

Hydraulic Lever Clamp

Block-Fixed

Model **GBP**

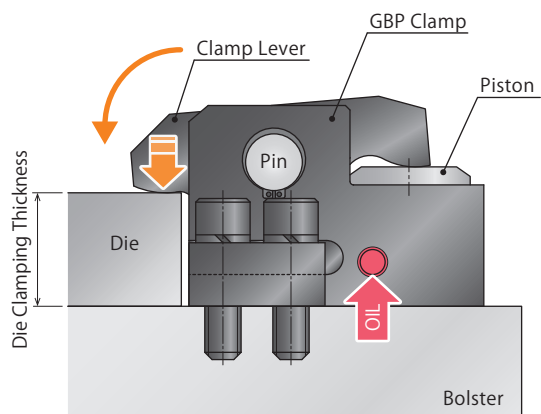
(Conventional Model **GP**)



Block-Fixed Type Lever Clamp. No T-slot is required.

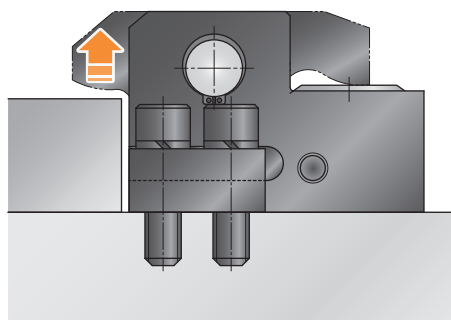
Fixed with bolts and easy to install on a press without T-slots.

● Action Description



Locked State

When hydraulic pressure is supplied, the piston lifts up, and the clamp lever pivots on the pin and locks the die.



Released State

When hydraulic pressure is released, the piston descends with built-in spring force, and the clamp lever returns to the released state with the lever return spring.

※ We provide GBP clamp according to the die clamping thickness. Please refer to the external dimensions for detail.

