Kosmek Automatic Clamp

Stable Performance

Point !

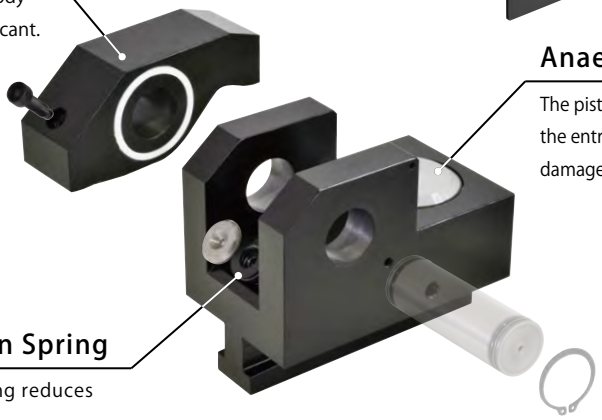
Special Coating Enables a Longer Operational Life Span!

Protective Cover

Keeps out mold lubricant and dust infiltration that can cause malfunctions.

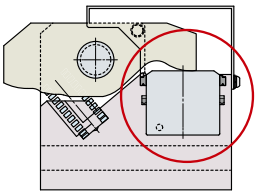
Special Coating

Special coating on the lever and body prevents rust caused by mold lubricant.



Anaerobically-Sealed Cylinder

The piston is anaerobically sealed in order to prevent the entry of mold lubricant or dust which leads to damage to the internal packing and piston.



Powerful Lever Return Spring

The powerful lever return spring reduces the release time.

Point !

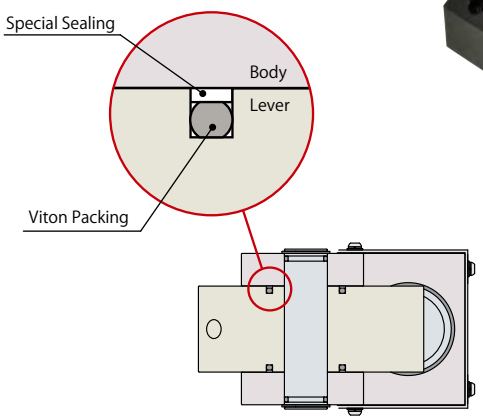
Exclusive Sealing Enables a Longer Operational Life Span!

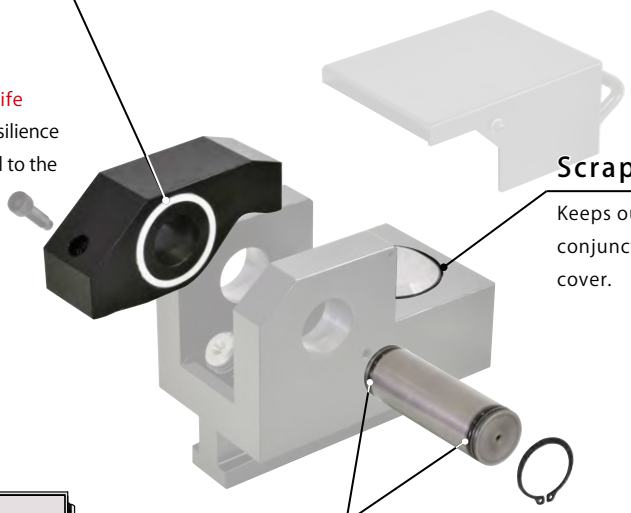
Reduces release errors caused by corrosion of the fulcrum shaft.

Special Seal

★ Low Friction and Smooth Operation
Special wear resistant sealing is used on the sliding surface.

★ High Durability and Longer Operating Life
Maintains high-quality sealing due to the resilience of the Viton seal that presses the special seal to the sliding surface of the body.





Scraper

Keeps out foreign substances in conjunction with the protective cover.

Packing for the Fulcrum Shaft

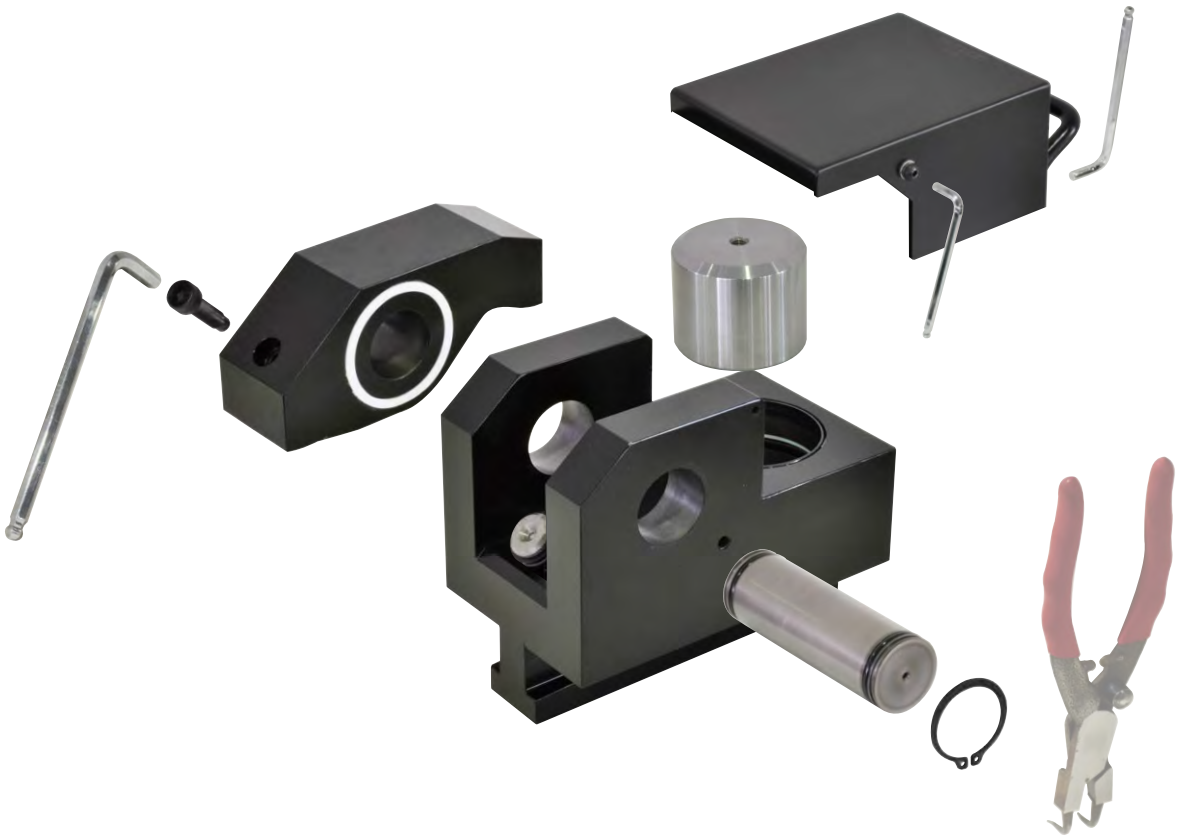
This packing, which is set on the fulcrum shaft, keeps out mold lubricant and dust.

Improved Maintenance

Point !

No Special Tools are Required to Assemble/Disassemble!

The structure has been redesigned. It's simple and easy to maintain.



No special tools are required.

No skilled labor is required.

Small clamps can be assembled and disassembled on the platens.

Simple structure with high durability.

※ For larger models, it is recommended to remove them from the platen during assembly/disassembly for safety.

Additional Standard Models

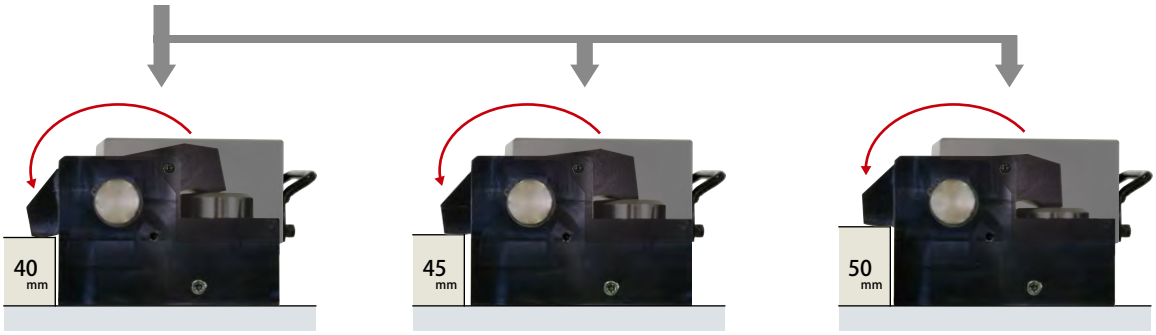
Longer Stroke Model

Point !

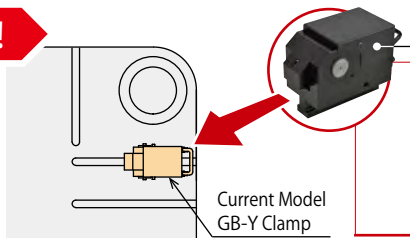
The World's Best Long Stroke Clamp!

0100~0400 Size: St. 8~12mm, 0630~5000 Size: St. 15~16.5mm

For model 0630, the full stroke is 15 mm!
(Ex.) This model works with
three mold thicknesses: 40, 45 and 50mm!



Point!



Your system will be capable of handling more variations in backplate thickness by using the new longer stroke clamps.

T-Slot Automatic Slide Model

Point !

Push Button Operation Completes the Clamp Positioning and Lock Operation

There is no need to go to the non-operation side. Clamp movement is automated.

Various Sizes Available

Standard System

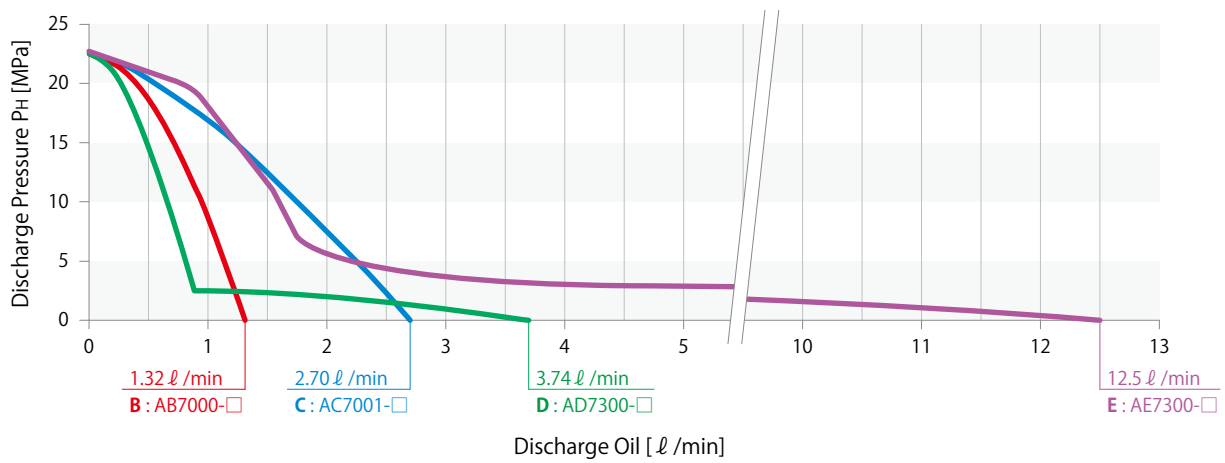
Die Casting Machine Capacity	Clamp Size ※1	Clamp Qty.	Stationary / Movable Total Clamping Force [kN]	Hydraulic Unit			Air Valve Unit (Only GKE/GKF)
				Unit Model	Pump Model	Clamp Operation Speed	
～ 350	0100	8 (Stationary : 4 / Movable : 4)	40	CPBN0□0 CPDN0□0 CPCN0□0 CPEN0□0	AB7000-□ AD7300-□ AC7001-□ AE7300-□	Faster	–
～ 500	0160		64				
～ 750	0250		100				
～ 1500	0400		160				MV3013
～ 2500	0630		252				
～ 5000	1000		400	CPDN0□0 CPCN0□0 CPEN0□0	AD7300-□ AC7001-□ AE7300-□		MV3023
～ 6500	1600		640				
～11000	2500		1000	CPCN0□0 CPEN0□0	AC7001-□ AE7300-□		
～16500	4000		1600	CQEN0□0	AE7300-□		MV3033
～22500	5000		2000				
～25000	4000	12 (Stationary : 6 / Movable : 6)	2400				
～30000	5000		3000				

Notes :

※1. T-Slot Manual Slide (Model GKB/GKC) : sizes 0100~5000, T-Slot Automatic Slide (Model GKE/GKF) : sizes 0400~5000.
Please contact us for T-slot automatic slide clamp sizes smaller than 0400.

