

GEAR PULLERS



Gear pullers (2-claw type)
P.156 ▶



Gear pullers (auto-grip, G type)
P.158 ▶



Gear pullers (3-claw type)
P.159 ▶



Shock speed pullers
P.161 ▶



Sliding gear pullers
P.162 ▶



Bearing pullers
P.165 ▶



Bearing puller sets
P.166 ▶



Bearing insertion tool sets
P.172 ▶



Hydraulic pullers
P.173 ▶



Accessories
P.174 ▶



► Accessories

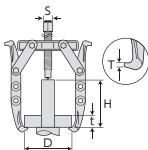


G

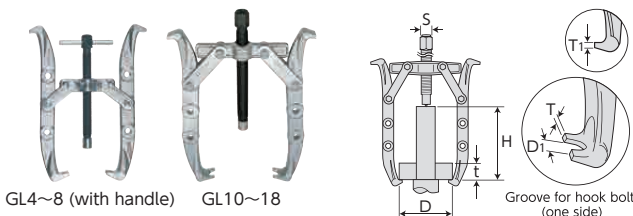
GEAR PULLER, G Type (Heavy Duty Type for Professional Use)

► Features

- The reaching range of the claws can be extended by shifting the claw holes (2 holes for G4~10, 3 holes for G12~24).
- For G4~24, the steel ball inside the adaptor significantly reduces frictional resistance.
- H indicates the claw reaching length when, with D at shortest length, the forcing screw is lifted to the highest point.



Item No.	Size (mm)						Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.		
G3	40~75	30	55	3.5	14	12	20	0.4
G4	50~100	45	100	4.1	17	14	40	0.8
G6	60~150	60	150	5.3	19	18	60	1.9
G8	80~200	100	240	6.7	22	22	80	3.8
G10	100~250	120	250	7.4	30	28	100	6
G12	120~300	125	275	8	32	32	120	9
G15	150~375	130	320	8.7	41	38	150	11
G18	180~450	140	370	9.8	46	44	180	15
G24	280~600	175	575	17.5	46	44	240	45



► Accessories



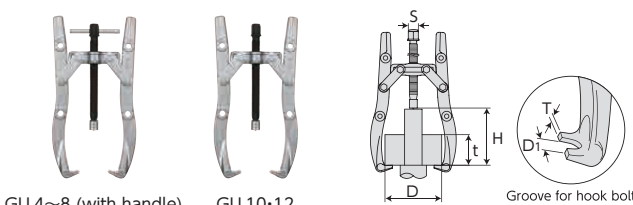
GL

GEAR PULLER, GL Type (Heavy Duty Type for Professional Use)

► Features

- With longer claws and 3 holes for all size, the reaching range of the claws can be even more extended than G type.
- One claw is designed with a groove for hook bolt (for bearing separator BS).
- The steel ball inside the adaptor significantly reduces frictional resistance.
- H indicates the claw reaching length when, with D at shortest length, the forcing screw is lifted to the highest point.

Item No.	Size (mm)							Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	D1 Bolt groove width	T Claw tip thickness	T1 Claw tip thickness	S Forcing screw hex. width across flats		
GL4	50~100	60	150	10	5.8	4.1	17	40	1
GL6	60~150	70	190	12	6.7	5.3	19	60	2.3
GL8	80~200	100	275	16	7.4	6.7	22	80	4.4
GL10	100~250	125	300	18	8	7.4	30	100	7
GL12	120~300	170	350	20	8.7	8	32	120	10
GL15	150~375	185	400	24	9.8	8.7	41	150	13
GL18	180~450	200	440	27	10.8	9.8	46	180	16



► Accessories



GLL

GEAR PULLER, GLL Type (Heavy Duty Type for Professional Use)

► Features

- With longer claws and 3 holes for all size, the reaching range of the claws can be even more extended than GL type.
- The claws are designed with a groove for hook bolt (for bearing separator BS).
- The steel ball inside the adaptor significantly reduces frictional resistance.
- H indicates the claw reaching length when, with D at shortest length, the forcing screw is lifted to the highest point.

Item No.	Size (mm)							Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	D1 Bolt groove width	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.		
GLL4	50~100	60	200	10	5.8	17	14	40	1.1
GLL6	60~150	70	250	12	6.7	19	18	60	2.4
GLL8	80~200	100	350	16	7.4	22	22	80	4.8
GLL10	100~250	125	400	18	8	30	28	100	7.5
GLL12	120~300	170	450	20	8.7	32	32	120	10.6

GJ • GA-N • GN • GZ • GSR • GLJ • GLLJ

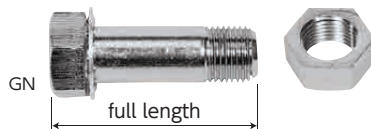
GEAR PULLER, G, GL, GLL, GT Types Parts



- The reaching range of the claws can be extended by using the 2 or 3 holes and both claws at the top and bottom. (1 hole for GJ3, 2 holes for GJ4~10, 3 holes for GJ12~24)

Claw (1 pc)

Item No.	Applicable puller	Full length (mm)
GJ3	G3	90
GJ4	G4 • (GT4) • GT100 • (G4S) • G100S • GT100S	137
GJ6	G6 • (GTW6) • GT150 • (G6S) • G150S • GT150S	222.6
GJ8	G8 • (GT8) • GT200 • (G8S) • G200S • GT200S	300
GJ10	G10 • (GT10) • GT250	340
GJ12	G12 • GT12	380
GJ15	G15 • GT15	450
GJ18	G18 • GT18	500
GJ24	G24	800

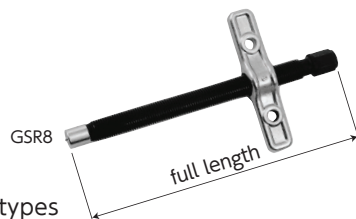


- Common for G, GL, GLL types

Bolt, nut, washer with teeth (1 set of 4 pcs)

Item No.	Full length (mm)
GN3	24
GN4	32.5
GN6	42
GN8	48

Item No.	Full length (mm)
GN10	52
GN12	57
GN15	63
GN18	63
GN24	84

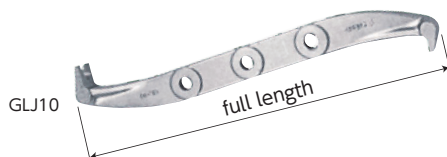


- No adaptor for GSR3
- Common for G, GL, GLL types

Forcing screw, body (with adaptor)

Item No.	Full length (mm)
GSR3	120
GSR4	149
GSR6	210
GSR8	300

Item No.	Full length (mm)
GSR10	314
GSR12	357
GSR15	427
GSR18	485
GSR24	675



- With longer claws and 3 holes for all size, the reaching range of the claws can be even more extended than GJ claws. (Other parts of GL type are common to G type)

Claw (1 pc)

Item No.	Full length (mm)
GLJ4	221.3
GLJ6	292.6
GLJ8	360

Item No.	Full length (mm)
GLJ10	430
GLJ12	500
GLJ15	550
GLJ18	600



Adaptor (with ball and stop ring)

Item No.	Applicable puller	Full length (mm)	Dia. (mm)
GA4N	G4 • GL4 • GLL4 • (GT4) • GT100 • (G4S) • G100S • GT100S • ABT90 • ABT90L • ABW200 • BS1S	19.8	16
GA6N	G6 • GL6 • GLL6 • (GTW6) • GT150 • (G6S) • G150S • GT150S • SSP5 • BPS6 • BS2S	22	18
GA8N	G8 • GL8 • GLL8 • (GT8) • GT200 • (G8S) • G200S • GT200S • SSP8	24.5	20
GA10N	G10 • GL10 • GLL10 • (GT10) • GT12 • GT250	31.5	26
GA12N	G12 • GL12 • GLL12 • SSP12	36.5	31
GA15N	G15 • GL15 • GT15	36.5	35
GA18N	G18 • GL18 • GT18	46.5	38
GA24N	G24	46.5	44

* The items in () are discontinued.



- Common for G, GL, GLL types
- The washer structure can stretch to prevent claw breakage by overload.

