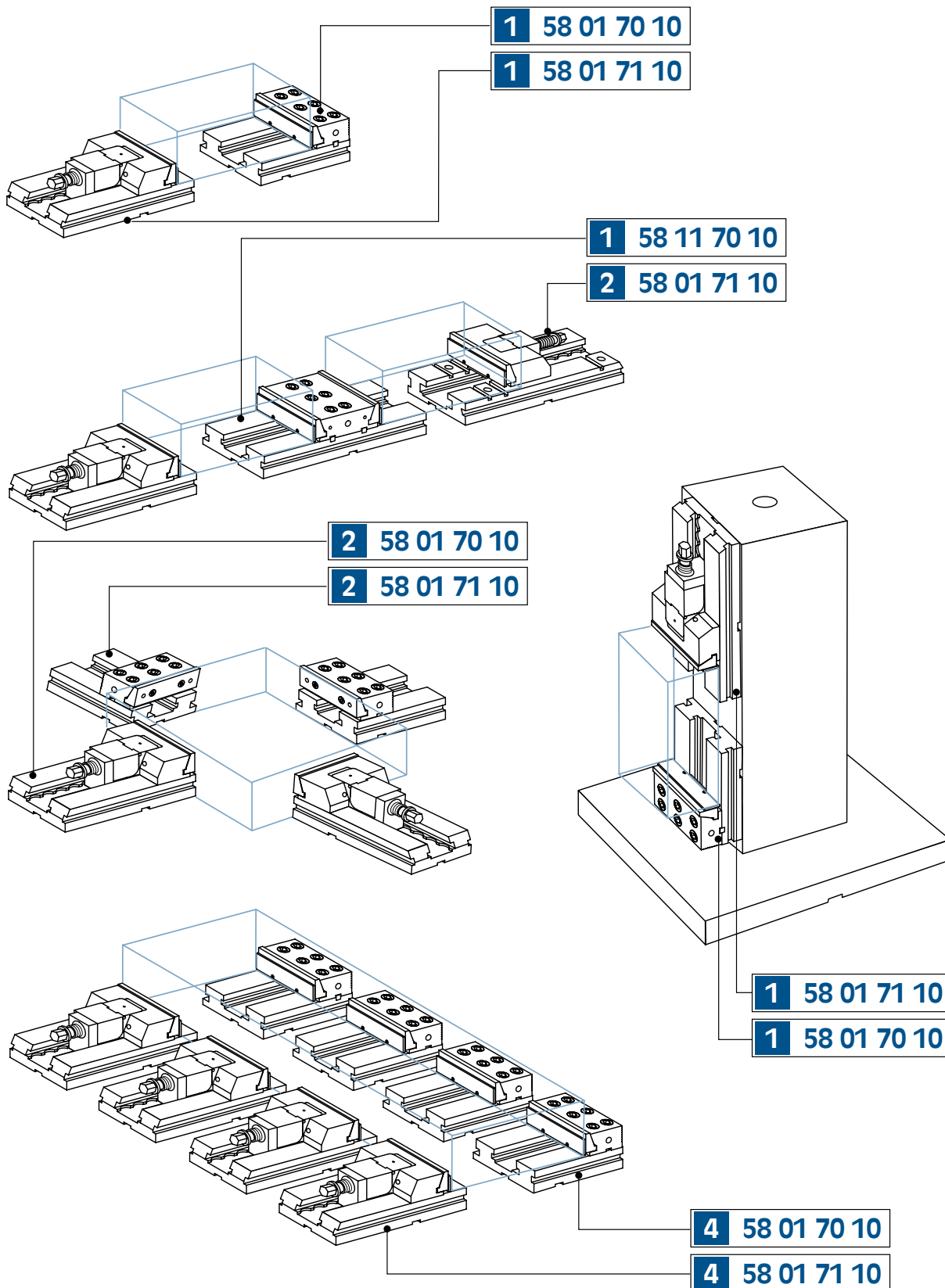
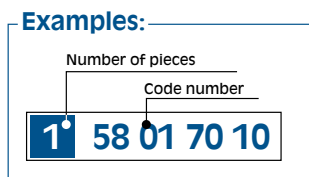
TC base with double fixed support with jaw

complete with pair of positioning keys h6 (by choice)



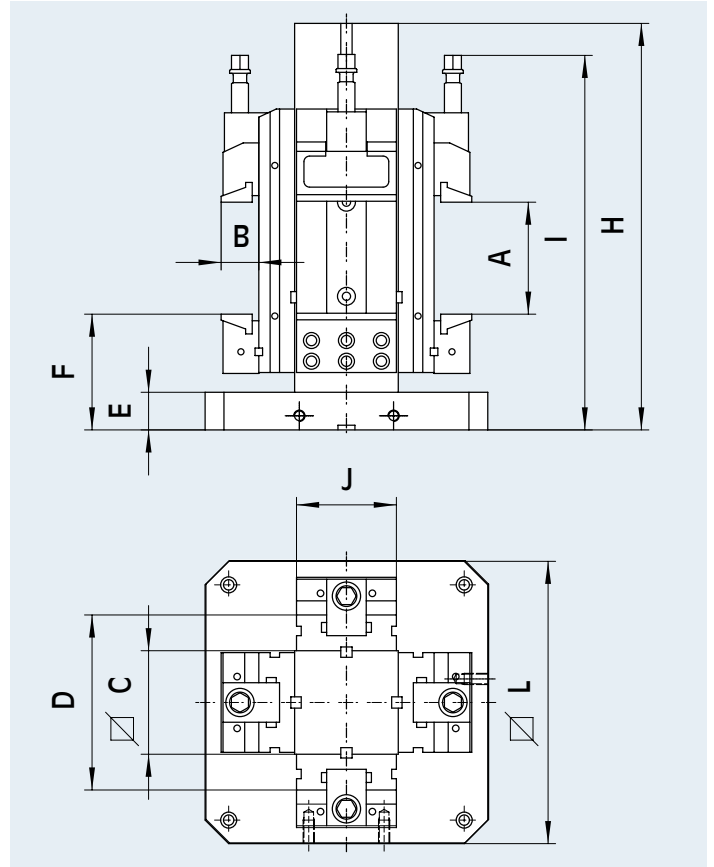
| Cod. | for type | B mm | C mm | D mm | E mm | G mm | H mm | J mm | L mm | M mm | N mm | S mm | T mm | Weight kg |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 58 11 70 10 | TcT 110 x ... | 40 | 78 | 81 | 50 | 12 | 9 | 110 | 162 | 110 | 10 | 38 | 80 | 5,6 |
| 58 12 70 10 | TcT 150 x ... | 50 | 98 | 114 | 75 | 18 | 12,5 | 150 | 228 | 150 | 13 | 48 | 108 | 13,5 |
| 58 13 70 10 | TcT 200 x ... | 70 | 138 | 150 | 100 | 18 | 12,5 | 150 | 300 | 200 | 15,5 | 68 | 194 | 34,7 |

