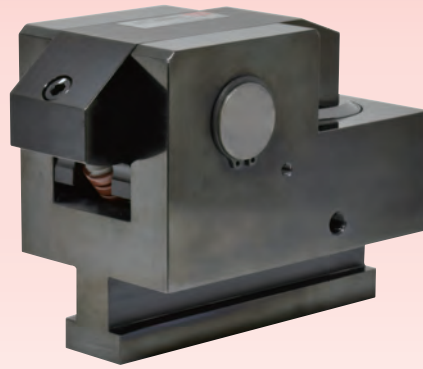


Hydraulic Lever Clamp

Longer Stroke / T-Slot Manual-Slide

Model GBC

New Model



Longer stroke allows for variation in die clamping thicknesses.

Single-acting clamp function simplifies circuit structure.

We offer a wide range of options to meet your needs.

● Advantage

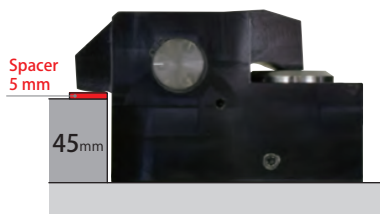
Standard Clamp

Requires a spacer at the die clamping site in order to standardize the thickness.

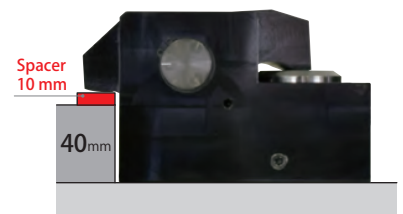
Clamping Thickness : 50mm



Clamping Thickness : 45mm



Clamping Thickness : 40mm



GBC Clamp

Is able to clamp dies with a thickness variance up to 10 mm. There is no need to install spacers and no accidents caused by incorrect spacer thickness.

Clamping Thickness : 50mm



Clamping Thickness : 45mm



Clamping Thickness : 40mm



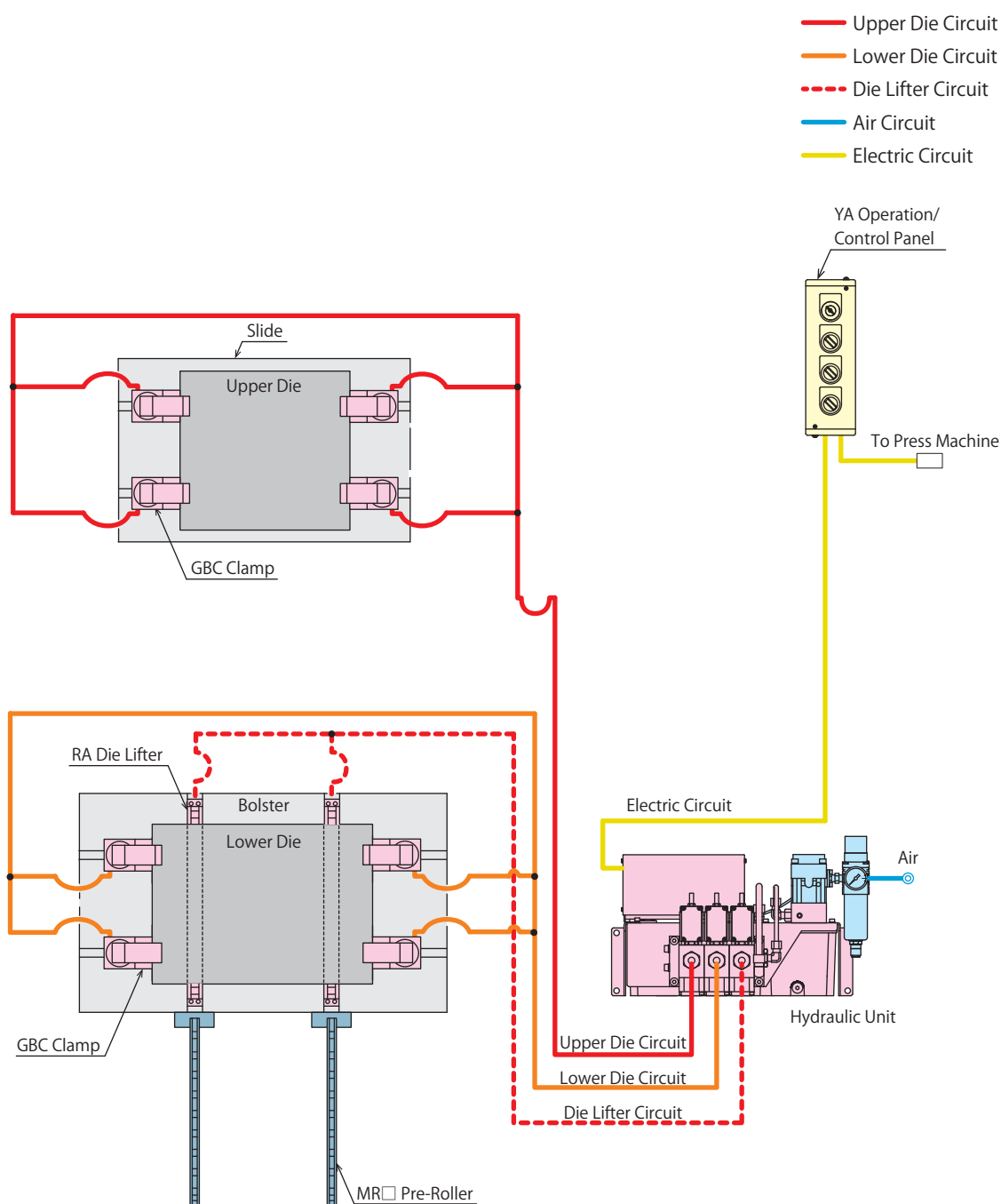
- Notes:
1. We provide GBC clamp according to the die clamping thickness and T-slot dimension. Please refer to the external dimensions for detail.
 2. Die clamping thickness varies depending on the clamp size.

