

LOCK NUT & POWER LOCK

Miracle Performance Technology by **YHB**

We Do Not Merely Produce Products,
But Provide Solution for Customers.



LOCK NUT ZM Type

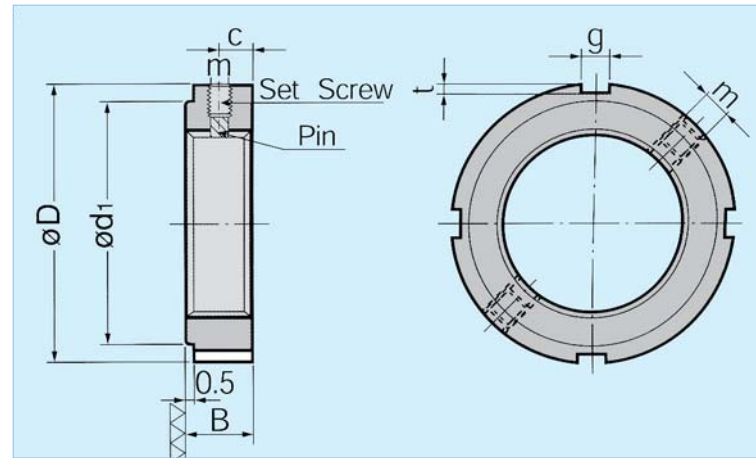


LOCK NUT ZMV Type

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0,002\sim 0,015$

1. Keeps a good balance thanks to the equal interval fluting of lock pin and hook spanner slots.
2. Because improving the smoothness and flatness through the lapping process it is fit for the shaft built up which requires a high fixing degree.



Dimensions (mm)

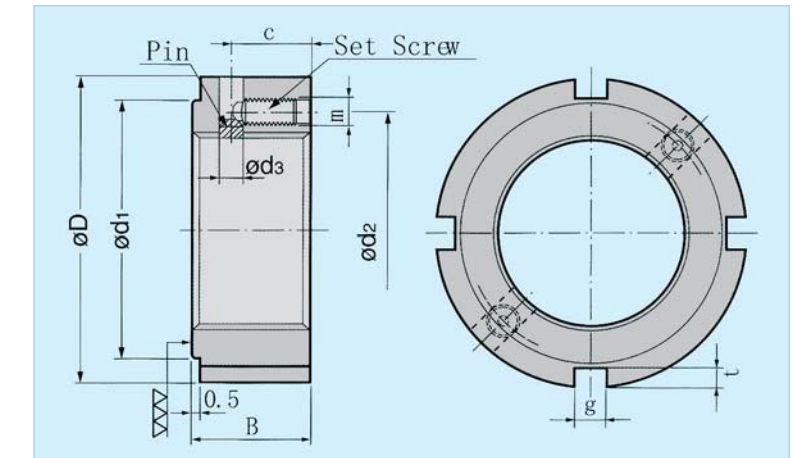
PART NO.	THREAD & PITCH	Dimensions								Axial Load (kN)	Set Screws (Nm)	Weight (g)
		ø D	B	g	t	ø d1	c	m				
ZM 8	M 8 × 0.75	16	8	3	2	12	4	M4	18	2	4	
ZM 10	M 10 × 1	18	8	3	2	14	4	M4	22	3.5	8	
ZM 12	M 12 × 1	22	8	3	3	16	4	M4	26	3.5	14	
ZM 15	M 15 × 1	25	8	3	3	19	4	M4	33	3.5	16	
ZM 17	M 17 × 1	28	10	4	3	21	5	M5	49	4.5	24	
ZM 20	M 20 × 1	32	10	4	3	25	5	M5	55	4.5	34	
ZM 25	M 25 × 1.5	38	12	5	3	31	6	M6	87	8	54	
ZM 30	M 30 × 1.5	45	12	5	3	38	6	M6	110	8	76	
ZM 35	M 35 × 1.5	52	12	5	3	45	6	M6	120	8	102	
ZM 40	M 40 × 1.5	58	14	6	3	50	7	M6	150	8	144	
ZM 45	M 45 × 1.5	65	14	6	3	56	7	M6	170	8	180	
ZM 50	M 50 × 1.5	70	14	6	3	61	7	M6	180	8	196	
ZM 55	M 55 × 2	75	16	7	4	66	8	M6	250	8	240	
ZM 60	M 60 × 2	80	16	7	4	70	8	M6	270	8	262	
ZM 65	M 65 × 2	85	16	7	4	76	8	M6	290	8	282	
ZM 70	M 70 × 2	92	18	8	4	82	9	M8	350	18	378	
ZM 75	M 75 × 2	98	18	8	4	87	9	M8	370	18	422	
ZM 80	M 80 × 2	105	18	8	4	92	9	M8	390	18	492	
ZM 85	M 85 × 2	110	18	8	4	99	9	M8	400	18	524	
ZM 90	M 90 × 2	120	20	10	4	105	10	M8	470	18	750	
ZM 95	M 95 × 2	125	20	10	4	110	10	M8	490	18	782	
ZM 100	M 100 × 2	130	20	10	4	116	10	M8	510	18	826	
ZM 105	M 105 × 2	140	22	12	5	122	11	M10	560	35	1,108	
ZM 110	M 110 × 2	145	22	12	5	129	11	M10	600	35	1,164	
ZM 120	M 120 × 2	155	24	12	5	136	12	M10	710	35	1,378	
ZM 130	M 130 × 2	165	24	12	5	145	12	M10	760	35	1,480	
ZM 140	M 140 × 2	180	26	14	6	156	13	M12	880	60	1,958	
ZM 150	M 150 × 2	195	26	14	6	167	13	M12	930	60	2,404	
ZM 160	M 160 × 3	210	28	16	7	178	14	M12	980	60	3,080	
ZM 170	M 170 × 3	220	28	16	7	189	14	M12	1,130	60	3,256	
ZM 180	M 180 × 3	230	30	18	8	199	15	M12	1,300	60	3,628	
ZM 190	M 190 × 3	240	30	18	8	210	15	M12	1,470	60	3,928	
ZM 200	M 200 × 3	250	32	18	8	222	16	M12	1,600	60	4,330	

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0,002\sim 0,015$

Advantages

Adapt it when it is impossible to build up toward circumference direction



Dimensions (mm)