Working examples



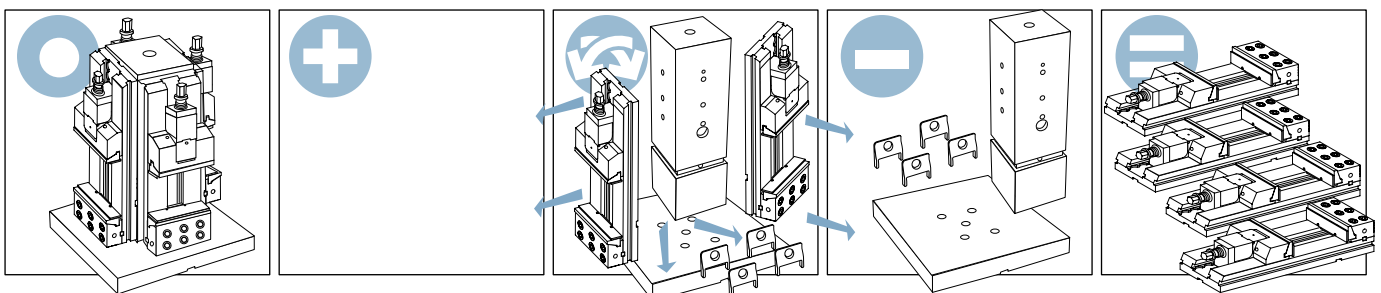
Vertical clamping system complete with:
 4 clamping equipment Tct
 1 column
 1 base for vertical system Tct
 4 pair of CLAK parallels
 4 covers for protection of the screws
 4 rigid slide-ways

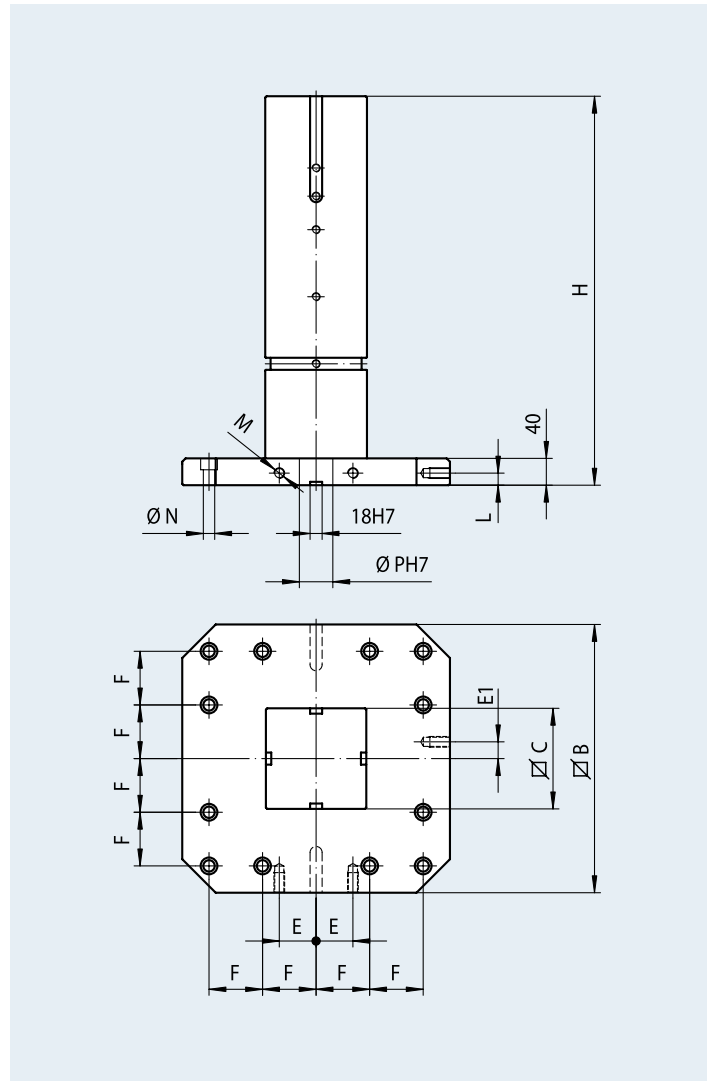
4 floating slide-ways (for raw workpieces)
 4 work stops
 4 wrenches
 eye bolt for lifting,
 wooden packing case



| Cod. | for type | A mm | B mm | C mm | D mm | E mm | F mm | H mm | I mm | J mm | L mm | Weight kg |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 77 58 21 11 | Tct 110 x 100 | 100 | 40 | 110 | 186 | 40 | 123 | 391 | 400 | 110 | 300 | 108 |
| 77 58 21 12 | Tct 110 x 150 | 150 | 40 | 110 | 186 | 40 | 123 | 391 | 450 | 110 | 300 | 112 |
| 77 58 22 21 | Tct 150 x 200 | 200 | 50 | 150 | 246 | 40 | 151 | 580 | 550 | 150 | 400 | 255 |
| 77 58 22 22 | Tct 150 x 250 | 250 | 50 | 150 | 246 | 40 | 151 | 580 | 600 | 150 | 400 | 263 |
| 77 58 22 23 | Tct 150 x 300 | 300 | 50 | 150 | 246 | 40 | 151 | 580 | 655 | 150 | 400 | 273 |
| 77 58 22 31 | Tct 150 x 200 | 200 | 50 | 150 | 246 | 40 | 151 | 580 | 550 | 150 | 500 | 282 |
| 77 58 22 32 | Tct 150 x 250 | 250 | 50 | 150 | 246 | 40 | 151 | 580 | 600 | 150 | 500 | 290 |
| 77 58 22 33 | Tct 150 x 300 | 300 | 50 | 150 | 246 | 40 | 151 | 580 | 655 | 150 | 500 | 300 |
| 77 58 23 31 | Tct 200 x 250 | 250 | 70 | 200 | 336 | 40 | 173 | 661 | 700 | 200 | 500 | 565 |
| 77 58 23 32 | Tct 200 x 300 | 300 | 70 | 200 | 336 | 40 | 173 | 661 | 750 | 200 | 500 | 580 |

The modularity of the system combined with same other components offers many additional clamping solutions.





| Cod. | type | B mm | C mm | E mm | E1 mm | F mm | H mm | L mm | M mm | N mm | P mm | Weight kg |
|-------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|--------------|
| 58 21 80 10 | TC 110 | 300 | 110 | 40 | 0 | 125 | 391 | 15 | 12 | 13 | 25 | 57 |
| 58 22 80 20 | TC 150 | 400 | 150 | 55 | 25 | 80 | 580 | 18 | 16 | 17 | 50 | 142 |
| 58 22 80 30 | TC 150 | 500 | 150 | 75 | 25 | 100 | 580 | 18 | 16 | 17 | 50 | 169 |
| 58 23 80 30 | TC 200 | 500 | 200 | 75 | 25 | 100 | 661 | 18 | 16 | 17 | 50 | 266 |

