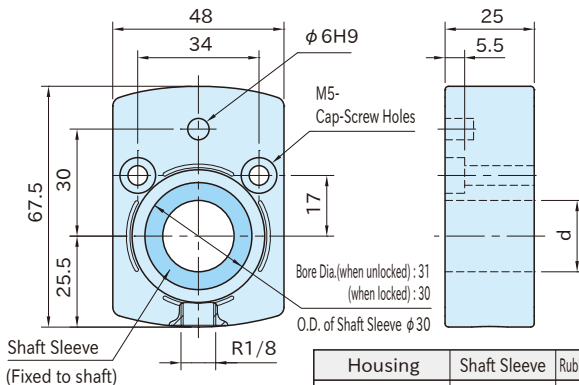


SKPAR

CLAMP PLATES (PNEUMATIC)



★ **One Point**
Perfect for Remote Operation

Housing	Shaft Sleeve	Rubber Element
Die-cast zinc(ZDC1)	Steel (SUM22L)	EPDM rubber

Part Number	d (H7)	Max. Operating Air Pressure (MPa)	Max. Holding Torque (N·m)	Weight (g)	Proper Indicator
SKPAR09-12	12	0.6	3	328	SDP-09-N
SKPAR09-14	14			318	
SKPAR09-15	15			313	
SKPAR09-16	16			308	
SKPAR09-20	20			288	

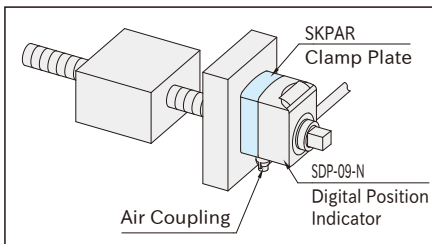
Features:

- Once air pressure is applied, the built-in rubber element expands to lock the shaft sleeve secured to the shaft.
- Multiple Clamp Plates provided with compressed air connection allow clamping and unclamping in one operation.
- These plates prevent the spindle from turning due to vibrations from the machine.

Caution

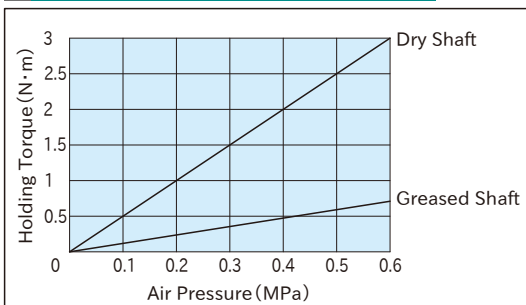
- Do not apply air pressure without the shaft inserted through.
- Oil, grease, dust or the like can affect holding power.

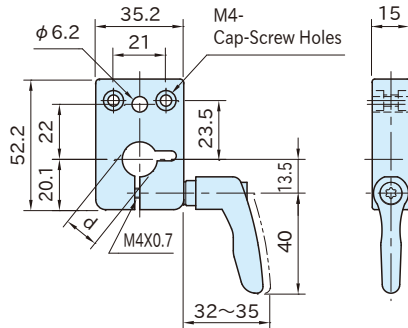
How To Use



These clamp plates can be used with **SDP-09-N** Digital Position Indicators.

Technical Information





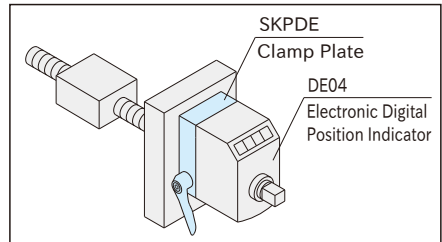
Body	Adjustable Handle
Aluminum(6N01) Anodized Black	Die-cast zinc(ZDC1) Painted Black

Part Number	d (^{+0.1})	Weight (g)	Proper Indicators
SKPDE04-14	14	100	DE04
SKPDE04-10	10	100	

Features:

- These clamp plates prevent the spindle from turning due to vibrations from the machine.
- Suitable for positively locking the spindle for a long period of hours
- For details of the adjustable handle (FKF type).