PART NO.	THREAD & PITCH	Dimensions									Axial Load (kN)	Set Screws (Nm)	Weight (g)
		ø D	B	g	t	ø d1	ø d2	ø d3	c	m			
ZMV 17	M 17 × 1	28	15	4	2.5	21	22.5	3.3	10	M4	49	3.5	24
ZMV 20	M 20 × 1	32	15	4	3	25	26	3.3	10	M4	55	3.5	34
ZMV 25	M 25 × 1.5	38	17	5	3	31	31.5	4.2	11	M5	87	4.5	54
ZMV 30	M 30 × 1.5	45	17	5	3	38	37.5	4.2	11	M5	110	4.5	76
ZMV 35	M 35 × 1.5	52	17	5	3	45	43.5	4.2	11	M5	120	4.5	102
ZMV 40	M 40 × 1.5	58	19	6	3	50	49	5	12	M6	150	8	144
ZMV 45	M 45 × 1.5	65	19	6	3	56	55	5	12	M6	170	8	180
ZMV 50	M 50 × 1.5	70	19	6	3	61	60	5	12	M6	180	8	196
ZMV 55	M 55 × 2	75	21	7	4	66	65	5	13	M6	250	8	240
ZMV 60	M 60 × 2	80	21	7	4	70	70	5	13	M6	270	8	262
ZMV 65	M 65 × 2	85	21	7	4	76	75	5	13	M6	290	8	282
ZMV 70	M 70 × 2	92	23	8	4	82	81	6.2	14	M8	350	18	378
ZMV 75	M 75 × 2	98	23	8	4	87	87	6.2	14	M8	370	18	422
ZMV 80	M 80 × 2	105	23	8	4	92	93	6.2	14	M8	390	18	492
ZMV 85	M 85 × 2	110	23	8	4	99	98	6.2	14	M8	400	18	524
ZMV 90	M 90 × 2	120	25	10	4	105	105	6.2	15	M8	470	18	750
ZMV 95	M 95 × 2	125	25	10	4	110	110	6.2	15	M8	490	18	782
ZMV 100	M 100 × 2	130	25	10	4	116	115	6.2	15	M8	510	18	826
ZMV 105	M 105 × 2	140	27	12	5	122	123	7.9	16	M10	560	35	1,108
ZMV 110	M 110 × 2	145	27	12	5	129	128	7.9	16	M10	600	35	1,164
ZMV 120	M 120 × 2	155	29	12	5	136	138	7.9	17	M10	710	35	1,378
ZMV 130	M 130 × 2	165	29	12	5	147	148	7.9	17	M10	760	35	1,480
ZMV 140	M 140 × 2	180	31	14	6	156	160	9.6	18	M12	880	60	1,958
ZMV 150	M 150 × 2	195	31	14	6	167	173	9.6	18	M12	930	60	2,404
ZMV 160	M 160 × 3	210	33	16	7	178	185	9.6	19	M12	980	60	3,080
ZMV 170	M 170 × 3	220	33	16	7	189	195	9.6	19	M12	1,130	60	3,256
ZMV 180	M 180 × 3	230	35	18	8	199	205	9.6	20	M12	1,300	60	3,628
ZMV 190	M 190 × 3	240	35	18	8	210	215	9.6	20	M12	1,470	60	3,928
ZMV 200	M 200 × 3	250	37	18	8	222	225	9.6	21	M12	1,600	60	4,330

LOCK NUT YZM Type



LOCK NUT SLN Type

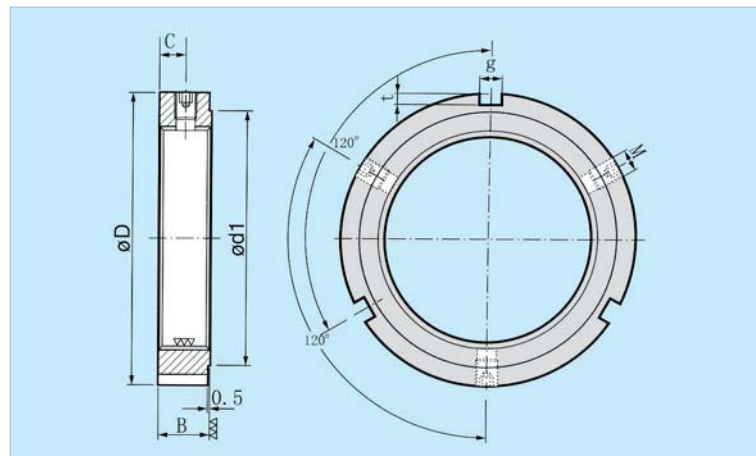
Features

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- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$



Advantages

1. Three locking pins located in equal intervals enable the nut to be assembled with the shaft at an appropriate angle and adjust the deviation properly.
2. No need for a lock washer or fluting of shaft key.



Dimensions(mm)