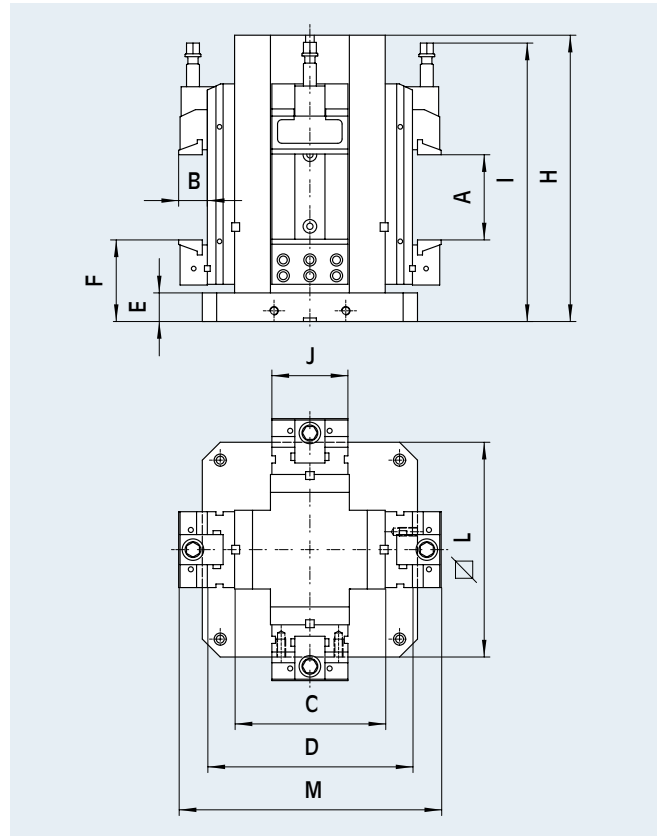
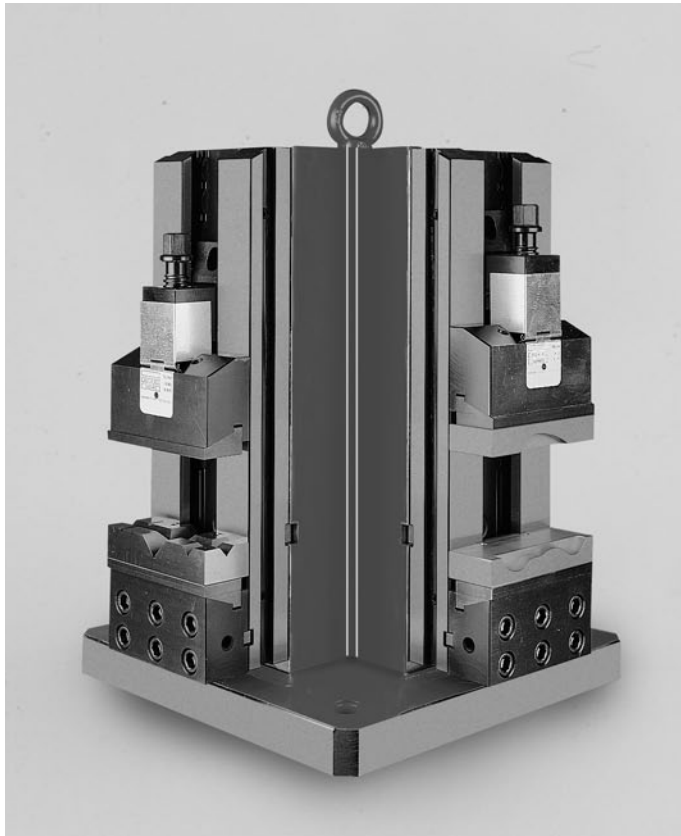


Insert for vertical use

| Cod. | for type |
|-------------|--------------|
| 58 21 33 00 | TC 110 x ... |
| 58 22 33 00 | TC 150 x ... |
| 58 23 33 00 | TC 200 x ... |

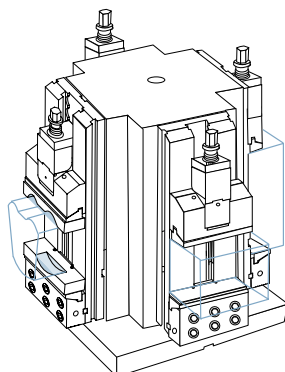
Vertical clamping system complete with:
 4 clamping equipment TCT
 1 cross cube
 4 pair of CLAK parallels
 4 covers for protection of the screws
 4 rigid slide-ways

4 floating slide-ways (for raw workpieces)
 4 work stops
 4 wrenches
 eye bolt for lifting
 wooden packing case



| Cod. | for type | A mm | B mm | C mm | D mm | E mm | F mm | H mm | I mm | J mm | L mm | M mm | Weight kg |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 77 58 51 11 | TCT 110 x 100 | 100 | 40 | 210 | 286 | 40 | 114 | 382 | 390 | 110 | 300 | 366 | 121 |
| 77 58 51 12 | TCT 110 x 150 | 150 | 40 | 210 | 286 | 40 | 114 | 382 | 440 | 110 | 300 | 366 | 125 |
| 77 58 52 21 | TCT 150 x 200 | 200 | 50 | 300 | 396 | 40 | 145 | 580 | 545 | 150 | 400 | 496 | 320 |
| 77 58 52 22 | TCT 150 x 250 | 250 | 50 | 300 | 396 | 40 | 145 | 580 | 595 | 150 | 400 | 496 | 328 |
| 77 58 52 23 | TCT 150 x 300 | 300 | 50 | 300 | 396 | 40 | 145 | 580 | 652 | 150 | 400 | 496 | 338 |
| 77 58 52 31 | TCT 150 x 200 | 200 | 50 | 300 | 396 | 40 | 145 | 580 | 545 | 150 | 500 | 496 | 348 |
| 77 58 52 32 | TCT 150 x 250 | 250 | 50 | 300 | 396 | 40 | 145 | 580 | 595 | 150 | 500 | 496 | 356 |
| 77 58 52 33 | TCT 150 x 300 | 300 | 50 | 300 | 396 | 40 | 145 | 580 | 652 | 150 | 500 | 496 | 366 |
| 77 58 53 31 | TCT 200 x 250 | 250 | 70 | 350 | 486 | 40 | 182 | 670 | 710 | 200 | 630 | 626 | 601 |
| 77 58 53 42 | TCT 200 x 300 | 300 | 70 | 350 | 486 | 45 | 182 | 670 | 760 | 200 | 630 | 626 | 675 |

Working examples:

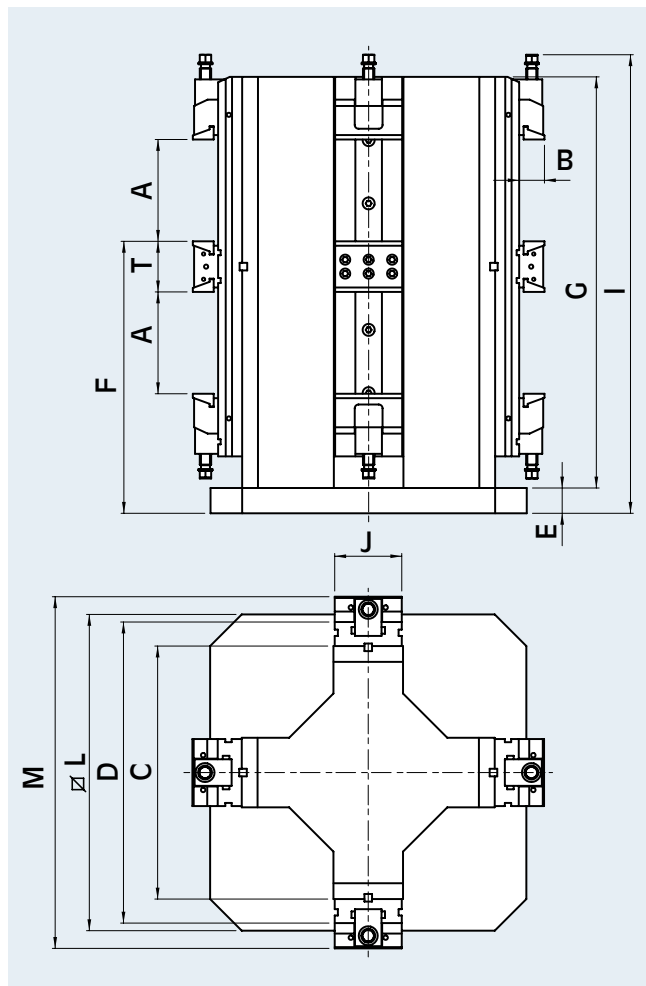
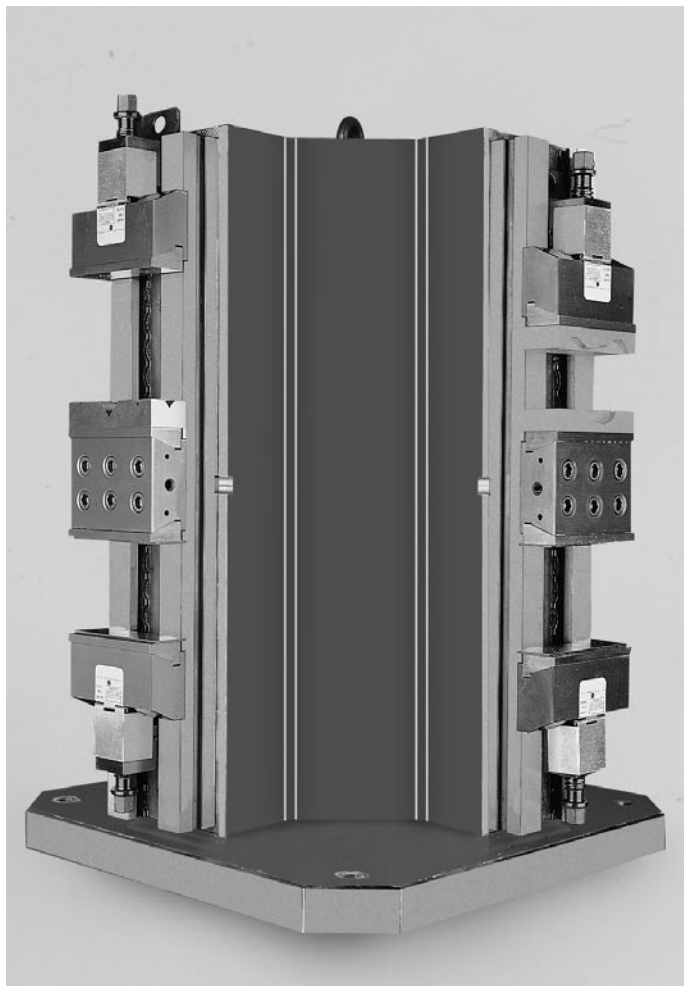


modular vertical double clamping systems

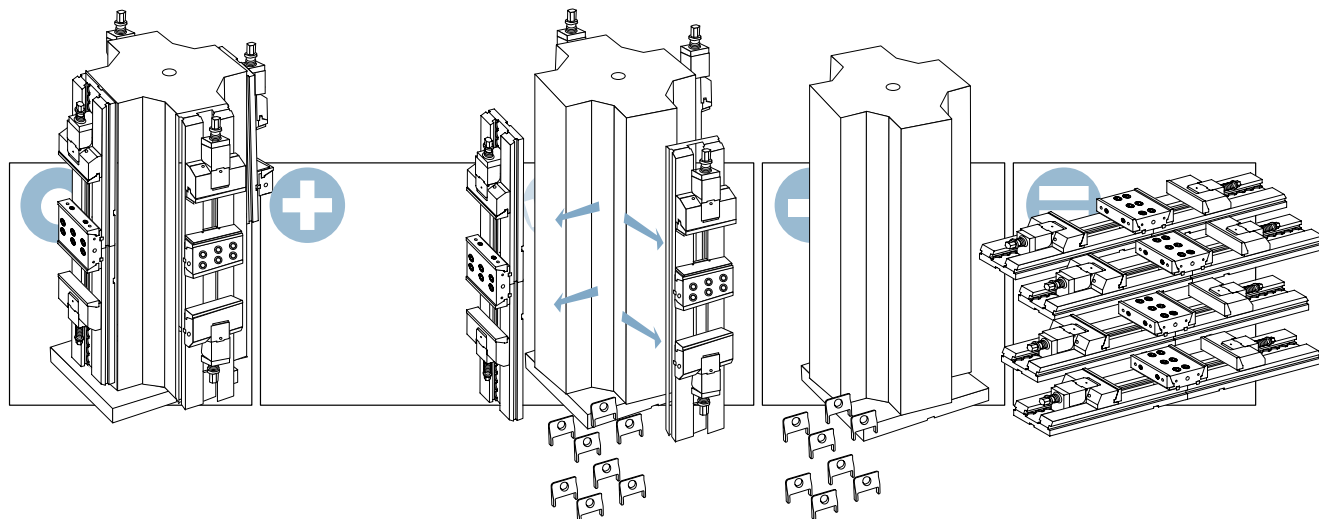
DVCS-Tct

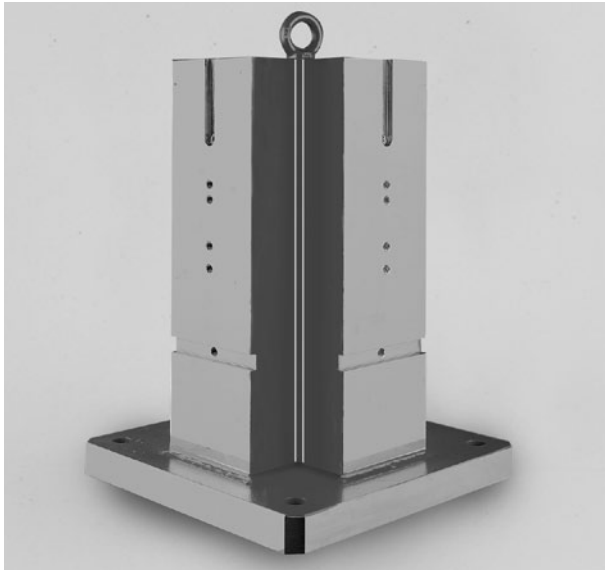
Vertical clamping system complete with:
 4 double clamping equipment TCT
 1 cross cube XL
 8 pair of CLAK parallels
 8 covers for protection of the screws
 8 rigid slide-ways

8 floating slide-ways (for raw workpieces)
 8 work stops
 8 wrenches
 8 inserts for vertical use
 eye bolt for lifting
 wooden packing case

