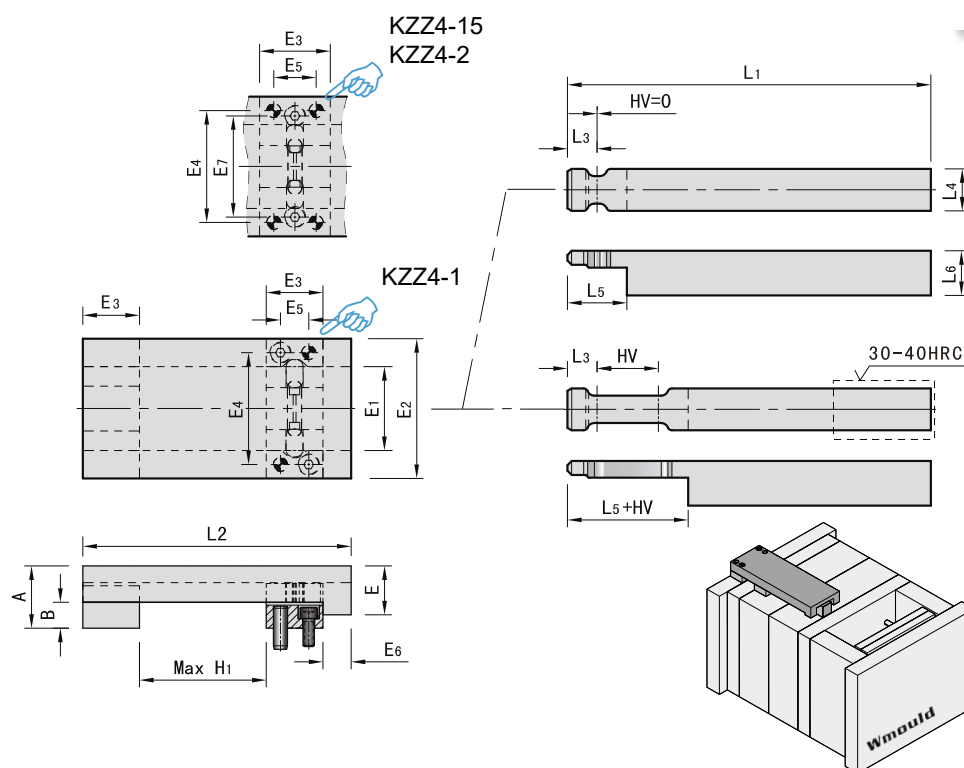


DIN
Latch locks

KZZ4



Features:

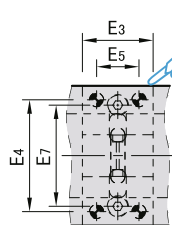
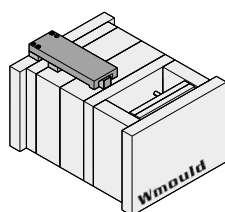
1. Due to double-sided locking system, safe and reliable .
2. The end of insert bar high frequency annealing treatment .easy to install and processing.
3. With the extended HV stroke latch bar ,extensively usage.

E2	Hv	A	B	H1	E	E1	E3	E4	E5	E6
50	0	22.3	9.3	96	17.5	30	20	40	10	10
	25									
	50									
	75									
75	0	30.3	12.3	121	23.5	45	30	65	20	15
	25									
	50									
	75									
90	0	37.5	15.5	159	29	60	36	74	25	
	25									
	50									
	75									

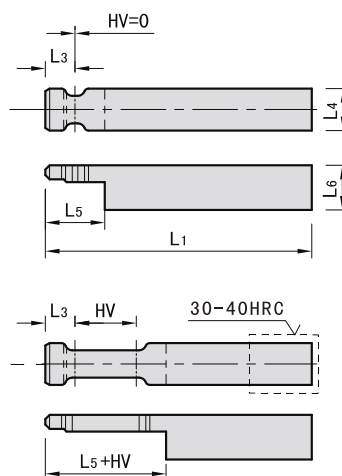
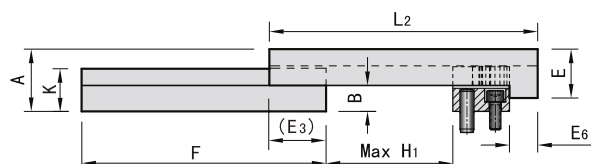
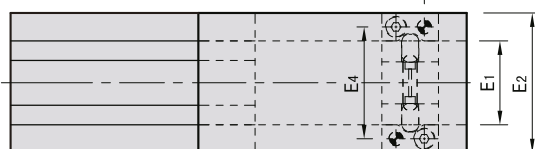
Code	E7	L1	L2	L3	L4	L5	L6	Dowel pin	Mounting screws	
ZZ4- 1- 0-0	-	146	146	10	15	21	16	Ø5×16	M4×12	
ZZ4- 1-25-0										
ZZ4- 1-50-0										
ZZ4- 1-75-0										
ZZ4-15- 0-0	56	196	196	15	20	31	21	Ø5×20	M8×16	
ZZ4-15-25-0										
ZZ4-15-50-0										
ZZ4-15-75-0										
ZZ4- 2- 0-0	74	246	246	18	25	38	27	Ø6×20	M8×20	
ZZ4- 2-25-0										
ZZ4- 2-50-0										
ZZ4- 2-75-0										

DIN
Latch locks

KZZ4

KZZ4-15
KZZ4-2

KZZ4-1

**Features:**

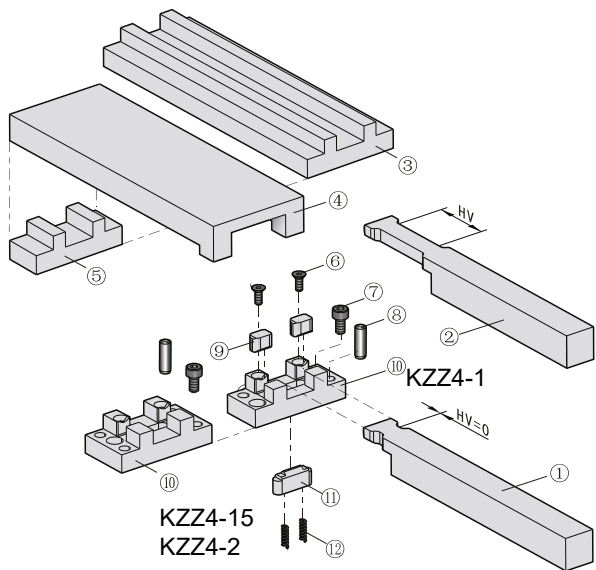
1. Due to double-sided locking system, safe and reliable.
2. The end of insert bar high frequency annealing treatment, easy to install and processing.
3. With the extended HV stroke latch bar, extensively usage.

