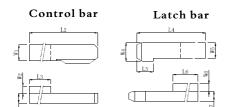
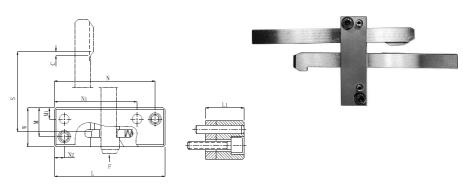
#### Material SKD61 SKD11 Hardness HRC52 ± 2 HRC56 + 2





| Code            | S (min.) | S (max.) | Pulling force <b>F (≤kgf)</b> |  |
|-----------------|----------|----------|-------------------------------|--|
| <b>ZZ</b> 171/1 | 5.5      | 80       | 650                           |  |
| <b>ZZ171/2</b>  | 7        | 110      | 1550                          |  |
| <b>ZZ171/3</b>  | 9        | 160      | 2200                          |  |

| Code           | С    | L   | l1   | L2  | L3  | L4  | L5 | L6  | М  | M1 | N   | N1 | N2 | w    | W1   | W2   | W3   | W4   | W5   | W6   | W7   |
|----------------|------|-----|------|-----|-----|-----|----|-----|----|----|-----|----|----|------|------|------|------|------|------|------|------|
| ZZ171/1        | 5.2  | 75  | 22   | 140 | 63  | 140 | 12 | 63  | 16 | 6  | 69  | 60 | 6  | 22   | 12.5 | 6.5  | 6    | 15.5 | 12.5 | 6.5  | 6    |
| ZZ171/2        | 6.95 | 90  | 32.5 | 180 | 100 | 180 | 16 | 100 | 24 | 8  | 83  | 73 | 7  | 31.5 | 16   | 8    | 12.5 | 20   | 16   | 8    | 12.5 |
| <b>ZZ171/3</b> | 8.7  | 112 | 43.5 | 250 | 125 | 250 | 20 | 125 | 30 | 10 | 103 | 88 | 9  | 40   | 20   | 12.5 | 16   | 25   | 20   | 12.5 | 16   |

QTY Code  $ZZ171/1 \times$ 10sets

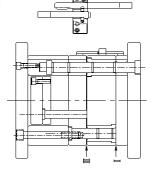
#### Installation Guidelines:

1.A minimum of two latches must be mounted symmetrically
2.in such a way as to prevent tilting of the plate to be drawn.
3.The reference surfaces of the housing with base plate, the control bar and the latch bar with spacers must be exact at the same height and right-angled to the direction of the mould opening movement
4.this latch lock is the precise standardized item, please do not apply togetherwith other own customer machined parts, we will not be responsible for any anomaly caused by it.
5.If need to maintain, please remove the latch locks first.

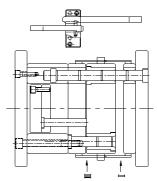
After installed Carry out a functional test, check whether the Individual parts of the latch lock units moves

After installed, Carry out a functional test, check whether the Individual parts of the latch lock units moves smoothly, the stroke is applicable. Recommend testing on Matched molds machine or Injection machine, NO Lifting Machine.

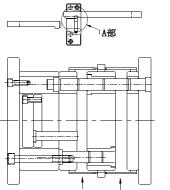




Sequence 1



Sequence 2



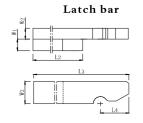
A section details

#### Sequence 3

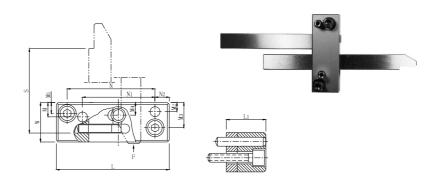
After finished the first stroke, latch bar with spacer should stay on the top of slide plate, keep the sliding lock depressed complete engagement, to make the control bar move smoothly into the housing.

If the control bar didn't in position accurately, the latch lock units would be damaged because of the uncompleted engagement of sliding lock.