1. The standard system above is just a reference. Please contact us for exact specifications for your machine.

Pump Performance Curve



Hydraulic Clamp

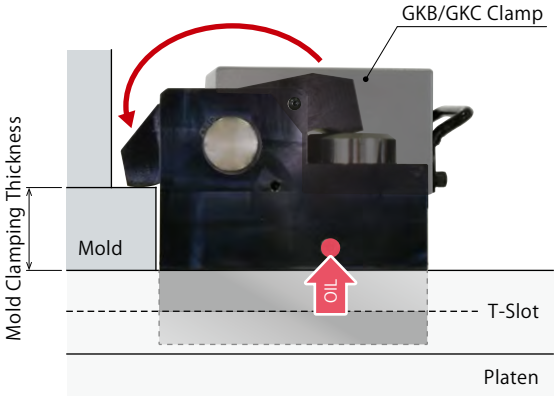
T-Slot Manual-Slide

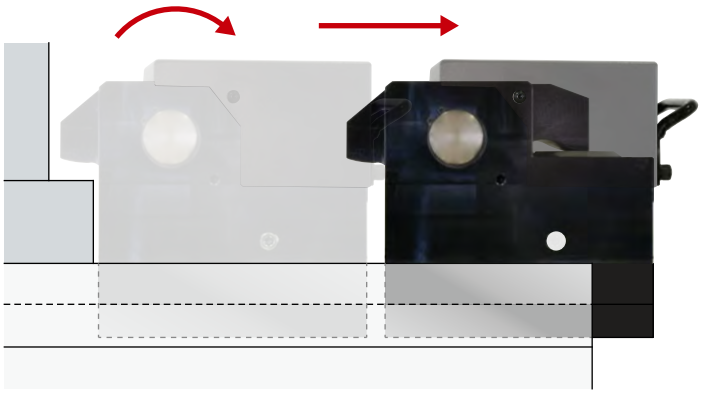
Model **GKB**

Model **GKC** (Longer Stroke)

The clamp is designed for the use under severe conditions where mold lubricant and/or molten metal may spatter. Selection of 10 sizes for small to extra-large die casting machines. PAT.

Action Description



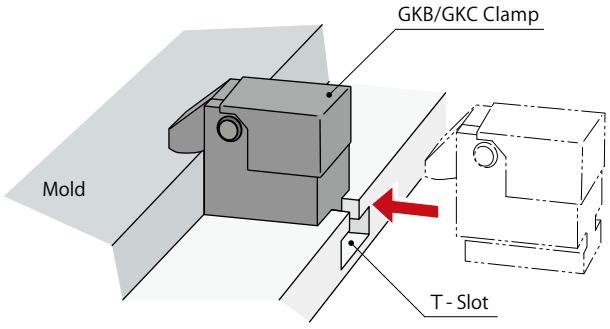


Locking Action

① Load the mold.
② Slide the clamp forward in the T-slot.
③ By supplying hydraulic pressure, the clamp secures the mold.

Releasing Action

① The lever is released by the internal spring when the pressure is released.
② Slide the clamp backward in the T-slot.
③ Unload the mold.



※ We provide GKB/GKC clamps according to the mold clamping thickness and T-slot dimension. Please refer to the external dimensions for details.

Model No. Indication

GK C 040 0 - DP - 5 L - G - S□□□□
1 2 3 4 5 6 7 8

1 Stroke ※ The stroke differs depending on 2 Clamping Force. Please refer to the specifications for the detail.

B : Standard Stroke
C : Longer Stroke

2 Clamping Force

010 : Clamping Force = 10kN
016 : Clamping Force = 16kN
025 : Clamping Force = 25kN
040 : Clamping Force = 40kN
063 : Clamping Force = 63kN
100 : Clamping Force = 100kN
160 : Clamping Force = 160kN
250 : Clamping Force = 250kN
400 : Clamping Force = 400kN
500 : Clamping Force = 500kN

3 Design No.

0 : Revision Number

4 Option ※ Please contact us for specifications and external dimensions for these options.

Blank : None (Standard Model)
D : With Handle (2 **063** or more)
E : Reinforced Body
H : Extra Height Body (When h dimension is more than max. h dimension shown in the external drawing.)
J : Low Lever (When h dimension is less than min. h dimension shown in the external drawing.)
K : Rear Port
L1/L2 : Wide Lever (For U-Cut of Mold) ※1
M1/M2 : For Mold with Notch
N : NPT Port ※2
P : With Mold Confirmation Limit Switch (2 **040** or more) ※3
R : Longer D Dimension of T-Leg
T : T-Slot Locking
U1/U2/U3 : With Grease Nipple (Only for 2 **040**~**250**) (Standard Option for 2 **400**, **500**)
(**U1** : Left Side as Seen from Clamp Back Side, **U2** : Right Side as Seen from Clamp Back Side, **U3** : Both Sides)

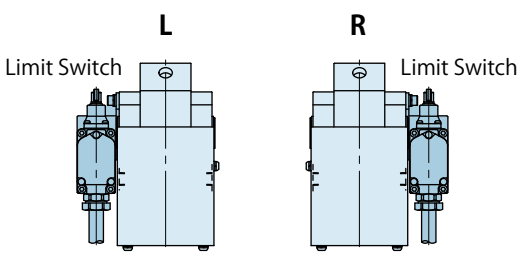
Notes :
※1. Please indicate the U-cut dimension of the mold.
※2. Dimensions in the specification sheet and other documents are in inches.

5 Mold Confirmation Limit Switch Load Voltage (Current) ※3. Only when selecting **P**: Mold Confirmation Limit Switch

1 : AC100V
2 : AC200V
5 : DC24V (5 ~ 40mA)

6 Mold Confirmation Limit Switch Mounting Position ※3. Only when selecting **P**: Mold Confirmation Limit Switch

L : Left (Left Side as Seen from Clamp Back Side)
R : Right (Right Side as Seen from Clamp Back Side)



7 Fluid Code

0 : General Hydraulic Oil (Equivalent to ISO-VG-32)
G : Water•Glycol
S : Silicon Oil
F : Fatty Acid Ester

8 Production Number

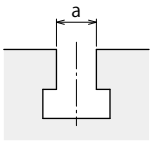
This number represents the main specification of the clamp's T-slot stem and the clamping height.
After the specification is confirmed, we will create a number.

Specifications

Model No.			GKB0100	GKB0160	GKB0250	GKB0400	GKB0630	GKB1000	GKB1600	GKB2500	GKB4000	GKB5000
	Standard Stroke		GKC0100	GKC0160	GKC0250	GKC0400	GKC0630	GKC1000	GKC1600	GKC2500	GKC4000	GKC5000
Clamping Force		kN	10	16	25	40	63	100	160	250	400	500
Working Pressure		MPa	25 (For Rated Clamp Force)									
Withstanding Pressure		MPa	37									
1 B:Standard Stroke	Full Stroke	mm	6	7	7	7	8	8	8	8	8	8
	Clamp Stroke	mm	2	2	2	2	2	2	2	2	2	2
	Extra Stroke	mm	4	5	5	5	6	6	6	6	6	6
	Cylinder Capacity (At Full Stroke)	cm^3	2.5	4.6	7.2	11.5	20.6	33.6	53.8	83.8	130.8	166.0
1 C:Longer Stroke	Full Stroke	mm	8	9	10	12	15	15.5	16	16	16	16.5
	Clamp Stroke	mm	0.5	1	1.5	3.5	1	1.5	2	2	2	2.5
	Extra Stroke	mm	7.5	8	8.5	8.5	14	14	14	14	14	14
	Mold Clamping Thickness Variance	mm	5	5	5	5	10	10	10	10	10	10
	Cylinder Capacity (At Full Stroke)	cm^3	4	6	10	19	38	63	105	160	253	331
Operating Temperature		℃	0 ~ 120									
Use Frequency ※1			Less than 20 Cycles / Day ※1									
Usable Fluid ※2 ※3 ※4			Refer to 7 Fluid Code									
Min. T-Slot Width a (JIS) ※5		mm	10	12	14	18	22	24	28	36	36	36 (2 T-Legs)
Max. T-Slot Width a (JIS) ※5		mm	20	24	32	42	42	54	54	54	54	42 (2 T-Legs)

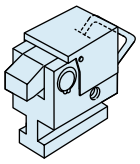
Notes :

※1. Please contact us for more frequent use.
※2. Please contact us for fluids other than those mentioned on the list.
※3. If hydraulic viscosity is higher than specified, action time will be longer. Please refer to Hydraulic Fluid List on P.56.
※4. If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
※5. It shows reference dimensions. The dimension may differ from specification depending on T-slot (T-leg) dimension, dimension of clamp cylinder that sticks out of T-slot during lock action, or body material.

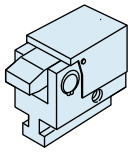


T-Slot

Option

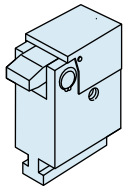


D With Handle (GKB/GKC0630 or larger)



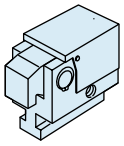
E Reinforced Body

For undersize or large tolerance T-slot.



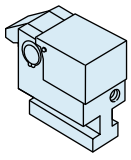
H Extra Height Body

When the h dimension is greater than standard.



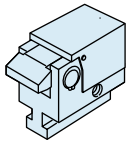
J Low Lever

When the h dimension is less than standard.



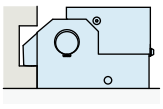
K Rear Port

Piping from Backside



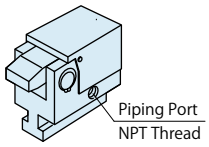
L□ Wide Lever (For U-Cut of Mold)

If a mold has a notch such as U-Cut.

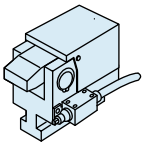


M□ For Mold with Notch

For limited space at mold clamping part in Z-axis.

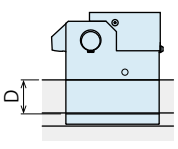


N NPT Port



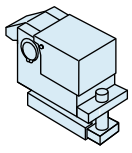
P With Mold Confirmation Limit Switch (GKB/GKC0400 or lager)

Secure Clamping with Mold Confirmation Switch



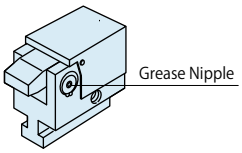
R Longer D-Dimension of T-Leg

For Longer D Dimension of T-Leg



T T-Slot Locking

Prevents clamp movement



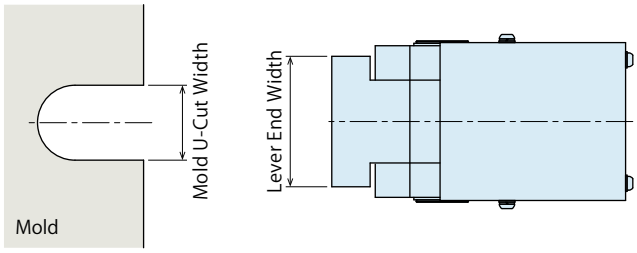
U□ With Grease Nipple (GKB/GKC0400～2500)

Standard Option for GKB/GKC4000, GKB/GKC5000

Note :

1. Specifications/external dimensions for these options are different from standard model. Please contact us for further information.