E2	Hv	H1	A	B	F	E	E1	E3	E4	E5	E6	E7
50	0 25 50 75	96	22.3	9.3	146	17.5	30	20	40	10	10	-
75	0 25 50 75	121	30.3	12.3	196	23.5	45	30	65	20	15	56
90	0 25 50 75	159	37.5	15.5	246	29	60	36	74	25	15	74

Code	K	L1	L2	L3	L4	L5	L6	Dowel pin	Mounting screws	
ZZ4- 1- 0-41	16	146	146	10	15	21	16	Ø5×16	M4×12	
ZZ4- 1-25-41										
ZZ4- 1-50-41										
ZZ4- 1-75-41										
ZZ4-15- 0-41	21	196	196	15	20	31	21	Ø5×20	M8×16	
ZZ4-15-25-41										
ZZ4-15-50-41										
ZZ4-15-75-41										
ZZ4- 2- 0-41	27	246	246	18	25	38	27	Ø6×20	M8×20	
ZZ4- 2-25-41										
ZZ4- 2-50-41										
ZZ4- 2-75-41										



Product space chart:



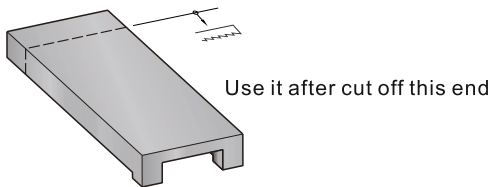
- 1.screw (6)no real application function, before latch lock installed on the mould , prevent ball slide (9)drop out or forget during installing.
- 2.ZZ4-15, ZZ4-2 compare with ZZ4-1 add 2pcs dowel pin.

Pos	Parts name	Material	Hardness
1	Latch bar	Cr12MoV	55-58HRC
2			
3	Spacer	S45C	-
4	Control Bracket	718H	≈900HV
5	Spacer	S45C	-
9	Catch	SKD11	58-62HRC
10	Catch housing	718H	28-38HRC
11	Stop	SKD11	58-62HRC

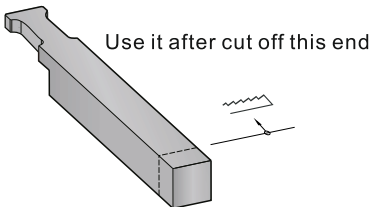
Installation Guidelines:

- Installed ball slide, request parallel with joint face to install.
- Installed insert bar, cut off insert bar length according to real demand.and processing screw holes. make sure mould is closed mould before locking tight the screw to do dowel pin holes.(Install insert bar with HV stroke, mould HV stroke shall be in completely opening condition. at the same eliminate the space between insert bar and ball . then to do with dowel pin holes.
- Ball slide and insert bar symmetrical install on the mould, According to stroke to confirm body length. Ensure various parts install correctly and normal running, then to do with body and install fixed dowel pin holes.
- Every mould suggest to symmetrical installed 2sets or above 2sets ,please notes same stroke and symmetrical install during opening mould ,if no symmetrical install or different stroke will cause lath lock break.
- Coordinate function test, check these parts of latch lock structure whether smoothly and stroke coincide or not.
- First remove latch lock device to follow-up operation if need maintenance and change.

Body cut off drawing:



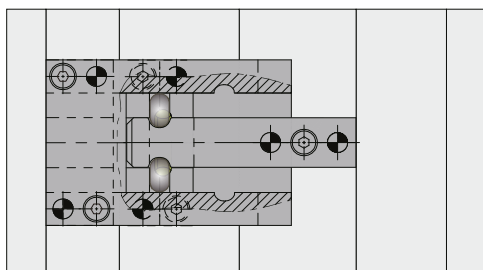
Insert bar cut off drawing:



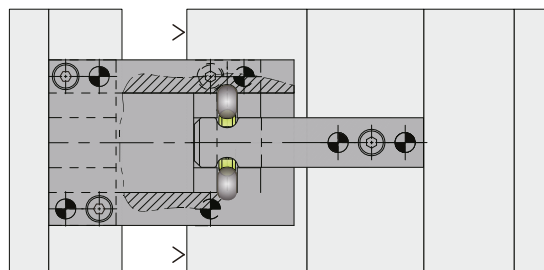


Latch locks

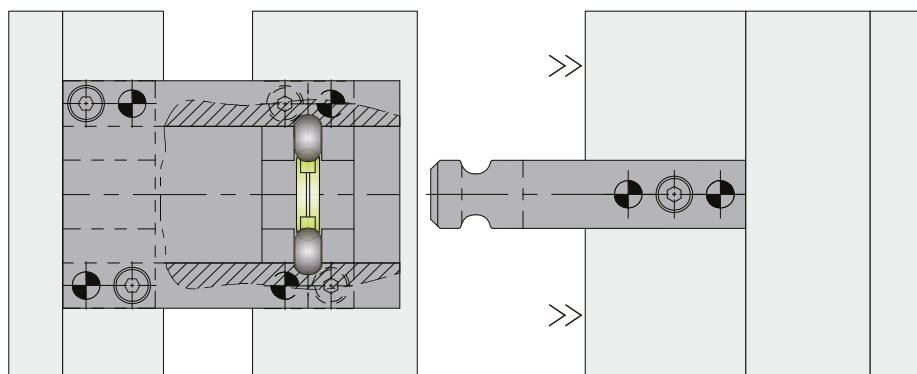
Functional chart(Hv=0):