Washer (1 set of 4 pcs)

Item No.	Hole pitch (mm)
GZ3	36
GZ4	45
GZ6	55
GZ8	100

Item No.	Hole pitch (mm)
GZ10	110
GZ12	130
GZ15	160
GZ18	190
GZ24	240

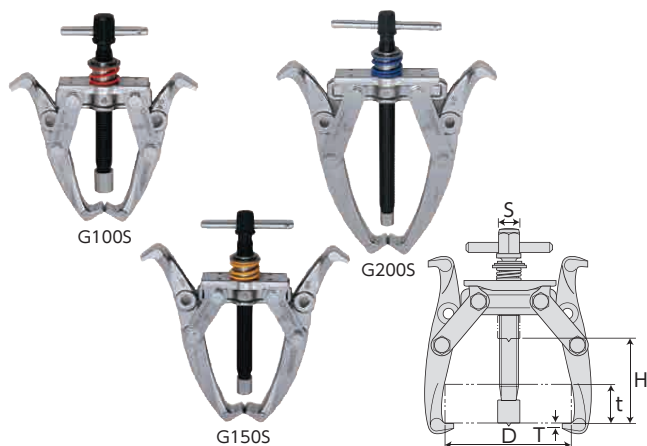


- With longer claws and 3 holes for all size, the reaching range of the claws can be even more extended than GLJ claws. (Other parts of GLL type are common to G type)

Claw (1 pc)

Item No.	Full length (mm)
GLLJ4	259.1
GLLJ6	319.6

Item No.	Full length (mm)
GLLJ8	431
GLLJ10	498.4
GLLJ12	564.8



G-S

GEAR PULLER, G Type (Auto-grip Type)

► Feature

- The claws close with the force of a spring, allowing easier setting to the object to be pulled and outstanding operability. The reaching range of the claws can be extended by setting the longer GL type claws.

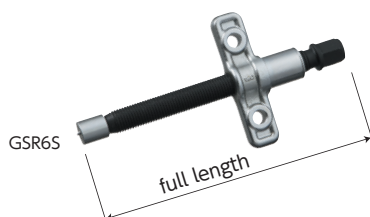
► Example of use



Item No.	Size (mm)						Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.		
G100S	50~100	45	90	4.1	17	14	40	0.85
G150S	60~150	60	145	5.3	19	18	60	1.95
G200S	80~200	100	235	6.7	22	22	80	4.3

GSR-S • GB-S • GP-S • GN-S • GZ-S • GC-S

GEAR PULLER, G Type Auto-grip Type Parts (2-claw type)



■ Forcing screw, body (with adaptor)

Item No.	Applicable puller	Full length (mm)
GSR4S	(G4S) · G100S	154
GSR6S	(G6S) · G150S	215
GSR8S	(G8S) · G200S	311



■ Spring

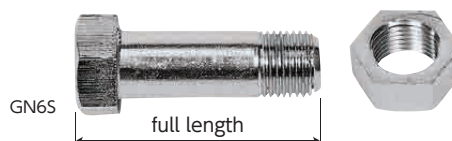
GB6S

Item No.	Applicable puller
GB4S	(G4S) · G100S
GB6S	(G6S) · G150S
GB8S	(G8S) · G200S



■ Plate

Item No.	Applicable puller
GP4S	(G4S) · G100S
GP6S	(G6S) · G150S
GP8S	(G8S) · G200S



■ Bolt, nut (1 set of 4 pcs)

Item No.	Applicable puller	Full length (mm)
GN4S	(G4S) · G100S	32.5
GN6S	(G6S) · G150S	42
GN8S	(G8S) · G200S	48



■ Washer (1 set of 4 pcs)

Item No.	Applicable puller	Hole pitch (mm)
GZ4S	(G4S) · G100S	45
GZ6S	(G6S) · G150S	55
GZ8S	(G8S) · G200S	100



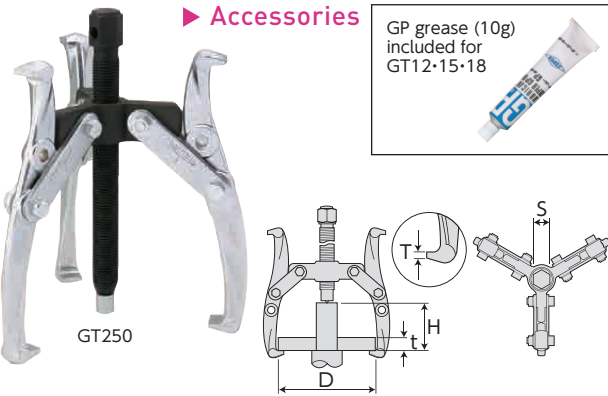
■ Washer, C type stop ring

Item No.	Applicable puller
GC4S	(G4S) · G100S
GC6S	(G6S) · G150S
GC8S	(G8S) · G200S

* The items in () are discontinued.

★ Claws and adaptors are common parts (see P.157)

● For all the appendix of the gear pullers, please refer to P.288



GT

GEAR PULLER, GT Type (3-claw Type)

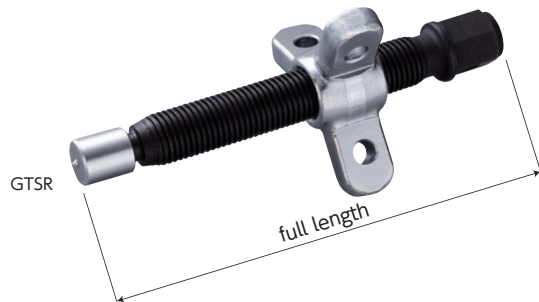
Features

- The reaching range of the claws can be extended by shifting the claw holes (2 holes for GT100~250, 3 holes for GT12~18).
- The load is more stable than with 2-claw type.
- The steel ball inside the adaptor significantly reduces frictional resistance.
- H indicates the claw reaching length when, with D at shortest length, the forcing screw is lifted to the highest point.

Item No.	Size(mm)						Number of claw hole	Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.			
GT100	50~100	45	85	4.1	19	18	2	50	1.2
GT150	60~150	60	140	5.3	22	22	2	75	2.8
GT200	80~200	100	230	6.7	30	28	2	100	7
GT250	100~250	120	245	7.4	32	32	2	125	9.5
GT12	120~300	125	275	8	32	32	3	125	14
GT15	150~375	130	320	8.7	41	38	3	150	18.5
GT18	180~450	140	370	9.8	46	44	3	180	26

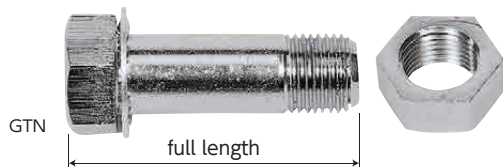
GTSR • GTN • GTZ

GEAR PULLER GT Type Parts



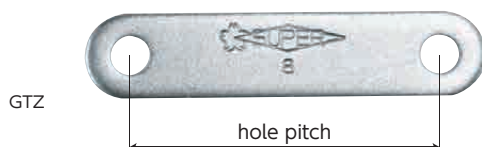
Forcing screw, body (with adaptor)

Item No.	Applicable puller	Full length(mm)
GTSR4	(GT4)·GT100	169
GTSR6	(GTW6)·GT150	220
GTSR8	(GT8)·GT200	331
GTSR10	(GT10)·GT250	365
GTSR12	GT12	365
GTSR15	GT15	419
GTSR18	GT18	472



Bolt, nut, washer with teeth (1 set of 6 pcs)

Item No.	Applicable puller	Full length(mm)
GTN4	(GT4)·GT100	32.5
GTN6	(GTW6)·GT150	42
GTN8	(GT8)·GT200	48
GTN10	(GT10)·GT250	52
GTN12	GT12	57
GTN15	GT15	63
GTN18	GT18	63



Washer (1 set of 6 pcs)

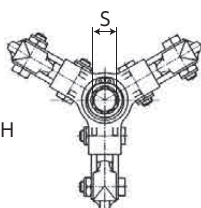
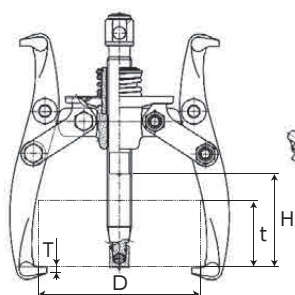
Item No.	Applicable puller	Hole pitch(mm)
GTZ4	(GT4)·GT100	45
GTZ6	(GTW6)·GT150	55
GTZ8	(GT8)·GT200	100
GTZ10	(GT10)·GT250	110
GTZ12	GT12	130
GTZ15	GT15	160
GTZ18	GT18	190

* The items in () are discontinued.

- ★Claws and adaptors are common parts (see P.157)
- For all the appendix of the gear pullers, please refer to P.288



GT2005



GT-S

GEAR PULLER, GT Type (Auto-grip Type)

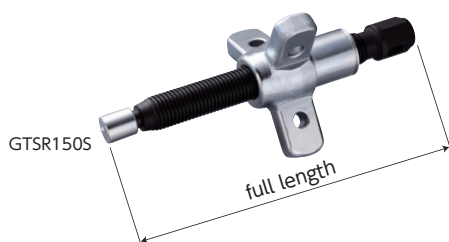
Feature

- The claws close with the force of a spring, allowing easier setting to the object to be pulled and outstanding operability. The reaching range of the claws can be extended by setting the longer GL type claws.