L1/L2 Detail of Wide Lever Option



(mm)

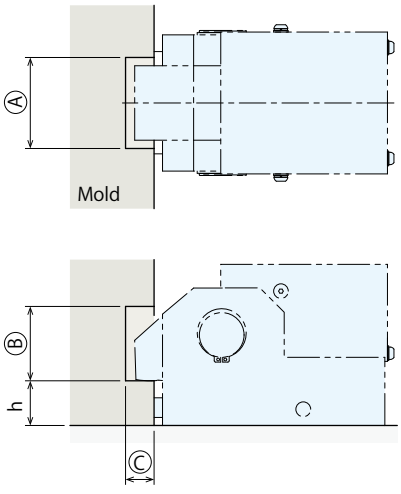
Model No.	Mold U-Cut Width	Lever End Width
GKB/GKC0100-L1	~ 20	35
GKB/GKC0160-L1	~ 25	48
GKB/GKC0250-L1	~ 25	48
GKB/GKC0250-L2	25 ~ 35	58
GKB/GKC0400-L1	~ 30	58
GKB/GKC0400-L2	30 ~ 40	68
GKB/GKC0630-L1	~ 38	72
GKB/GKC0630-L2	38 ~ 50	85
GKB/GKC1000-L1	~ 40	85
GKB/GKC1000-L2	40 ~ 55	97
GKB/GKC1600-L1	~ 45	97
GKB/GKC1600-L2	45 ~ 55	107
GKB/GKC2500-L1	~ 45	107
GKB/GKC2500-L2	45 ~ 55	117

Note :
1. Please contact us for the mold U-cut width and lever end width of GKB/GKC4000-L□, GKB/GKC5000-L□.

M1/M2 Detail of Mold with Notch Option

(**M1** : Standard Lever Material, **M2** : High Strength Lever Material)※1

When making an order, please indicate Ⓐ·Ⓑ·Ⓒ and h dimensions of mold clamping thickness.

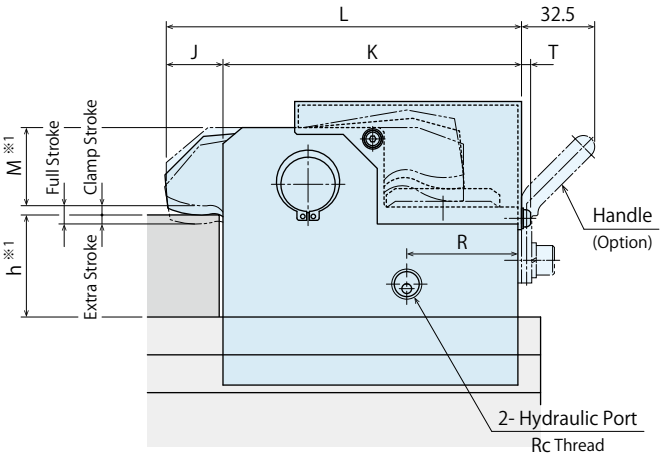


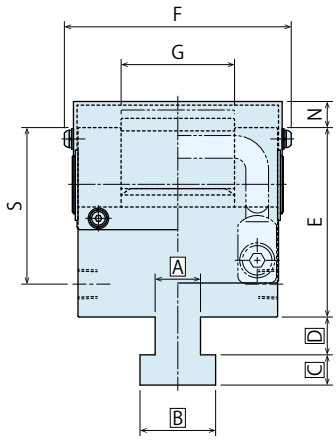
Notes :
2. This option may not be available depending on the mold notch dimensions. Please contact us.
3. Please contact us for other mold notch shapes.

※1. The lever material is decided by Kosmek based on the mold notch dimensions.

External Dimensions : GKB0100 ~ GKB2500

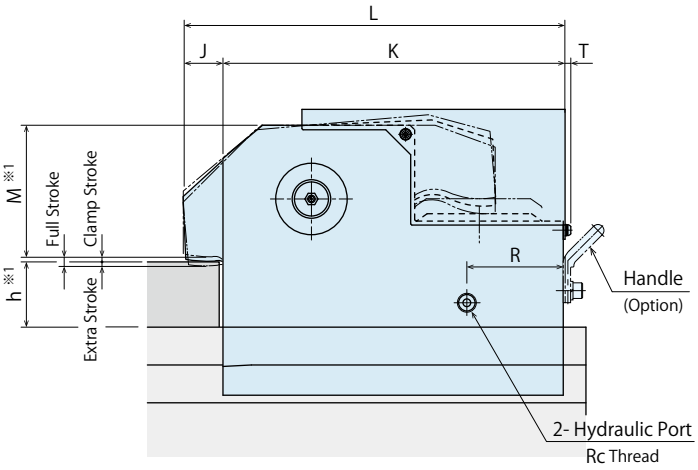
※ This drawing shows GKB0100 ~ GKB2500 standard model.
Contact us for external dimensions for options.

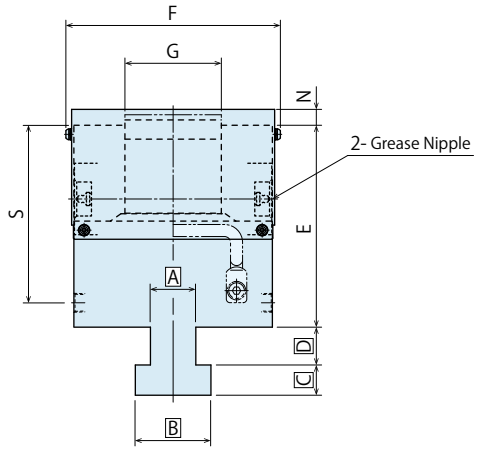




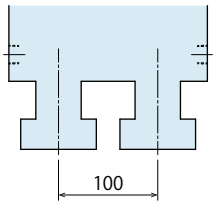
External Dimensions : GKB4000/GKB5000

※ This drawing shows GKB4000/GKB5000 standard model. GKB4000/GKB5000 has the grease nipple as standard.
GKB5000 has two T-legs. Please contact us for external dimensions for options.



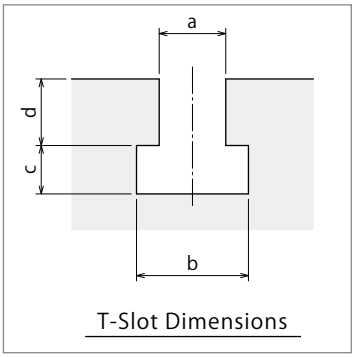


GKB4000



GKB5000

T-Slot Dimensions



T-Slot Dimensions

Notes :

1. Do not exceed the clamping force on the specification.
2. Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.

External Dimensions : Model GKB (Standard Stroke)

(mm)

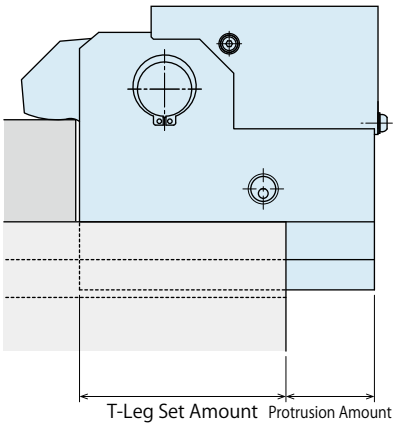
Model No.	GKB0100	GKB0160	GKB0250	GKB0400	GKB0630	GKB1000	GKB1600	GKB2500	GKB4000	GKB5000
Full Stroke	6	7	7	7	8	8	8	8	8	8
Clamp Stroke	2	2	2	2	2	2	2	2	2	2
Extra Stroke	4	5	5	5	6	6	6	6	6	6
min. E	42.5	49	58	66	81	105.5	122.5	144.5	177.5	202.5
F	47	57	67	80	100	111.5	131.5	158.5	189.5	214.5
G	20	26	32	38	50	53	60	73	85	100
J	15	17	19	22	25	30	30	30	35	37
K	59.5	71.5	85.5	107.5	132	161	201	242	302	342
L	74.5	88.5	104.5	129.5	157	191	231	272	337	379
N	8	10	10	10	11.5	11.5	12.5	13.5	14	15
R	27	27	37	42	49	68	73	69.5	85	90
S	33.5	40	46	54	69	93.5	108.5	127.5	156.5	174.5
T	3	3	3	4	4	5.5	5.5	5.5	5.5	5.5
Rc	Rc1/8	Rc1/8	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc3/8	Rc3/8
min. h	20	20	25	25	30	40	40	45	50	60
max. h	40	40	50	50	60	70	80	80	85	85

Notes :

※1. M dimension (Lever Thickness) in the drawing varies depending on h dimension (Mold Clamping Thickness).
Please contact us for further information.

1. If you would like to change the ratio of clamp stroke and extra stroke, please contact us.
2. A B C D dimensions are determined by Kosmek according to the T-slot dimensions.
3. When making an order, please specify a, b, c, d dimension of T-slot and h dimensions of mold clamping thickness.
4. Please set the dimensions of a, b, c, d and h in 0.1mm increments.

The Allowable Protrusion Amount of Cylinder



(mm)

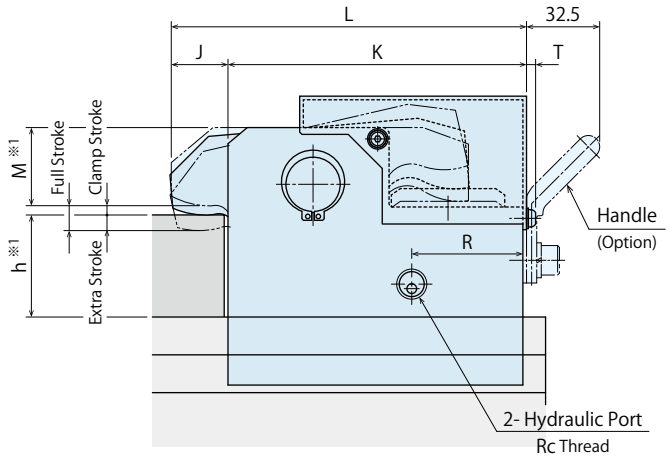
Model No.	Min. T-Leg Set Amount	Allowable Protrusion Amount
GKB0100	40.5	17.5
GKB0160	49.0	21.0
GKB0250	59.0	25.0
GKB0400	73.5	32.0
GKB0630	91.0	39.0
GKB1000	114.0	45.0
GKB1600	142.0	57.0
GKB2500	170.5	69.5
GKB4000	–	0
GKB5000	–	0

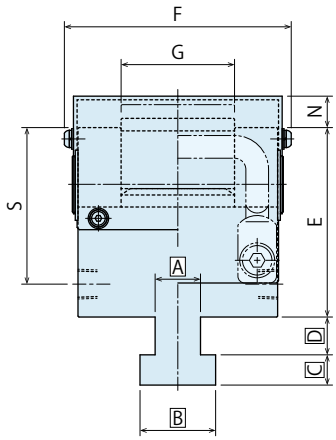
Note :

1. The dimensions on the list are for reference.
The dimensions may differ from specification depending on T-slot (T-leg) dimension or body material.
Please contact us for further information.