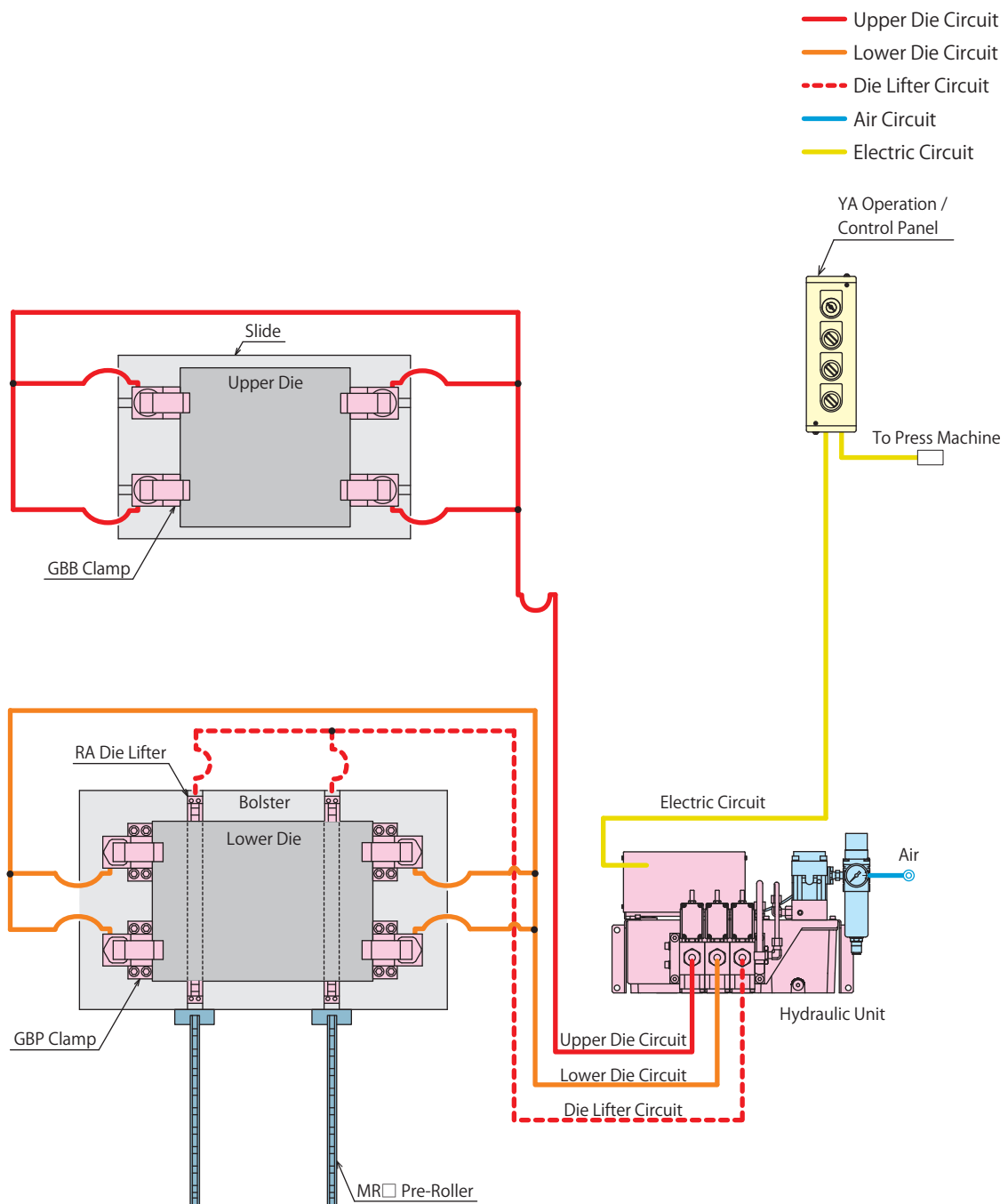
System Structure Example

The basic structure with GBP clamps which do not require T-slot by fixing with bolts. This system is able to control the upper die circuit, lower die circuit, and RA die lifter circuit individually by using a three-circuit hydraulic unit.

Upper Clamp	: GBB Clamp
Lower Clamp	: GBP Clamp
Loading / Unloading the Die	: MR□ Pre-Roller + RA Die Lifter
Hydraulic Source	: CP□ Unit / CQ□ Unit

We are able to provide different models of clamp for the upper die and lower die.

Please contact us for further information.



Model No. Indication

GBP **040** **0** - **30** - **H**

1 2 3 4

1 Clamping Force

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

2 Design No.

0 : Revision Number

3 Die Clamping Thickness

30 : Die Clamping Thickness h=30mm
50 : Die Clamping Thickness h=50mm

4 Option ※ Please contact us for specifications / external dimensions.

Blank : Standard
G : Gasket Mounting
H : Extra Height Body (When h dimension is more than max. h dimension shown in the external dimension.)
J : Low Lever (When h dimension is less than min. h dimension shown in the external dimension.)
K : Rear Port
L □ : Wide Lever (For U-Cut of Die) ※ ¹
M □ : For Die with Notch
N : NPT Port ※ ²
U : With Grease Nipple
V : High Temperature (0~120°C)
X : With Cover

Notes:

- ※1. Please indicate the U-cut dimension of the die.
- ※2. Dimensions in the specification sheet and other documents are in inches.
Only die clamping thickness is indicated by the symbol which is converted into millimeters.
- 1. Please contact us for specifications and external dimensions for these options.
- 2. Allowable range of die clamping thickness differs depending on the clamping force.