PART NO.	THREAD & PITCH	Dimensions								Axial Load (kN)	Set Screws (Nm)	Weight (g)
		ø D	B	g	t	ø d ₁	c	m				
YZM 12	M 12 × 1.0	22	8	3	3	16	4	M4	26	35	14	
YZM 15	M 15 × 1.0	25	8	3	3	19	4	M4	33	35	16	
YZM 17	M 17 × 1.0	28	10	4	3	21	5	M5	49	45	24	
YZM 20	M 20 × 1.0	32	10	4	3	25	5	M5	55	45	34	
YZM 25	M 25 × 1.5	38	12	5	3	31	6	M6	87	8	54	
YZM 30	M 30 × 1.5	45	12	5	3	38	6	M6	110	8	76	
YZM 35	M 35 × 1.5	52	12	5	3	45	6	M6	120	8	102	
YZM 40	M 40 × 1.5	58	14	6	3	50	7	M6	150	8	144	
YZM 45	M 45 × 1.5	65	14	6	3	56	7	M6	170	8	180	
YZM 50	M 50 × 1.5	70	14	6	3	61	7	M6	180	8	196	
YZM 55	M 55 × 2.0	75	16	7	4	66	8	M6	250	8	240	
YZM 60	M 60 × 2.0	80	16	7	4	70	8	M6	270	8	262	
YZM 65	M 65 × 2.0	85	16	7	4	76	8	M6	290	8	282	
YZM 70	M 70 × 2.0	92	18	8	4	82	9	M8	350	18	378	
YZM 75	M 75 × 2.0	98	18	8	4	87	9	M8	370	18	422	
YZM 80	M 80 × 2.0	105	18	8	4	92	9	M8	390	18	492	
YZM 85	M 85 × 2.0	110	18	8	4	99	9	M8	400	18	524	
YZM 90	M 90 × 2.0	120	20	10	4	105	10	M8	470	18	750	
YZM 95	M 95 × 2.0	125	20	10	4	110	10	M8	490	18	782	
YZM 100	M 100 × 2.0	130	20	10	4	116	10	M8	510	18	826	
YZM 105	M 105 × 2.0	140	22	12	5	122	11	M10	560	35	1,108	
YZM 110	M 110 × 2.0	145	22	12	5	129	11	M10	600	35	1,164	
YZM 120	M 120 × 2.0	155	24	12	5	136	12	M10	710	35	1,378	
YZM 130	M 130 × 2.0	165	24	12	5	145	12	M10	760	35	1,480	
YZM 140	M 140 × 2.0	180	26	14	6	156	13	M12	880	60	1,958	
YZM 150	M 150 × 2.0	195	26	14	6	167	13	M12	930	60	2,404	
YZM 160	M 160 × 3.0	210	28	16	7	178	14	M12	980	60	3,080	
YZM 170	M 170 × 3.0	220	28	16	7	189	14	M12	1,130	60	3,256	
YZM 180	M 180 × 3.0	230	30	18	8	199	15	M12	1,300	60	3,628	
YZM 190	M 190 × 3.0	240	30	18	8	210	15	M12	1,470	60	3,928	
YZM 200	M 200 × 3.0	250	32	18	8	222	16	M12	1,600	60	4,330	

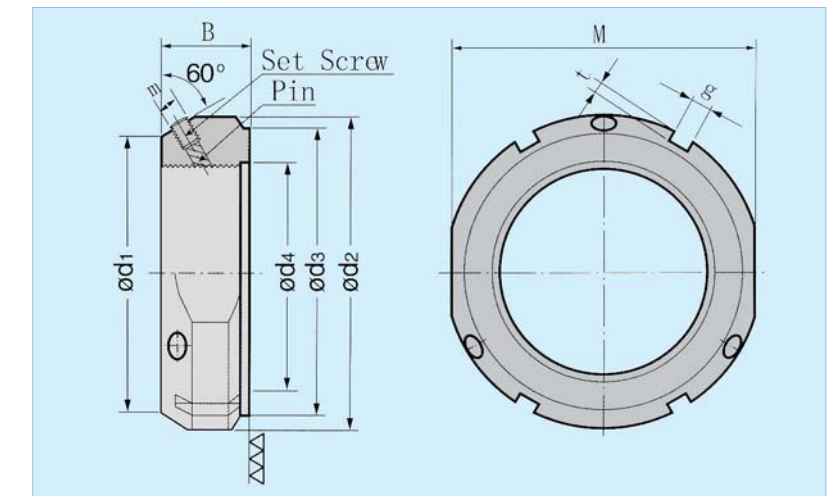
Features

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- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$



Advantages

1. Three locking pins located in equal intervals enable the nut to be assembled with the shaft at an appropriate angle and adjust the deviation properly.
2. No need for a lock washer or fluting of shaft key.



Dimensions(mm)

PART NO.	THREAD & PITCH	Dimensions								Set Screws		Axial Load (kN)	Weight (g)
		ø d ₁	ø d ₂	ø d ₃	ø d ₄	B	g	t	M	m	Torque(Nm)		
SLN 02	M 15 × 1	26	33	25	16	16	4	2.5	30	M5	4.5	60	75
SLN 03	M 17 × 1	29	37	30	18	18	5	2.5	34	M6	8	80	100
SLN 04	M 20 × 1	32	40	32	21	18	5	2.5	36	M6	8	90	110
SLN 05	M 25 × 1.5	36	44	36	26	20	5	2.5	41	M6	8	130	130
SLN 06	M 30 × 1.5	41	49	41	31	20	5	2.5	46	M6	8	160	160
SLN 07	M 35 × 1.5	46	54	46	36	22	5	2.5	50	M6	8	190	190
SLN 08	M 40 × 1.5	56	65	56	41	22	6	3	60	M6	8	210	300
SLN 09	M 45 × 1.5	61	70	61	47	22	6	3	65	M6	8	240	330
SLN 10	M 50 × 1.5	65	75	65	51	25	7	3	70	M6	8	300	400
SLN 11	M 55 × 2	74	85	75	57	25	7	3	80	M8	18	340	540
SLN 12	M 60 × 2	78	90	79	62	26	8	4	85	M8	18	380	610
SLN 13	M 65 × 2	83	95	84	67	28	8	4	90	M8	18	460	710
SLN 14	M 70 × 2	88	100	89	72	28	8	4	95	M8	18	490	750
SLN 15	M 75 × 2	93	105	94	77	28	8	4	100	M8	18	520	800
SLN 16	M 80 × 2	98	110	96	82	32	8	4	100	M8	18	620	900
SLN 17	M 85 × 2	107	120	106	87	32	10	4	110	M10	35	650	1,150
SLN 18	M 90 × 2	112	125	111	92	32	10	4	115	M10	35	680	1,200
SLN 19	M 95 × 2	117	130	116	97	32	10	4	120	M10	35	710	1,250
SLN 20	M 100 × 2	122	135	121	102	32	10	4	125	M10	35	740	1,300
SLN 22	M 110 × 2	132	145	130	112	32	10	4	135	M10	35	800	1,450
SLN 24	M 120 × 2	142	155	140	122	32	10	4	145	M10	35	860	1,600
SLN 26	M 130 × 2	152	165	150	132	32	12	5	155	M10	35	920	1,700
SLN 28	M 140 × 2	162	175	160	142	32	14	6	165	M10	35	980	1,800
SLN 30	M 150 × 2	172	185	170	152	32	14	6	175	M10	35	1,040	1,950
SLN 32	M 160 × 3	182	195	180	162	32	14	6	-	M10	35	1,100	2,100
SLN 34	M 170 × 3	192	205	190	172	32	14	6	-	M10	35	1,160	2,200
SLN 36	M 180 × 3	202	215	200	182	32	16	7	-	M10	35	1,220	2,300
SLN 38	M 190 × 3	212	225	210	192	32	16	7	-	M10	35	1,280	2,400
SLN 40	M 200 × 3	222	235	220	202	32	18	8	-	M10	35	1,340	2,500