External Dimensions：GKC0100 ~ GKC2500

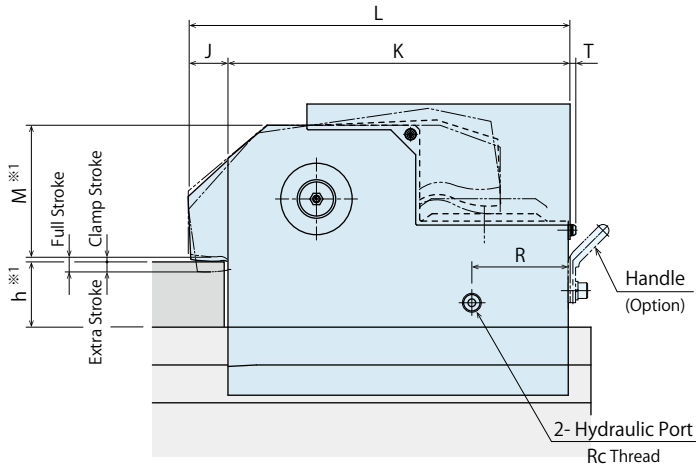
※ This drawing shows GKC0100 ~ GKC2500 standard model.
Contact us for external dimensions for options.

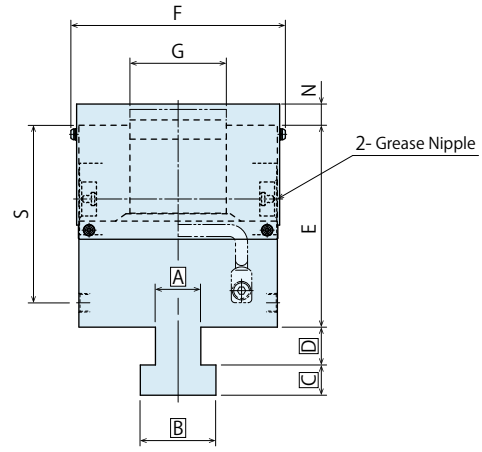




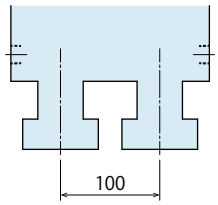
External Dimensions ：GKC4000/GKC5000

※ This drawing shows GKC4000/GKC5000 standard model. GKC4000/GKC5000 has the grease nipple as standard.
GKC5000 has two T-legs. Please contact us for external dimensions for options.



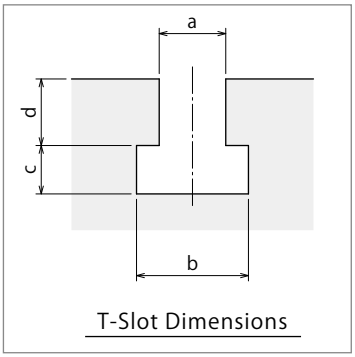


GKC4000



GKC5000

T-Slot Dimensions



T-Slot Dimensions

Notes :

1. Do not exceed the clamping force on the specification.
2. Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.

External Dimensions : Model GKC (Longer Stroke)

(mm)

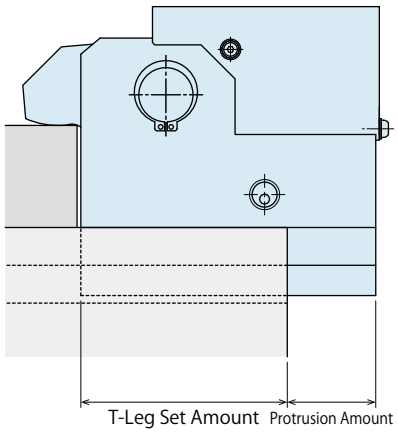
Model No.	GKC0100	GKC0160	GKC0250	GKC0400	GKC0630	GKC1000	GKC1600	GKC2500	GKC4000	GKC5000
Full Stroke	8	9	10	12	15	15.5	16	16	16	16.5
Clamp Stroke	0.5	1	1.5	3.5	1	1.5	2	2	2	2.5
Extra Stroke	7.5	8	8.5	8.5	14	14	14	14	14	14
Mold Clamping Thickness Variance	5	5	5	5	10	10	10	10	10	10
min. E	45.5	52	62	71	88.5	114	132.5	154.5	187.5	212.5
F	47	57	67	80	100	111.5	131.5	158.5	189.5	214.5
G	20	26	32	38	50	53	60	73	85	100
J	15	17	19	22	25	30	30	30	35	37
K	59.5	71.5	85.5	107.5	132	161	201	242	302	342
L	74.5	88.5	104.5	129.5	157	191	231	272	337	379
N	10	12	12.5	14	18	18	20.5	22.5	22.5	24.5
R	27	27	37	42	49	68	73	69.5	85	90
S	36.5	43	50	59	76.5	102	118.5	137.5	166.5	184.5
T	3	3	3	4	4	5.5	5.5	5.5	5.5	5.5
Rc	Rc1/8	Rc1/8	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc3/8	Rc3/8
min. h	20 ~ 25	20 ~ 25	25 ~ 30	25 ~ 30	30 ~ 40	40 ~ 50	40 ~ 50	45 ~ 55	50 ~ 60	60 ~ 70
max. h	35 ~ 40	35 ~ 40	45 ~ 50	45 ~ 50	50 ~ 60	60 ~ 70	70 ~ 80	70 ~ 80	75 ~ 85	75 ~ 85

Notes :

※1. M dimension (Lever Thickness) in the drawing varies depending on h dimension (Mold Clamping Thickness). Please contact us for further information.

1. If you would like to change the ratio of clamp stroke and extra stroke, please contact us.
2. A B C D dimensions are determined by Kosmek according to the T-slot dimensions.
3. When making an order, please specify a, b, c, d dimension of T-slot and h dimensions of mold clamping thickness.
4. Please set the dimensions of a, b, c, d and h in 0.1mm increments. If h dimension has variations, please specify the variations.

The Allowable Protrusion Amount of Cylinder



(mm)

Model No.	Min. T-Leg Set Amount	Allowable Protrusion Amount
GKC0100	40.5	17.5
GKC0160	49.0	21.0
GKC0250	59.0	25.0
GKC0400	73.5	32.0
GKC0630	91.0	39.0
GKC1000	114.0	45.0
GKC1600	142.0	57.0
GKC2500	170.5	69.5
GKC4000	–	0
GKC5000	–	0

Note :

1. The dimensions on the list are for reference. The dimensions may differ from specification depending on T-slot (T-leg) dimension or body material.

Hydraulic Clamp

T-Slot Automatic-Slide

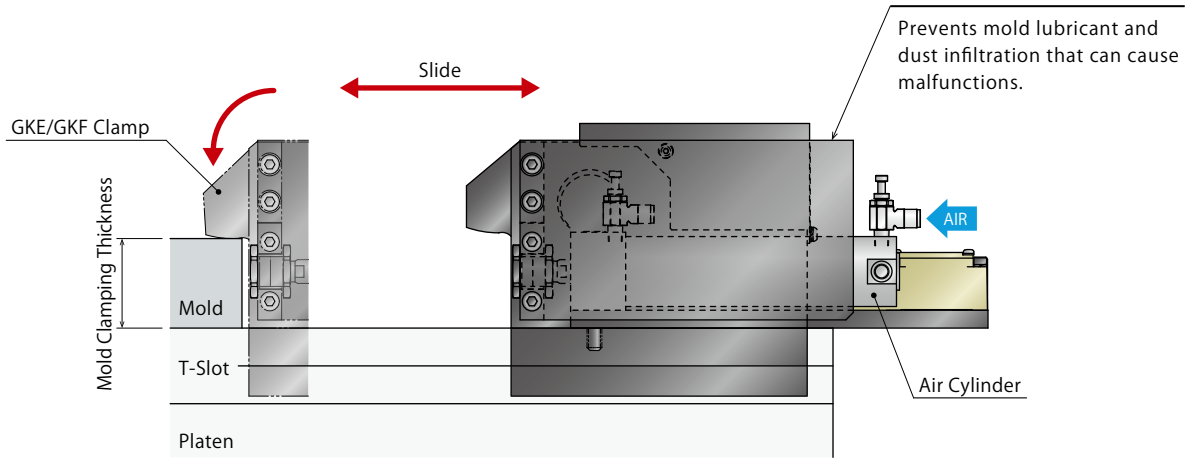
Model **GKE**

Model **GKF** (Longer Stroke)

GKB/GKC Clamp with an air cylinder.
Push button operation completes
the clamp positioning and lock operations.

PAT.

Action Description



Locking Action

① Load the mold.
② Air is supplied to the air cylinder and the GKE/GKF moves forward.
③ Forward End Confirmation Switch (Limit Switch) detects the mold.
④ By supplying hydraulic pressure, the clamp secures the mold.

Forward End Detection	ON
Backward End Detection	OFF

Releasing Action

① The mold is released by the internal spring when the hydraulic pressure is released.
② Air is supplied to the air cylinder (backward side) and GKE/GKF clamp moves backward.
③ Backward End Confirmation Switch (Limit Switch) detects that the clamp has moved backward.
④ Unload the mold.

Forward End Detection	OFF
Backward End Detection	ON

※ We provide GKE/GKF clamps according to the mold clamping thickness and T-slot dimension.
Please refer to the external dimensions for details.

Model No. Indication

GK F 040 0 - 75 - 5 L - EU - G - S□□□□
(1) (2) (3) (4) (5) (6) (7) (8) (9)

1 Stroke ※ The stroke differs depending on 2 Clamping Force. Please refer to the specifications for the detail.

E : Standard Stroke
F : Longer Stroke

2 Clamping Force

040 : Clamping Force = 40kN
063 : Clamping Force = 63kN
100 : Clamping Force = 100kN
160 : Clamping Force = 160kN
250 : Clamping Force = 250kN
400 : Clamping Force = 400kN
500 : Clamping Force = 500kN

3 Design No.

0 : Revision Number

4 Slide (Air Cylinder) Stroke Length

25 : Clamp Travel Distance = 25mm
〜
300 : Clamp Travel Distance = 300mm

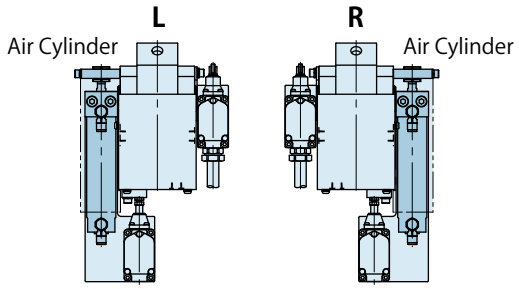
※ Selectable 4 Slide Stroke Length differs according to 2 Clamping Force. Please refer to the slide stroke on specifications.
※ Extra distance should be considered when determining the travel distance.

5 Limit Switch Load Voltage (Current)

1 : AC100V
2 : AC200V
5 : DC24V (5 ~ 40mA)

6 Air Cylinder Mounting Position

L : Left (Left Side as Seen from Clamp Back Side)
R : Right (Right Side as Seen from Clamp Back Side)



7 Option ※ Please contact us for specifications and external dimensions for these options.

Blank : None (Standard Model)
E : Reinforced Body
H : Extra Height Body (When h dimension is more than max. h dimension shown in the external drawing.)
J : Low Lever (When h dimension is less than min. h dimension shown in the external drawing.)
K : Rear Port (Standard Option for 2 **040**, **063**, **100**)
L1/L2 : Wide Lever (For U-Cut of Mold) ※1
M1/M2 : For Mold with Notch
N : NPT Port ※2
R : Longer D Dimension of T-Leg
U1/U2/U3 : With Grease Nipple (Only for 2 **040**〜**250**) (Standard Option for 2 **400**, **500**)
(**U1** : Left Side as Seen from Clamp Back Side, **U2** : Right Side as Seen from Clamp Back Side, **U3** : Both Sides)

Notes :
※1. Please indicate the U-cut dimension of the mold.
※2. Dimensions in the specification sheet and other documents are in inches.

8 Fluid Code

0 : General Hydraulic Oil (Equivalent to ISO-VG-32)
G : Water・Glycol
S : Silicon Oil
F : Fatty Acid Ester

9 Production Number

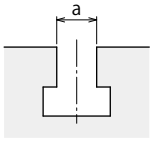
This number represents the main specification of the clamp's T-slot stem and the clamping height.
After the specification is confirmed, we will create a number.