Item No.	Size (mm)						Breaking load (kN)	N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.		
GT100S	50~100	45	80	4.1	19	18	50	1.5
GT150S	60~150	60	135	5.3	22	22	75	3.4
GT200S	80~200	100	225	6.7	30	28	100	8.8

GTSR-S • GTB-S • GTP-S • GTN-S • GTZ-S • GTC-S

GEAR PULLER, GT Type Auto-grip Type Parts (3-claw type)



GTSR150S

full length

Forcing screw, body (with adaptor)

Item No.	Applicable puller	Full length (mm)
GTSR100S	GT100S	169
GTSR150S	GT150S	220
GTSR200S	GT200S	331

GTB150S



Spring

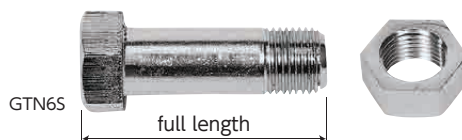
Item No.	Applicable puller
GTB100S	GT100S
GTB150S	GT150S
GTB200S	GT200S



GTP150S

Plate

Item No.	Applicable puller
GTP100S	GT100S
GTP150S	GT150S
GTP200S	GT200S

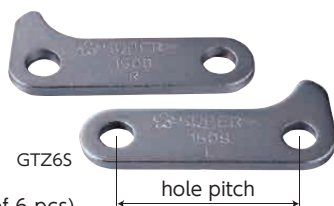


GTN6S

full length

Bolt, nut (1 set of 6 pcs)

Item No.	Applicable puller	Full length (mm)
GTN4S	GT100S	32.5
GTN6S	GT150S	42
GTN8S	GT200S	48



GTZ6S

hole pitch

Washer (1 set of 6 pcs)

Item No.	Applicable puller	Hole pitch (mm)
GTZ4S	GT100S	45
GTZ6S	GT150S	55
GTZ8S	GT200S	100



GTC150S

Washer, C type stop ring

Item No.	Applicable puller
GTC100S	GT100S
GTC150S	GT150S
GTC200S	GT200S

★Claws and adaptors are common parts (see P.157)

●For all the appendix of the gear pullers, please refer to P.288



SSP8

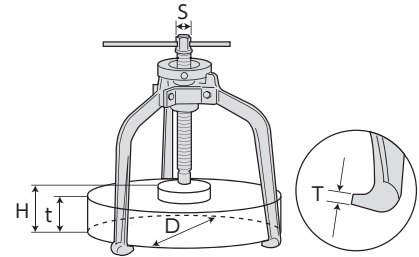
SSP

SHOCK SPEED PULLER SET (Heavy Duty Type for Professional Use)

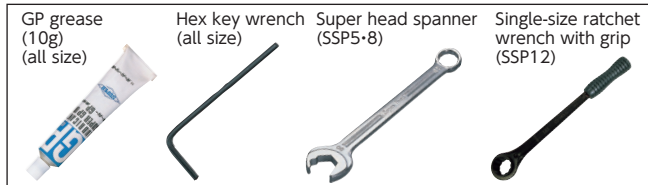
► Features

- Outstanding pulling force for burned or rusted gears or pulleys, by giving impacts to the forcing screw with a hammer (No other pullers have this unique mechanism).
- Steel case as standard acc.
- H indicates the claw reaching length when, with D at shortest length, the forcing screw is lifted to the highest point.

► Example of use



► Accessories



Item No.	Size (mm)						Guaranteed load (kN)	Set N.W. (kg)
	D Pulled object diameter	t Pulled object width when D at max.	H Claw reaching length	T Claw tip thickness	S Forcing screw hex. width across flats	Forcing screw dia.		
SSP5	55~125	125	140	5	19	18	50	3
SSP8	80~200	175	200	7	22	22	100	6
SSP12	120~300	225	270	9	32	32	200	17

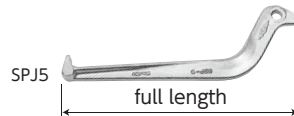
SPSR • SPJ • SPN • SPA • SPB • SPH • SPU

SHOCK SPEED PULLER Parts



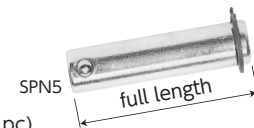
■ Forcing screw, body (with adaptor)

Item No.	Full length (mm)
SPSR5	208
SPSR8	270
SPSR12	355



■ Claw (1 pc)

Item No.	Full length (mm)
SPJ5	210
SPJ8	296
SPJ12	400



■ Pin (1 pc)

Item No.	Full length (mm)
SPN5	33.5
SPN8	44.5
SPN12	66.4



■ Adjustment screw

Item No.
SPA5
SPA8
SPA12



■ Body

Item No.
SPB5
SPB8
SPB12



■ Auxiliary adaptor with step

Item No.	Size (mm)		
	L	D	D1
SPH5	45	18	10
SPH8	60	20	13
SPH12	85	26	15



■ Handle

Item No.
SPU5
SPU8
SPU12

● For all the appendix of the gear pullers, please refer to P.288

Gear pullers
(2-claw type)

Gear pullers
(auto-grip,
G type)

Gear pullers
(3-claw type)

Shock speed
pullers

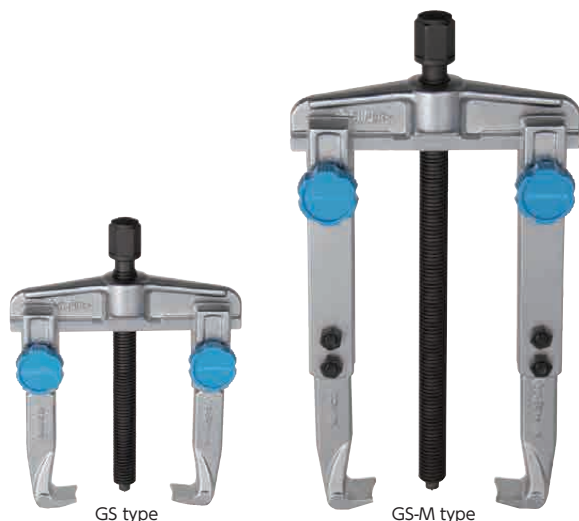
Sliding gear
pullers

Bearing
pullers,
bearing
puller sets

Bearing
insertion
tool sets

Hydraulic
pullers,
power
pushers

Accessories

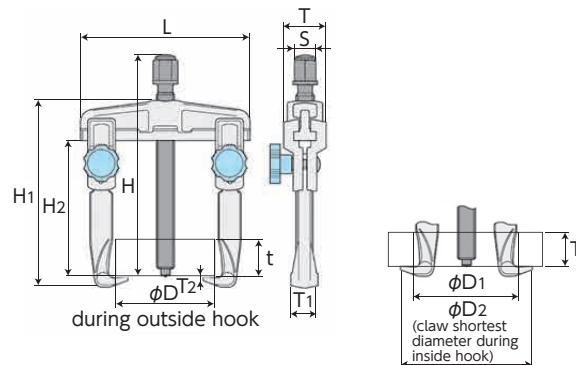


GS • GS-M

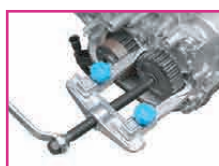
SLIDING GEAR PULLER, GS Type

► Features

- The claws slide horizontally and show great pulling capacities in confined places.
- By resetting the claws, the puller can fit for both outside and inside hook.
- The claw position fixing can be easily achieved just by turning the knob.
- The GS-M type has a long claw reaching length and appropriate forcing screw length allowing efficient operations. Ideal especially for operations like motor disassembly.



► Example of use



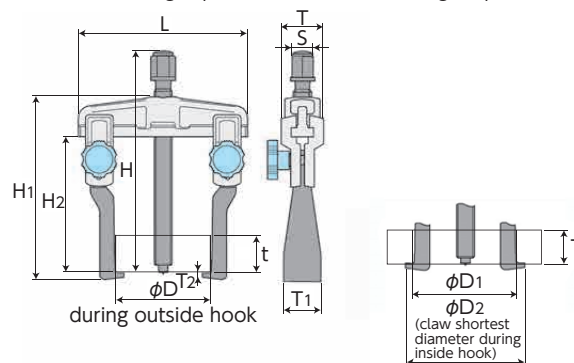
Type	Item No.	Size (mm)													Guaranteed load (kN)	N.W. (kg)
		Pulled object size				L	H	H1	H2	T	S	T1	T2	Forcing screw dia.		
		External dia. D during outside hook	External dia. D1 during inside hook	D2	Max. width t											
GS Type	GS90	15~90	70~140	91	100	136	170	142	103	35	17	21.5	3	14	45	1
	GS120	20~120	70~180	94	100	176	170	148	103	35	17	21.5	3	14	45	1.2
	GS160	25~160	100~220	126	155	220	240	212	160	43	19	26	4.5	18	60	2.6
	GS200	25~200	100~260	128	155	260	240	218	160	43	19	26	4.5	18	60	2.9
GS-M Type	GS90M	15~90	70~140	91	175	136	245	217	178	35	17	21.5	3	14	45	1.6
	GS120M	20~120	70~180	94	175	176	245	223	178	35	17	21.5	3	14	45	1.8
	GS160M	25~160	100~220	126	305	220	390	362	310	43	19	26	4.5	18	60	4.1
	GS200M	25~200	100~260	128	305	260	390	368	310	43	19	26	4.5	18	60	4.4

GS-T • GS-TM

SLIDING GEAR PULLER, GS-T Type (Thin Claw Type)