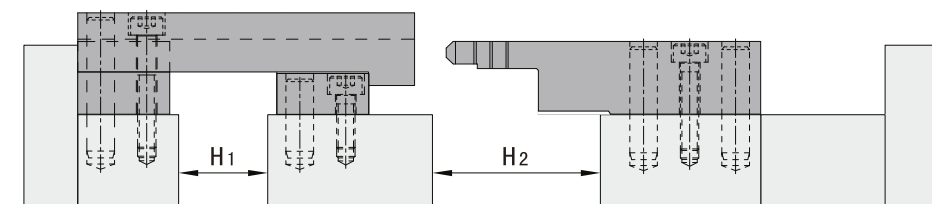
Mold closed



Second opening mould

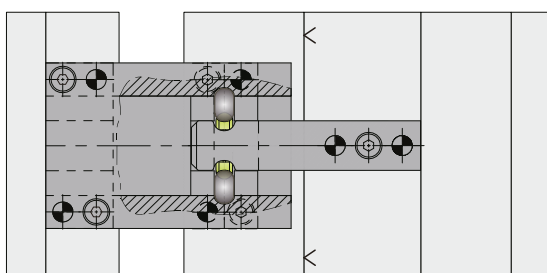


Second opening mould

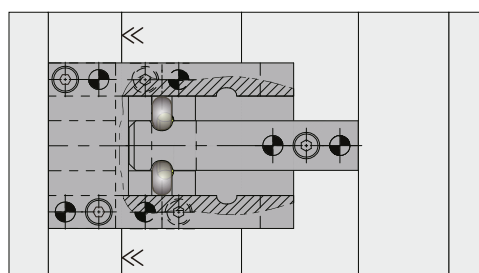


Second opening mould

This latch lock with
control opening and
closed mould function:
opening mould
sequence: drawing
1>drawing 2>drawing 3
closed mould
sequence: drawing
3>drawing 4>drawing 5



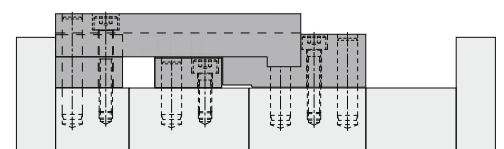
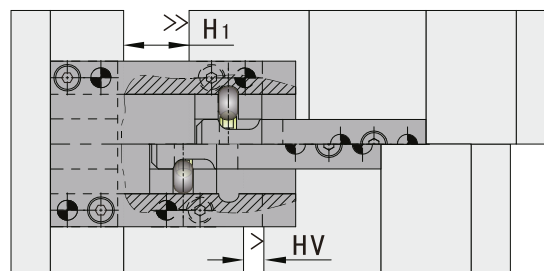
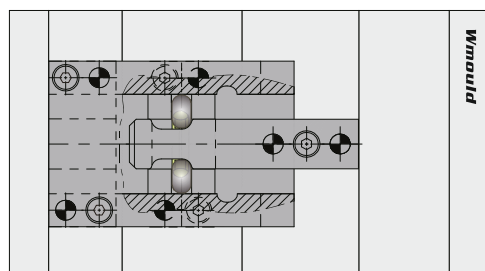
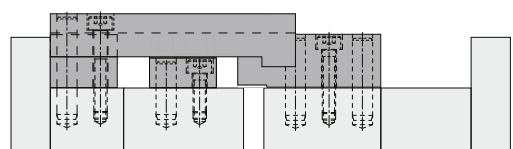
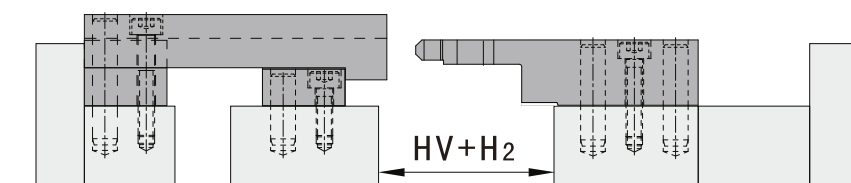
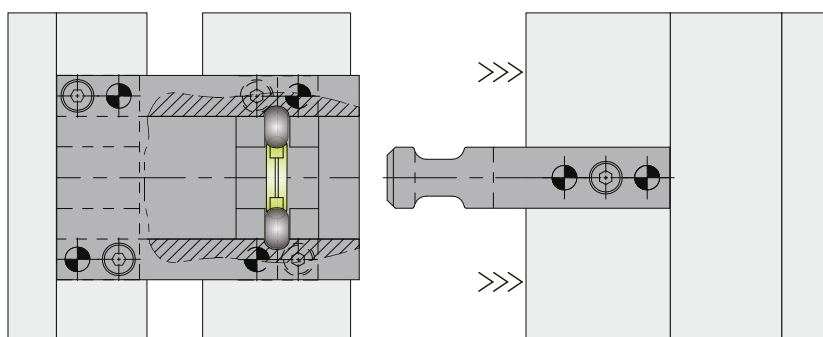
First closed mould finished



Closed mould

 Latch locks

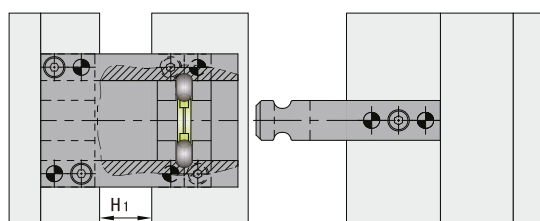
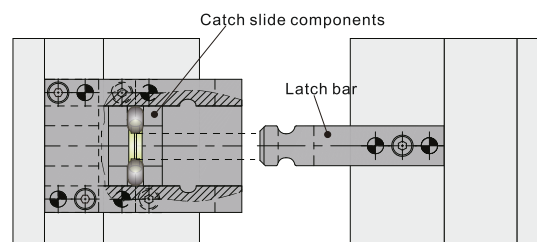
Functional chart(Hv):

**Diagram1** Mold closed**Diagram2:** First finish opening(closed) mold**Diagram3:** Second opening mould

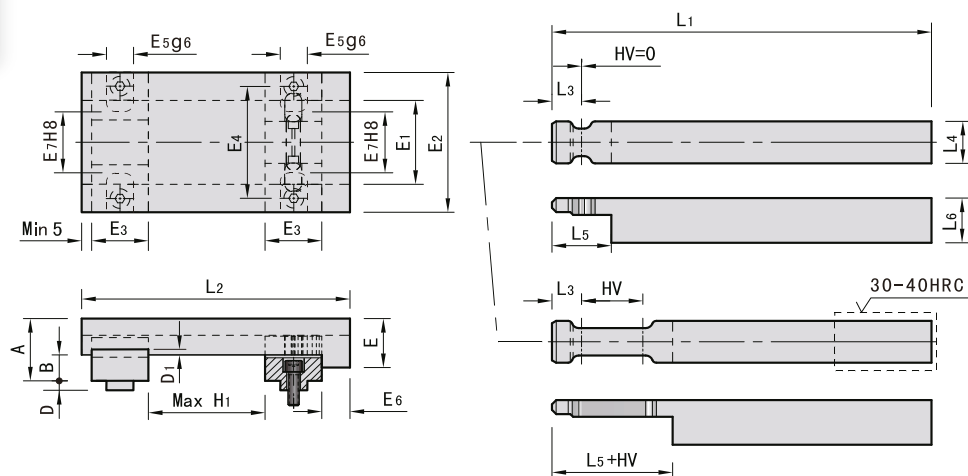
This latch lock with control opening and closed mould function:
 opening mould
 sequence: drawing 1>drawing 2>drawing 3
 closed mould
 sequence: drawing 3>drawing 2>drawing 1

Warning:

As below drawing show, when insert bar release ball slide parts, must be sure ball slide in this A drawing position, otherwise will cause insert bar cant insert into ball slide and break latch lock mechanism.