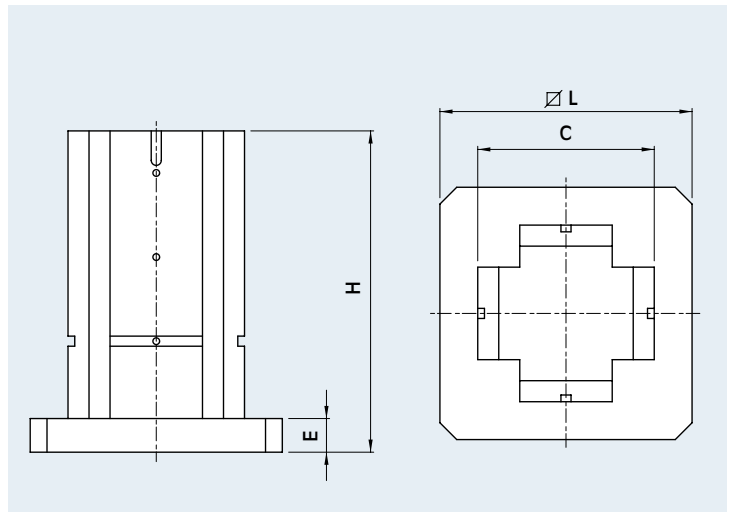


| Cod. | for type | A mm | B mm | C mm | D mm | E mm | F mm | G mm | I mm | J mm | L mm | M mm | T mm | Weight kg |
|-------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|
| 77 58 61 01 | DVCS-Tct 110 x 155 | 155 | 40 | 400 | 476 | 40 | 430 | 650 | 725 | 110 | 500 | 556 | 80 | 352 |
| 77 58 62 01 | DVCS-Tct 150 x 195 | 195 | 50 | 550 | 646 | 45 | 515 | 795 | 890 | 150 | 630 | 746 | 108 | 647 |





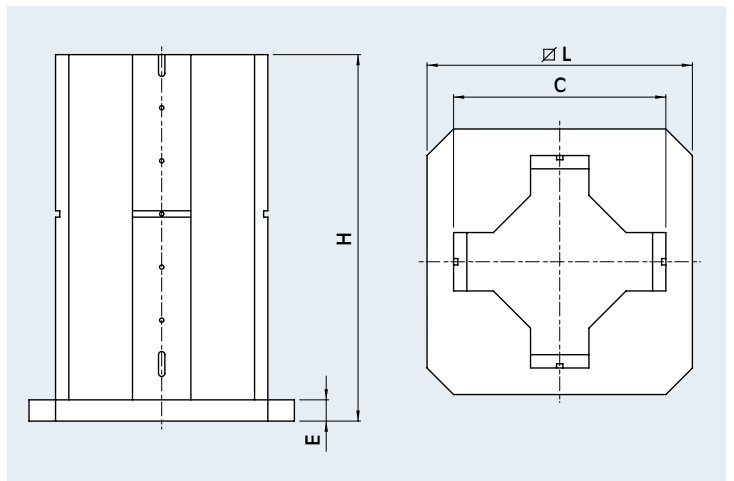
Cross cube for VCS-Tct



| Cod. | for type | C mm | E mm | H mm | L mm | Weight kg |
|-------------|----------|---------|---------|---------|---------|--------------|
| 58 51 80 10 | Tct 110 | 210 | 40 | 382 | 300 | 75 |
| 58 52 80 20 | Tct 150 | 300 | 40 | 580 | 400 | 212 |
| 58 52 80 30 | Tct 150 | 300 | 40 | 580 | 500 | 240 |
| 58 53 80 30 | Tct 200 | 350 | 40 | 670 | 500 | 305 |
| 58 53 80 40 | Tct 200 | 350 | 45 | 670 | 630 | 363 |



Cross cube for DVCS-Tct



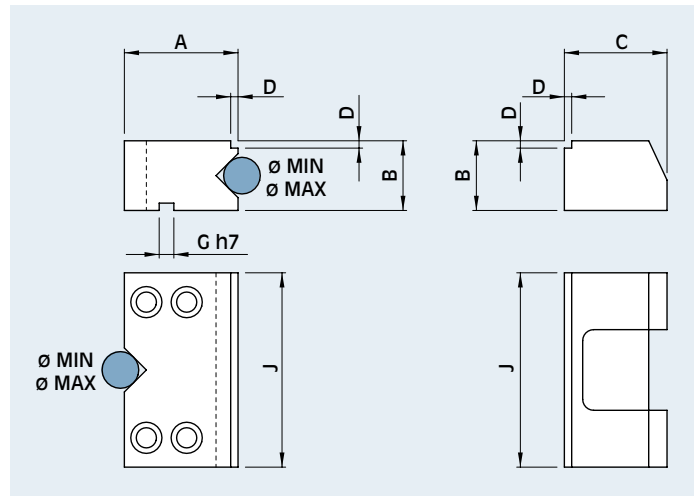
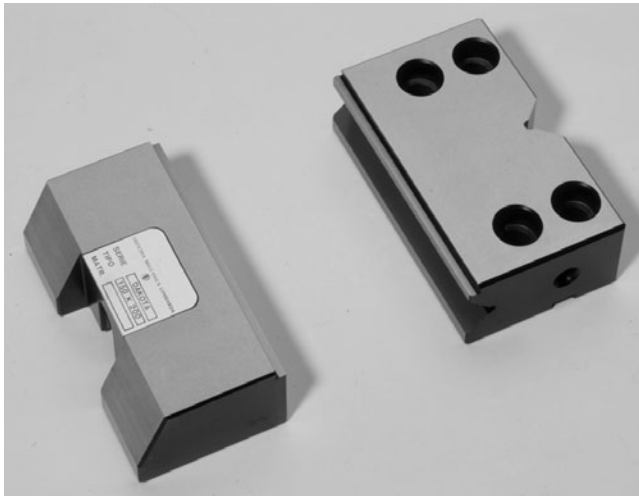
| Cod. | for type | C mm | E mm | H mm | L mm | Weight kg |
|-------------|--------------------|---------|---------|---------|---------|--------------|
| 58 61 80 00 | DVCS-Tct 110 x ... | 400 | 40 | 690 | 500 | 266 |
| 58 62 80 00 | DVCS-Tct 150 x ... | 550 | 45 | 840 | 630 | 458 |



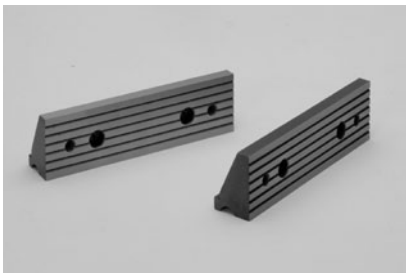
Insert for vertical use

| cod. | for type |
|-------------|-------------------|
| 58 21 33 00 | VCS-Tct 110 x ... |
| 58 22 33 00 | VCS-Tct 150 x ... |
| 58 23 33 00 | VCS-Tct 200 x ... |