► Feature

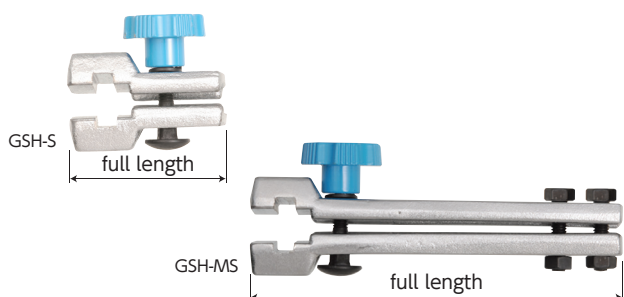
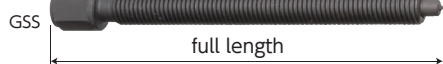
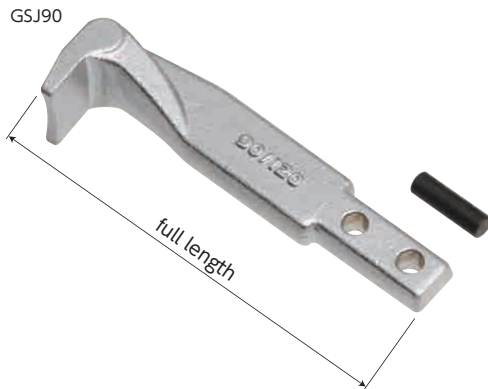
- The thin claws show great pulling capacities for objects where you don't have enough space to set conventional gear puller claws.



Type	Item No.	Size (mm)													Guaranteed load (kN)	N.W. (kg)
		Pulled object size				L	H	H1	H2	T	S	T1	T2	Forcing screw dia.		
		External dia. D during outside hook	External dia. D1 during inside hook	D2	Max. width t											
GS-T Type	GS90T	20~90	80~140	91		136		137								
	GS120T	25~120	80~180	94	100	176	170	143	103	35	17	28	2.7	14	20	1.3
	GS160T	30~160	110~220	131		220		211								2.9
	GS200T	30~200	110~260	133	155	260	240	216	160	43	19	32	3.5	18	35	3.2
GS-TM Type	GS90TM	20~90	80~140	91		136		212								1.6
	GS120TM	25~120	80~180	94	175	176	245	218	178	35	17	28	2.7	14	20	1.8
	GS160TM	30~160	110~220	131		220		361								4.2
	GS200TM	30~200	110~260	133	305	260	390	366	310	43	19	32	3.5	18	35	4.5

GSJ • GSJ-T • GSB • GSS • GSS-M • GSH-S • GSH-MS

SLIDING GEAR PULLER Parts



Claw (1 pc) with pin

Item No.	Applicable puller	Full length (mm)
GSJ90	GS90•120•90M•120M	103
GSJ160	GS160•200•160M•200M	155

Thin claw (1 pc) with pin

Item No.	Applicable puller	Full length (mm)
GSJ90T	GS90T•120T•90TM•120TM	97.7
GSJ160T	GS160T•200T•160TM•200TM	152.5

Body

Item No.	Applicable puller
GSB90	GS90•90M•90T•90TM
GSB120	GS120•120M•120T•120TM
GSB160	GS160•160M•160T•160TM
GSB200	GS200•200M•200T•200TM

Forcing screw (with adaptor)

Item No.	Applicable puller	Full length (mm)
GSS90	GS90•120•90T•120T	170
GSS160	GS160•200•160T•200T	240
GSS90M	GS90M•120M•90TM•120TM	245
GSS160M	GS160M•200M•160TM•200TM	390

Hook set (with knob, bolt, washer)

Item No.	Applicable puller	Full length (mm)
GSH90S	GS90•120•90T•120T	55
GSH160S	GS160•200•160T•200T	71
GSH90MS	GS90M•120M•90TM•120TM	130
GSH160MS	GS160M•200M•160TM•200TM	221

●For all the appendix of the gear pullers, please refer to P.288

GEAR PULLERS

Gear pullers
(2-claw type)

Gear pullers
(auto-grip,
G type)

Gear pullers
(3-claw type)

Shock speed
pullers

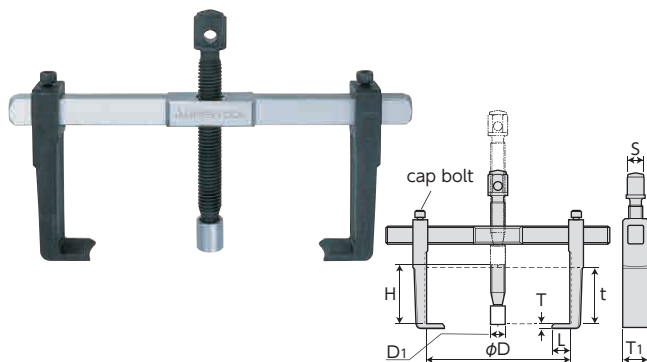
Sliding gear
pullers

Bearing
pullers,
bearing
puller sets

Bearing
insertion
tool sets

Hydraulic
pullers,
power
pushers

Accessories



ABW200

SLIDING GEAR PULLER, Super Wide Type

Features

- Ideal for removing car crank pulleys.
- The sliding claws can be fixed to the appropriate position with the cap bolts.
- H indicates the claw reaching length when the forcing screw is lifted to the highest point.

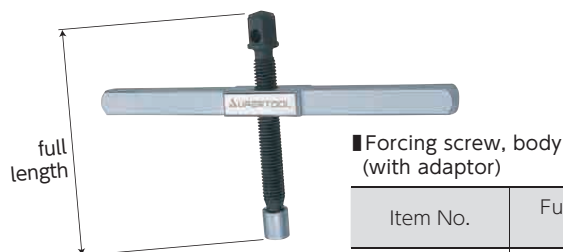
Example of use



Item No.	Size (mm)									Guaranteed load (kN)	N.W. (kg)
	D	t	D1	H	L	T	T1	S	Forcing screw dia.		
ABW200	50~200	50	16	50	18	4	28	17	14	30	1.5

ABWSR200 • ABWJ200

SLIDING GEAR PULLER, Super Wide Type Parts



Forcing screw, body (with adaptor)

Item No.	Full length (mm)
ABWSR200	138

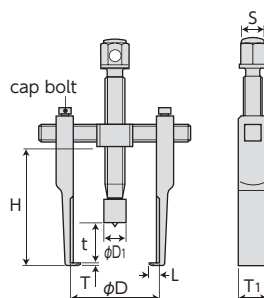


Claw (1 pc)

Item No.	Full length (mm)
ABWJ200	98



ABT90



ABT90 • ABT90L

SLIDING GEAR PULLER, Super Thin Claw Type

Features

- Ideal for removing pulleys and gears with little space for claws.
- The sliding claws can be fixed to the appropriate position with the cap bolts.
- ABT90L is long claw type.
- H indicates the claw reaching length when the forcing screw is lifted to the highest point.

Example of use



Item No.	Size (mm)									Guaranteed load (kN)	N.W. (kg)
	D	t	D1	H	L	T	T1	S	Forcing screw dia.		
ABT90	40~90	50	16	70	5	2	22	17	14	25	0.6
ABT90L	40~90	50	16	100	5	2	22	17	14	25	0.8

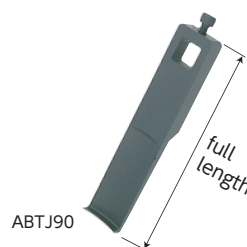
ABTSR90(L) • ABTJ90(L)

SLIDING GEAR PULLER, Super Thin Claw Type Parts



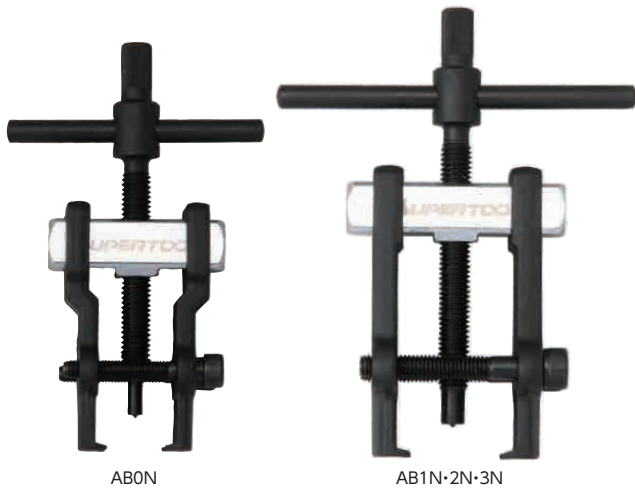
Forcing screw, body (with adaptor)

Item No.	Full length (mm)
ABTSR90	138
ABTSR90L	168



Claw (1 pc)

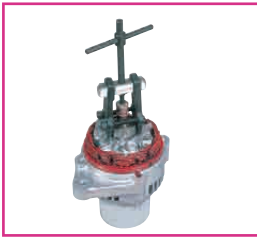
Item No.	Full length (mm)
ABTJ90	112.5
ABTJ90L	142.5



AB0N

AB1N-2N-3N

► Example of use

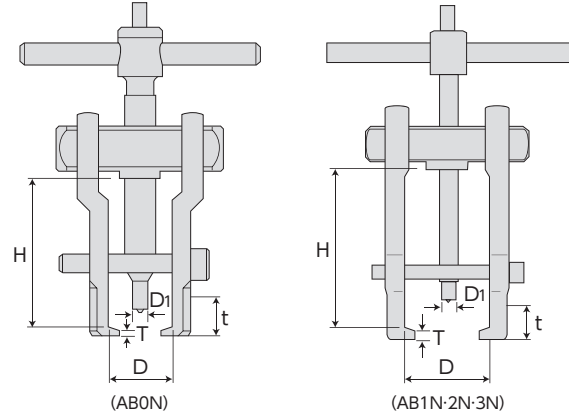


AB-N

ARMATURE BEARING PULLER

► Features

- Ideal for small diameter bearings removing operations in products like electric tools, home appliances or bicycles.
- H indicates the claw reaching length when the forcing screw is lifted to the highest point.