LOCK NUT SWLN Type



LOCK NUT YAN Type

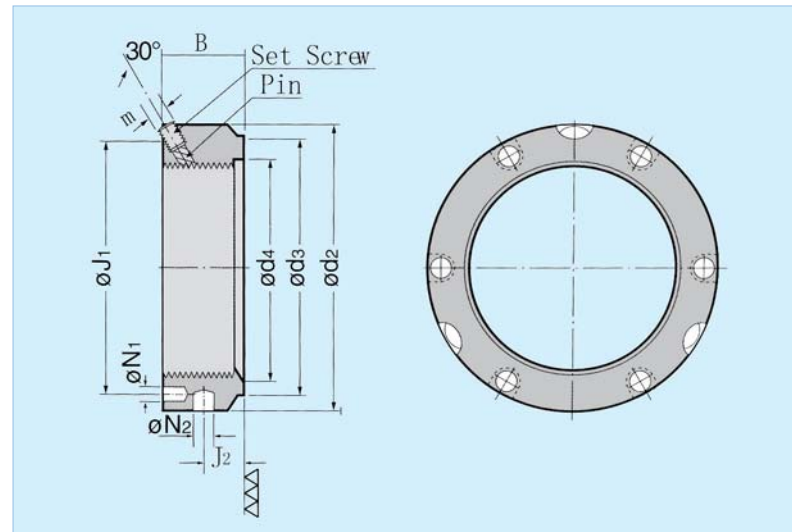
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$



Advantages

1. Able to adjust deviation by erecting a nut with locking pins located at three equal intervals.
2. No need for a lock washer or fluting of shaft key.



Dimensions(mm)

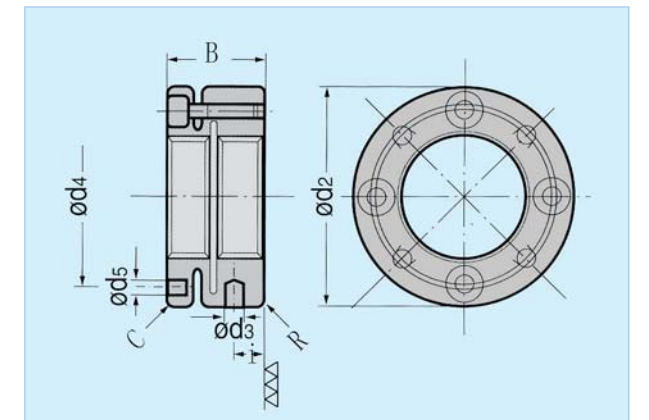
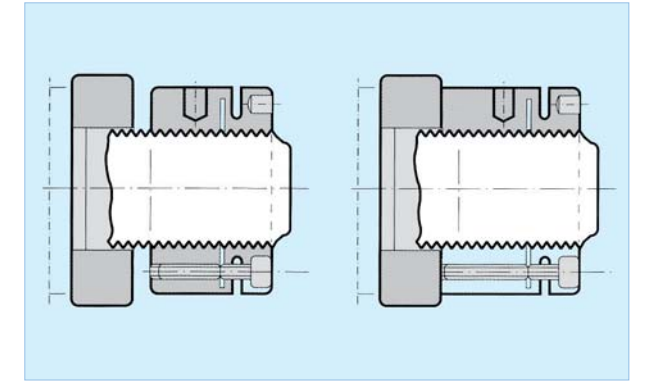
PART NO.	THREAD & FITCH	Dimensions								Set Screws	Axial Load (KN)	Weight (g)	
		ϕd_2	ϕd_3	ϕd_4	B	ϕJ_1	J_2	ϕN_1	ϕN_2				m
SWLN04	M 20 x 1.0	38	30	21	18	29	10	4.3	4	M6	8	110	100
SWLN05	M 25 x 1.5	42	35	26	20	32.5	11	4.3	4	M6	8	130	120
SWLN06	M 30 x 1.5	48	40	31	20	40.5	11	4.3	5	M6	8	160	150
SWLN07	M 35 x 1.5	53	47	36	20	45.5	11	4.3	5	M6	8	190	180
SWLN08	M 40 x 1.5	58	52	41	22	50.5	12	4.3	5	M6	8	210	210
SWLN09	M 45 x 1.5	68	58	46	22	58	12	4.3	6	M6	8	240	300
SWLN10	M 50 x 1.5	70	63	51	24	61.5	13	4.3	6	M6	8	300	310
SWLN11	M 55 x 1.5	75	70	57	24	66.5	13	4.3	6	M6	8	340	350
SWLN12	M 60 x 1.5	84	75	62	24	74.5	13	5.3	6	M6	8	380	450
SWLN13	M 65 x 1.5	88	80	67	25	78.5	13	5.3	6	M6	8	460	480
SWLN14	M 70 x 1.5	95	86	72	26	85	14	5.3	8	M8	18	490	570
SWLN15	M 75 x 1.5	100	91	77	26	88	13	6.4	8	M8	18	520	610
SWLN16	M 80 x 2	110	97	82	30	95	16	6.4	8	M8	18	620	910
SWLN17	M 85 x 2	115	102	87	32	100	17	6.4	8	M10	35	650	1,050
SWLN18	M 90 x 2	120	110	92	32	108	17	6.4	8	M10	35	680	1,100
SWLN19	M 95 x 2	125	114	97	32	113	17	6.4	8	M10	35	710	1,150
SWLN20	M 100 x 2	130	120	102	32	118	17	6.4	8	M10	35	740	1,200
SWLN22	M 110 x 2	140	132	112	32	128	17	6.4	8	M10	35	800	1,350
SWLN24	M 120 x 2	155	142	122	32	140	17	6.4	8	M10	35	860	1,700
SWLN26	M 130 x 3	165	156	132	32	153	17	6.4	8	M10	35	920	1,900
SWLN28	M 140 x 3	180	166	142	32	165	17	6.4	10	M10	35	980	2,250
SWLN30	M 150 x 3	190	180	152	32	175	17	6.4	10	M10	35	1,040	2,450
SWLN32	M 160 x 3	205	190	162	32	185	17	8.4	10	M10	35	1,100	2,900
SWLN34	M 170 x 3	215	205	172	32	195	17	8.4	10	M10	35	1,160	3,150
SWLN36	M 180 x 3	230	215	182	32	210	17	8.4	10	M10	35	1,220	3,650
SWLN38	M 190 x 3	240	225	192	32	224	17	8.4	10	M10	35	1,280	3,850
SWLN40	M 200 x 3	245	237	202	32	229	17	8.4	10	M10	35	1,340	3,700

Features

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- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$

Advantages

1. Preload and tension can be adjusted.
2. Tolerable with vibration, (shake, oscillation)
3. Locking washers, slots in the shaft are not needed.