● Specifications

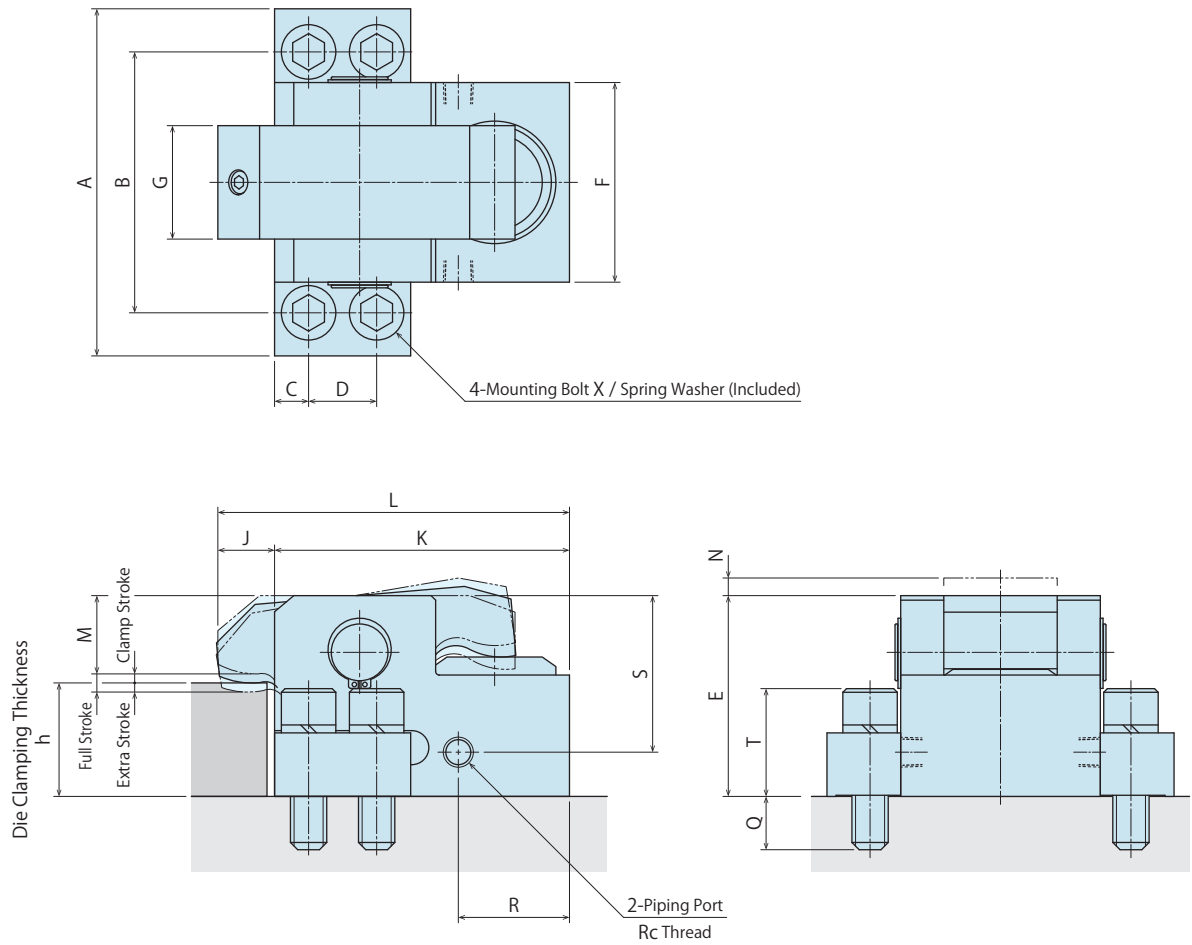
Model No.		GBP0100	GBP0160	GBP0250	GBP0400	GBP0630	GBP1000	GBP1600	GBP2500
Clamping Force	kN	10	16	25	40	63	100	160	250
Working Pressure	MPa	25 (For Rated Clamp Force)							
Withstanding Pressure	MPa	37							
Full Stroke	mm	6	7	7	7	8	8	8	8
Clamp Stroke	mm	3	3.5	3.5	3.5	4	4	4	4
Extra Stroke	mm	3	3.5	3.5	3.5	4	4	4	4
Cylinder Capacity (At Full Stroke)	cm ³	2.5	4.6	7.2	11.5	20.6	33.6	53.8	83.8
Operating Temperature ※3	°C	0~70 (High temperature option is available for 0~120°C)							
Use Frequency ※4		Less than 20 Cycles / Day ※							
Pressurizing Agent ※5 ※6 ※7		General Hydraulic Oil Equivalent to ISO-VG-32							

Notes:

- ※3. Option V: High Temperature (0~120°C) is for operating in temperatures of 70°C or more.
- ※4. Please contact us for more frequent use.
- ※5. Please contact us for fluids other than those mentioned on the list.
- ※6. If hydraulic viscosity is higher than specified, action time will be longer.
- ※7. If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.