## Material SKD61 Hardness HRC52 ± 2 HRC56 ± 2







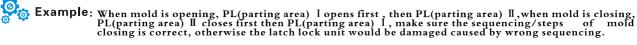
| Code            | S(min.) | S (max.) | Pulling force <b>F</b> (≤k <b>gf</b> ) |  |
|-----------------|---------|----------|--|--|
| <b>ZZ170/1</b>  | 5.5     | 80       | 800                                    |  |
| <b>ZZ17</b> 0/2 | 9.5     | 110      | 1400                                   |  |
| <b>ZZ</b> 170/3 | 10.5    | 190      | 2400                                   |  |

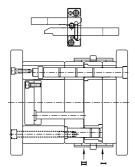
| Code            | L   | L1 | L2  | L3  | L4 | L5  | L6 | L7  | М  | M1 | M2 | M3 | M4 | N  | N1 | N2 | W  | W1  | W2 | W3 | W4  | W5 | W6 |
|-----------------|-----|----|-----|-----|----|-----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|
| ZZ170/1         | 63  | 22 | 63  | 100 | 16 | 125 | 14 | 80  | 8  | 6  | 5  | 14 | 7  | 49 | 41 | 8  | 22 | 6.5 | 6  | 13 | 6.5 | 6  | 13 |
| <b>ZZ17</b> 0/2 | 90  | 33 | 100 | 140 | 23 | 160 | 18 | 125 | 18 | 8  | 8  | 24 | 16 | 69 | 62 | 13 | 34 | 8   | 13 | 20 | 8   | 13 | 16 |
| <b>ZZ17</b> 0/3 | 110 | 44 | 100 | 200 | 25 | 250 | 18 | 125 | 22 | 9  | 9  | 31 | 20 | 80 | 80 | 15 | 42 | 13  | 16 | 25 | 13  | 16 | 20 |

Code QTY 10sets

#### 🗝 Installation Guidelines:

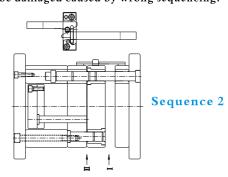
1.A minimum of two latches must be mounted symmetrically
2.in such a way as to prevent tilting of the plate to be drawn.
3.The reference surfaces of the housing with base plate, the control bar and the latch bar with spacers must be exact at the same height and right-angled to the direction of the mould opening movement
4. this latch lock is the precise standardized item, please do not apply together with other own customer machined parts, we will not be responsible for any anomaly caused by it.
5. It should be installed in the precise mould base.
6. If need to maintain, please remove the latch locks first.
After installed, Carry out a functional test, check whether the Individual parts of the latch lock units moves smoothly or the stroke is applicable. Recommend testing on Matched molds machine or Injection machine, NO Lifting Machine.

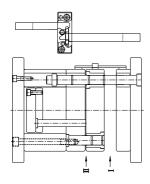




#### Sequence 1

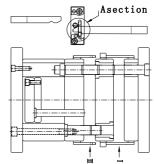
The length of the slanted portion "S" corresponds to the minimum movement of the latch locking unit The position of control bar can be adjusted according to the required stroke, if the first movement S is not long enough, we recommend 2 options: choose the bigger latch lock unit or extend the proper length of control bar.







#### Sequence 3



#### Asection Sequence 4

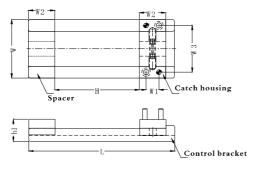
After finished the first stroke, KEEP spacer of control bar against the outside of sliding lock, or keep the clearance less than 1-1.5mm,

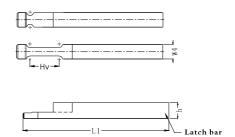
If the control bar didn't in position accurately, the latch lock units would be damaged because of the uncompleted engagement of sliding lock.



Material SKD61 Hardness HRC52 ± 2 HRC56 ± 2

The front end of the latch bar and Control bracket are vacuum-treated to HRC58, and the posterior end of the latch bar and Control bracket are high frequency treated Less than HRC38, for the convenience of Follow-up Processing.





| Code  | W               | Hv      | ŀ   | 1   | W1 | W2 | W3 | W4 | L   | L1  | h  | h1   | Dowel<br>pin | Mounting<br>screw | Pulling force F (≤kgf) |
|-------|-----------------|---------|-----|-----|----|----|----|----|-----|-----|----|------|--------------|-------------------|------------------------|
|       |                 | 20      |     | 90  |    |    |    |    | 140 | 140 |    |      |              |                   | 1.400                  |
|       | 50              | 0<br>50 | 4   | 130 | 10 | 20 | 40 | 15 | 180 | 180 | 16 | 22.3 | 6 × 20       | M4 × 12           | 1600                   |
| 77174 |                 | 0       |     | 117 |    |    |    |    | 200 | 200 |    |      |              |                   |                        |
| ZZ174 | <b>ZZ174</b> 80 | 32      | 5.5 | 167 | 16 | 34 | 60 | 20 | 250 | 250 | 21 | 30.3 | 6 × 20       | M6×16             | 2700                   |
| 100   |                 | 75<br>0 |     | 145 |    |    |    |    | 250 | 250 |    |      |              |                   |                        |
|       | 100             | 50      | 7   |     | 22 | 45 | 80 | 25 |     |     | 27 | 37.5 | 8 × 24       | M8 × 18           | 4800                   |
|       | 100             | 80      | -   | 195 |    |    |    |    | 300 | 300 |    |      |              |                   |                        |