Dimensions(mm)

PART NO.	Dimensions						Holes	Tight bolt			Rebase Torque (kgf-m)	Allowable Axial Load (kgf-m)	Weight (g)
	ϕd_2	ϕd_3	ϕd_4	ϕd_5	B	i		Thread & Length	Boits	Torque(kgfm)			
YAN 16 x 1.5	34	4	24.5	4.3	18	4.5	4	M4 x 12	4	0.29	340	22	80
YAN 18 x 1.5	36	4	26.5	4.3	18	4.5	4	M4 x 12	4	0.29	370	24	87
YAN 20 x 1.5	40	4	30.5	4.3	18	4.5	4	M4 x 12	4	0.29	400	27	107
YAN 22 x 1.5	40	4	30.5	4.3	18	4.5	4	M4 x 12	4	0.29	420	30	100
YAN 24 x 1.5	42	4	32.5	4.3	18	4.5	4	M4 x 12	4	0.29	440	33	107
YAN 25 x 1.5	45	5	36.5	4.3	20	6.0	4	M4 x 12	4	0.29	450	45	137
YAN 28 x 1.5	46	5	38.5	4.3	20	6.0	4	M4 x 12	4	0.29	480	50	136
YAN 30 x 1.5	48	5	40.5	4.3	20	6.0	4	M4 x 12	4	0.29	500	55	141
YAN 32 x 1.5	50	5	42.5	4.3	22	7	4	M4 x 16	4	0.29	520	61	163
YAN 35 x 1.5	53	5	45.5	4.3	22	7	4	M4 x 16	4	0.29	550	62	175
YAN 38 x 1.5	58	5	48.5	4.3	22	7	4	M4 x 16	4	0.29	580	72	212
YAN 40 x 1.5	58	5	50.5	4.3	22	7	4	M4 x 16	4	0.29	600	63	185
YAN 42 x 1.5	60	5	52.5	4.3	22	7	4	M4 x 16	4	0.29	620	63	204
YAN 45 x 1.5	68	6	58	4.3	22	6.0	6	M4 x 16	6	0.29	1,070	80	288
YAN 48 x 1.5	68	6	59.5	4.3	25	9	6	M4 x 18	6	0.29	1,130	90	294
YAN 50 x 1.5	70	6	61.5	4.3	25	9	6	M4 x 18	6	0.29	1,250	90	303
YAN 52 x 1.5	72	6	63.5	4.3	25	9	6	M4 x 18	6	0.29	1,300	90	314
YAN 55 x 1.5	75	6	66.5	4.3	25	9	6	M4 x 18	6	0.29	1,410	90	327
YAN 58 x 1.5	82	6	72.5	5.3	26	9	6	M5 x 18	6	0.6	2,100	158	446
YAN 60 x 1.5	84	6	74.5	5.3	26	9	6	M5 x 18	6	0.6	2,200	159	479
YAN 62 x 1.5	86	6	76.5	5.3	28	10.5	6	M5 x 20	6	0.6	2,310	180	505
YAN 65 x 1.5	88	6	78.5	5.3	28	10.5	6	M5 x 20	6	0.6	2,470	170	500
YAN 68 x 1.5	95	8	83	5.3	28	9.5	6	M5 x 20	6	0.6	2,620	215	625
YAN 70 x 1.5	95	8	85	5.3	28	9.5	6	M5 x 20	6	0.6	2,730	200	536
YAN 72 x 1.5	98	8	86	6.4	28	8.5	6	M5 x 20	6	1.0	3,640	158	626
YAN 75 x 1.5	100	8	88	6.4	28	8.5	6	M5 x 20	6	1.0	3,750	200	623
YAN 80 x 2.0	110	8	95	6.4	32	11	6	M6 x 22	6	1.0	3,900	169	580
YAN 85 x 2.0	115	8	100	6.4	32	11	6	M6 x 22	6	1.0	4,000	167	963
YAN 90 x 2.0	120	8	108	6.4	32	11	6	M6 x 22	6	1.0	4,200	255	1,020
YAN 95 x 2.0	125	8	113	6.4	32	11	6	M6 x 22	6	1.0	4,350	282	1,050
YAN 100 x 2.0	130	8	118	6.4	32	11	6	M6 x 22	6	1.0	4,500	288	1,100
YAN 105 x 2.0	135	8	123	6.4	32	11	6	M6 x 22	6	1.0	4,650	270	1,150
YAN 110 x 2.0	140	8	128	6.4	32	11	6	M6 x 22	6	1.0	4,800	280	1,210
YAN 115 x 2.0	145	8	133	6.4	36	13	6	M6 x 25	6	1.0	4,950	325	1,430
YAN 120 x 2.0	155	8	140	6.4	36	13	6	M6 x 25	6	1.0	5,100	403	1,740
YAN 125 x 2.0	160	8	148	6.4	36	13	6	M6 x 25	6	1.0	5,250	410	1,820
YAN 130 x 3.0	165	8	153	6.4	36	13	6	M6 x 25	6	1.0	5,450	400	1,940
YAN 140 x 3.0	180	10	165	6.4	36	12	8	M6 x 25	8	1.0	5,700	472	2,335
YAN 150 x 3.0	190	10	175	6.4	36	12	8	M6 x 25	8	1.0	6,000	485	2,480
YAN 160 x 3.0	205	10	185	8.4	40	14	8	M8 x 30	8	2.5	6,300	550	3,380
YAN 170 x 3.0	215	10	195	8.4	40	14	8	M8 x 30	8	2.5	6,650	555	3,580
YAN 180 x 3.0	230	10	210	8.4	40	14	8	M8 x 30	8	2.5	7,000	640	4,110
YAN 190 x 3.0	240	10	224	8.4	40	14	8	M8 x 30	8	2.5	7,300	650	4,330
YAN 200 x 3.0	245	10	229	8.4	40	14	8	M8 x 30	8	2.5	7,600	570	4,410