**A Right** **B Wrong** 

DIN
Latch locks

KZZ4**Features:**

1. Due to double-sided locking system ,safe and reliable.
2. The end of insert bar high frequency annealing treatment. easy to install and processing.
3. With the extended HV stroke latch bar, extensively usage.
4. Ball slide and the base of pad add a fixed position bulge, instead of traditional dowel pin to fixed position.

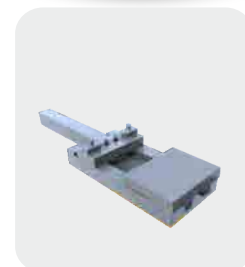
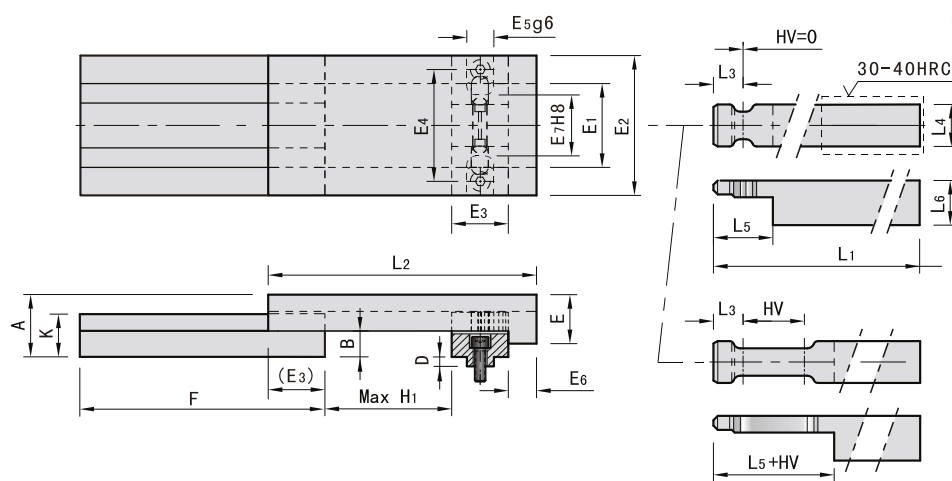
E2	Hv	H1	A	B	E	E1	E3	E4	E5	E6	E7
50	0	91	22.3	9.3	17.5	30	20	38	10	10	22
	25										
	50										
	75										
75	0	116	30.3	12.3	23.5	45	30	56	12	15	30
	25										
	50										
	75										
90	0	154	37.5	15.5	29	60	36	72	14	15	38
	25										
	50										
	75										

Code	D	D1	L1	L2	L3	L4	L5	L6	Mounting screws	
KZZ4-11- 0- 0	4	3	146	146	10	15	21	16	M 6×20	
KZZ4-11-25-0										
KZZ4-11-50-0										
KZZ4-11-75-0										
KZZ4-16- 0- 0	5	4.5	196	196	15	20	31	21	M 8×25	
KZZ4-16-25-0										
KZZ4-16-50-0										
KZZ4-16-75-0										
KZZ4-21- 0- 0	6	6	246	246	18	25	38	27	M10×30	
KZZ4-21-25-0										
KZZ4-21-50-0										
KZZ4-21-75-0										



Latch locks

KZZ4

**Features:**

1. Due to double-sided locking system, safe and reliable.
2. The end of insert bar high frequency annealing treatment. easy to install and processing.
3. With the extended HV stroke latch bar, extensively usage.
4. Ball slide and the base of pad add a fixed position bulge, instead of traditional dowel pin to fixed position.

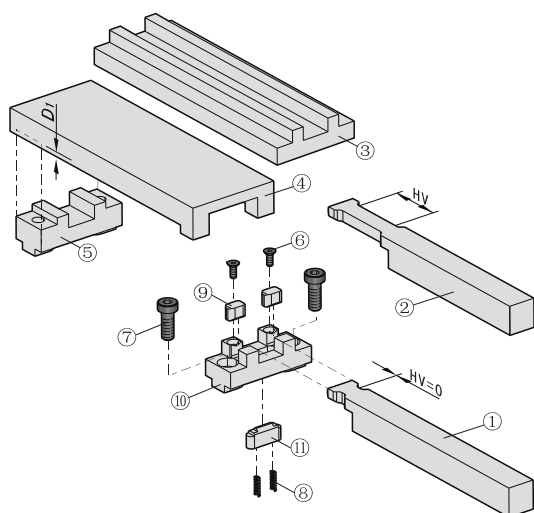
E2	Hv	H1	A	B	F	E	E1	E3	E4	E5	E6	E7
50	0	91	22.3	9.3	4	17.5	30	20	38	10	10	22
	25											
	50											
	75											
75	0	116	30.3	12.3	5	23.5	45	30	56	12	15	30
	25											
	50											
	75											
90	0	154	37.5	15.5	6	29	60	36	72	14	15	38
	25											
	50											
	75											

Code	K	L1	L2	L3	L4	L5	L6	D	Mounting screws	
KZZ4-11-0-41	16	146	146	10	15	21	16	4	M 6×20	
KZZ4-11-25-41										
KZZ4-11-50-41										
KZZ4-11-75-41										
KZZ4-16-0-41	21	196	196	15	20	31	21	5	M 8×25	
KZZ4-16-25-41										
KZZ4-16-50-41										
KZZ4-16-75-41										
KZZ4-21-0-41	27	246	246	18	25	38	27	6	M10×30	
KZZ4-21-25-41										
KZZ4-21-50-41										
KZZ4-21-75-41										



Latch locks

Product space chart:



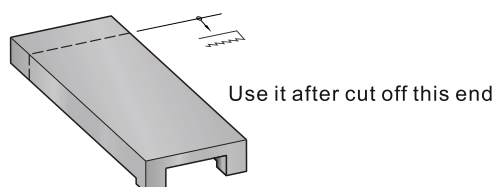
Pos	Parts name	Material	Hardness
1	Latch bar	Cr12MoV	55-58HRC
2	Spacer	S45C	-
3	Control Bracket	718H	≈900HV
4	Spacer	S45C	-
5	Catch	SKD11	58-62HRC
9	Catch housing	718H	28-38HRC
11	Stop	SKD11	58-62HRC

Screw (6)no real application function, before latch lock installed on the mould, prevent ball slide (9)drop out or forget during installing.