Code / W HV $\times$  QTY × 10sets **ZZ174** / 50 / 20



#### Feature:

- 1. Due to double-sided locking system, safe and reliable.
- 2. High-frequency heat-treatment, easy to install and machine.
- 3. The key parts made of SKD61, with higher wearproof, more durable.
- 4. With the extended "HV" stroke Latch bar with delay, can be applied in a larger scale
- 5. At least two latch locking units should be mounted symmetrically. Accurate calculate the stroke, otherwise will cause the damage.
- 6. Available in three sizes and forces, suitable for various molds.

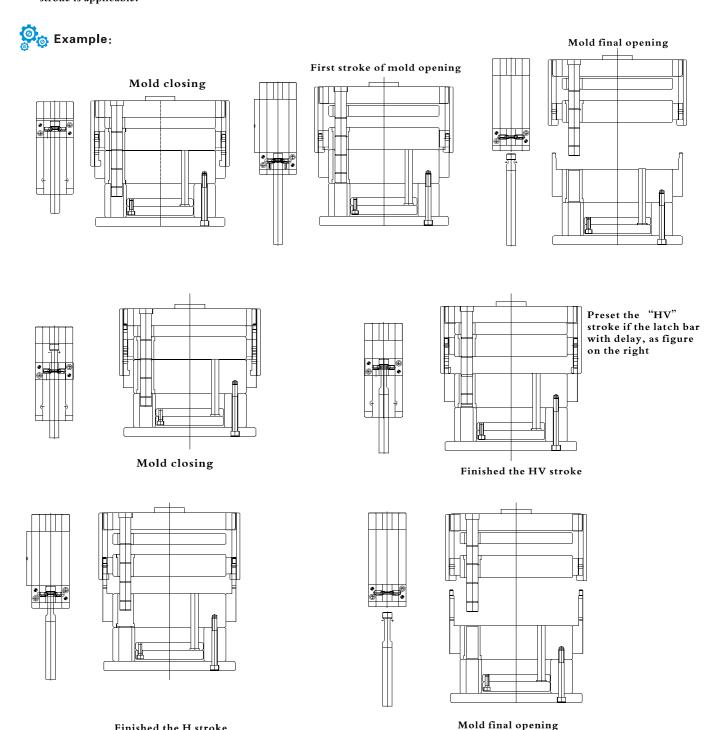


#### **Checkout emphasis:**

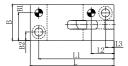
- 1. whether the stroke "H" meet the installation requirement, for extended latch bar with delay, it is important to check the stroke of "HV"
- 2.refer to the figures to make a simple function test:
  As soon as opening stroke "H1" has been reached, the catches slide into recess of control bracket, Now latch bar is released. After the latch bar completely slide into the recess, the catch housing can slide smoothly, test qualified.

#### Installation Guidelines:

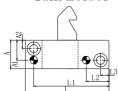
- Please install the roller lock sets symmetrically when mold closing, at least 2 sets roller lock sets for 1 mold (user can select the quantity according to the actual conditions, available in 3 sizes)
   The "H"in figure1 is the first stroke of mold opening; adjust the position of control bracket and the plates, Mount control bracket with spacer with screw and dowel pins. Match the catch housing and latch bar, then slide them in to the control bracket, mount the catch housing into A mold plate and fix the latch bar on B mold plate with screw and dowel pin.
   The mounting faces for control bracket, catch housing and latch bar must be machined parallel to the mould guiding system.
   In such a way as to prevent tilting of the plate to be drawn.
   After finished the H1 stroke, the catches of the catch housing stay in the recess of the control bracket, and the catches would be locked so that the latch bar can remove from the control bracket smoothly; but if the H1 stroke is improperly set, and the stroke is finished, so that the catches can not reach the recess of control bracket, when force to open the mold, will cause the latch lock unit be damaged.
   6. this latch lock is the precise standardized item, please do not apply together with other own customer machined parts, we will not be responsible for any anomaly caused by it.
   7. It should be installed in the precise mould base.
   8. If need to maintain, please remove the latch locks first.
   After installed, Carry out a functional test, check whether the Individual parts of the latch lock units moves smoothly or the stroke is applicable.