(AB0N)

(AB1N-2N-3N)

Item No.	Size (mm)						Guaranteed load (kN)	N.W. (kg)
	D	t	D1	H	T	Forcing screw dia.		
	Pulled object dia.	Pulled object max. thickness	Forcing screw end dia.	Claw reaching length				
AB0N	10~25	8	4	40	1	8	6	0.2
AB1N	19~35	8	6	50	1	8	10	0.3
AB2N	24~55	12	8	100	1.2	10	13	0.7
AB3N	35~80	15	12	160	1.5	16	18	1.9

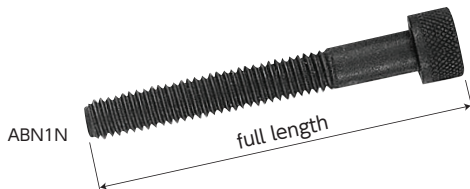
ABJ-N • ABN-N • ASR-N

ARMATURE BEARING PULLER Parts



ABJ1N

full length



ABN1N

full length



ASR2N

full length

■ Claw (left / right pair)

Item No.	Full length (mm)
ABJ0N	62
ABJ1N	72
ABJ2N	131
ABJ3N	210

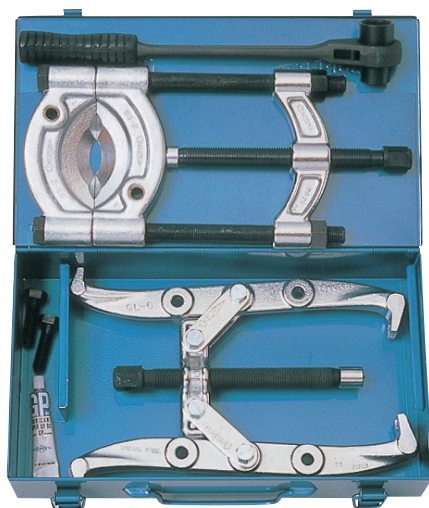
* The claw pair comes as 1 claw with screw holes and 1 claw with bolt holes.

■ Opening stopper bolt (1 pc)

Item No.	Full length (mm)
ABN0N	40
ABN1N	51
ABN2N	78
ABN3N	108

■ Forcing screw, body

Item No.	Full length (mm)
ASR0N	95
ASR1N	105
ASR2N	165
ASR3N	245



G2000

G1000 • G2000 • G4000

BEARING GRIP PULLER SET (Heavy Duty Type for Professional Use)

► Features

- Ideal for removing bearings and gears with no space.
- Ideal puller set for removing pulleys with large diameter.
- Steel case as standard acc.

► Accessories

- GP grease (10g)
- Hook bolt for GL

► Example of use



Item No.	Gear puller GL type	Bearing separator	Ratchet wrench with grip	Breaking load (kN)	Set N.W. (kg)
G1000	GL4	BS1S	RNG14×17	40	4
G2000	GL6	BS2S	RNG19×22	60	8
G4000	GL8	BS4	RNG22×27	80	14

P1000 • P2000 • P4000

BEARING PUSH PULLER SET (Heavy Duty Type for Professional Use)

► Feature

- Ideal puller set for removing and inserting bearings, gears and pulleys in deep places.
- Steel case as standard acc (special strengthened cardboard case for P4000).

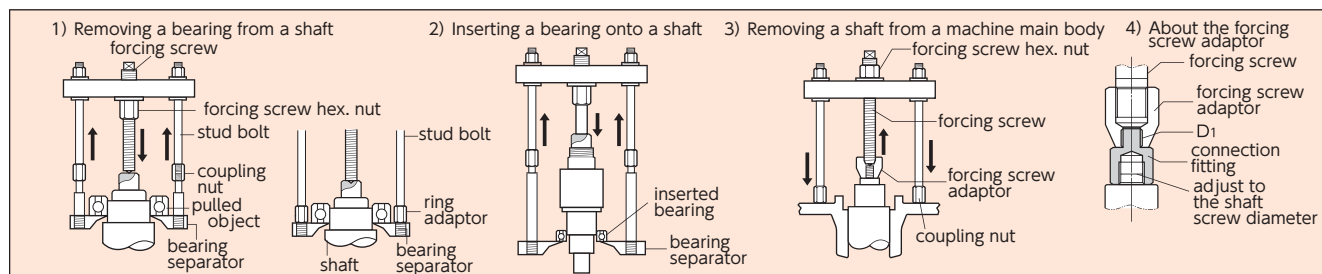
► Accessories

- GP grease (10g)

► Example of use

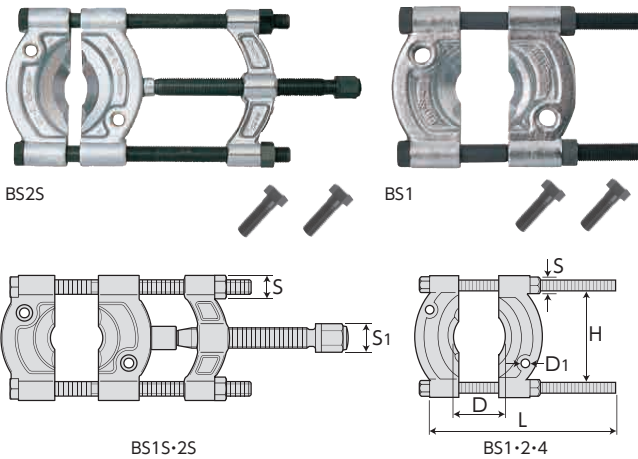


P1000



- 1) Set as shown in the drawing, fix the forcing screw hex. nut with a spanner and tighten the square part of the forcing screw. When the bearing is at the bottom of the shaft, add a stud bolt by connecting with a coupling nut, as shown in the drawing. For P1000, the hole diameter of the separator screw and the external diameter of the stud bolt screw are different. Before use, screw the ring adaptor into the stud bolt.
- 2) Set as shown in the drawing and follow the operation detailed in 1).
- 3) Set as shown in the drawing, fix the square part of the forcing screw with a spanner and tighten the forcing screw hex. nut.
- 4) If the diameters of the forcing screw adaptor and the shaft screw don't match, make a connection fitting separately.

Item No.	Push puller	Forcing screw adaptor	Bearing separator	Ring adaptor	Coupling nut	Stud bolt	Ratchet wrench with grip	Guaranteed load (kN)	Set N.W. (kg)
P1000	PP2	PPN2	BS1S	PPA1 (2pcs)	PCU2 (2pcs)	PSN2125 (2pcs)	RNG14×17	60	7
P2000	PP2	PPN2	BS2S	—	PCU2 (2pcs)	PSN2125 (2pcs)	RNG19×22	100	11
P4000	PP4	PPN4	BS4	—	PCU4 (4pcs)	PSN4115 (2pcs) PSN4420 (2pcs)	RG27	200	22



BS・BS-S

BEARING SEPARATOR (Heavy Duty Type for Professional Use)

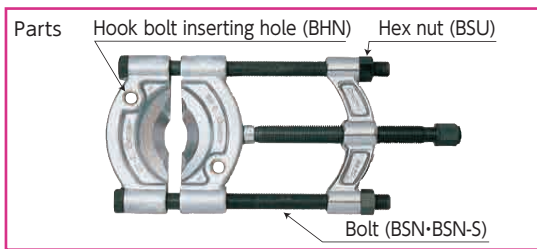
► Features

- Ideal for removing bearings and gears with no spaces for G or GL type claws.
- Ideal for removing pulleys with large perimeter.