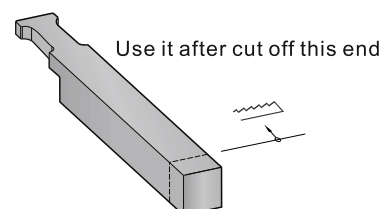
Installation Guidelines:

- Installed ball slide, request parallel with joint face to install.
- Installed insert bar, cut off insert bar length according to real demand. and processing screw holes. make sure mould is closed mould before locking tight the screw to do dowel pin holes.(Install insert bar with HV stroke, mould HV stroke shall be in completely opening condition. at the same eliminate the space between insert bar and ball .then to do with dowel pin holes.
- Ball slide and insert bar symmetrical install on the mould, According to stroke to confirm body length. Ensure various parts install correctly and normal running,then to do with body and install fixed dowel pin holes.
- Every mould suggest to symmetrical installed 2sets or above 2sets ,please notes same stroke and symmetrical install during opening mould ,if no symmetrical install or different stroke will cause lath lock break.
- Coordinate function test, check these parts of latch lock structure whether smoothly and stroke coincide or not.
- First remove latch lock device to follow-up operation if need maintenance and change.

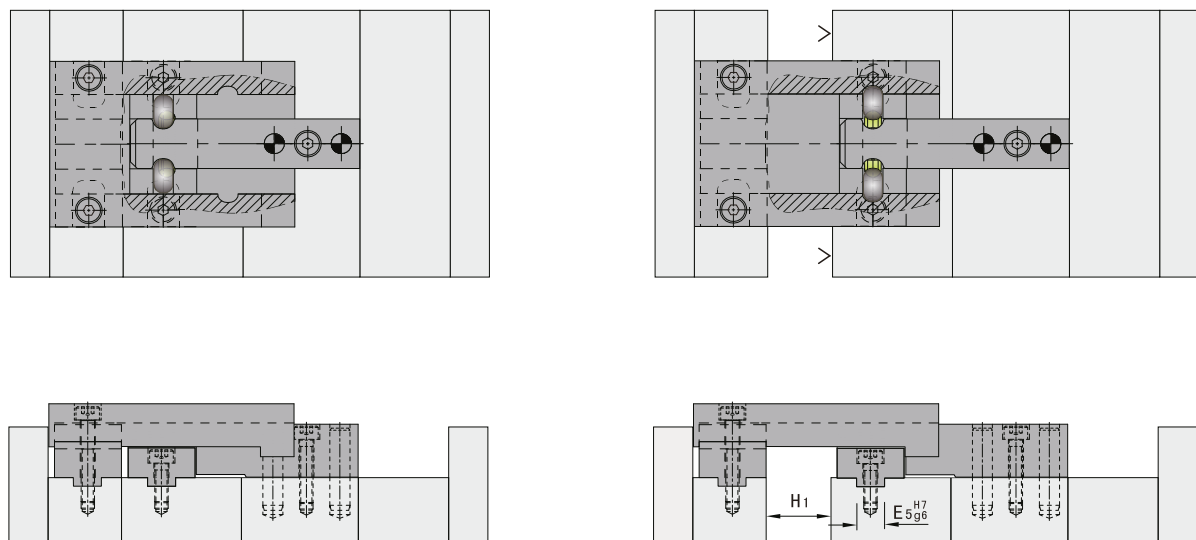
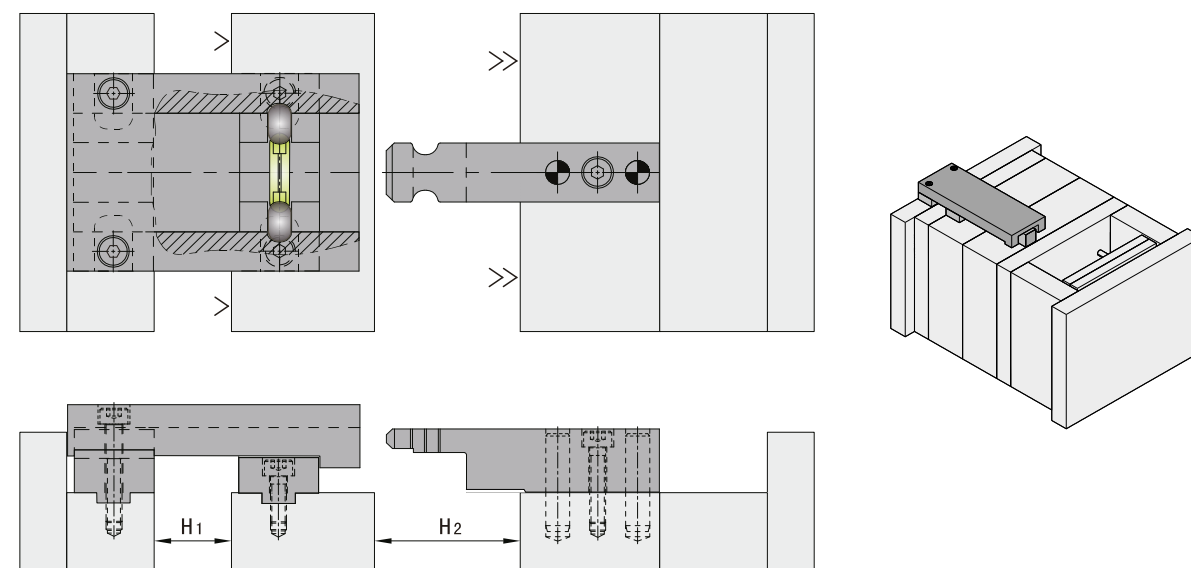
Body cut off drawing:



Insert bar cut off drawing:



Functional chart(Hv=0):