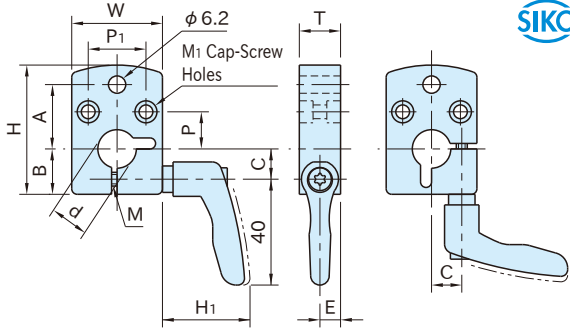
How To Use



These clamp plates can be used with **DE04** Electronic Digital Position Indicator

SKP

CLAMP PLATES



SKP-04-1 SKP-09-1
(Style 1)

SKP-04-3 SKP-09-3
(Style 3)

Body	Adjustable Handle
Aluminum alloy (A6063) Black	Die cast zinc (ZDC1) Coated finish Black

Part Number	d ($+0.1$ / -0.05)	W	H	T	M ₁	P	P ₁	A	B	H ₁	M	C	E	Weight (g)	Proper Indicators
SKP-04-1	14	33	47	15	M4	23.5	21	22	16.5	32~35	M4×0.7	11	7.5	95	SDP-04
SKP-04-3	Others On Request														
SKP-09-1	20	48	67.5	20	M5	17	34	30	25.5	32~35	M5×0.8	17	10	190	SDP-09-N
SKP-09-3	Others On Request														

Features

Plate that allows preventing the spindle from turning due to vibrations from the machine.

Ordering Example for
On Request Clamp Plates

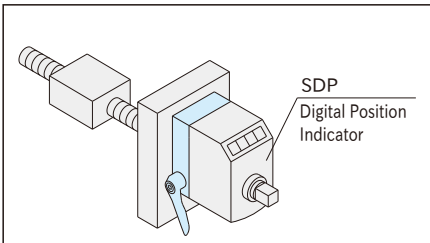
SKP-04-1 - 10

Part Number of Standard Indicator

Custom Hole Diameter

(Options for SKP-04 : 8, 10, 12 & 15
(Options for SKP-09 : 8,10,12,14,15,16,18)

Application Example



Use with a **SDP-04** or **SDP-09-N** Digital Position Indicator.


Clamp Plates for Large Position Indicator

Standard Lever / Bearing with Housing

Clamp Plates for Compact Position Indicator

Standard / Miniature Lever / Bearing with Housing

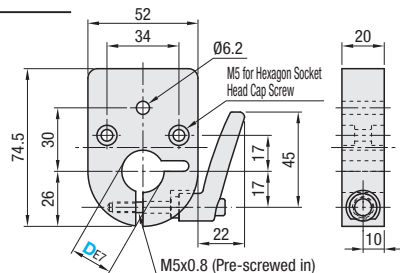
Standard Lever



RoHS

Type	Main Body	Clamp Lever
	M Material S Surface Treatment	M Material S Surface Treatment
DPQK	Aluminum Alloy Black Anodize	Zinc Diecast Baked Paint

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.



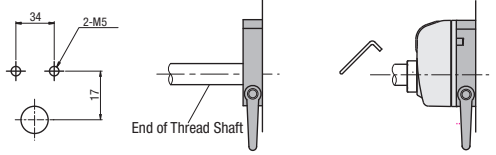
M5 for Hexagon Socket Head Cap Screw

M5x0.8 (Pre-screwed in)

Part Number Type	D	Mass (g)	Unit Price
DPQK	12	202	
	14	200	
	15	198	
	16	197	
	17	196	
	20	191	

How to Mount


- Drill a screw hole for mounting the clamp plate on the mating plate.
- Mount the clamp plate using the hex socket head cap screw.
- Make sure that the screw shaft is in the correct position and that the memory of the indicator is set at 0, fix it with the included set screw.



End of Thread Shaft

Ordering Example Part Number DPQK12

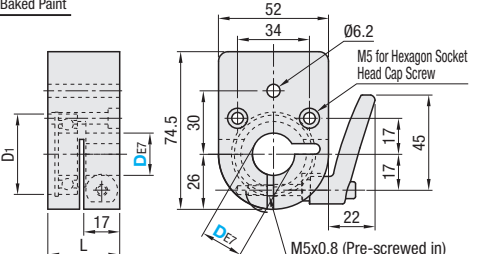
Bearing with Housing



RoHS

Type	Main Body	Clamp Lever
	M Material S Surface Treatment	M Material S Surface Treatment
DPQKB	Aluminum Alloy Black Anodize	Zinc Diecast Baked Paint

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.