► Example of use

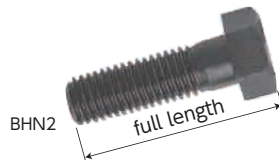


Item No.	Size (mm)						Guaranteed load (kN)	N.W. (kg)	Applicable puller	
	D·applicable diameter	H	L Bolt length	D1 Body screw dia.	S1 Forcing screw hex width across flats	S Nut hex width across flats			Gear puller (GL·GLL type)	Push puller
BS1	6~60	60	120	M10	—	14	60	0.5	GL·GLL4	PP2
BS1S	6~60	60	160	M10	17	14	60	0.9	GL·GLL4	PP2
BS2	9~115	110	205	M12	—	22	100	2.3	GL·GLL6	PP2
BS2S	9~115	110	255	M12	19	22	100	3.5	GL·GLL6	PP2
BS4	25~230	155	330	M16	—	27	200	5	GL·GLL8・10	PP4



■ Body (1 set)

Item No.
BSB1
BSB2
BSB4



■ Hook bolt (1 pc)

Item No.	Size (mm)		
	Screw dia.	Hex. width across flats	Full length
BHN1	M10	17	42
BHN2	M12	19	48
BHN4	M16	24	60



■ Bolt for BS (1 pc)

Item No.	Size (mm)	
	Nominal diameter	Bolt length
BSN1	M10×1	120
BSN2	M16×1.5	205
BSN4	M20×1.5	330

BSB・BSR・BHN・BSU・BSN・BSN-S

BEARING SEPARATOR Parts



■ Speeder (Body, forcing screw set)

Item No.
BSR1
BSR2

* The tip of this forcing screw includes an adaptor to reduce frictional resistance.



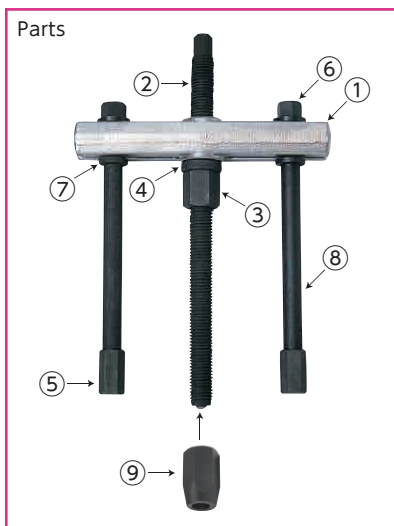
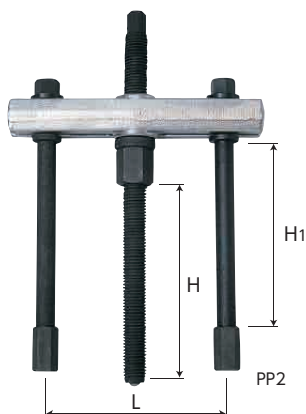
■ Hex nut (1 pc)

Item No.	Size (mm)	
	Screw diameter	Hex width across flats
BSU1	M10×1	14
BSU2	M16×1.5	22
BSU4	M20×1.5	27



■ Bolt for BS1S-2S (1 pc)

Item No.	Size (mm)	
	Nominal diameter	Bolt length
BSN1S	M10×1	160
BSN2S	M16×1.5	255



PP

PUSH PULLER (Heavy Duty Type for Professional Use)

Feature

- Setting this push puller with a bearing separator allows even more applications.

Item No.	Size(mm)			Guaranteed load (kN)	Set N.W. (kg)
	L	H Max.	H1		
PP2	65~200	223	150	100	2.7
PP4	90~330	233	245	200	7

PPB • PPS • PPU • PPZ • PCU • PSU • PSZ • PPA • PSN • PPN

BEARING PUSH PULLER SET Parts



Body (1)

Item No.
PPB2
PPB4



Forcing screw (2)

Item No.	Size (mm)	
	Screw diameter (30° trapezoidal thread)	Full length
PPS2	TM20×2.5	305
PPS4	TM28×3	340



PPU2

Hex nut for forcing screw (3)

Item No.	Size (mm)	
	Screw diameter (30° trapezoidal thread)	Hex width across flats
PPU2	TM20×2.5	27
PPU4	TM28×3	36



PPZ2

Washer for forcing screw (4)

Item No.
PPZ2
PPZ4



PCU2

Coupling nut (5)

Item No.	Size (mm)	
	Screw dia.	Hex width across flats
PCU2	M12	19
PCU4	M16	24



PSU2

Nut with washer for stud bolt (6)

Item No.	Size (mm)	
	Screw dia.	Hex width across flats
PSU2	M12	19
PSU4	M16	24



PSZ2

Washer for stud bolt (7)

Item No.
PSZ2
PSZ4



PPA1

Ring adaptor

Item No.	Applicable model	Size (mm)	
		Screw dia.	Hex width across flats
PPA1	for BS1-1S	M12×M10	19

* Required only when using a bearing separator.



PSN2150

Stud bolt (1 pc) (8)

Item No.	Screw diameter × length (mm)
PSN2125	M12×125
PSN2150	M12×150
PSN4115	M16×115
PSN4245	M16×245
PSN4420	M16×420



PPN2

Adaptor for forcing screw (9)

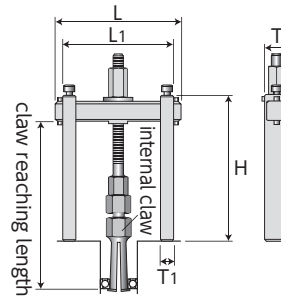
Item No.	Size (mm)	
	Forcing screw side dia. (30° trapezoidal thread screw)	Connection side dia. (metric coarse thread screw)
PPN2	TM20×2.5	M16
PPN4	TM28×3	M20



BP-S • BP30FS

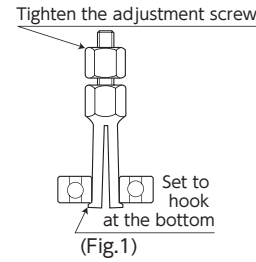
BEARING PULLER SET

► Features

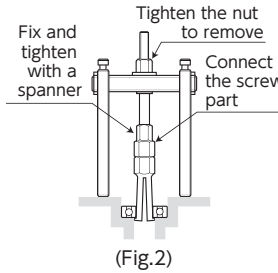


- Dedicated tool set for removing bearings from inner rings.
- Chuck the internal claw on the bearing internal diameter, set on the stand and then the bearing can be removed just by turning the nut.

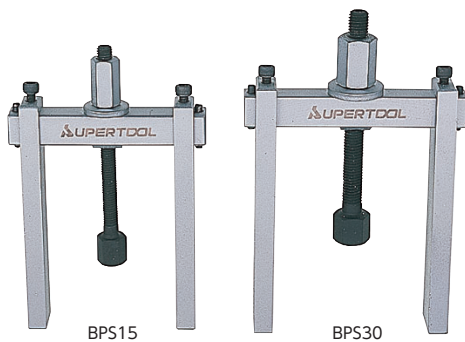
► Example of use



- 1) Insert the internal claw matching with the bearing internal diameter at the bottom of the bearing, tighten the adjustment screw and set so that the internal claw is firmly hooked to the bottom of the bearing. (Fig.1)
- 2) Connect and fix the lower part of the standing puller forcing screw to the adjustment screw. (Fig.2)
- 3) Fix the hex. part of the forcing screw lower part with a spanner, tighten the nut and remove the bearing. (Fig.2)



Item No.	Size (mm)							Set N.W. (kg)
	Applicable bearing (internal diameter)	L	L1	T	T1	H	Claw reaching length	
BP15S	φ8、φ10、φ12、φ15	100	42~88	20	10	120	Max.150	1.5
BP30S	φ17、φ20、φ25、φ30	110	47~98	25	10	130	Max.150	2
BP30FS	φ8、φ10、φ12、φ15、φ17、φ20、φ25、φ30	Set of the 2 items above						3.8

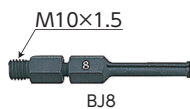


BPS • BJ

BEARING PULLER SET Parts

■ Stand set

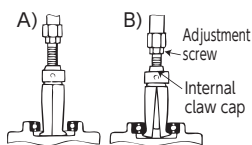
Item No.	Applicable internal claw
BPS15	BJ 8~15
BPS30	BJ17~30



■ Internal claw

Item No.	Applicable stand	Applicable bearing (internal diameter) (mm)
BJ8	BPS15	φ8
BJ10	BPS15	φ10
BJ12	BPS15	φ12
BJ15	BPS15	φ15

Item No.	Applicable stand	Applicable bearing (internal diameter) (mm)
BJ17	BPS30	φ17
BJ20	BPS30	φ20
BJ25	BPS30	φ25
BJ30	BPS30	φ30



A) Insert the internal claw onto the bearing.
B) Fix the internal claw cap and tighten the adjustment screw.

* The adjustment screw gets pulled out, the internal claw tips open, hook the bearing bottom part and hold the bearing, as shown on Fig. B).

BH32

SLIDE HAMMER BEARING PULLER SET (Heavy Duty Type for Professional Use)

Features

- Dedicated tool set for removing bearings from inner rings.
- Steel case as standard acc.