Specifications

Model No.	Standard Stroke		**GKE0400**	**GKE0630**	**GKE1000**	**GKE1600**	**GKE2500**	**GKE4000**	**GKE5000**
	(GKB Clamp Model No.)		**(GKB0400)**	**(GKB0630)**	**(GKB1000)**	**(GKB1600)**	**(GKB2500)**	**(GKB4000)**	**(GKB5000)**
	Longer Stroke		**GKF0400**	**GKF0630**	**GKF1000**	**GKF1600**	**GKF2500**	**GKF4000**	**GKF5000**
	(GKC Clamp Model No.)		**(GKC0400)**	**(GKC0630)**	**(GKC1000)**	**(GKC1600)**	**(GKC2500)**	**(GKC4000)**	**(GKC5000)**
Clamping Force		kN	40	63	100	160	250	400	500
Working Pressure		MPa	25 (For Rated Clamp Force)						
Withstanding Pressure		MPa	37						
Air Pressure for Air Cylinder		MPa	0.4 ~ 0.5						
Slide Stroke		mm	25 ~ 200	50 ~ 200	50 ~ 200	50 ~ 300	50 ~ 300	50 ~ 300	50 ~ 300
1 E: Standard Stroke	Full Stroke	mm	7	8	8	8	8	8	8
	Clamp Stroke	mm	2	2	2	2	2	2	2
	Extra Stroke	mm	5	6	6	6	6	6	6
	Cylinder Capacity (At Full Stroke)	cm^3	11.5	20.6	33.6	53.8	83.8	130.8	166.0
1 F: Longer Stroke	Full Stroke	mm	12	15	15.5	16	16	16	16.5
	Clamp Stroke	mm	3.5	1	1.5	2	2	2	2.5
	Extra Stroke	mm	8.5	14	14	14	14	14	14
	Mold Clamping Thickness Variance	mm	5	10	10	10	10	10	10
	Cylinder Capacity (At Full Stroke)	cm^3	19	38	63	105	160	253	331
Operating Temperature		℃	0 ~ 120						
Use Frequency ※1			Less than 20 Cycles / Day ※1						
Usable Fluid ※2 ※3 ※4			Refer to 8 Fluid Code						
Min. T-Slot Width a (JIS) ※5		mm	18	22	24	28	36	36	36 (2 T-Legs)
Max. T-Slot Width a (JIS) ※5		mm	42	42	54	54	54	54	42 (2 T-Legs)

Notes :

※1. Please contact us for more frequent use.
※2. Please contact us for fluids other than those mentioned on the list.
※3. If hydraulic viscosity is higher than specified, action time will be longer. Please refer to Hydraulic Fluid List on P.56.
※4. If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
※5. It shows reference dimensions. The dimension may differ from specification depending on T-slot (T-leg) dimension, dimension of clamp cylinder that sticks out of T-slot during lock action, or body material.
1. Please refer to GKB/GKC clamp pages for details of clamp body.
2. Please contact us for smaller clamps than GKE/GKF0400.

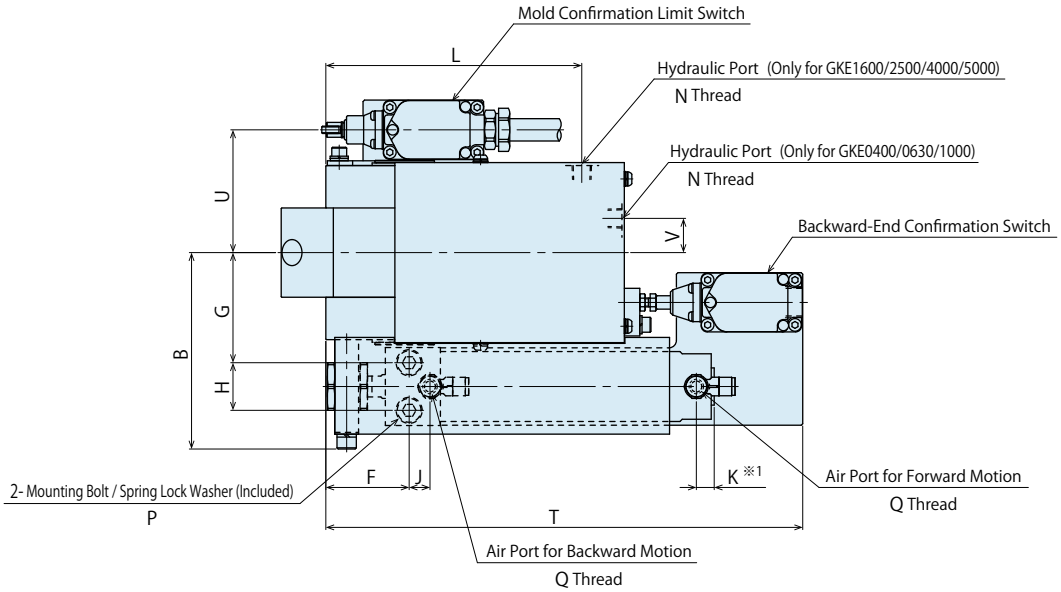


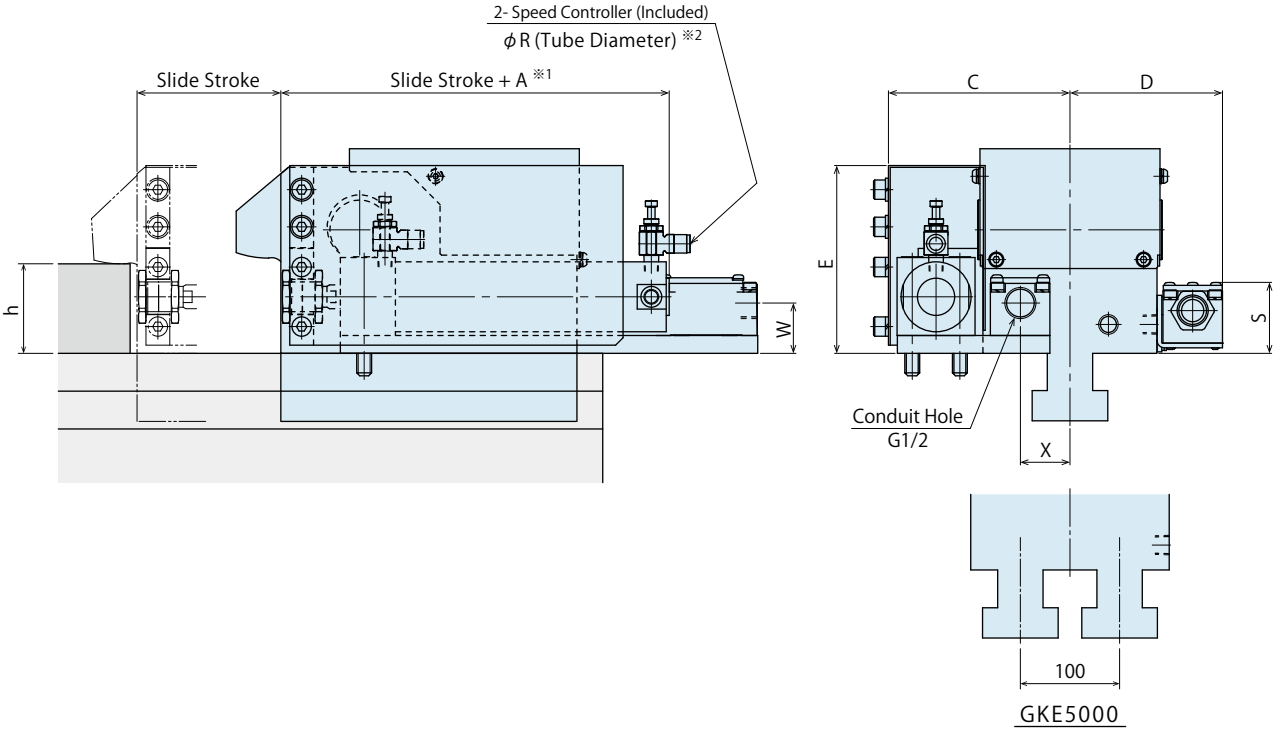
T-Slot

MEMO

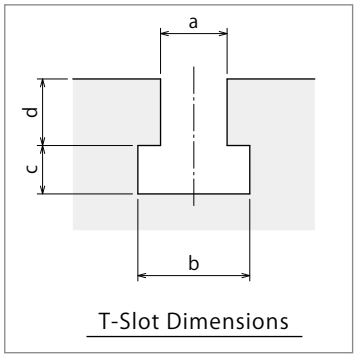
External Dimensions : Model GKE (Standard Stroke)

※ This drawing shows GKE0400 ~ GKE5000 standard model, air cylinder mounting position : **L**.
GKE4000/GKE5000 has the grease nipple as standard. GKE5000 has two T-legs.
Please contact us for external dimensions for options. Please refer to GKB clamp pages for details of clamp body.





T-Slot Dimensions



Notes :

1. Do not exceed the clamping force on the specification.
2. Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.

External Dimensions : Model GKE (Standard Stroke)

(mm)

Model No.	GKE0400	GKE0630	GKE1000	GKE1600	GKE2500	GKE4000	GKE5000
GKB Clamp Model No.	GKB0400	GKB0630	GKB1000	GKB1600	GKB2500	GKB4000	GKB5000
Full Stroke	7	8	8	8	8	8	8
Clamp Stroke	2	2	2	2	2	2	2
Extra Stroke	5	6	6	6	6	6	6
A ※1	105	112	118	136	157	184	184
B	80.5	96.5	107.5	132	157	239.5	252
C	74	89	100	122	144.5	224.5	237
D	78	88	92.5	102.5	116	131.5	144
E	85	95	109.5	126.5	148.5	181.5	206.5
F	39	45	46	56	64	57	57
G	44	55	61	74	89	106.5	119
H	18	22	24	32	41	96	96
J	9	10	13	14	16	36	36
K ※1	12	12	12	12	14	19	19
L	–	–	–	172	170.5	215	250
N	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc3/8	Rc3/8
P	M5×0.8×40	M6×1×50	M8×1.25×55	M10×1.5×70	M12×1.75×85	M16×2×130	M16×2×130
Q	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/4	Rc3/8	Rc3/8
R ※2	6	6	6	6	10	10	10
S	48	48	48	48	48	48	48
T	227	251.5	280.5	320.5	349.5	409.5	449.5
U	58	68	72.5	82.5	96	111.5	124
V	24	24	25	–	–	–	–
W	27.6	30.6	33.6	33.6	37.6	40.6	40.6
X	11	19	23.5	33.5	47	62.5	75
min. h	25	30	40	40	45	50	60
max. h	50	60	70	80	80	85	85

Notes :

※1. "A" and "K" dimensions are different when exceeding the stroke value written in the list. Please contact us for detail.

※2. For **N** : NPT port, "R" dimension (tube diameter) of the speed controller is in inches.

1. If you would like to change the ratio of clamp stroke and extra stroke, please contact us.
2. When making an order, please specify a, b, c, d dimension of T-slot and h dimensions of mold clamping thickness.
3. Please set the dimensions of a, b, c, d and h in 0.1mm increments.
4. Please adjust the moving speed of the clamp with speed controller to fully stroke within 1 to 2 seconds.
5. Do not set the mold confirmation limit switch to the mold surface near the U-slot.
6. When determining slide stroke, provide the forward end with an extra stroke between 2 and 5 mm considering dimensional accuracy of the air cylinder and detection distance of the limit switch.
7. Clamp sliding surface should be smooth.
8. Please refer to GKB clamp pages for unlisted dimensions.