External Dimensions

※ This drawing shows GBP0100 ~ GBP2500 standard model.
Contact us for external dimensions for options.



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

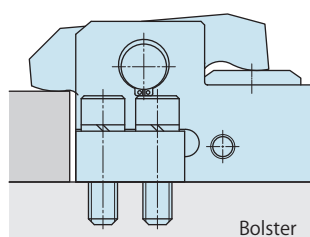
(mm)

Model No.	GBP0100	GBP0160	GBP0250	GBP0400	GBP0630	GBP1000	GBP1600	GBP2500
Full Stroke	6	7	7	7	8	8	8	8
Clamp Stroke	3	3.5	3.5	3.5	4	4	4	4
Extra Stroke	3	3.5	3.5	3.5	4	4	4	4
A	72	90	106	123	153	180	219	270
B	53	66	78	92	115	129	155	199
C	8.5	10	12	13	15	18	22	30
D	15	18	20	26	30	36	46	50
min. E	47.5	54	63	71	86	110.5	132.5	149.5
F	38	48	58	68	88	97	117	144
G	20	26	32	38	50	53	60	73
J	15	17	19	22	25	30	30	30
K	58	70	84	105.5	130	159	199	240
L	73	87	103	127.5	155	189	229	270
M(h)	16.5 (25)	27.5 (25)	31.5 (30)	39.5 (30)	49.5 (35)	64 (45)	81 (50)	98 (50)
	16.5 (30)	22.5 (30)	26.5 (35)	34.5 (35)	44.5 (40)	59 (50)	76 (55)	93 (55)
	16.5 (35)	17.5 (35)	21.5 (40)	29.5 (40)	39.5 (45)	54 (55)	71 (60)	88 (60)
	16.5 (40)	17.5 (40)	21.5 (45)	29.5 (45)	34.5 (50)	49 (60)	66 (65)	83 (65)
	-	-	21.5 (50)	29.5 (50)	29.5 (55)	44 (65)	61 (70)	78 (70)
	-	-	-	-	29.5 (60)	44 (70)	61 (75)	78 (75)
	-	-	-	-	-	-	61 (80)	78 (80)
	-	-	-	-	-	-	-	78 (85)
-	-	-	-	-	-	-	78 (90)	
max. N	5.5	6.5	6.5	6.5	8	8	9	9.5
Q	12	14.5	20.5	23	23.5	29.5	33	43
R	7	9	10	12	49	68	73	69.5
S	38.5	45	51	54	69	93.5	108.5	127.5
T	26	30.5	36.5	41	47.5	60.5	71	87
X (Designated Maker)	M8 x 1.25 x 30	M10 x 1.5 x 35	M12 x 1.75 x 45	M14 x 2 x 50 (Unbrako)	M16 x 2 x 55 (Unbrako)	M20 x 2.5 x 70 (Unbrako)	M24 x 3 x 80 (Unbrako)	M30 x 3.5 x 100 (Unbrako)
Rc	Rc1/8	Rc1/8	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4
min. h	25	25	30	30	35	45	50	50
max. h	40	40	50	50	60	70	80	90

Notes:

1. If you would like to change the ratio of clamp stroke and extra stroke, please contact us.
2. Clamp mounting surface should be smooth without any bumps. If the clamp mounting surface has bumps or is not smooth, excessive stress will be applied on the clamp lever leading to release error or deformation of the lever and lever pin.

GBP Clamp The Allowable Protrusion Amount



The guide block should be within the platen.

Note:

1. The guide block of GBP clamp should be within the platen when mounting.

Sales Offices

Sales Offices across the World

Japan	TEL. +81-78-991-5162	FAX. +81-78-991-8787
Overseas Sales	KOSMEK LTD. 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241 〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
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