Pair of V jaws



| Cod. | for type | A mm | B mm | C mm | D mm | G mm | J mm | Ø MIN mm | Ø MAX mm | Weight kg |
|-------------|--------------|---------|---------|---------|---------|---------|---------|-------------|-------------|--------------|
| 58 01 40 00 | TC 110 x ... | 63 | 38 | 56 | 4 | 8 | 110 | 10 | 24 | 3,1 |
| 58 02 40 00 | TC 150 x ... | 85 | 48 | 75 | 5 | 12 | 150 | 15 | 38 | 7,2 |
| 58 03 40 00 | TC 200 x ... | 123 | 68 | 110 | 5 | 14 | 200 | 20 | 48 | 21,5 |



Pair of grooved jaws

| Cod. | type |
|-------------|--------------|
| 58 01 44 09 | TC 110 x ... |
| 58 02 44 09 | TC 150 x ... |
| 58 03 44 09 | TC 200 x ... |



Insert for vertical use

(MVS, VCS, DVCS)

| Cod. | for type |
|-------------|--------------|
| 58 21 33 00 | TC 110 x ... |
| 58 22 33 00 | TC 150 x ... |
| 58 23 33 00 | TC 200 x ... |



Torque wrench

| cod. | type |
|-------------|--------------|
| 51 50 10 01 | TC 110 x ... |
| 51 50 10 02 | TC 150 x ... |
| 51 50 10 03 | TC 200 x ... |



Air/oil block

complete with cylinder and tang

| Cod. | for type |
|-------------|--------------|
| 58 01 75 00 | TC 110 x ... |
| 58 02 75 00 | TC 150 x ... |
| 58 03 75 00 | TC 200 x ... |



Air/oil foot pump

with joining pipe cm 180 (71") and complete block for air/oil application.

| Cod. | for type |
|-------------|--------------|
| 77 58 01 51 | TC 110 x ... |
| 77 58 02 51 | TC 150 x ... |
| 77 58 03 51 | TC 200 x ... |



Air/oil foot pump

| Cod. | for type |
|-------------|--------------|
| 71 66 03 05 | TC 110 x ... |
| 71 66 03 05 | TC 150 x ... |
| 71 66 03 05 | TC 200 x ... |



Air/oil manual pump

| Cod. | for type |
|-------------|--------------|
| 71 66 03 15 | TC 110 x ... |
| 71 66 03 15 | TC 150 x ... |
| 71 66 03 15 | TC 200 x ... |



Pressure-gauge

| Cod. | for type |
|-------------|--------------|
| 51 43 12 51 | TC 110 x ... |
| 51 43 12 51 | TC 150 x ... |
| 51 43 12 51 | TC 200 x ... |



Joining pipe M. 1,80 (71")

| Cod. | type |
|-------------|--------------|
| 71 70 87 13 | TC 110 x ... |
| 71 70 87 13 | TC 150 x ... |
| 71 70 87 13 | TC 200 x ... |



Joining pipe M. 3 (118")

| cod. | for type |
|-------------|----------|
| 71 70 87 14 | TC - 110 |
| 71 70 87 14 | TC - 150 |
| 71 70 87 14 | TC - 200 |



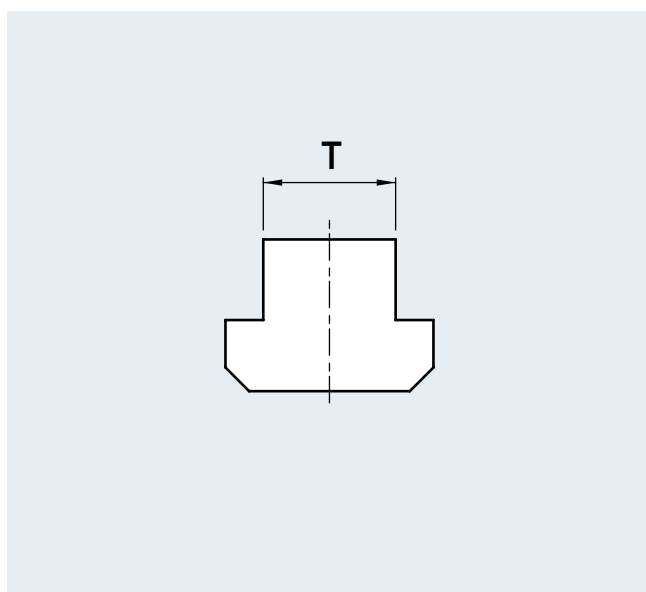
Joining pipe M. 6 (236")

| Cod. | type |
|-------------|--------------|
| 71 70 87 15 | TC 110 x ... |
| 71 70 87 15 | TC 150 x ... |
| 71 70 87 15 | TC 200 x ... |

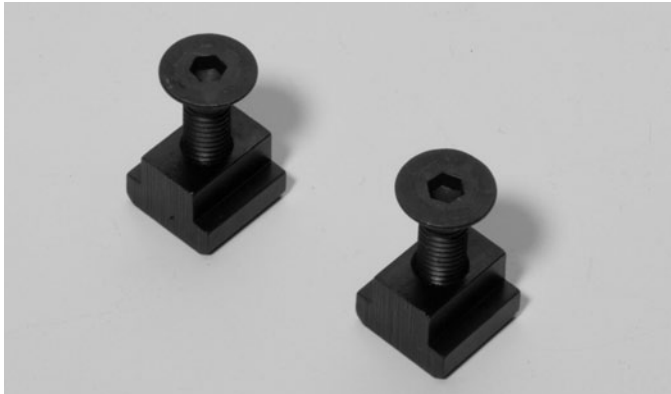


Pair of clamps

complete with screws and T nuts

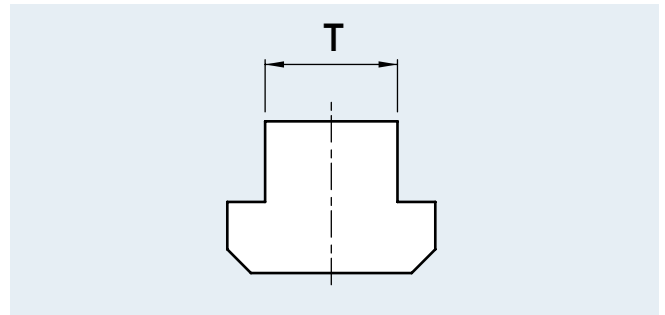


| Code for T-slots | | | | | | for type |
|------------------|-------------|-------------|-------------|-------------|-------------|---------------|
| mm 12 | mm 14 | mm 16 | mm 18 | mm 20 | mm 22 | |
| 58 01 27 92 | 58 01 27 93 | 58 01 27 94 | 58 01 27 95 | 58 01 27 96 | 58 01 27 97 | TCt 110 x ... |
| 58 02 27 92 | 58 02 27 93 | 58 02 27 94 | 58 02 27 95 | 58 02 27 96 | 58 02 27 97 | TCt 150 x ... |
| 58 03 27 92 | 58 03 27 93 | 58 03 27 94 | 58 03 27 95 | 58 03 27 96 | 58 03 27 97 | TCt 200 x ... |