Slide Stroke

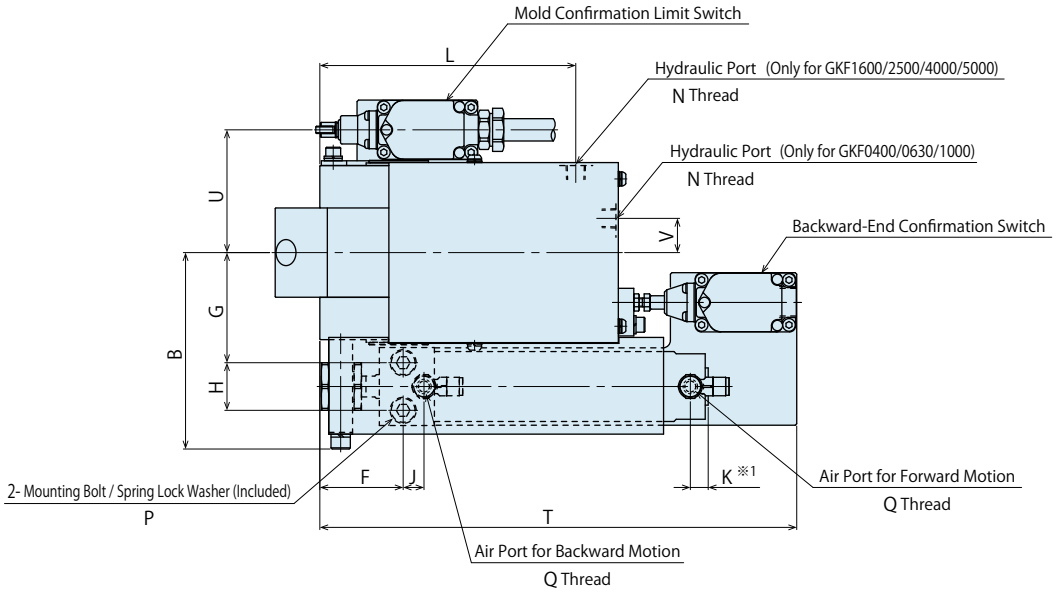
Model No.	Slide Stroke (mm)								
	25	50	75	100	125	150	200	250	300
GKE0400	○	○	○	○	○	○	○		
GKE0630		○	○	○	○	○	○		
GKE1000		○	○	○	○	○	○		
GKE1600		○	○	○	○	○	○	○	○
GKE2500		○	○	○	○	○	○	○	○
GKE4000		○	○	○	○	○	○	○	○
GKE5000		○	○	○	○	○	○	○	○

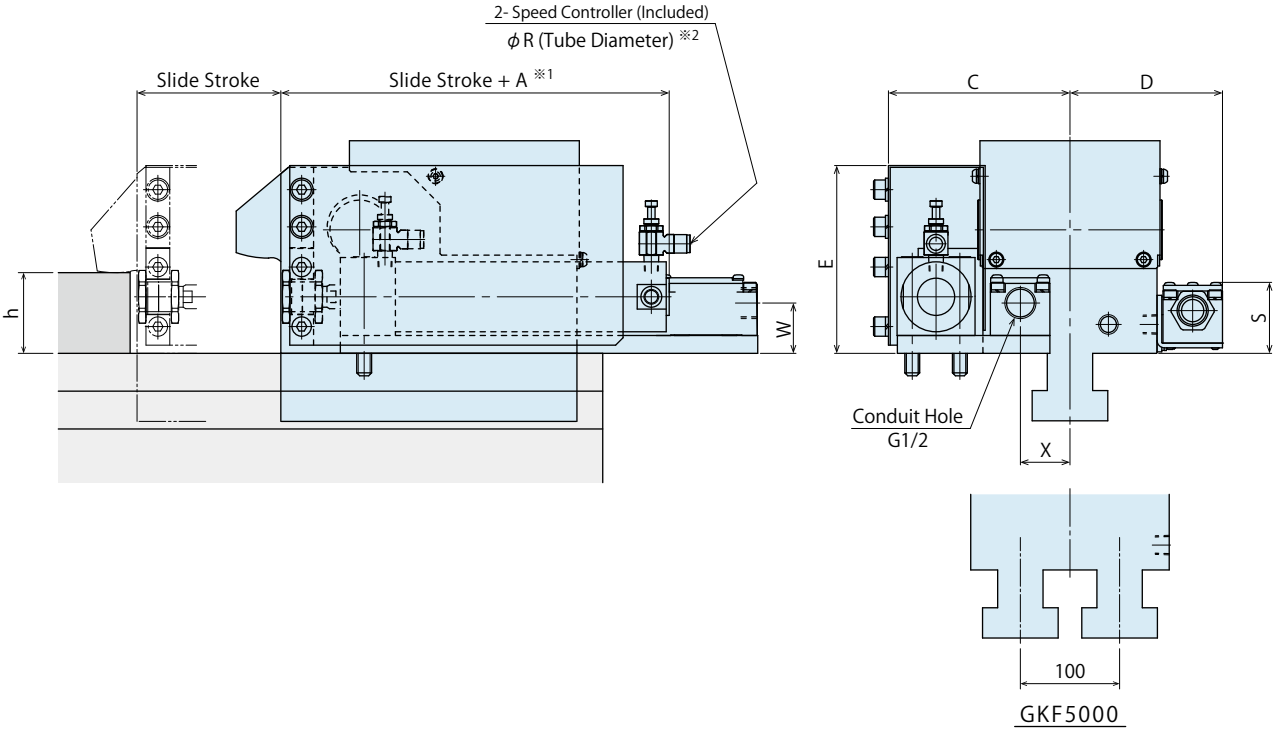
Note :

1. "A" and "K" dimensions are different when exceeding the stroke value written in the list. Please contact us for detail.

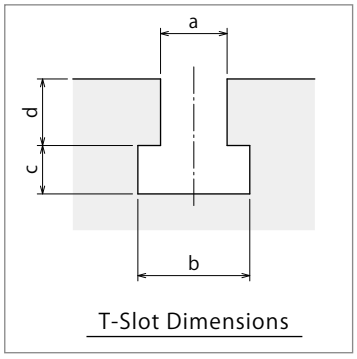
External Dimensions : Model GKF (Longer Stroke)

※ This drawing shows GKF0400 ~ GKF5000 standard model, air cylinder mounting position: **L**.
GKF4000/GKF5000 has the grease nipple as standard. GKF5000 has two T-legs.
Please contact us for external dimensions for options. Please refer to GKC clamp pages for details of clamp body.





T-Slot Dimensions



Notes :

1. Do not exceed the clamping force on the specification.
2. Specifications/Contents in this catalog are subject to change without prior notice. Ask for the approval drawing before deciding to purchase.

External Dimensions : Model GKF (Longer Stroke)

(mm)

Model No.	GKF0400	GKF0630	GKF1000	GKF1600	GKF2500	GKF4000	GKF5000
GKC Clamp Model No.	GKC0400	GKC0630	GKC1000	GKC1600	GKC2500	GKC4000	GKC5000
Full Stroke	12	15	15.5	16	16	16	16.5
Clamp Stroke	3.5	1	1.5	2	2	2	2.5
Extra Stroke	8.5	14	14	14	14	14	14
Mold Clamping Thickness Variance	5	10	10	10	10	10	10
A ※1	105	112	118	136	157	184	184
B	80.5	96.5	107.5	132	157	239.5	252
C	74	89	100	122	144.5	224.5	237
D	78	88	92.5	102.5	116	131.5	144
E	85	95	109.5	126.5	148.5	181.5	206.5
F	39	45	46	56	64	57	57
G	44	55	61	74	89	106.5	119
H	18	22	24	32	41	96	96
J	9	10	13	14	16	36	36
K ※1	12	12	12	12	14	19	19
L	–	–	–	172	170.5	215	250
N	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc3/8	Rc3/8
P	M5×0.8×40	M6×1×50	M8×1.25×55	M10×1.5×70	M12×1.75×85	M16×2×130	M16×2×130
Q	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/4	Rc3/8	Rc3/8
R ※2	6	6	6	6	10	10	10
S	48	48	48	48	48	48	48
T	227	251.5	280.5	320.5	349.5	409.5	449.5
U	58	68	72.5	82.5	96	111.5	124
V	24	24	25	–	–	–	–
W	27.6	30.6	33.6	33.6	37.6	40.6	40.6
X	11	19	23.5	33.5	47	62.5	75
min. h	25 ~ 30	30 ~ 40	40 ~ 50	40 ~ 50	45 ~ 55	50 ~ 60	60 ~ 70
max. h	45 ~ 50	50 ~ 60	60 ~ 70	70 ~ 80	70 ~ 80	75 ~ 85	75 ~ 85

Notes :

※1. "A" and "K" dimensions are different when exceeding the stroke value written in the list. Please contact us for detail.

※2. For **N** : NPT port, "R" dimension (tube diameter) of the speed controller is in inches.

1. If you would like to change the ratio of clamp stroke and extra stroke, please contact us.
2. When making an order, please specify a, b, c, d dimension of T-slot and h dimensions of mold clamping thickness.
3. Please set the dimensions of a, b, c, d and h in 0.1mm increments and if h dimension has variations, please specify the variations.
4. Please adjust the moving speed of the clamp with speed controller to fully stroke within 1 to 2 seconds.
5. Do not set the mold confirmation limit switch to the mold surface near the U-slot.
6. When determining slide stroke, provide the forward end with an extra stroke between 2 and 5 mm considering dimensional accuracy of the air cylinder and detection distance of the limit switch.
7. Clamp sliding surface should be smooth.
8. Please refer to GKC clamp pages for unlisted dimensions.

Slide Stroke

Model No.	Slide Stroke (mm)								
	25	50	75	100	125	150	200	250	300
GKF0400	○	○	○	○	○	○	○		
GKF0630		○	○	○	○	○	○		
GKF1000		○	○	○	○	○	○		
GKF1600		○	○	○	○	○	○	○	○
GKF2500		○	○	○	○	○	○	○	○
GKF4000		○	○	○	○	○	○	○	○
GKF5000		○	○	○	○	○	○	○	○

Note :

1. "A" and "K" dimensions are different when exceeding the stroke value written in the list. Please contact us for detail.

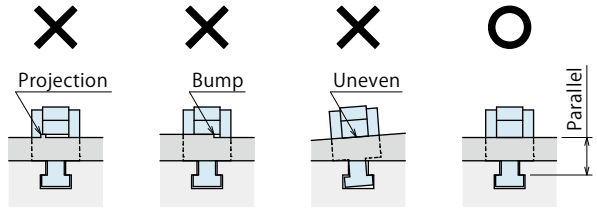
Cautions

Notes for Design

1) Check Specifications
- Please use each product according to its specifications.
- Operating hydraulic pressure is 25 MPa.
  Do not use clamps with excessive operating pressure.
  Falling down of the mold due to the damage on clamps leads to injury accident. In order to reduce clamping force, use them with lower operating pressure.

2) Check the thickness of the mold clamping part.
- Please check the thickness of the mold clamping part.
  If using molds other than specified, clamps cannot conduct locking action properly leading to injury accident.

3) The mold clamping surface and T-slot must be parallel to mounting surface of the mold.
- If a clamping surface is not even or parallel, excessive force will be applied to the clamp and it will deform the main body and the lever of the clamp resulting in falling off of the clamp and injury accident.

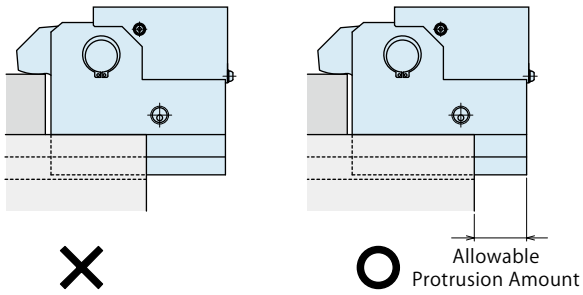


4) Make sure that advance/retraction of the clamp is smoothly conducted. (model GKE / GKF)
- Please control air cylinder for slide with 2-position double solenoid (with detent).
- Supply more than 0.4MPa air pressure to air cylinder.
- Please adjust the moving speed of the clamp with speed controller to fully stroke within 1 to 2 seconds.
- Do not set the limit switch to the mold surface near the U-slot, because it is used as forward-end detection.
- The clamp sliding surface must be smooth (without any bumps).