#### Slide holder

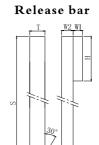














The front end of the release bar is vacuum-treated to HRC58, and the posterior end of the release bar is high frequency treated less than HRC38, for the convenience of Follow-up Processing.

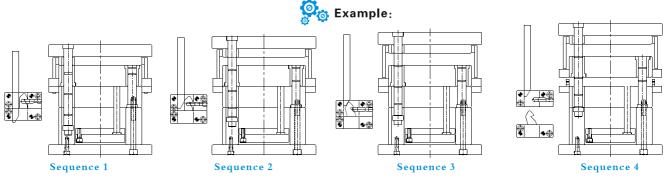
| Code |    |           |    |    | Slid | e ho      | lder | . Car | n ho | lde | r              |    |      | Rele | ease l | oar |    |
|------|----|-----------|----|----|------|-----------|------|-------|------|-----|----------------|----|------|------|--------|-----|----|
|      | Α  | <b>A1</b> | A2 | В  | B1   | <b>B2</b> | L    | L1    | L2   | 13  | Mounting screw | W  | W1   | W2   | S      | Т   | Н  |
| PPLS | 24 | 17        | 7  | 26 | 19   | 7         | 68   | 61.5  | 19   | 7   | M6 -30         | 20 | 6.5  | 7    | 250    | 13  | 40 |
| PPLM | 30 | 21        | 9  | 38 | 29   | 9         | 88   | 79    | 24   | 9   | M8 -30         | 30 | 8    | 10   | 300    | 16  | 50 |
| PPLL | 38 | 27        | 11 | 48 | 37   | 11        | 104  | 93    | 27   | 11  | M10-50         | 45 | 10.2 | 15.5 | 350    | 20  | 55 |

Code × QTY
PPLS × 10sets

#### **>** ■ Installation Guidelines:

- 1. Please install the roller lock sets symmetrically when mold closing, at least 2 sets roller lock sets for 1 mold (user can select the quantity according to the actual conditions, available in 3 sizes)
- 2.Install according to the installing figures as below
- 3. Carry out a functional test, check whether the Individual parts of the latch lock units moves smoothly or the stroke is applicable.
- 4. The mounting faces for cam holder, slide holder, and release bar must be machined parallel to the mould guiding system.
- 5. Make the overhang length of each release bar the same in order to equalize the timing of the release.
- 6. If need to maintain, please remove the latch locks first.

After installed, Carry out a functional test on Matched molds machine or Injection machine, check whether the Individual parts of the latch lock units moves smoothly or the stroke is applicable.



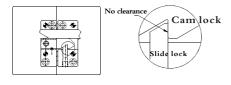
#### Method of installation:

Step 1: Install the cam holder on the movable mold.

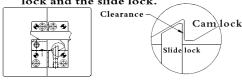


Step 3: In order to eliminate looseness between the cam lock and the slide lock, insert the release bar temporarily fix the slide holder while pulling it parallel to the cam holder, ream the holes and press-fit the dowel pins.

Note: position the parts with concrete objects.



Step 2: Install the slide holder with the cam holder, it might cause a looseness between the cam lock and the slide lock.



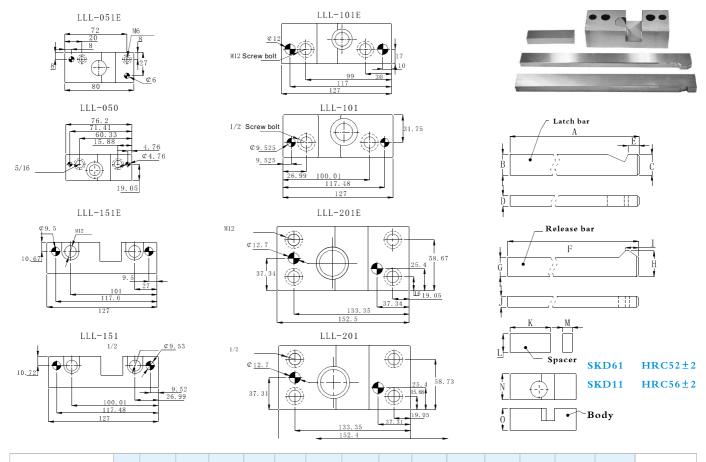
Step 4: Install the die in the molding machine, cut the release bar to the necessary length, form the bolt holes and reamer pilot holes, temporarily fix the release bar, check the sliding operation of the parting lock, and then ream the holes and press-fit the dowel pins.

Note: Make the overhang length of each release bar the same

Note: Make the overhang length of each release bar the same in order to equalize the timing of the release.