Example of use



Set item No.	Item name	Item No.	Q'ty	Set N.W. (kg)
BH32	Slide hammer	BPH6	1 set	4.5
	Internal claw	BPJ0~4	5	

BP60

BEARING PULLER SET (Heavy Duty Type for Professional Use)

Features

- Dedicated tool set for removing bearings from inner and outer rings.
- Steel case as standard acc.

Set item No.	Item name	Item No.	Q'ty	Set N.W. (kg)
BP60	Slide hammer	BPH6	1 set	14
	Internal claw	BPJ0~7	8	
	Standing puller	BPS6	1	
	Opening stopper	BPU6	1	
	Single size offset wrench	BPM6	1	
	Hex key wrench	BPX4	1	

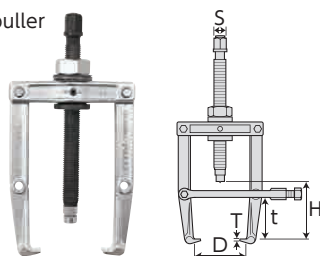
BPS • BPJ • BPH • BPSJ • BPU • BPM

BEARING PULLER SET Parts

Features

- Dedicated for removing outer ring by setting with the opening stopper (BPU6) for stable operation.
- H indicates the claw reaching length when the forcing screw is lifted to the highest point.

Standing puller



Example of use



Standing puller (outer ring removing ability table)

Item No.	Size(mm)					Breaking load (kN)
	D	t	H	T	S	
	Pulled object		Claw reaching length	Claw tip thickness	Forcing screw hex. width across flats	
BPS6	45~150	Max. 55	Max. 150	6	22	60

Internal claw (inner ring removing ability table)

Item No.	Pulled object(mm)		Applicable bearing No.
	Dia. (internal dia.)	Width	
BPJ0	10.0~13.0	12	00-01
BPJ1	12.0~15.0	13	01-02
BPJ2	15.0~20.0	15	02-03-04
BPJ3	20.0~25.0	17	04-05

BPJ5 M15×1.5

Item No.	Pulled object(mm)		Applicable bearing No.
	Dia. (internal dia.)	Width	
BPJ4	25.0~32.0	20	05-06
BPJ5	34.5~41.5	23	07-08
BPJ6	44.0~51.0	27	09-10
BPJ7	55.0~60.0	31	11-12



Slide hammer

Item No.	Full length (mm)
BPH6	511



Standing puller claw (1 pc)

Item No.	Full length (mm)
BPSJ	222.8



Opening stopper

Item No.
BPU6



Offset wrench

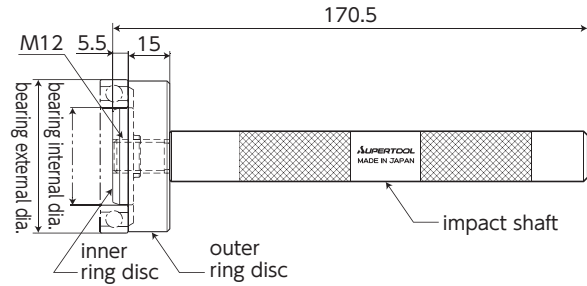
Item No.
BPM6

BI75S

BEARING INSERTION TOOL SET

Features

- Tool set for inserting bearings onto housings (bearing cases).
- Case external dimensions : 520 × 265 × 90mm



Set item No.	Item name	Q'ty	Set N.W. (kg)
BI75S	Impact shaft	1	6.5
	Outer ring disc	19 sizes	
	Inner ring disc	11 sizes	
	Dedicated aluminum case	1	

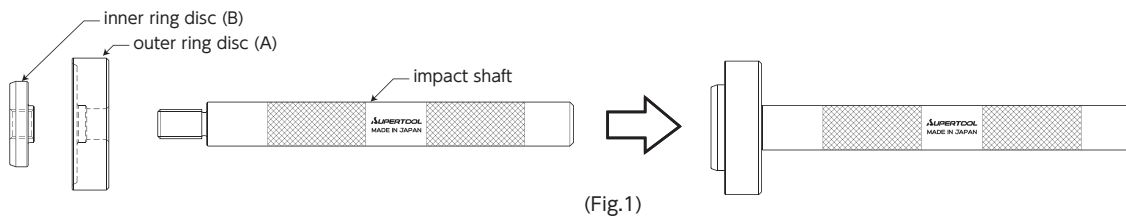
Applicable bearing

Bearing internal dia.	φ17, φ20, φ22, φ25, φ28, φ30, φ32, φ35, φ40, φ45, φ50
Bearing external dia.	φ26, φ30, φ32, φ35, φ37, φ40, φ42, φ44, φ47, φ50, φ52, φ55, φ56, φ58, φ62, φ65, φ68, φ72, φ75

Operation instructions

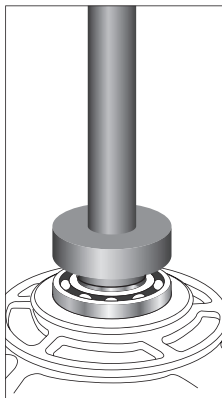
1) Assembly

Select the outer ring disc and the inner ring disc matching with the bearing internal and external diameters (the internal and external diameter size of the applicable bearing is displayed on each inserting disc.) . Set the outer ring disc to the impact shaft and then screw in and fix the inner ring disc. (Fig.1)

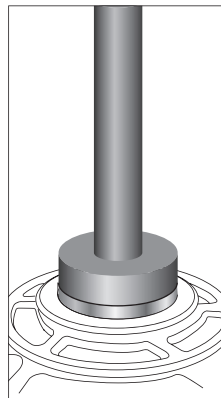


2) Bearing insertion

Insert the inner ring disc onto the bearing inner ring (Fig.2) and hit the impact shaft with a hammer to insert the bearing onto the housing (Fig.3).

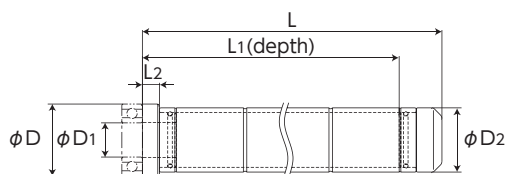


(Fig.2)

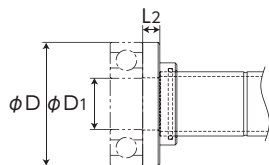


(Fig.3)

During the operation, check that the bearing is inserted straightly.



Inserting disc (type A)



Inserting disc (type B)

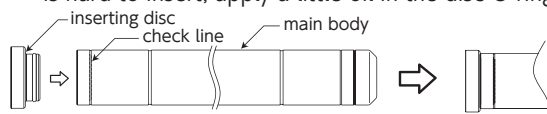
■ Dimensions and applicable bearings

Size (mm)						Inserting disc		Main body name
Applicable bearing		D2	L	L1	L2			
External dia.D	Internal dia.D1					Name	Type	
26	10	25	245	220	10	1026	A	A
30		25	245	220	10	1030	A	A
35		25	245	220	10	1035	A	A
28		25	245	220	10	1228	A	A
32	12	25	245	220	10	1232	A	A
37		25	245	220	10	1237	A	A
32	15	25	245	220	20	1532	B	A
35		25	245	220	20	1535	B	A
42		25	245	220	10	1542	B	A

■ Operation instructions

1) Assembly

- Select the inserting discs matching with the bearing internal and external diameters (the internal and external diameter size of the applicable bearing is displayed on each inserting disc.)
- Insert the inserting disc until the bottom of the main body and fix it (Insert the inserting disc straightly into the main body to avoid crooked insertion. If the disc is hard to insert, apply a little oil in the disc O ring.).



(Type A)

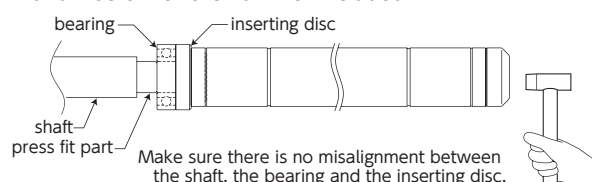
Insert until there is no more space between the disc and the main body.

(Type B)

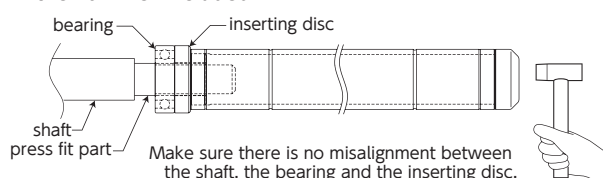
Insert until the check line enters the disc hole.

2) Bearing insertion

- When inserting to the shaft end :
Set the bearing and the inserting disc to the shaft and insert with the hammer included.



- When inserting to the shaft bottom :
After passing the bearing onto the shaft, pass the shaft onto the inserting disc hole and insert with the hammer included.