LOCK NUT YHB Type



LOCK NUT HB Type

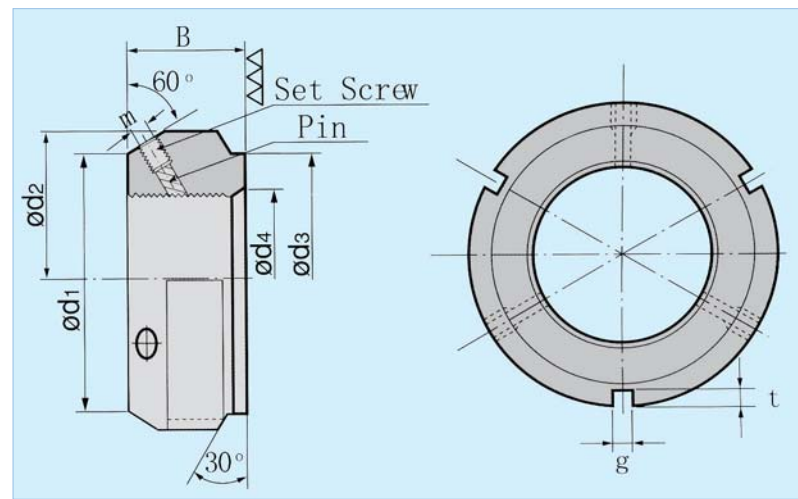
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0,002\sim 0,015$



Advantages

1. Thanks to enhanced flatness and roughness of reference plane by lapping work, YHB type fits in shaft build-up which requires high fixing degree.
2. Three locking pins located in equal intervals enable the nut to be assembled with the shaft exactly at the appropriate angle and adjust the deviation properly.
3. Keeps a good balance thanks to the equal interval fluting of lock pin and hook spanner.



Dimensions (mm)

PART NO	THREAD & PITCH	Dimensions								Axial Load (kN)	Set Screws (Nm)	Weight (g)
		ød1	ød2	ød3	ød4	B	g	t	m			
YHB 02	M 15 × 1	26	33	25	16	16	4	2,5	M5	60	4,5	85
YHB 03	M 17 × 1	29	37	30	18	18	5	2,5	M6	80	8	110
YHB 04	M 20 × 1	32	40	32	21	18	5	2,5	M6	90	8	120
YHB 05	M 25 × 1,5	36	44	36	26	20	5	2,5	M6	130	8	140
YHB 06	M 30 × 1,5	41	49	41	32	20	5	2,5	M6	160	8	180
YHB 07	M 35 × 1,5	46	54	46	38	22	5	2,5	M6	210	8	210
YHB 08	M 40 × 1,5	56	65	56	42	22	6	3	M6	240	8	330
YHB 09	M 45 × 1,5	61	70	61	48	22	6	3	M6	300	8	370
YHB 10	M 50 × 1,5	65	75	65	52	25	7	3	M6	340	8	450
YHB 11	M 55 × 2	74	85	75	58	25	7	3	M8	380	18	590
YHB 12	M 60 × 2	78	90	79	62	26	8	4	M8	460	18	670
YHB 13	M 65 × 2	83	95	84	68	28	8	4	M8	490	18	780
YHB 14	M 70 × 2	88	100	89	72	28	8	4	M8	520	18	830
YHB 15	M 75 × 2	93	105	94	77	28	8	4	M8	620	18	880
YHB 16	M 80 × 2	98	110	96	83	32	8	4	M8	650	18	990
YHB 17	M 85 × 2	107	120	106	88	32	10	4	M10	680	35	1,270
YHB 18	M 90 × 2	112	125	111	93	32	10	4	M10	710	35	1,320
YHB 19	M 95 × 2	117	130	116	98	32	10	4	M10	740	35	1,380
YHB 20	M 100 × 2	122	135	121	103	32	10	4	M10	800	35	1,430
YHB 22	M 110 × 2	132	145	130	112	32	10	4	M10	860	35	1,600
YHB 24	M 120 × 2	142	155	140	122	32	10	4	M10	920	35	1,760
YHB 26	M 130 × 2	152	165	150	132	32	12	5	M10	980	35	1,870
YHB 28	M 140 × 2	162	175	160	142	32	14	6	M10	1,040	35	1,980
YHB 30	M 150 × 2	172	185	170	152	32	14	6	M10	1,100	35	2,150
YHB 32	M 160 × 2	182	195	180	162	32	14	6	M10	1,160	35	2,350
YHB 34	M 170 × 2	192	205	190	172	32	14	6	M10	1,220	35	2,550
YHB 36	M 180 × 2	202	215	200	182	32	16	7	M10	1,280	35	2,640
YHB 40	M 200 × 2	222	235	220	202	32	18	8	M10	1,340	35	2,850

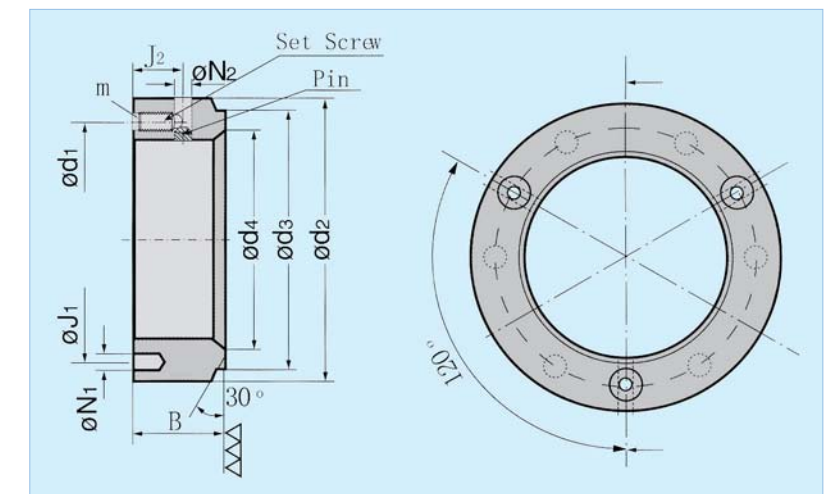
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0,002\sim 0,015$



Advantages

1. Thanks to enhanced flatness and roughness of reference plane by lapping work, YHB type fits in shaft build-up which requires high fixing degree.
2. Three locking pins located in equal intervals enable the nut to be assembled with the shaft exactly at the appropriate angle and adjust the deviation properly.
3. Keeps a good balance thanks to the equal interval fluting of lock pin and hook spanner.