## **Latch Locks**



| Cod      | de      | Α   | В     | С     | D     | E    | F   | G     | н     | ı     | J     | К     | L     | M     | N       | 0       |  |
|----------|---------|-----|-------|-------|-------|------|-----|-------|-------|-------|-------|-------|-------|-------|---------|---------|--|
|          | LLL-050 |     | 16    | 16    | 7.9   | 6    | 180 | 12.5  | 16    | 8.5   | 7.9   | 55    | 12    | 8     | 35      | 25      |  |
| (Metric) | LLL-101 | 254 | 24    | 24    | 11.9  | 12   | 254 | 20    | 24    | 16    | 9.9   | 75    | 20    | 12    | 47      | 37      |  |
| (Metric) | LLL-151 | 254 | 24.81 | 24.56 | 12.07 | 12.7 | 254 | 20.95 | 24.81 | 15.87 | 9     | 76.2  | 22.22 | 12.39 | 49.2    | 36.5    |  |
|          | LLL-201 | 406 | 37.46 | 37.21 | 24.77 | 15.9 | 406 | 31.87 | 37.46 | 22.22 | 12.07 | 114.3 | 38.1  | 25.27 | 74.6    | 61.9    |  |
|          |         |     |       |       |       |      |     |       |       |       |       | ı     |       |       |         |         |  |
|          | LLL-050 | 7   | .59   | .585  | .285  | .3   | 7   | 1/2   | .59   | 3/8   | .23   | 1-3/4 | 1/2   | .295  | 1-3/16  | 15/16   |  |
| (Inch)   | LLL-101 | 10  | .977  | .967  | .475  | 1/2  | 10  | .825  | .977  | 5/8   | .355  | 3     | 7/8   | 188   | 1-15/16 | 1-7/16  |  |
| (Inch)   | LLL-151 | 10  | .711  | .507  | .473  | 1/2  | 10  | .023  | .,,,, | 376   | .555  | ,     | 776   | .400  | 1 13710 | 1 // 10 |  |
|          | LLL-201 | 16  | 1.475 | 1.465 | .975  | 5/8  | 16  | 1.255 | 1.475 | 7/8   | .475  | 4-1/2 | 1-1/2 | .995  | 2-15/16 | 2-7/16  |  |

QTY Code LLL-050 × 10sets



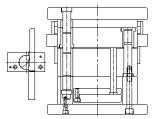
#### Feature:

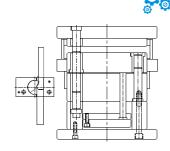
- 1. Unique Center Rotating Axis design, safe and reliable.
- 2. Suitable for Control the Action Sequence in proper order, also can be used for control the two-stage ejector.

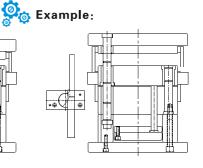
#### Installation Guidelines:

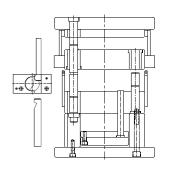
- 1. When mounting. The release bar can not completely release rocker. 2. Choose the right latch lock according with the size of molds.
- 3. Make sure preset the first stroke exactly when mounting, for more details please refer to illustration.

#### Function:



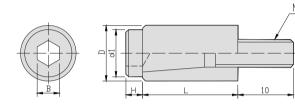






# PL...



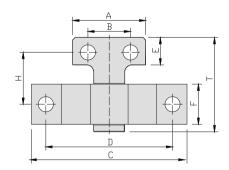


| 锥型螺栓 | 尼龙 |
|------|----|
| P.L  | 模板 |
|      | 模板 |

|       | D  | d1  | M    | В | L  | Н   |  |
|-------|----|-----|------|---|----|-----|--|
| PL 10 | 10 | 8.5 | M5   | 4 | 18 | 3   |  |
| PL 12 | 12 | 11  | M6   | 5 | 20 | 3.5 |  |
| PL 13 | 13 | 11  | IVIU | J | 20 | 5.5 |  |
| PL 16 | 16 | 14  | M8   | 6 | 25 | 4   |  |
| PL 20 | 20 | 16  | M10  | 8 | 30 | 5   |  |

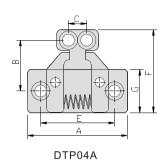
# DTP03...