**Diagram1:** Mold closed**Diagram:** First finish opening(closed) mold**Diagram3:** Second opening mould

This latch lock with control opening and closed mould function:
 opening mould sequence: drawing 1>drawing 2>drawing 3
 closed mould sequence: drawing 3>drawing 2>drawing 1



Latch locks

Functional chart(Hv):

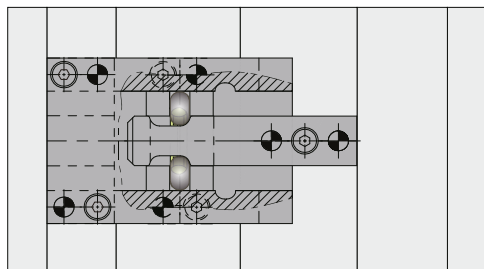


Diagram1: Mold closed

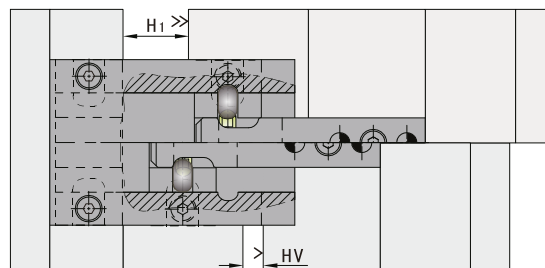


Diagram2: First finish opening(closed) mold

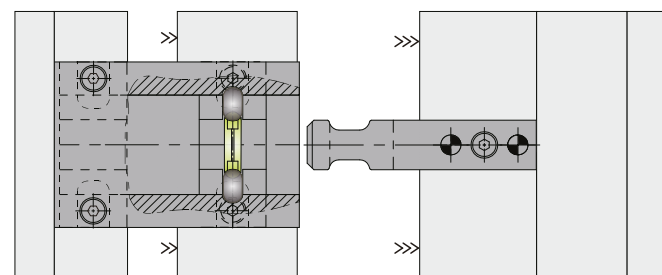
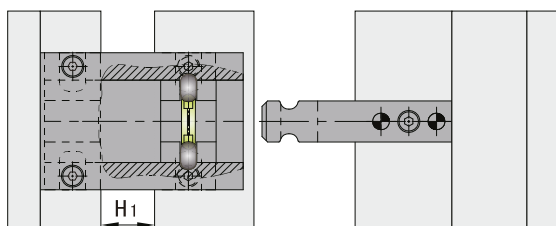


Diagram3: Second opening mould

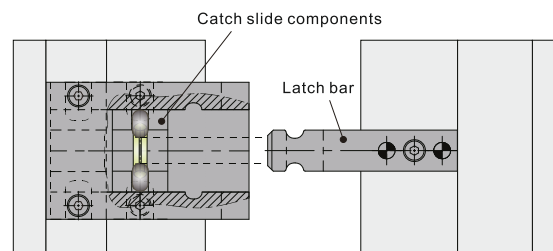
This latch lock with control opening and closed mould function:
 opening mould sequence:
 drawing 1>drawing 2>drawing 3
 closed mould sequence:
 drawing 3>drawing 2>drawing 1

Warning:

As below drawing show, when insert bar release ball slide parts must be sure ball slide in this A drawing position, otherwise will cause insert bar cant insert into ball slide and break latch lock mechanism.



A Right ✓

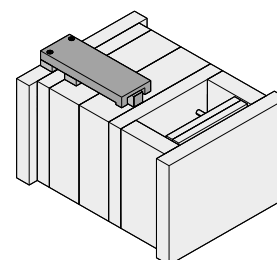
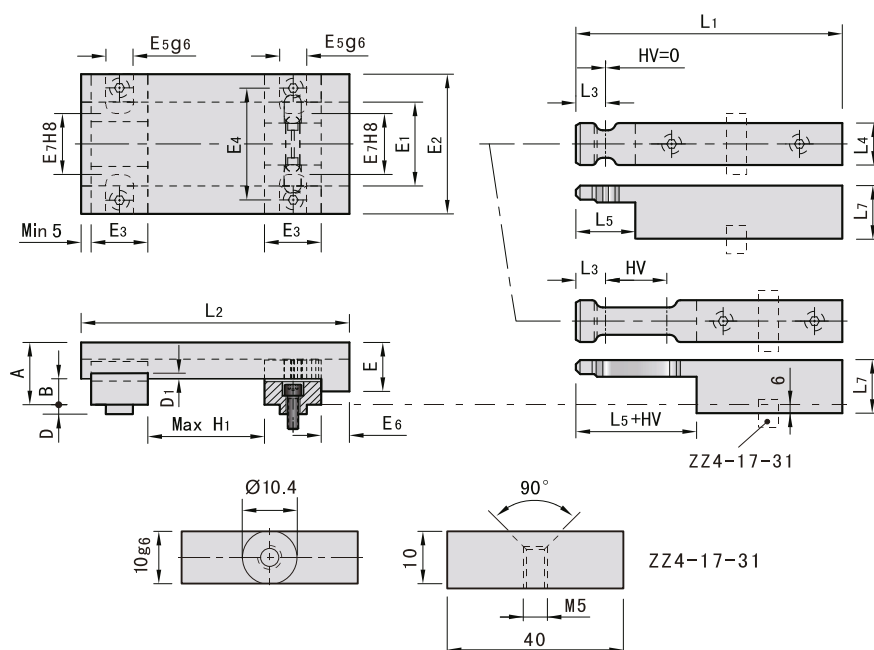


B Wrong ✗



Latch locks

KZZ4

**Features:**

1. Due to double-sided locking system, safe and reliable.
2. The end of insert bar high frequency annealing treatment, easy to install and processing.
3. With the extended HV stroke latch bar, extensively usage.