Dimensions (mm)

PART NO	THREAD & PITCH	Dimensions										Axial Load (kN)	Set Screws (Nm)	Weight (g)
		ød1	ød2	ød3	ød4	B	øJ1	J2	øN1	øN2	m			
HB 05	M 25 × 1,5	33,5	42	35	26	20	32,5	11	4,3	5	M6	130	8	120
HB 06	M 30 × 1,5	39	48	40	32	20	40,5	11	4,3	5	M6	160	8	150
HB 07	M 35 × 1,5	44	53	47	38	20	45,5	11	4,3	5	M6	190	8	180
HB 08	M 40 × 1,5	49	58	52	42	22	50,5	12	4,3	5	M6	210	8	210
HB 09	M 45 × 1,5	56,5	68	58	48	22	58	12	4,3	5	M6	240	8	300
HB 10	M 50 × 1,5	60	70	63	52	24	61,5	12	4,3	5	M6	300	8	310
HB 11	M 55 × 1,5	65	75	70	58	24	66,5	13	4,3	5	M6	340	8	350
HB 12	M 60 × 1,5	72	84	75	62	24	74,5	13	5,3	5	M6	380	8	450
HB 13	M 65 × 1,5	76	88	80	68	25	78,5	13	5,3	5	M6	460	8	480
HB 14	M 70 × 1,5	83	95	86	72	26	85	14	5,3	7,9	M10	490	18	570
HB 15	M 75 × 1,5	88	100	91	77	26	88	13	6,4	7,9	M10	520	18	610
HB 16	M 80 × 2	96	110	97	83	30	95	16	6,4	7,9	M10	620	18	910
HB 17	M 85 × 2	100	115	102	88	32	100	17	6,4	9,6	M12	650	35	1,050
HB 18	M 90 × 2	105	120	110	93	32	108	17	6,4	9,6	M12	680	35	1,100
HB 19	M 95 × 2	110	125	114	98	32	113	17	6,4	9,6	M12	710	35	1,150
HB 20	M 100 × 2	115	130	120	103	32	118	17	6,4	9,6	M12	740	35	1,200
HB 22	M 110 × 2	128	140	132	112	32	128	17	6,4	9,6	M12	800	35	1,350
HB 24	M 120 × 2	138	155	142	122	32	140	17	6,4	9,6	M12	860	35	1,700
HB 26	M 130 × 3	148	165	156	132	32	153	17	6,4	9,6	M12	920	35	1,900
HB 28	M 140 × 3	160	180	166	142	32	165	17	6,4	9,6	M12	980	35	2,250
HB 30	M 150 × 3	173	195	180	152	32	175	17	6,4	9,6	M12	1,040	35	2,450
HB 32	M 160 × 3	182	205	190	162	32	185	17	8,4	9,6	M12	1,100	35	2,900
HB 34	M 170 × 3	192	215	205	172	32	195	17	8,4	9,6	M12	1,160	35	3,150
HB 36	M 180 × 3	205	230	215	182	32	210	17	8,4	9,6	M12	1,220	35	3,650
HB 38	M 190 × 3	215	240	225	192	32	224	17	8,4	9,6	M12	1,280	35	3,850
HB 40	M 200 × 3	223	245	237	202	32	229	17	8,4	9,6	M12	1,340	35	3,700

LOCK NUT YN Type

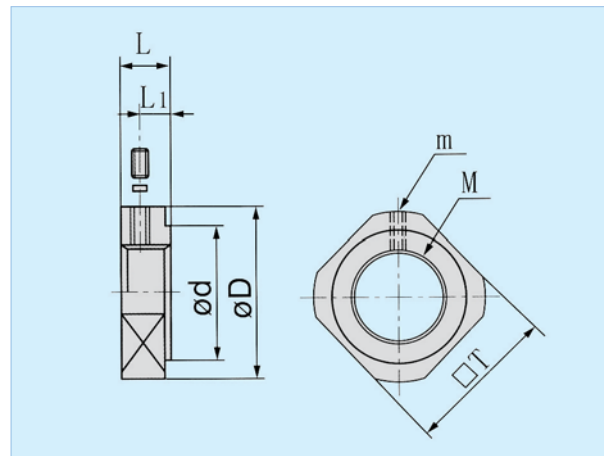
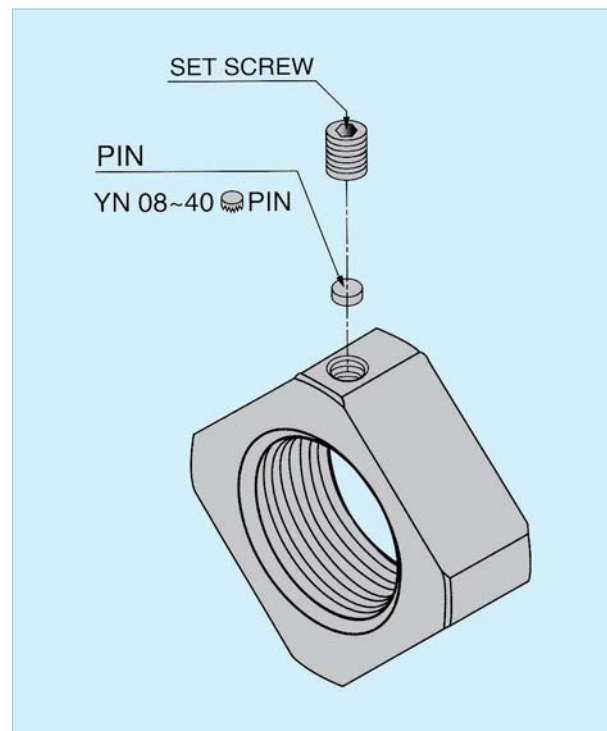


LOCK NUT BZM Type

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002 \sim 0.005$

YN is a suitable design for the low-load bearing supporter and is easy to be mount and dismount.