System Structure Example

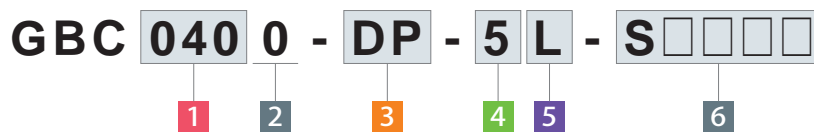
The basic structure with GBC clamps that slide manually in the T-slot. This system is able to control the upper die circuit, lower die circuit, and RA die lifter circuit individually by using a three-circuit hydraulic unit.

Upper Clamp	: GBC Clamp
Lower Clamp	: GBC 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



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 | 400 : Clamping Force= 400kN |
| 063 : Clamping Force= 63kN | 500 : Clamping Force= 500kN |

2 Design No.

0 : Revision Number

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

- Blank : Standard
- A : Slide Rod (For U-Cut)
- B : Slide Rod (For Tap)
- D : With Handle (GBC0630 or larger)
- E : Reinforced Body
- 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
- N : NPT Port ※²
- P : With Die Confirmation Proximity Switch
- R : Longer D Dimension of T-Leg
- T : T-Slot Locking
- U : With Grease Nipple (Standard Option for GBC4000/GBC5000)
- V : High Temperature (0~120°C)
- W : With Check Valve (GBC1000 or larger)
- 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.

4 Switch Load Voltage (Current)

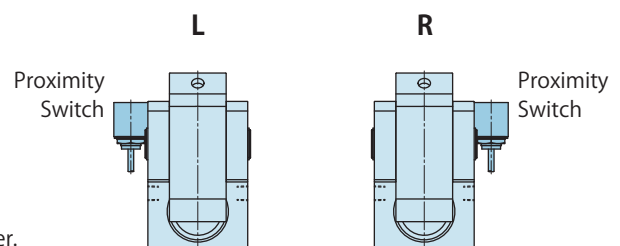
- 1 : AC100V
- 2 : AC200V
- 5 : DC24V (5~40mA)

5 Switch Mounting Position

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

6 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.