M5 for Hexagon Socket Head Cap Screw

M5x0.8 (Pre-screwed in)

Part Number Type	D	L	D1	Mass (g)	Bearing	Retaining Ring	Unit Price
DPQKB	12	31	28	308	6001ZZ	RTWN28	
	15	33	32	312	6002ZZ	RTWN32	
	17	34	35	318	6003ZZ	RTWN35	
	20	34	37	312	6904ZZ	RTWN37	

Notes

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

Ordering Example Part Number DPQKB12


Components Selection List for Digital Position Indicators Large

Digital Position Indicators Large (P811)			Clamp Plate		Lead Screw (P801-P807)				
Color	Type	Display Digit, Rotating Direction	Spindle Pitch	Type	D	Shaft End Dia.		Screw Pitch	
						V, Q, R	E (1mm Increment)		
(Orange) (Silver)	R (5-Digit - Right Turn)	L (5-Digit - Left Turn)	3	DPQK	12	16	10, 12	Q/2 ≤ E ≤ Q-1 V/2 ≤ E ≤ V-1	3
					12	18	10, 12		
					12, 14, 15	20	10, 12, 14, 15		
					12, 14, 15	22	10, 12, 14, 15		
					12, 14, 15, 16, 17	25	12, 14, 15, 16, 17		
					14, 15, 16, 17, 20	28	14, 15, 16, 17, 20		
	L (5-Digit - Left Turn)	5	5	DPQKB	14, 15, 16, 17, 20	32	14, 15, 16, 17, 20	Q/2 ≤ E ≤ Q-1 V/2 ≤ E ≤ V-1	5
					17, 20	36	17, 20		
					20	40	20		
					12	16	10, 12		
					12, 14, 15	20	10, 12, 14, 15		
					12, 14, 15, 16, 17	25	12, 14, 15, 16, 17		

For shaft end dia. 20 of Lead Screws, collar is not necessary. D dimension of DPQKB is 12, 15, 17 and 20 only.

Standard Lever

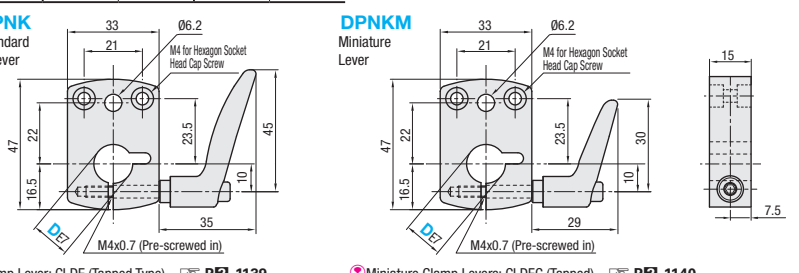
Miniature Lever



RoHS

Type	Main Body	Clamp Lever
	M Material S Surface Treatment	M Material S Surface Treatment
DPNK DPNKM	Aluminum Alloy Black Anodize	Zinc Diecast Baked Paint

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.



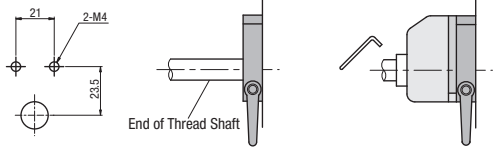
M4 for Hexagon Socket Head Cap Screw

M4x0.7 (Pre-screwed in)

Part Number Type	D	Mass (g)	Unit Price
Standard Lever DPNK Miniature Lever DPNKM	8	86	77
	10	85	76
	12	83	74
	14	81	72

How to Mount


- Drill a screw hole for mounting the clamp plate on the mating plate.
- Mount the clamp plate using the hex socket head cap screw.
- Make sure that the screw shaft is in the correct position and that the memory of the indicator is set at 0, fix it with the included set screw.



End of Thread Shaft

Ordering Example Part Number DPNK12 DPNKM10

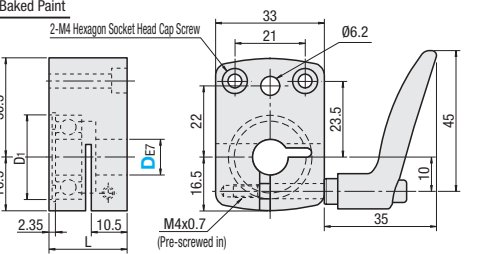
Bearing with Housing



RoHS

Type	Main Body	Clamp Lever
	M Material S Surface Treatment	M Material S Surface Treatment
DPNKB	Aluminum Alloy Black Anodize	Zinc Diecast Baked Paint

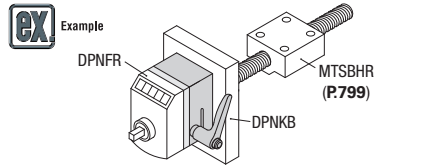
Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.