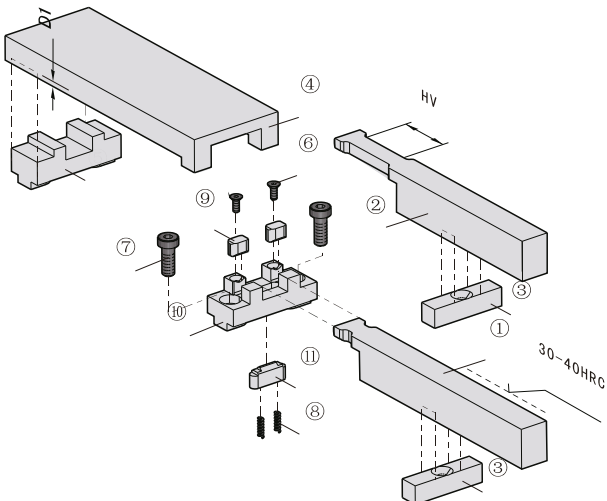
E2	Hv	H1	A	B	E	E1	E3	E4	E5	E6	E7
50	0 25 50 75	91	22.3	9.3	17.5	30	20	38	10	10	22
75	0 25 50 75	116	30.3	12.3	23.5	45	30	56	12	15	30
90	0 25 50 75	154	37.5	15.5	29	60	36	72	14	15	38

Code	D	D1	L1	L2	L3	L4	L5	L7	Mounting screws	
KZZ4-12- 0 KZZ4-12-25 KZZ4-12-50 KZZ4-12-75	4	3	146	146	10	15	21	22	M 6×20	
KZZ4-17- 0 KZZ4-17-25 KZZ4-17-50 KZZ4-17-75	5	4.5	196	196	15	20	31	27	M 8×20	
KZZ4-22- 0 KZZ4-22-25 KZZ4-22-50 KZZ4-22-75	6	6	246	246	18	25	38	33	M10×30	



Latch locks

Product space chart:



ZZ4-17-31

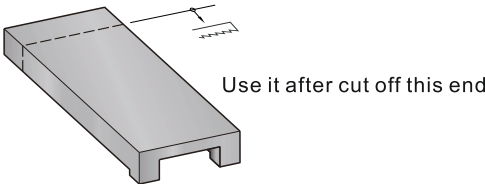
- 1.Screw (6)no real application function, before latch lock installed on the mould, prevent ball slide (9)drop out or forget during installing.
- 2.Use lock block can fixed position or self -processing dowel pin holes in insert bar.
- 3.The end of insert bar annealing treatment.

Pos	Parts name	Material	Hardness
1	Latch bar	Cr12MoV	55-58HRC
2	Parallel Key	S45C	-
3	Control Bracket	718H	≈900HV
4	Spacer	S45C	-
5	Catch	SKD11	58-62HRC
6	Catch housing	718H	28-38HRC
7	Stop	SKD11	58-62HRC

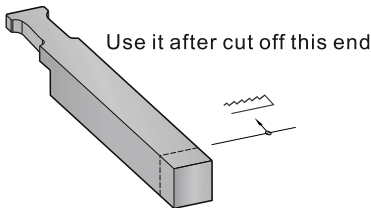
Installation Guidelines:

- Installed ball slide,request parallel with joint face to install.
- Installed insert bar,cut off insert bar length according to real demand .and processing screw holes. make sure mould is closed mould before locking tight the screw to do dowel pin holes.(Install insert bar with HV stroke, mould HV stroke shall be in completely opening condition. at the same eliminate the space between insert bar and ball .then to do with dowel pin holes.
- Ball slide and insert bar symmetrical install on the mould, According to stroke to confirm body length. Ensure various parts install correctly and normal running, then to do with body and install fixed dowel pin holes.
- Every mould suggest to symmetrical installed 2sets or above 2sets ,please notes same stroke and symmetrical install during opening mould, if no symmetrical install or different stroke will cause lath lock break.
- Coordinate function test, check these parts of latch lock structure whether smoothly and stroke coincide or not.
- First remove latch lock device to follow-up operation if need maintenance and change.

Body cut off drawing:



Insert bar cut off drawing:



Functional chart:

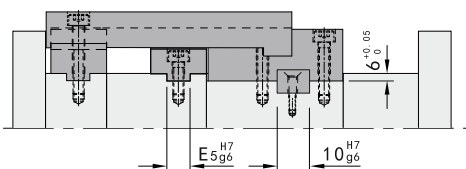
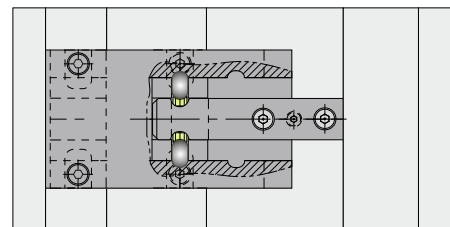


Diagram1: Mold closed

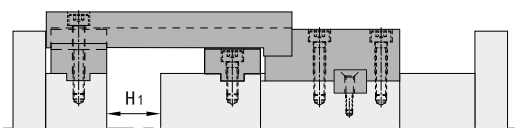
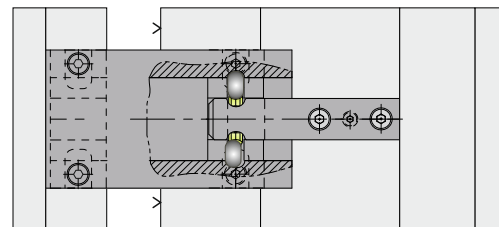


Diagram2: First finish opening mold

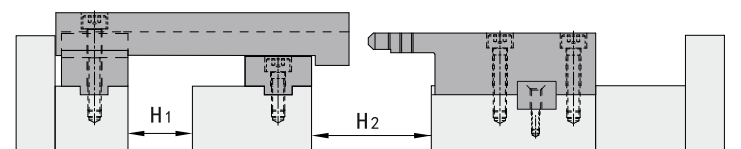
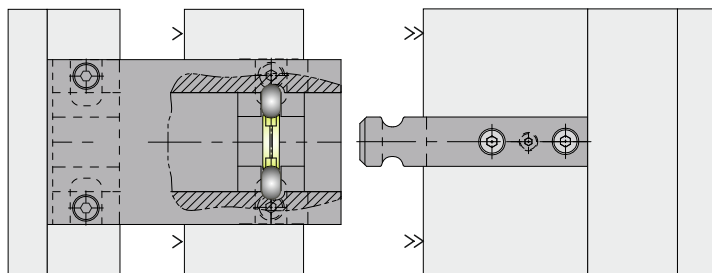
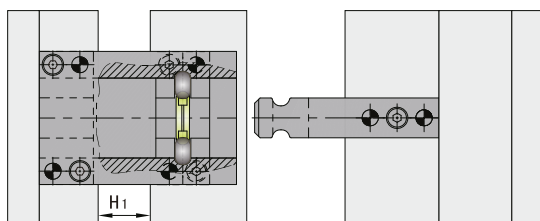


Diagram3: Second opening mould

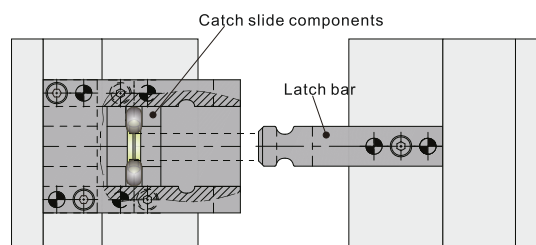
This latch lock with control opening and closed mould function:
 opening mould sequence:
 drawing 1>drawing 2>drawing 3
 closed mould sequence:
 drawing 3>drawing 2>drawing 1

Warning:

As below drawing show, when insert bar release ball slide parts, must be sure ball slide in this A drawing position, otherwise will cause insert bar cant insert into ball slide and break latch lock mechanism.