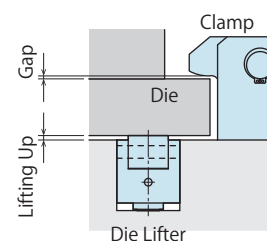


Specifications

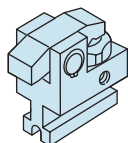
Model No.		GBC0100	GBC0160	GBC0250	GBC0400	GBC0630	GBC1000	GBC1600	GBC2500	GBC4000	GBC5000
Clamping Force	kN	10	16	25	40	63	100	160	250	400	500
Working Pressure	MPa	25 (For Rated Clamp Force)									
Withstanding Pressure	MPa	37									
Full Stroke	mm	8	9	10	12	15	15.5	16	16	16	16.5
Clamp Stroke	mm	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
Cylinder Capacity (At Full Stroke)	cm ³	4	6	10	19	38	63	105	160	253	331
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									
Min. T-Slot Width a (JIS) ^{※8} mm		10	12	14	18	22	24	28	36	36	36 (2 T-Legs)
Max. T-Slot Width a (JIS) ^{※8} mm		20	24	32	42	42	54	54	54	54	42 (2 T-Legs)

Notes:

- ※3. For using GBC Clamp with Die Lifter, make sure there is a gap between the die and clamp when Die Lifter lifts up.
- ※4. Option V: High Temperature (0~120°C) is for operating in temperatures of 70°C or more.
- ※5. Please contact us for more frequent use.
- ※6. Please contact us for fluids other than those mentioned on the list.
- ※7. If hydraulic viscosity is higher than specified, action time will be longer.
- ※8. If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
- ※9. 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.

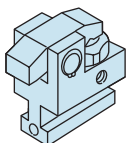


Option



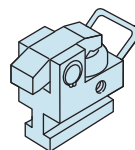
Slide Rod (For U-Cut)
Put a stick into the U-cut to move the backside clamp (B: for tap).

Model **GBC-A**



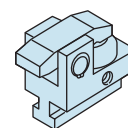
Slide Rod (For Tap)
Move the clamp by a stick mounted in the thread part.

Model **GBC-B**



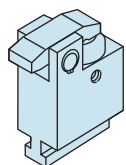
With Handle (GBC0630 or larger)

Model **GBC-D**



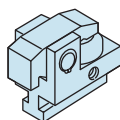
Reinforced Body

Model **GBC-E**



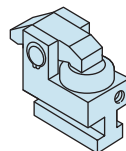
Extra Height Body

Model **GBC-H**



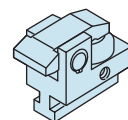
Low Lever

Model **GBC-J**



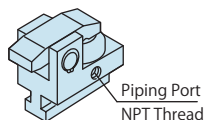
Rear Port

Model **GBC-K**



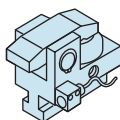
Wide Lever (For U-Cut of Die)

Model **GBC-L** □



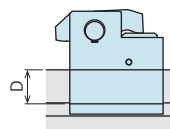
NPT Port

Model **GBC-N**



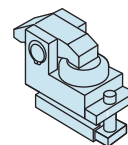
With Die Confirmation Proximity Switch

Model **GBC-P**



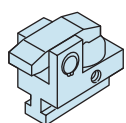
Longer D-Dimension of T-Leg

Model **GBC-R**



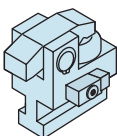
T-Slot Locking

Model **GBC-T**



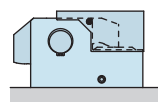
High Temperature 0 ~ 120 °C

Model **GBC-V**



With Check Valve (GBC1000 or larger)

Model **GBC-W**



With Cover

Model **GBC-X**

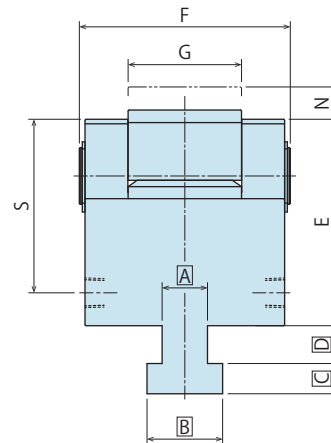
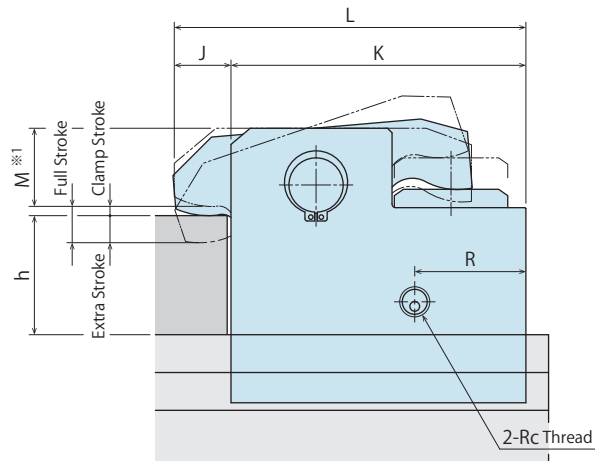
With Grease Nipple