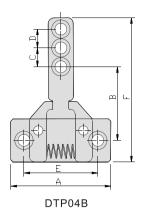




|        |    |    |     |    |    |    |     |     |          | (kgf) |  |
|--------|----|----|-----|----|----|----|-----|-----|----------|-------|--|
|        | A  | В  | С   | D  | Е  | F  | Н   | T   | $\oplus$ | (Kgi) |  |
| DTP03A | 40 | 26 | 72  | 60 | 20 | 20 | 23  | 49  | M8       |       |  |
| DTP03B | 36 | 22 | 12  | 00 | 20 | 20 | 66  | 96  | 1010     | 250   |  |
| DTP03C |    |    |     |    |    |    | 38  | 73  | M10      | • • • |  |
| DTP03D | 50 | 30 | 113 | 00 | 22 | 20 | 79  | 118 | MHU      | 300   |  |
| DTP03E | 30 | 30 | 113 | 90 |    | 30 | 38  | 73  | M12      | 400   |  |
| DTP03F |    |    |     |    | 25 |    | 103 | 135 | M12      | 400   |  |

## DTP04...



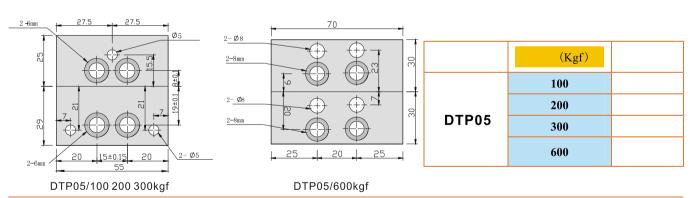




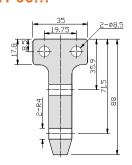
|        | A  | В  | С  | D  | Е  | F   | G  |        | ( <b>kgf</b> ) |  |
|--------|----|----|----|----|----|-----|----|--------|----------------|--|
| DTP04A | 78 | 40 | 15 | -  | 60 | 68  | 38 | 5/16 " | 500            |  |
| DTP04B | /0 | 58 | 13 | 15 | 00 | 116 | 38 | 3/10   | 500            |  |

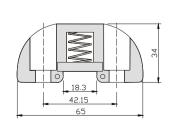
## DTP05...





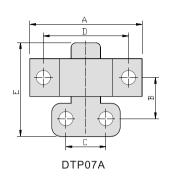
## **DTP06...**

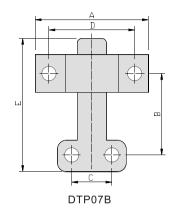






## **DTP07...**

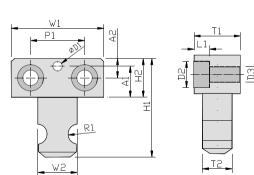


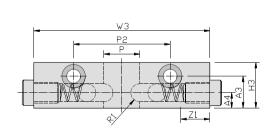


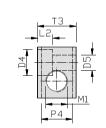


|        |    |    |    |    |    |        | ,     |  |
|--------|----|----|----|----|----|--------|-------|--|
|        | A  | В  | С  | D  | Е  |        | (kgf) |  |
| DTP07A | 62 | 28 | 20 | 45 | 54 | 5/16 " | 400   |  |
| DTP07B | 02 | 62 | 20 | 43 | 88 | 3/10   | 400   |  |

# **DTP08...**







|        | A1 | A2   | АЗ | A4 | D1  | D2    | D3    | D4          | D5          | H1   | Н2 | НЗ | L1  | L2  |
|--------|----|------|----|----|-----|-------|-------|-------------|-------------|------|----|----|-----|-----|
| DTP08A | 6  | 12   | 21 | 10 | ¢ 5 | ¢10.5 | ¢ 6.5 | <b>⊄</b> 11 | ¢6.5        | 48   | 20 | 28 | 6.5 | 6.5 |
| DTP08B | 20 | 12.5 | 23 | 11 | ¢6  | ¢ 17  | ¢ 10  | ¢17         | <b>⊄</b> 10 | 62.5 | 25 | 33 | 10  | 10  |

|        | P1 | P2 | Р3 | P4   | R1    | T1   | T2   | Т3   | W1 | W2   | W3    | Z1 | M1        |
|--------|----|----|----|------|-------|------|------|------|----|------|-------|----|-----------|
| DTP08A | 25 | 60 | 18 | 12.5 | R4.25 | 20.5 | 12   | 20.5 | 40 | 17.5 | 86    | 20 | M12×1 .75 |
| DTP08B | 35 | 70 | 26 | 20   | R6.5  | 30   | 19.5 | 25   | 60 | 25.5 | 127.5 | 21 | M14×2.0   |