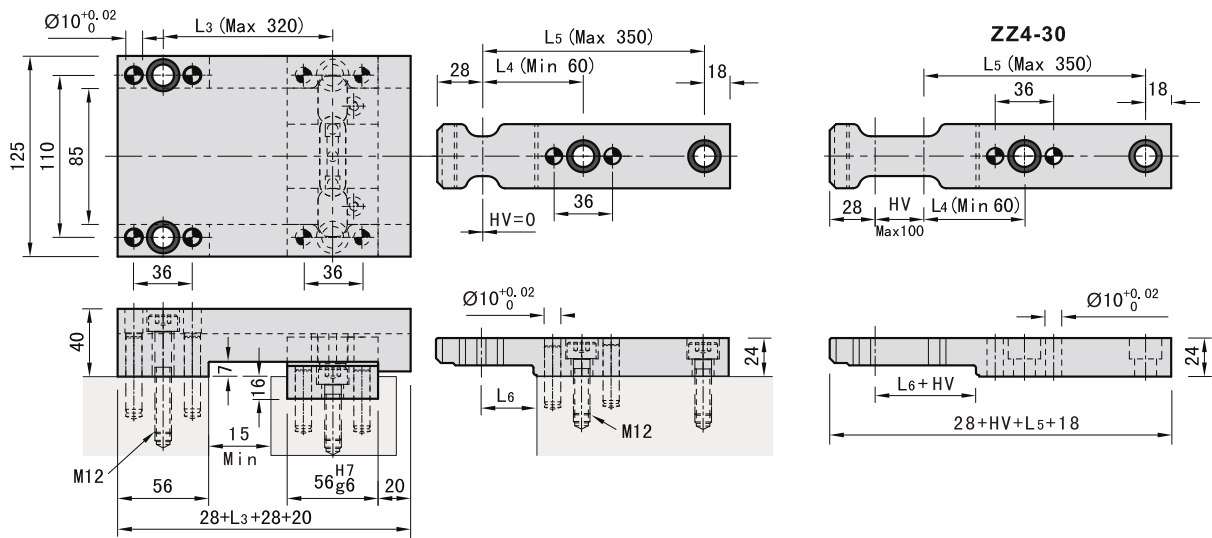


A Right ✓



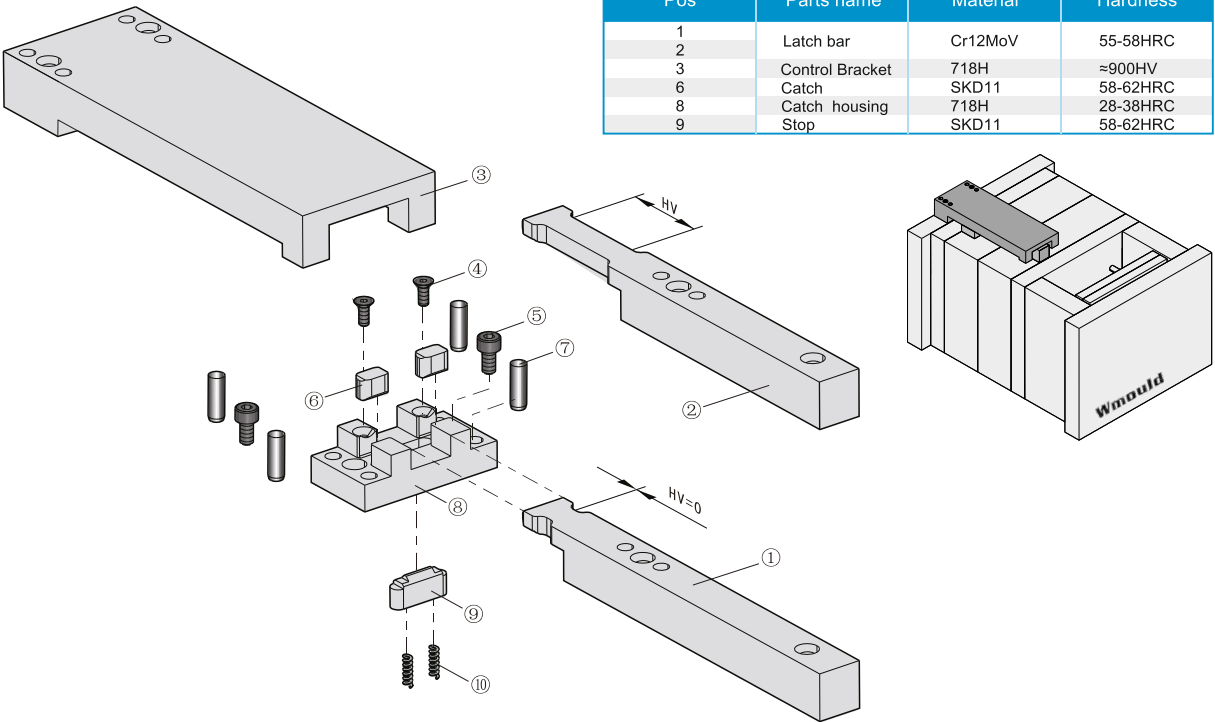
B Wrong ✗

DIN
Latch locks



- Features:**
- 1. Due to double-sided locking system, safe and reliable.
 - 2. This code is ZZ4 series enhanced latch lock, bigger locking force, apply to big mould.
 - 3. With the extended HV stroke latch bar, extensively usage.

Product space chart:



Pos	Parts name	Material	Hardness
1	Latch bar	Cr12MoV	55-58HRC
2	Control Bracket	718H	≈900HV
3	Catch	SKD11	58-62HRC
4	Catch housing	718H	28-38HRC
5	Stop	SKD11	58-62HRC