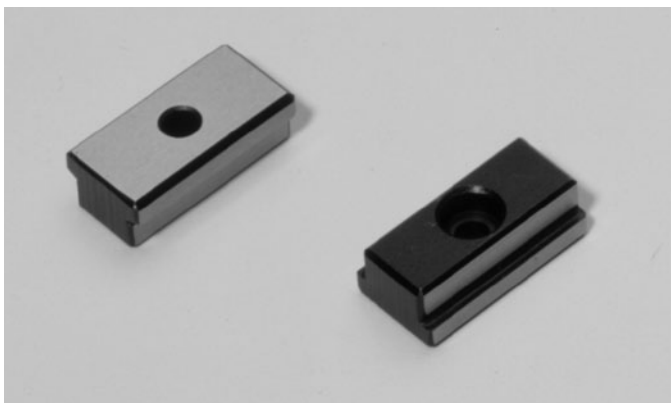
Pair of T nuts

Complete with screws at 45°



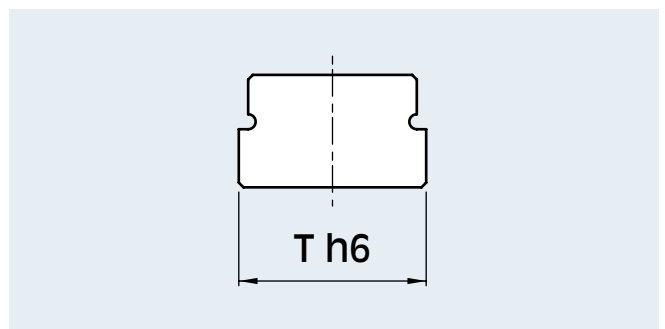
| Code for T-slots | | | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|
| mm 12 | mm 14 | mm 16 | mm 18 | mm 20 | mm 22 |
| 58 01 25 92 | 58 01 25 93 | 58 01 25 94 | 58 01 25 95 | 58 01 25 96 | 58 01 25 97 |
| 58 02 25 92 | 58 02 25 93 | 58 02 25 94 | 58 02 25 95 | 58 02 25 96 | 58 02 25 97 |
| 58 03 25 92 | 58 03 25 93 | 58 03 25 94 | 58 03 25 95 | 58 03 25 96 | 58 03 25 97 |

for type
 TCt 110 x ...
 TCt 150 x ...
 TCt 200 x ...



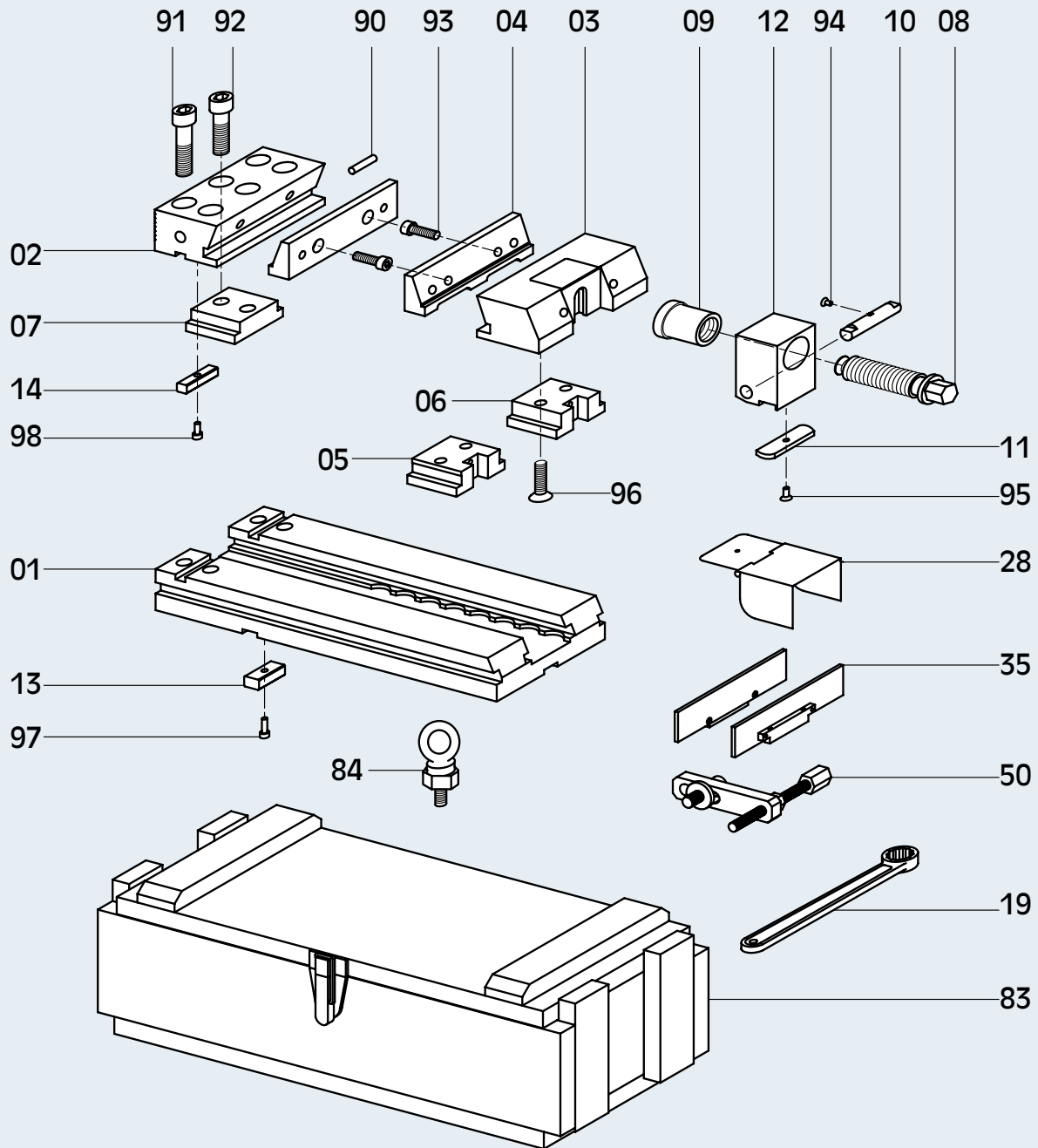
Pair of positioning keys

with special dimensions



| Code for T-slots | | | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|
| mm 12 | mm 14 | mm 16 | mm 18 | mm 20 | mm 22 |
| - | 58 01 13 93 | 58 01 13 94 | 58 01 13 95 | 58 01 13 96 | 58 01 13 97 |
| 58 02 13 92 | 58 02 13 93 | 58 02 13 94 | - | 58 02 13 96 | 58 02 13 97 |
| 58 02 13 92 | 58 02 13 93 | 58 02 13 94 | - | 58 02 13 96 | 58 02 13 97 |

for type
 TCt 110 x ...
 TCt 150 x ...
 TCt 200 x ...