BI50110S

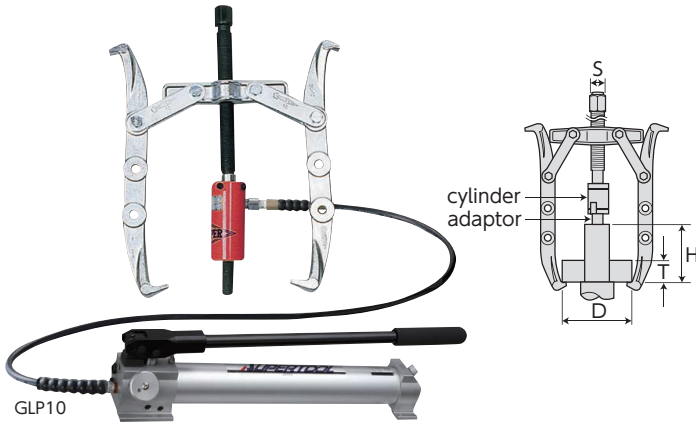
■ BEARING INSERTION TOOL SET

► Features

- Tool set for inserting bearings onto shafts or housings (bearing cases).
- Case external dimensions : 445×380×120mm

Set item No.	Item name	Q'ty	Set N.W. (kg)
BI50110S	Main body (impact head already set)	3 sizes	15
	Inserting disc	33 sizes	
	Hammer	1	
	Dedicated aluminum case	1	

Size(mm)						Inserting disc		Main body name
Applicable bearing		D2	L	L1	L2			
External dia.D	Internal dia.D1					Name	Type	
35	17	25	245	220	20	1735	B	A
40		25	245	220	10	1740	B	A
47		25	245	220	10	1747	B	A
42	20	37.5	245	220	10	2042	A	B
47		37.5	245	220	10	2047	A	B
52		37.5	245	220	10	2052	A	B
47	25	37.5	245	220	20	2547	B	B
52		37.5	245	220	10	2552	B	B
62		37.5	250	225	15	2562	B	B
55	30	37.5	245	220	10	3055	B	B
62		37.5	250	225	15	3062	B	B
72		37.5	250	225	15	3072	B	B
62	35	60	250	225	15	3562	A	C
72		60	245	220	15	3572	B	C
80		60	245	220	15	3580	B	C
68	40	60	250	225	15	4068	A	C
80		60	245	220	15	4080	B	C
90		60	245	220	15	4090	B	C
75	45	60	245	220	15	4575	B	C
85		60	245	220	15	4585	B	C
100		60	245	220	15	45100	B	C
80	50	60	245	220	15	5080	B	C
90		60	245	220	15	5090	B	C
110		60	245	220	15	50110	B	C



GLP

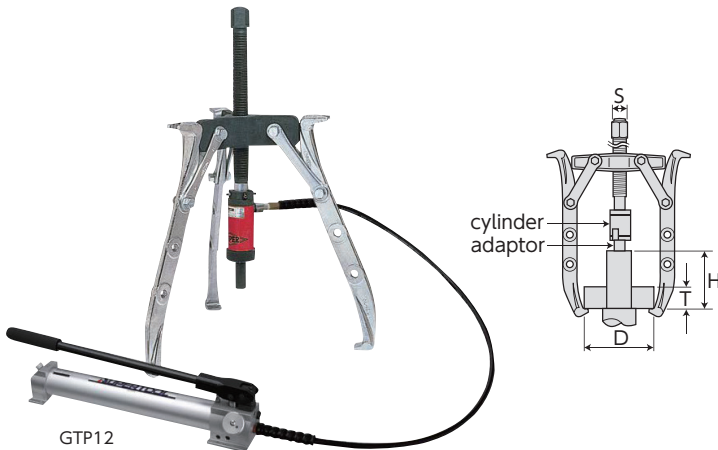
2-CLAW HYDRAULIC PULLER SET

- **Feature**
- Easy to remove rusted or burned gears and pulleys with hydraulic power.
- **Accessories**
- Ratchet wrench with grip (RG), each 1 pc

■ Set hydraulic pump, hose, cylinder item No.

Set item No.	Hydraulic pump, hose, cylinder
GLP10•12	HP500AN•HH2N•GPC1012
GLP15•18	HP500AN•HH2N•GPC1518
GLP24	HP500AN•HH2N•GPC24

Item No.	Size (mm)							Max. load (kN)	Set N.W. (kg)
	D	T	H		S	Forcing screw external dia.	Cylinder stroke		
			Claw reaching length		Forcing screw hex. width across flats				
			Cylinder adaptor						
	Pulled object diameter	Pulled object width when D is at max.	L in use	S in use					
GLP10	100~250	125	125	150	30	28	50	100	16
GLP12	120~300	170	175	200	32	32	50	100	19
GLP15	150~375	185	180	210	41	38	50	140	27
GLP18	180~450	200	220	250	46	44	50	140	30
GLP24	280~600	175	300	—	46	44	50	230	63



GTP

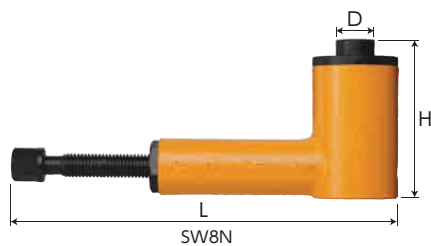
3-CLAW HYDRAULIC PULLER SET

- **Features**
- Easy to remove rusted or burned gears and pulleys with hydraulic power.
 - The setting is more stable with 3 claws.
- **Accessories**
- Ratchet wrench with grip (RG), each 1 pc

■ Set hydraulic pump, hose, cylinder item No.

Set item No.	Hydraulic pump, hose, cylinder
GTP10•12	HP500AN•HH2N•GPC1012
GTP15•18	HP500AN•HH2N•GPC1518

Item No.	Size (mm)							Max. load (kN)	Set N.W. (kg)
	D	T	H		S	Forcing screw external dia.	Cylinder stroke		
			Claw reaching length		Forcing screw hex. width across flats				
			Cylinder adaptor						
			Pulled object diameter	Pulled object width when D is at max.					
GTP10	100~250	125	125	150	32	32	50	100	20
GTP12	120~300	170	175	200	32	32	50	100	24
GTP15	150~375	185	180	210	41	38	50	140	35
GTP18	180~450	200	220	250	46	44	50	140	42



► Example of use



SW-N

POWER PUSHER

- **Features**
- When rusted or burned gears and pulleys are hard to get removed, use the power pusher as shown in the example of use. The hydraulic force of the power pusher enables easy removing operation.
 - Can be widely used as a compact high power jack.

Item No.	Size (mm)				Applicable puller		Max. load (kN)	N.W. (kg)
	Stroke	L	H	D	Gear puller	Shock speed puller		
SW8N	15	172~223	88~103	22	8~24	8~12	80	1.6
SW16N		210~284	98~113	25	18~24	12	160	2.7



HP500AN

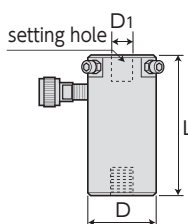
■ HAND-OPERATED HYDRAULIC PUMP, Aluminum Alloy Body (for Single Action Type Cylinder)

The pump head is made of robust duralumin

► Features

- This aluminum pump net weight is about half of a steel pump.
- Output type pump with high / low pressure 2 steps automatic switching.

Item No.	Output pressure(MPa)	Effective oil quantity(cm ³)	Applicable gear puller size	N.W.(kg)
HP500AN	1.4~70	500	10·12·15·18·24	4.5



GPC

■ HYDRAULIC PULLER CYLINDER

► Feature

- For the gear puller, use with long claws (GLJ).

Item No.	Size(mm)				Applicable gear puller size	Included adaptor	Max. load (kN)	Set N.W. (kg)
	Stroke	L	D	D1				
GPC1012	50	132	57	26/32	10·12	GLA12S, 12L	100	2.9
GPC1518	50	178	70	32/40	15·18	GLA18S, 18L	140	6
GPC24	50	199	86	40	24	GLA24	230	9.7



HH2N

■ HYDRAULIC HOSE

► Feature

- Can be used with all hand-operated pumps in general.

► Accessories

- Coupling HCFN (female) for cylinder side setting

Item No.	Size(mm)			Pressure at max. use (MPa)	Hose material	Included coupling (male)	Connection screw dia. (R)	N.W. (kg)
	Internal dia.	External dia.	Full length					
HH2N	6.35	15	2,000	70	Oilproof synthetic rubber	HCMN	3/8	1.25

GLA-L · GLA-S · GLA24

■ CYLINDER ADAPTOR

GLA12L



► Feature ● Exclusively for GPC use.

Item No.	Size (mm)		Screw	Applicable cylinder	N.W. (g)
	L	D			
GLA12S	30	21	Metric M24×2	GPC1012	110
GLA12L	55	21	Metric M24×2	GPC1012	230
GLA18S	35	32	Unified 1-8UNC	GPC1518	300
GLA18L	65	32	Unified 1-8UNC	GPC1518	500
GLA24	100	40	Unified 1½-16UNF	GPC24	1,400

GP50

■ GP GREASE



► Feature ● Special lubrication grease with outstanding protection properties against friction and high temperature of gears and screws.

Item No.	Quantity(g)
GP50	50