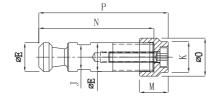


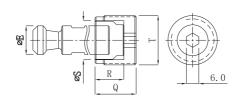
# **Round latch locking devices**

# Material SKD11+SKD61 C ejector sleeve

H max

18min







| Code                             | Α  | В   | С   | D   | ¢E  | ¢F  | ¢G  | Н     | ¢I  | Hmin | Hmax | J  | K  | M  | N   | ¢O  | Р   | Q   | R   | ¢S | Т          |  |  |
|----------------------------------|----|-----|-----|-----|-----|-----|-----|-------|-----|------|------|----|----|----|-----|-----|-----|-----|-----|----|------------|--|--|
| ZZ173/32 x 28 x 14 x 63          |    |     |     |     |     |     |     |       |     |      |      |    |    |    | 56  |     | 63  |     |     |    |            |  |  |
| ZZ173/32 x 28 x 14 x 80          |    | 60  | 78  |     |     |     |     |       |     |      | 28   |    |    |    | 73  |     | 80  |     |     |    |            |  |  |
| <b>ZZ173/32 × 28 × 14 × 100</b>  |    | 00  | / 0 |     |     |     |     |       |     |      |      |    |    | 14 | 93  |     | 100 |     |     |    |            |  |  |
| <b>ZZ</b> 173/32 × 28 × 14 × 125 | 14 |     |     | 32  | 1.4 | 4.5 | 2.5 | M10   | 2.2 | 6    |      | 12 | 15 |    | 118 | 19  | 125 | 20  | 14  | 19 | M24×1.0    |  |  |
| ZZ173/32 x 56 x 14 x 63          | 14 |     |     | 34  | 14  | 43  | 33  | WIIU  | 32  | 0    |      |    | 13 | 14 | 56  | 17  | 63  | 20  |     |    |            |  |  |
| <b>ZZ173/32 × 56 × 14 × 80</b>   |    | 88  | 106 |     |     |     |     |       |     |      | 56   |    |    |    | 73  |     | 80  |     |     |    |            |  |  |
| ZZ173/32 × 56 × 14 × 100         |    | 00  | 100 | 100 |     |     |     |       |     |      |      | 30 |    |    |     | 93  |     | 100 |     |    |            |  |  |
| ZZ173/32 × 56 × 14 × 125         |    |     |     |     |     |     |     |       |     |      |      |    |    |    | 118 |     | 125 |     |     |    |            |  |  |
| <b>ZZ173/38 x 36 x 18 x 80</b>   |    |     |     |     |     |     |     |       |     |      |      |    |    |    | 73  |     | 80  |     |     |    |            |  |  |
| ZZ173/38 x 36 x 18 x 100         |    | 70  | 90  |     |     |     |     |       |     |      | 36   |    |    |    | 93  |     | 100 |     |     |    |            |  |  |
| <b>ZZ173/38 x 36 x 18 x 125</b>  |    | 70  | 70  |     |     |     |     |       |     |      | 30   |    |    |    | 118 |     | 125 |     |     |    |            |  |  |
| <b>ZZ173/38 x 36 x 18 x 140</b>  | 16 |     |     | 38  | 1 2 | 52  | 11  | M12   | 3.0 | 8    |      | 15 | 19 | 16 | 133 | 24  | 140 | 22  | 1,6 | 24 | M30×1.5    |  |  |
| ZZ173/38 x 71 x 18 x 80          | 10 |     |     | 36  | 10  | 34  | 41  | 10112 | 36  | 0    |      | 13 | 17 | 10 | 73  | 24  | 80  | 22  | 10  | 4  | W130 ^ 1.3 |  |  |
| <b>ZZ173/38 x 71 x 18 x 100</b>  |    | 105 | 125 |     |     |     |     |       |     |      | 71   |    |    |    | 93  |     | 100 |     |     |    |            |  |  |
| <b>ZZ</b> 173/38 × 71 × 18 × 125 |    | 103 | 123 |     |     |     |     |       |     |      | /1   |    |    |    | 118 |     | 125 |     |     |    |            |  |  |
| ZZ173/38 x 71 x 18 x 140         |    |     |     |     |     |     |     |       |     |      |      |    |    |    |     | 133 |     | 140 |     |    |            |  |  |



Code  $\times$  QTY ZZ173/32×28×14×63 × 10sets

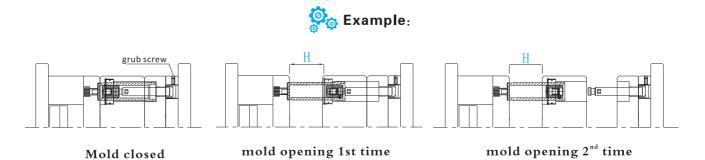


#### Feature:

- 1.this round latch locking units should be install inside the mold, Avoid clashing with outside parts or the waterway 2.Can also be used as Inner Latch locks, Two–stage ejectors,
- 3.Some important parts are made of SKD61, Provide good Lubricating while working, then it will be higher wear resistance and longer service life.