5) Make sure that dust, sand, cutting chips or blank pieces do not enter the clamp.
- Clamp does not operate smoothly and may be damaged.

6) When the clamp cylinder sticks out of U-slot or T-slot, please use it within the allowable protrusion amount.

Model GKB / GKC / GKE / GKF



Allowable Protrusion Amount

Model No.	Allowable Protrusion Amount (mm)
GKB0100 / GKC0100	17.5
GKB0160 / GKC0160	21
GKB0250 / GKC0250	25
GKB0400 / GKC0400 / GKE0400 / GKF0400	32
GKB0630 / GKC0630 / GKE0630 / GKF0630	39
GKB1000 / GKC1000 / GKE1000 / GKF1000	45
GKB1600 / GKC1600 / GKE1600 / GKF1600	57
GKB2500 / GKC2500 / GKE2500 / GKF2500	69.5
GKB4000 / GKC4000 / GKE4000 / GKF4000	0
GKB5000 / GKC5000 / GKE5000 / GKF5000	0

Installation Notes

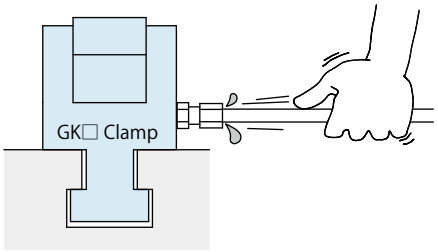
1) Check the fluid to use.
- Use the appropriate fluid by referring to the Hydraulic Fluid List.
- If using hydraulic oil having viscosity higher than viscosity grade ISO-VG-32, action time will be longer.
- If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.

2) Preparation before piping
- The pipeline, piping connector and fixture circuits should be cleaned by thorough flushing. The dust and cutting chips in the circuit may lead to fluid leakage and malfunction. (The filter which removes contaminant in the hydraulic piping or hydraulic system is not provided.)

3) Applying Sealing Tape
- Wrap with tape 1 to 2 times following the screwing direction. When piping, be careful that contaminants such as sealing tape do not enter in products. Pieces of the sealing tape can lead to air leaks and malfunction.

4) Air Bleeding of the Hydraulic Circuit
- If the hydraulic circuit has excessive air, the action time may become very long. If air enters the circuit after connecting the hydraulic port or under the condition of no air in the oil tank, please perform the following steps.

① Reduce hydraulic supply pressure to less than 2MPa.
② Loosen the cap nut of pipe fitting closest to the clamp by one full turn.
③ Shake the pipeline to loosen the outlet of pipe fitting. Hydraulic fluid mixed with air comes out.



④ Tighten the cap nut after air bleeding.
⑤ It is more effective to release air at the highest point inside the circuit or at the end of the circuit.

5) Checking Looseness and Retightening
- At the beginning of the machine installation, the bolt/nut may be tightened lightly. Check torque and re-tighten as required.

6) Installation of the Clamp
- After setting the clamp in the T-slot, use attached hex. socket bolts and tighten them with the torque shown below (model GKE/GKF).

Model No.	Thread Size	Tightening Torque (N·m)
GKE0400 / GKF0400	M5×0.8	6.3
GKE0630 / GKF0630	M6×1	10
GKE1000 / GKF1000	M8×1.25	25
GKE1600 / GKF1600	M10×1.5	50
GKE2500 / GKF2500	M12×1.75	80
GKE4000 / GKF4000	M16×2	200
GKE5000 / GKF5000	M16×2	200

7) Wiring of the Forward-End Confirmation Switch
- Make sure there is enough slack in the wire so that the clamp can complete the sliding action without putting tension on the wire.

Hydraulic Fluid List

- Please use appropriate fluid referring to the fluid lists below.
- Select the same fluid as Fluid Code of hydraulic clamp and unit.

General Hydraulic Oil

ISO Viscosity Grade ISO-VG-32

Maker	Anti-Wear Hydraulic Oil	Multi-Purpose Hydraulic Oil
Showa Shell Sekiyu	Tellus S2 M 32	Morlina S2 B 32
Idemitsu Kosan	Daphne Hydraulic Fluid 32	Daphne Super Multi Oil 32
JX Nippon Oil & Energy	Super Hyrando 32	Super Mulpus DX 32
Cosmo Oil	Cosmo Hydro AW32	Cosmo New Mighty Super 32
ExxonMobil	Mobil DTE 24	Mobil DTE 24 Light
Matsumura Oil	Hydol AW-32	–
Castrol	Hyspin AWS 32	–

Water・Glycol

ISO Viscosity Grade ISO-VG-32

Maker	Water・Glycol
JX Nippon Oil & Energy	Hyrando FRZ32
Cosmo Oil	Cosmo Fluid HQ46
Matsumura Oil	Hydol HAW32

Silicon Oil

ISO Viscosity Grade ISO-VG-68

Maker	Silicon Oil
Shin-Etsu Chemical	KF-50-100cs

Fatty Acid Ester

Maker	Fatty Acid Ester	ISO Viscosity Grade
Showa Shell Sekiyu	Shell Irus Fluids DU56	(ISO-VG-56)
Idemitsu Kosan	Firgist ES	ISO-VG-68
JX Nippon Oil & Energy	Hyrando SS56	(ISO-VG-56)
Cosmo Oil	Cosmo Fluid E46	ISO-VG-46
Nippon Quaker Chemical	Quintolubric 888 46	ISO-VG-46

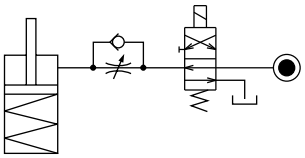
Note : Please contact manufacturers when customers require products in the list above.

Notes on Hydraulic Cylinder Speed Control Unit

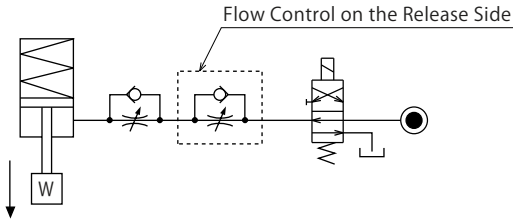
Please pay attention to the cautions below. Design the hydraulic circuit for controlling the action speed of hydraulic cylinder. Improper circuit design may lead to malfunctions and damages. Please review the circuit design in advance.

Flow Control Circuit for Single Acting Cylinder

For spring return single acting cylinders, restricting flow during release can extremely slow down or disrupt release action. The preferred method is to control the flow during the lock action only using a flow control valve with a check valve.
It is also preferred to provide a flow control valve at each actuator.



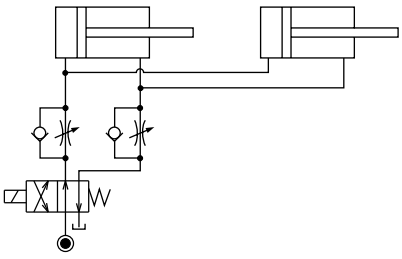
If a load is applied in the direction of release action during release, which may damage the cylinder, use a flow control valve with a check valve to control the flow rate on the release side as well.



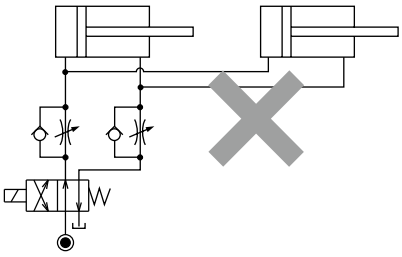
Flow Control Circuit for Double Acting Cylinder

Flow control circuit for double acting cylinder should have meter-out circuits for both the lock and release sides. Meter-in control can have adverse effect by presence of air in the system.

【Meter-out Circuit】

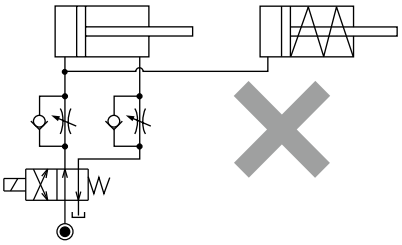


【Meter-in Circuit】



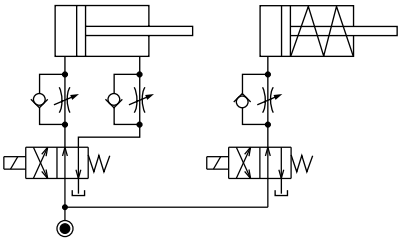
In the case of meter-out circuit, the hydraulic circuit should be designed with the following points.

① Single acting components should not be used in the same flow control circuit as the double acting components.
The release action of the single acting cylinders may become erratic or very slow.

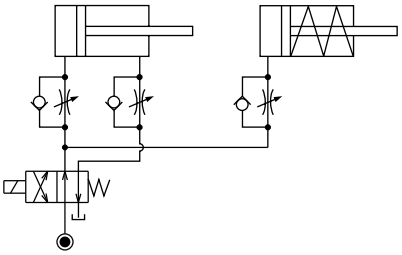


Refer to the following circuit when both the single acting cylinder and double acting cylinder are used together.

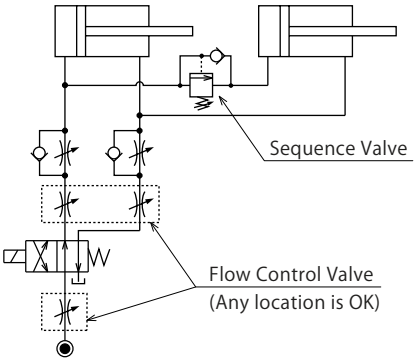
○ Separate the control circuit.



○ Reduce the influence of double acting cylinder control unit. However, due to the back pressure in tank line, single acting cylinder is activated after double acting cylinder works.



② In the case of meter-out circuit, the inner circuit pressure may increase during the cylinder action because of the fluid supply. The increase of the inner circuit pressure can be prevented by reducing the supplied fluid beforehand via the flow control valve. Especially when using sequence valve or pressure switches for clamping detection. If the back pressure is more than the set pressure then the system will not work as it is designed to.

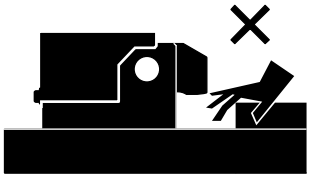


Notes on Handling

1) When stopping a machine, make sure no load is applied on clamps. Otherwise, a mold may fall causing an injury accident.
2) It should be operated by qualified personnel.
- The hydraulic machine should be operated and maintained by qualified personnel.

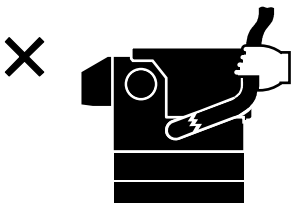
3) Do not operate or remove the machine unless the safety protocols are ensured.
① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
② Before the product is removed, make sure that the above-mentioned safety devices are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic circuit.
③ After stopping the product, do not remove until the temperature cools down.
④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.

4) Do not touch clamps while they are working.
- Otherwise, your hands may be injured.



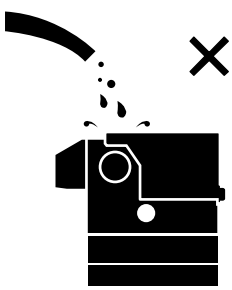
5) If there is a change for mold width, make sure to check the allowable protrusion amount.
- If exceeding the allowable protrusion amount, excessive force is applied on clamps leading to deformation or dislocation which cause falling of a mold or an injury accident. Please refer to "Notes for Design 6" for allowable protrusion amount.