M4 Hexagon Socket Head Cap Screw

M4x0.7 (Pre-screwed in)

Part Number Type	D	L	D1	Mass (g)	Bearing	Retaining Ring	Unit Price
DPNKB	8	23	22	130	608ZZ	RTWN22	
	10	24	26	133	6000ZZ	RTWN26	
	12	24	28	132	6001ZZ	RTWN28	



Features of Bearing with Housing

The combination of the stopper plate and bearing in one piece, providing superior space-saving design.

Ordering Example Part Number DPNKB12

Components Selection List for Digital Position Indicators Compact

Digital Position Indicators Compact (P812)			Clamp Plate		Lead Screw (P801-P807)					
Color	Type	Display Digit, Rotating Direction	Spindle Pitch	Type	D	Shaft End Dia.		Screw Pitch		
						V, Q, R	E (1mm Increment)			
(Orange) (Silver)	R (4-Digit - Right Turn)	L (4-Digit - Left Turn)	2	DPNK DPNKM DPNKB	8	12	6, 8	Q/2 ≤ E ≤ Q-1 V/2 ≤ E ≤ V-1	2	
					8, 10	14	8, 10			
					10, 12	16	10, 12			
					10, 12	18	10, 12			
					10, 12, 14	20	10, 12, 14			
					10, 12, 14	22	10, 12, 14			
	L (5-Digit - Right Turn)	5	5	5	DPNK DPNKM DPNKB	12, 14	25	12, 14	Q/2 ≤ E ≤ Q-1 V/2 ≤ E ≤ V-1	5
						14	28	14		
						14	32	14		
						14	36	14		
						14	40	14		
						14	44	14		

For shaft end dia. 14 of Lead Screws, collar is not necessary. D dimension of DPNKB is 8, 10 and 12 only. For shaft end dia. V/Q/R 6 of Lead Screws are applicable only to One End Stepped and Both Ends Stepped Type. E for shaft end dia. is applicable to only following types: One End Double Stepped / One End Stepped, One End Double Stepped / Both Ends Double Stepped.

Stop Plate Sets for Lead Screws

Bearing Type

Stop Plate Sets - Flanged, Bearing

Type	Material	Surface Treatment	Bearing
MTQDB	SS400	Black Oxide	Radial Bearing
MTQDM		Electroless Nickel Plating	

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

Features
 - Rotation stopper clamp and a bearing are integrated for space saving designs.
 - Clamp Lever: CLDM5 P.1139
 - Radial Bearing: JIS B 15140 Class

RoHS

Part Number Type	d	L	L1	D	H	T	B	d1	X	b	W	P1	F	G	Clamp Lever	Bearing No.	Unit Price	
																	MTQDB	MTQDM
10	10	25	14	30	48	5	10	4.5	9	4	32	33	23	16	CLDM5-16-M	6900ZZ		
12	12	25	14	32	50	6	10	4.5	10	5	34	35	25	18	CLDM5-16-M	6901ZZ		
15	15	28	17	35	56	6	10	5.5	11.5	6	37	37	27	21	CLDM5-20-M	6902ZZ		
20	20	28	17	40	64	8	10	6.6	14	8	42	43	30	27	CLDM5-25-M	6804ZZ		

Stop Plate Set - Round Flanged

Type	Material	Surface Treatment	Accessory
MTQAB	SS400	Black Oxide	Clamp Lever
MTQAM		Electroless Nickel Plating	

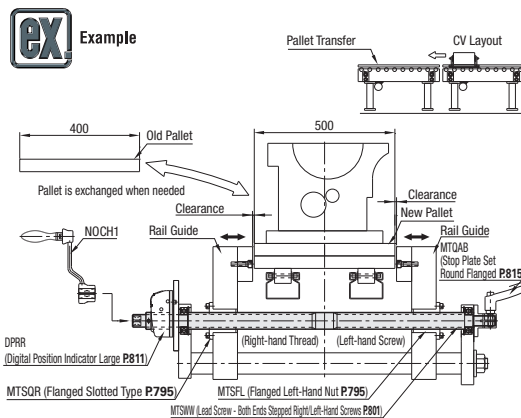
Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