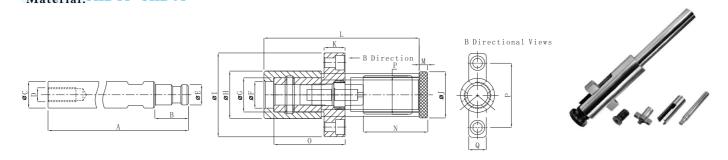
#### Installation instructions:

- 1.It is Precision standard elements, A minimum of two Round latch locking units must be mounted symmetrically, quantity and size are subjected to the mold base and the pulling forces.
- 2. If not mounted symmetrically, the uneven force will caused the parts damaged.
- 3. Make sure grub screw is screw down tightly when using.
- 4. If the molds need to be maintained or changed, please remove the Round latch locking units first.
- 5.After installation, carry out a functional test, check whether the individual parts work well, and the stroke is applicable, recommended testing on Matched molds machine or injection machines, Do not use Lifting Machine.





#### Material: SKD11+SKD61



| Code            | Α   | В   | ØC | D                 | ØE   | ØF | ØG   | ØΗ   | ØI | øJ | K  | L    | M  | N  | 0  | Р  | α    |
|-----------------|-----|-----|----|-------------------|------|----|------|------|----|----|----|------|----|----|----|----|------|
| <b>DDKL2811</b> | 140 |     |    |                   |      |    |      |      |    |    |    | 86   |    |    |    | 40 | 12.6 |
| <b>DDKL2812</b> | 170 | 21  | 16 | M8 × 1.25         | 12.4 | 16 | 20.6 | 28   | 54 | 28 | 13 | - 00 | 5  | 34 | 40 |    |      |
| <b>DDKL2821</b> | 250 | 21  | 10 | W16 ^ 1.23        | 12.4 | 10 | 20.0 | 20   | 34 | 20 | 13 | 111  | _  |    |    |    |      |
| <b>DDKL2822</b> | 230 |     |    |                   |      |    |      |      |    |    |    | 111  |    |    |    |    |      |
| <b>DDKL3411</b> | 160 | 24  |    |                   | 14.5 |    |      |      |    |    |    | 111  |    | 46 | 51 | 46 | 12.6 |
| <b>DDKL3412</b> | 100 |     | 19 | M10×1.5           |      | 19 | 24.4 | 34   | 60 | 33 | 15 | 111  | 6  |    |    |    |      |
| <b>DDKL3421</b> | 280 |     | 19 | W110 ^ 1.5        |      | 19 | 24.4 | 4 34 | 00 | 33 | 13 | 146  | U  |    |    |    |      |
| <b>DDKL3422</b> | 200 |     |    |                   |      |    |      |      |    |    |    | 140  |    |    |    |    |      |
| <b>DDKL4511</b> | 200 |     |    |                   |      |    |      |      |    |    |    | 152  |    |    |    | 60 | 17   |
| <b>DDKL4512</b> | 200 | 2.1 | 26 | 3540 34 55        | 19.5 | 26 | 32.4 | 45   | 78 | 42 | 20 | 152  | 10 | 59 | 38 |    |      |
| <b>DDKL4521</b> | 310 | 31  | 40 | $M12 \times 1.75$ | 19.5 | 40 | 32.4 | 43   | /0 | 42 | 40 | 198  | 10 | 39 | 30 | 60 |      |
| <b>DDKL4522</b> | 310 |     |    |                   |      |    |      |      |    |    |    | 198  |    |    |    |    |      |

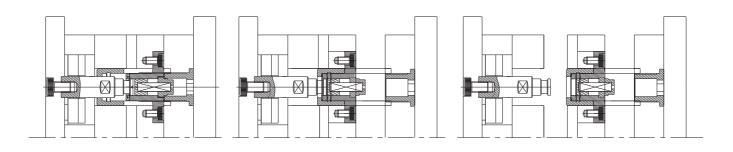




#### Feature:

- 1.this round latch locking units should be install inside the mold, Avoid clashing with outside parts or the waterway
- 2.Can also be used as Early return Ejector units.
- 3. Some important parts are made of SKD61, Provide good Lubricating while working, then it will be higher wear resistance and longer service life.
- 4. Three diameter sizes to choose from 28 mm, 34 mm, and 45 mm depending on the size of the mold and the application, Two travel ranges and two center puller pin lengths to choose from for each of the three sizes.





Mold closed

mold opening 1st time

mold opening 2nd time