Model **GBC-U**

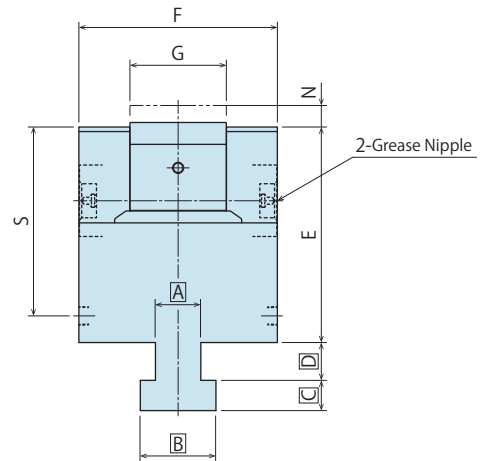
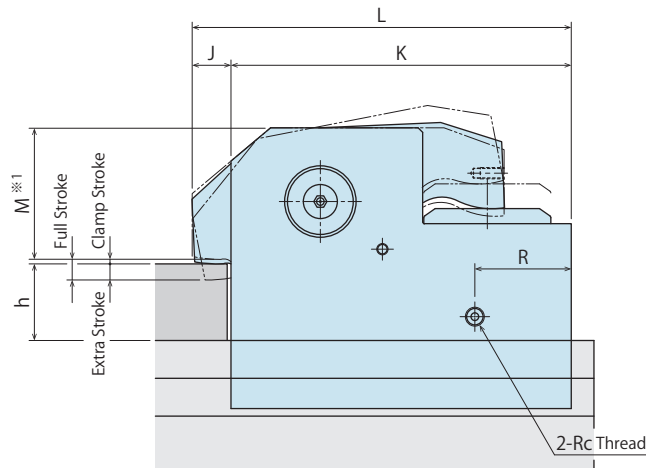
Note: 1. Specifications/external dimensions for these options are different from standard model. Please contact us for further information.

External Dimensions

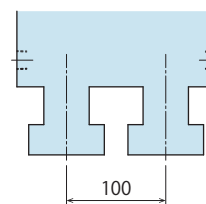
※ This drawing shows GBC0100 ~ GBC2500 standard model.
Contact us for external dimensions for options.



※ This drawing shows GBC4000 / GBC5000 standard model.
Contact us for external dimensions for options.



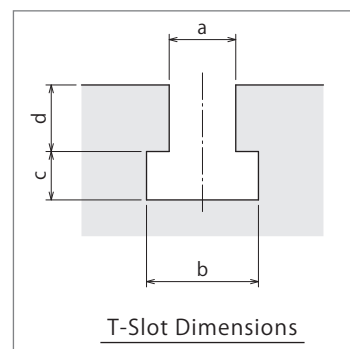
※ Only T-leg part of GBC5000 is different from GBC4000. GBC5000 has two T-legs.
Contact us for external dimensions for options.



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.