6) Please hold the main body of the clamp when moving or removing it.
- If pulling on hydraulic hose or air tube, the clamp will fall off leading to injury accident. Also, rivet part of the hose will be loosened leading to fluid leakage.



7) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

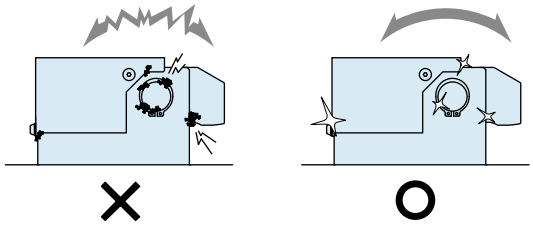
8) Do not pour water / oil over the product.
- It may lead to malfunction or deterioration of the product and cause an accident.



Maintenance and Inspection

1) Removal of the Product and Shut-off of Pressure Source
- Before removing the product, make sure that safety devices and preventive devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- Make sure there is no trouble/issue in the bolts and respective parts before restarting.

2) Regularly clean the area around the product.
- If it is used when the surface is contaminated with dirt, it may lead to malfunctioning and fluid leakage.



3) If disconnecting by couplers, air bleeding should be carried out on a regular basis to avoid air mixed in the circuit.
4) Regularly tighten pipe line, mounting bolts, nuts, circlips and cylinders to ensure proper use.
5) Make sure the hydraulic fluid has not deteriorated.
6) Make sure there is a smooth action without an irregular noise.
- Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.

7) The products should be stored in the cool and dark place without direct sunshine or moisture.
8) Please contact us for overhaul and repair.

Warranty

1) Warranty Period
- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.

2) Warranty Scope
- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense.
Defects or failures caused by the following are not covered.

① If the stipulated maintenance and inspection are not carried out.
② Failure caused by the use of the non-confirming state at the user's discretion.
③ If it is used or operated in an inappropriate way by the operator. (Including damage caused by the misconduct of the third party.)
④ If the defect is caused by reasons other than our responsibility.
⑤ If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
⑥ Other caused by natural disasters or calamities not attributable to our company.
⑦ Parts or replacement expenses due to parts consumption and deterioration.
(Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

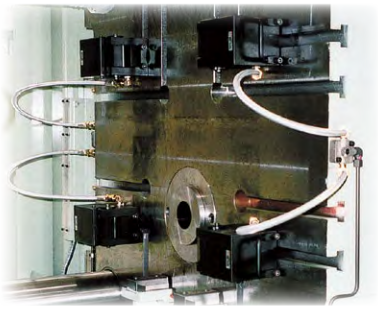
KOSMEK LTD. Head Office

Company Name	KOSMEK LTD.
Established	May 1986
Capital	¥99,000,000
Chairman & CEO	Tsutomu Shirakawa
President & CEO	Koji Kimura
Employee Count	270
Group Company	KOSMEK LTD.
	KOSMEK ENGINEERING LTD.
	KOSMEK (USA) LTD.
	KOSMEK EUROPE GmbH
	KOSMEK (CHINA) LTD.
	KOSMEK LTD. - INDIA
Business Fields	Design, Production and Sales of Precision Products, and Hydraulic and Pneumatic Equipment
Customers	Manufacturers of Automobiles, Industrial Machinery, Semiconductors and Electric Appliances
Banks	Resona Bank and Bank of Tokyo-Mitsubishi UFJ

Major Industrial Property Rights
(Including Patent Right and Patent Pending as of March 2022)

- Domestic ：120
- International ：250 (USA, EU, Taiwan, South Korea, China, India, Brazil, Mexico, Thailand, Indonesia)

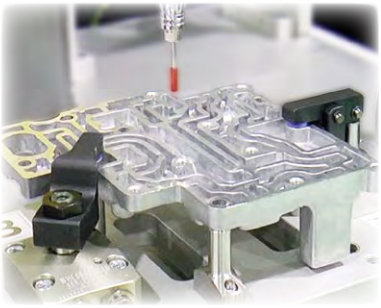
Product Line-Up



DIECAST CLAMPING SYSTEMS

For Diecast Machines

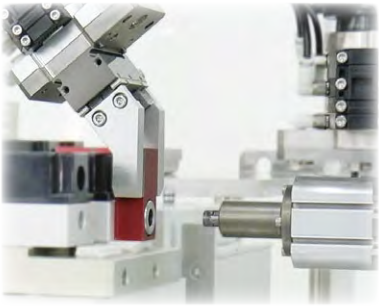
Kosmek Diecast Clamping Systems (KDCS) save the time of the changeover of die casting and magnesium molding machines under severe conditions. ex) mold release agents and high temperature.



KOSMEK WORK CLAMPING SYSTEMS

Machine Tool Related Products

Our clamping system enables boltless automation to load and unload workpieces easier.
Non-leak valve enables the use of hydraulic source and fixtures in a disconnected condition after locking (clamping action).
We offer a wide range of products such as hydraulic/pneumatic actuators, supports, positioning equipment, valves, couplers, etc.



KOSMEK FACTORY AUTOMATION SYSTEMS

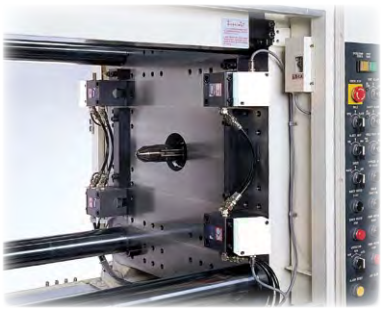
FA・Industrial Robot Related Products

KOSMEK robotic hand changer, robotic hand, positioning equipment and other products improve automation, precision and setup of transfer, assembly, deburring, testing and various other processes.

QUICK DIE CHANGE SYSTEMS

For Press Machines

Kosmek Quick Die Change Systems are a cost effective tool to improve the working environment, allow diversified and small-lot production, and reduce press down time.
Available for a wide range of machines; from large size transfer-presses to smaller high speed presses.



QUICK MOLD CHANGE SYSTEMS

For Injection Molding Machines

Automatic clamping systems have reduced mold change times and increased production efficiency for plastics manufacturers in a multitude of industries.
We offer a variety of different clamping options, including hydraulically powered clamps, pneumatic clamps with a force multiplying mechanism, and magnetic clamping systems.

Sales Offices

Sales Offices across the World

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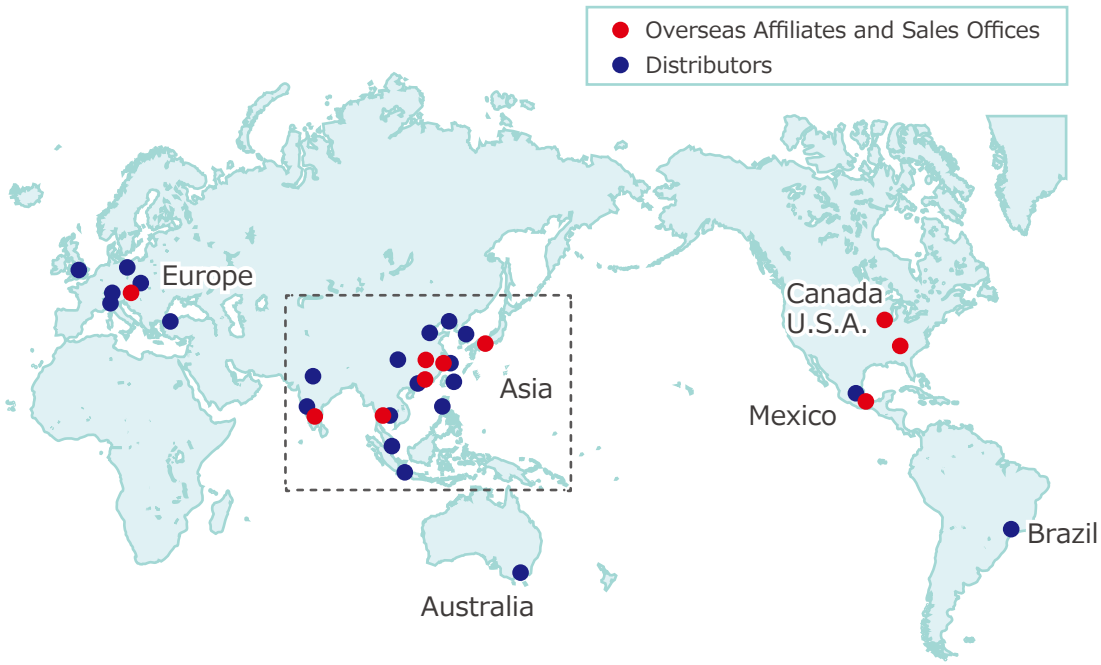
	KOSMEK (USA) LTD. Atlanta Branch Office	**TEL. +1-630-620-7650** 303 Perimeter Center North, Suite 300, Atlanta, GA 30346 USA
Mexico	KOSMEK (USA) LTD. Mexico Branch Office	**TEL. +52-442-851-1377** Av. Santa Fe 103, Int. 59, col. Santa Fe Juriquilla, Queretaro, QRO, 76230, Mexico
Europe	KOSMEK EUROPE GmbH Overseas Affiliate	**TEL. +43-463-287587** FAX. +43-463-287587-20 Schleppeplatz 2 9020 Klagenfurt am Wörthersee Austria
China	KOSMEK (CHINA) LTD. Overseas Affiliate	**TEL.+86-21-54253000** FAX. +86-21-54253709 Room601, RIVERSIDE PYRAMID No.55, Lane21, Pusan Rd, Pudong Shanghai China
	KOSMEK (CHINA) LTD. Dongguan Office Overseas Affiliate (Sales Office)	**TEL.+86-769-85300880** Room301,AcerBuilding No.15,Dezheng(W)Road,Changan Town Dongguan Guangdong 523843.,P.R.China
	KOSMEK (CHINA) LTD. Wuhan Office Overseas Affiliate (Sales Office)	**TEL.+86-27-59822303** A-502 Jingkai Future City,Zhuankou Economic Development Zone Wuhan Huibei
India	KOSMEK LTD. - INDIA Branch	**TEL. +91-9880561695** 4A/Old No:649, Ground Floor, 4th D cross, MM Layout, Kavalbyrasandra, RT Nagar, Bangalore -560032 India
Thailand	KOSMEK Thailand Representative Office Representative Office	**TEL. +66-2-300-5132** FAX. +66-2-300-5133 67 Soi 58, RAMA 9 Rd., Phatthanakan, Suanluang, Bangkok 10250, Thailand
Taiwan	FULL LIFE TRADING CO., LTD. Taiwan Exclusive Distributor	**TEL. +886-2-82261860** FAX. +886-2-82261890 16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511
Philippines	G.E.T. Inc, Phil. Philippines Exclusive Distributor	**TEL.+63-2-310-7286** FAX. +63-2-310-7286 Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427
Indonesia	PT. Yamata Machinery Indonesia Exclusive Distributor	**TEL. +62-21-29628607** FAX. +62-21-29628608 Delta Commercial Park I, Jl. Kenari Raya B-08, Desa Jayamukti Kec. Cikarang Pusat Kab. Bekasi 17530 Indonesia

Sales Offices in Japan

Head Office Osaka Sales Office Overseas Sales	**TEL. 078-991-5162** FAX. 078-991-8787 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, 651-2241, Japan
Tokyo Sales Office	**TEL. 048-652-8839** FAX. 048-652-8828 81, 4-chome, Onari-cho, Kita-ku, Saitama City, Saitama, 331-0815, Japan
Nagoya Sales Office	**TEL. 0566-74-8778** FAX. 0566-74-8808 10-1, 2-chome, Misono-cho, Anjo City, Aichi, 446-0076, Japan
Fukuoka Sales Office	**TEL. 092-433-0424** FAX. 092-433-0426 8-10-101, 1-chome, Kamimuta, Hakata-ku, Fukuoka City, Fukuoka, 812-0006, Japan

Global Network



Asia Detailed Map

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