Description

| | | |
|---------------------------|---------------------------------|-------------------|
| 01.....Base | 12.....Block for clamping screw | 91.....Screw TCEI |
| 02.....Fixed support | 13.....Positioning key | 92.....Screw TCEI |
| 03.....Moveable support | 14.....Key for support | 93.....Screw TCEI |
| 04.....Jaw | 19.....Wrench | 94.....Screw TPS |
| 05.....Floating slide-way | 28.....Cover for protection | 95.....Screw TPS |
| 06.....Rigid slide-way | of the screw | 96.....Screw TPS |
| 07.....Fixed slide-way | 35.....Pair of CLAK parallels | 97.....Screw TCEI |
| 08.....Clamping screws | 50.....Work stop | 98.....Screw TCEI |
| 09.....Bronze bushing | 83.....Wooden packing case | |
| 10.....Contrast pin | 84.....Eye bolt | |
| 11.....Positioning plate | 90.....Rubber pad | |



Pair of smooth jaws

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 04 09 | TC 110 x ... | |
| 58 02 04 09 | TC 150 x ... | |
| 58 03 04 09 | TC 200 x ... | |
| 58 04 04 09 | TC 250 x ... | |



Fixed support with jaw

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 72 10 | TC 110 x ... | |
| 58 02 72 10 | TC 150 x ... | |
| 58 03 72 10 | TC 200 x ... | |
| 58 04 72 10 | TC 250 x ... | |



Moveable support with jaw

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 73 10 | TC 110 x ... | |
| 58 02 73 10 | TC 150 x ... | |
| 58 03 73 10 | TC 200 x ... | |
| 58 04 73 10 | TC 250 x ... | |



Floating slide-way

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 05 00 | TC 110 x ... | |
| 58 02 05 00 | TC 150 x ... | |
| 58 03 05 00 | TC 200 x ... | |
| 58 04 05 00 | TC 250 x ... | |



Rigid slide-way

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 06 00 | TC 110 x ... | |
| 58 02 06 00 | TC 150 x ... | |
| 58 03 06 00 | TC 200 x ... | |
| 58 04 06 00 | TC 250 x ... | |



Fixed slide-way

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 07 00 | TC 110 x ... | |
| 58 02 07 00 | TC 150 x ... | |
| 58 04 07 00 | TC 250 x ... | |



Pair of keys for fixed suport

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 04 09 | TC 110 x ... | |
| 58 02 04 09 | TC 150 x ... | |
| 58 03 04 09 | TC 200 x ... | |
| 58 04 04 09 | TC 250 x ... | |



Wrench

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 19 00 | TC 110 x ... | |
| 58 02 19 00 | TC 150 x ... | |
| 58 03 19 00 | TC 200 x ... | |
| 58 03 19 00 | TC 250 x ... | |



Complete clamping block (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 74 10 | TC 110 x ... | |
| 58 02 74 10 | TC 150 x ... | |
| 58 03 74 10 | TC 200 x ... | |
| 58 04 74 10 | TC 250 x ... | |



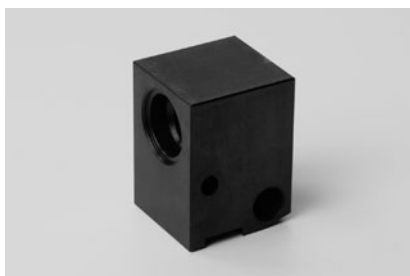
Complete clamping block (new type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 74 11 | TC 110 x ... | |
| 58 02 74 11 | TC 150 x ... | |
| 58 03 74 11 | TC 200 x ... | |



Block for clamping screw (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 12 10 | TC 110 x ... | |
| 58 02 12 10 | TC 150 x ... | |
| 58 03 12 10 | TC 200 x ... | |
| 58 04 12 10 | TC 250 x ... | |



Block for clamping screw (new type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 12 12 | TC 110 x ... | |
| 58 02 12 12 | TC 150 x ... | |
| 58 03 12 12 | TC 200 x ... | |



Clamping screw (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 08 10 | TC 110 x ... | |
| 58 02 08 10 | TC 150 x ... | |
| 58 03 08 10 | TC 200 x ... | |
| 58 03 08 10 | TC 250 x ... | |



Clamping screw (new type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 08 12 | TC 110 x ... | |
| 58 03 08 12 | TC 150 x ... | |
| 58 03 08 12 | TC 200 x ... | |



Bronze bushing (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 09 00 | TC 110 x ... | |
| 58 02 09 00 | TC 150 x ... | |
| 58 03 09 00 | TC 200 x ... | |
| 58 03 09 00 | TC 250 x ... | |



Contrast pin (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 10 00 | TC 110 x ... | |
| 58 02 10 00 | TC 150 x ... | |
| 58 03 10 00 | TC 200 x ... | |
| 58 04 10 00 | TC 250 x ... | |



Contrast pin (new type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 10 01 | TC 110 x ... | |
| 58 02 10 01 | TC 150 x ... | |
| 58 03 10 01 | TC 200 x ... | |



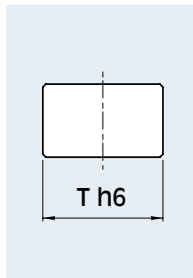
Positioning plate (old type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 11 10 | TC 110 x ... | |
| 58 02 11 10 | TC 150 x ... | |
| 58 03 11 10 | TC 200 x ... | |
| 58 04 11 10 | TC 250 x ... | |



Positioning plate (new type)

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 11 11 | TC 110 x ... | |
| 58 02 11 11 | TC 150 x ... | |
| 58 03 11 11 | TC 200 x ... | |



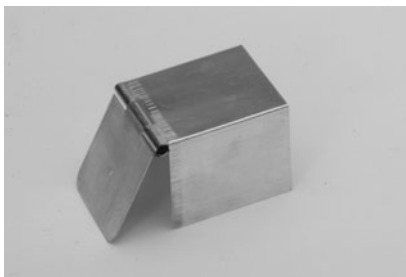
Pair of standard positioning keys

| Cod. | for type | T h6 mm |
|-------------|-----------|------------|
| 58 01 13 92 | TCt - 110 | 12 |
| 58 02 13 95 | TCt - 150 | 18 |
| 58 02 13 95 | TCt - 200 | 18 |
| 58 02 13 95 | TCt - 250 | 18 |



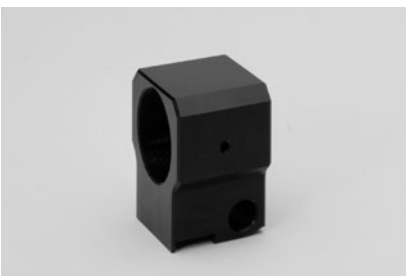
Work stop

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 50 00 | TC 110 x ... | |
| 58 02 50 00 | TC 150 x ... | |
| 58 03 50 00 | TC 200 x ... | |
| 58 03 50 00 | TC 250 x ... | |



Cover for protection of the screw

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 28 10 | TC 110 x ... | |
| 58 02 28 10 | TC 150 x ... | |
| 58 03 28 10 | TC 200 x ... | |
| 58 04 28 10 | TC 250 x ... | |



Block for cylinder

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 12 20 | TC 110 x ... | |
| 58 02 12 20 | TC 150 x ... | |
| 58 03 12 20 | TC 200 x ... | |



Tang for cylinder

| Cod. | for type | |
|-------------|--------------|--|
| 58 01 16 00 | TC 110 x ... | |
| 58 02 16 00 | TC 150 x ... | |
| 58 03 16 00 | TC 200 x ... | |



Can of oil

| Cod. | for type | |
|-------------|--------------|--|
| 10 72 99 40 | TC 110 x ... | |
| 10 72 99 40 | TC 150 x ... | |
| 10 72 99 40 | TC 200 x ... | |