T-Slot Dimensions



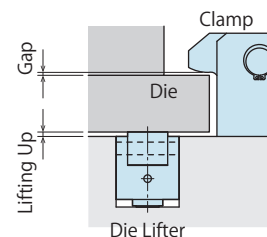
● External Dimensions

(mm)

Model No.	GBC0100	GBC0160	GBC0250	GBC0400	GBC0630	GBC1000	GBC1600	GBC2500	GBC4000	GBC5000
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
min. E	45.5	52	62	71	88.5	114	132.5	154.5	187.5	212.5
F	43	53	63	73	93	103	124	152	175	200
G	20	26	32	38	50	53	60	73	85	100
J	15	17	19	22	25	30	30	30	35	37
K	58	70	84	105.5	130	159	199	240	300	340
L	73	87	103	127.5	155	189	229	270	335	377
N	8	9	9.5	11	14.5	15	18	19	19	20
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
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

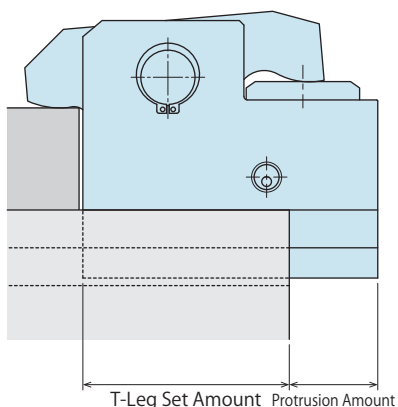
Notes:

- ※1. M dimension (Lever Thickness) in the drawing varies depending on variation in h dimension (Die Clamping Thickness). Please contact us for further information.
- ※2. For using GBC Clamp with Die Lifter, make sure there is a gap between the die and clamp when Die Lifter lifts up.
 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 indicate a, b, c, d dimension of T-slot and h dimensions of die clamping thickness (including variation).



● GBC Clamp The Allowable Protrusion Amount of Cylinder

(mm)



Model No.	Min. T-Leg Set Amount	Allowable Protrusion Amount
GBC0100	40.5	17.5
GBC0160	49.0	21.0
GBC0250	59.0	25.0
GBC0400	73.5	32.0
GBC0630	91.0	39.0
GBC1000	114.0	45.0
GBC1600	142.0	57.0
GBC2500	170.5	69.5
GBC4000	-	-
GBC5000	-	-

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	
USA	TEL. +1-630-241-3465	FAX. +1-630-241-3834
KOSMEK (USA) LTD.	1441 Branding Avenue, Suite 110, Downers Grove, IL 60515 USA	
China	TEL.+86-21-54253000	FAX.+86-21-54253709
KOSMEK (CHINA) LTD. 考世美(上海)貿易有限公司	21/F, Orient International Technology Building, No.58, Xiangchen Rd, Pudong Shanghai 200122., P.R.China 中国上海市浦东新区向城路58号东方国际科技大厦21F室 200122	
Thailand	TEL. +66-2-715-3450	FAX. +66-2-715-3453
Thailand Representative Office	67 Soi 58, RAMA 9 Rd., Suanluang, Suanluang, Bangkok 10250, Thailand	
Taiwan (Taiwan Exclusive Distributor)	TEL. +886-2-82261860	FAX. +886-2-82261890
Full Life Trading Co., Ltd. 盈生貿易有限公司	16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511 台湾新北市中和區建八路2號 16F-4 (遠東世紀廣場)	
Philippines (Philippines Exclusive Distributor)	TEL.+63-2-310-7286	FAX. +63-2-310-7286
G.E.T. Inc, Phil.	Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427	
Europe (Europe Exclusive Distributor)	TEL. +43-463-287587-10	FAX. +43-463-287587-20
KOS-MECH GmbH	Schleppeplatz 2 9020 Klagenfurt Austria	
Indonesia (Indonesia Exclusive Distributor)	TEL. +62-21-5818632	FAX. +62-21-5814857
P.T PANDU HYDRO PNEUMATICS	Ruko Green Garden Blok Z- II No.51 Rt.005 Rw.008 Kedoya Utara-Kebon Jeruk Jakarta Barat 11520 Indonesia	

Sales Offices in Japan

Head Office	TEL.078-991-5115	FAX.078-991-8787
Osaka Sales Office	〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
Overseas Sales		
Tokyo Sales Office	TEL.048-652-8839	FAX.048-652-8828
	〒331-0815 埼玉県さいたま市北区大成町4丁目81番地	
Nagoya Sales Office	TEL.0566-74-8778	FAX.0566-74-8808
	〒446-0076 愛知県安城市美園町2丁目10番地1	
Fukuoka Sales Office	TEL.092-433-0424	FAX.092-433-0426
	〒812-0006 福岡県福岡市博多区上牟田1丁目8-10-101	