RoHS

Part Number Type	DH7	A	B	C	H	h	P	d	T	L	K	Clamp Lever	Unit Price	
													MTQAB	MTQAM
8	+0.015	32	13	9	24	18	23	4.5	4	12	9	CLDM6-12-M		
10	0	36	15	10	25	18	26	4.5	4	16	9	CLDM6-16-M		
12	+0.018	38	17	11	27	20	28	5.5	5	16	11	CLDM6-16-M		
15	0	41	21	12	29	21	32	5.5	6	20	12	CLDM6-20-M		
20	+0.021	50	26	15	34	25	39	6.6	8	25	16	CLDM6-25-M		

DH7 tolerance is measured before slit machining. For Clamp Lever P.1139

Ordering Example
 Part Number
 Example MTQDB12



Notes
 Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

Stop Plate Sets for Lead Screws

Stop Plate Set - 2-Screw Mount Type

Type	Material	Surface Treatment	Accessory
MTSWB	SS400	Black Oxide	Clamp Lever
MTSWM		Electroless Nickel Plating	
MTTBB			
MTTBM			

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

RoHS

Part Number Type	D	P	Side Handle 2-Screw Type				Top Handle 2-Screw Type				d	Side Handle 2-Screw Type	Top Handle 2-Screw Type	Unit Price						
			A	B	C	E	G	X	A1	B1				C	E1	G1	J	Lever	MTSWB	MTSWM
8	8	20	43	25	14	17	12	5	33	32	14	8	11	16	5.5	CLDM6-16-M				
10	10	20	43	25	14	17	12	4	34	32	14	8	11	20	6.5	CLDM6-25-M				
12	12	20	44	32	20	18	13	3	35	38	20	11	13	6.5	CLDM6-20-M					
15	15	30	56	38	26	20	15	4.7	37	44	26	14	15	25	6.5	CLDM6-32-M				
20	20	30	59	28	23	18	1.3	54	50	28	18	18	32	6.5	CLDM6-25-M					
25	25	30	61	44	30	25	20	1.2	57	50	30	21	20	6.5	CLDM6-32-M					
30	30	30	61	44	30	25	20	1.2	57	50	30	21	20	6.5	CLDM6-40-M					

For Clamp Lever P.1139

Stop Plate Set

Type	Material	Surface Treatment	Accessory
MTSBB	SS400	Black Oxide	Clamp Lever
MTSBM		Electroless Nickel Plating	

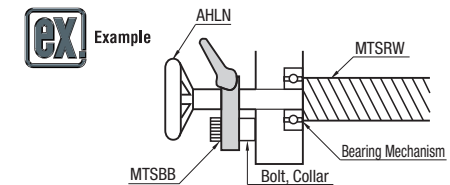
Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.

RoHS

Part Number Type	DH7	P	A	B	d	E	F	G	T	d1	M	H	H1	R	(h)	S	Lever	Unit Price		
																		MTSBB	MTSBM	
8	+0.015	20 30 40	P+26	12	16	9												CLDM6-12-M		
10	0	20 30 40	P+27	16	17	10												CLDM6-16-M		
12	+0.018	20 30 40	P+28	6.5	18	11	16	6.5	M6	35	38.5	45	25.8	4				CLDM6-20-M		
15	0	20 30 40	P+29	22	19	12												CLDM6-25-M		
17	+0.021	30 40 50	P+30	20	20	13												CLDM8-32-M		
20	0	30 40 50	P+37	25	25	16												CLDM8-32-M		
25	+0.025	30 40 50	P+39	32	27	18												CLDM8-32-M		
30	0	30 40 50	P+42	38	9.0	30	12	19	9.0	M8	45.5	49	63	32.3	7			CLDM8-40-M		
*35			P+44	44	32	23														
*40			P+47	44	35	26														

DH7 tolerance is measured before slit machining. For Clamp Lever P.1139

Ordering Example
 Part Number - P
 Example MTSWB15 - 30



For Bearing Units, see P.791.
 Available as standard specification and reduces the time of assembling the unit.

Notes
 Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.