Dimensions(mm)

PART NO	M	m	øD	ød	L	L ₁	T
YN 08	M 8 × 1	M 3 × 0.5	17	13	65	4	14
YN 10	M 10 × 1	M 4 × 0.7	20	15	9	4.5	16
YN 12	M 12 × 1	M 4 × 0.7	22	17	9	4.5	19
YN 15	M 15 × 1	M 4 × 0.7	25	21	8	4	22
YN 17	M 17 × 1	M 4 × 0.7	30	25	13	6.5	26
YN 20	M 20 × 1	M 4 × 0.7	35	26	11	5.5	30
YN 25	M 25 × 1.5	M 5 × 0.8	43	33	15	7.5	35
YN 30	M 30 × 1.5	M 6 × 1.0	48	39	20	10	40
YN 35	M 35 × 1.5	M 8 × 1.25	60	46	21	10.5	50
YN 40	M 40 × 1.5	M 8 × 1.25	63	51	25	12.5	52

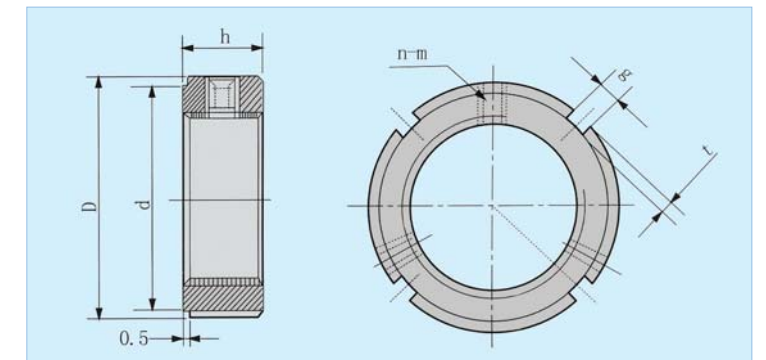
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002 \sim 0.015$



Advantages

1. Three locking pins located in equal intervals enable the nut to be assembled with the shaft at an appropriate angle and adjusts the deviation properly.
2. No need for a lock washer or fluting of shaft key.



Dimensions(mm)

PART NO	THREAD & PITCH	Dimensions							Axial Load (kN)	Set Screws (Nm)	Weight (g)
		øD	h	g	t	ød	n	m			
BZM 12	M 12 × 1	20	8	3	2	16	2	M4	26	3.5	14
BZM 15	M 15 × 1	25	8	3	2	21	2	M4	33	3.5	16
BZM 17	M 17 × 1	28	10	4	2	23	2	M5	49	4.5	24
BZM 20	M 20 × 1	32	10	4	2	27	3	M5	55	4.5	34
BZM 25	M 25 × 1.5	38	12	5	2	33	3	M6	87	8	54
BZM 30	M 30 × 1.5	45	12	5	2	40	3	M6	110	8	76
BZM 35	M 35 × 1.5	52	12	5	2	47	3	M6	120	8	102
BZM 40	M 40 × 1.5	58	14	6	2.5	52	3	M6	150	8	144
BZM 45	M 45 × 1.5	65	14	6	2.5	59	3	M6	170	8	180
BZM 50	M 50 × 1.5	70	14	6	2.5	64	3	M6	180	8	196
BZM 55	M 55 × 2	75	16	7	3	68	3	M8	250	18	240
BZM 60	M 60 × 2	80	16	7	3	73	3	M8	270	18	262
BZM 65	M 65 × 2	85	16	7	3	78	3	M8	290	18	282
BZM 70	M 70 × 2	92	18	8	3.5	84	3	M8	350	18	378
BZM 75	M 75 × 2	98	18	8	3.5	90	3	M8	370	18	422
BZM 80	M 80 × 2	105	18	8	3.5	96	3	M8	390	18	492
BZM 85	M 85 × 2	110	18	8	3.5	102	3	M8	400	18	524
BZM 90	M 90 × 2	120	20	10	4	108	3	M8	470	18	750
BZM 95	M 95 × 2	125	20	10	4	113	3	M8	490	18	782
BZM 100	M 100 × 2	130	20	10	4	118	3	M8	510	18	826
BZM 105	M 105 × 2	140	22	12	5	125	3	M8	560	18	1,108
BZM 110	M 110 × 2	145	22	12	5	132	3	M8	600	18	1,164
BZM 120	M 120 × 2	155	24	12	5	142	3	M8	710	18	1,378
BZM 130	M 130 × 2	165	24	12	5	152	3	M8	760	18	1,480
BZM 140	M 140 × 2	180	26	14	6	165	3	M10	880	35	1,958
BZM 150	M 150 × 2	195	26	14	6	180	3	M10	930	35	2,404
BZM 160	M 160 × 3	210	28	16	7	190	3	M10	980	35	3,080
BZM 170	M 170 × 3	220	28	16	7	200	3	M10	1,130	35	3,256
BZM 180	M 180 × 3	230	30	18	8	205	3	M12	1,300	60	3,628
BZM 190	M 190 × 3	240	30	18	8	215	3	M12	1,470	60	3,928
BZM 200	M 200 × 3	250	32	18	8	225	3	M12	1,600	60	4,330

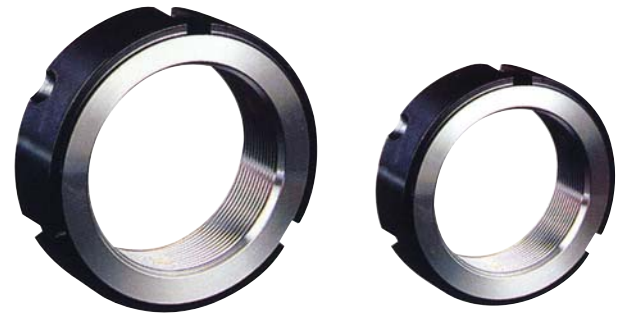
LOCK NUT YWLN Type



LOCK NUT YZMV Type

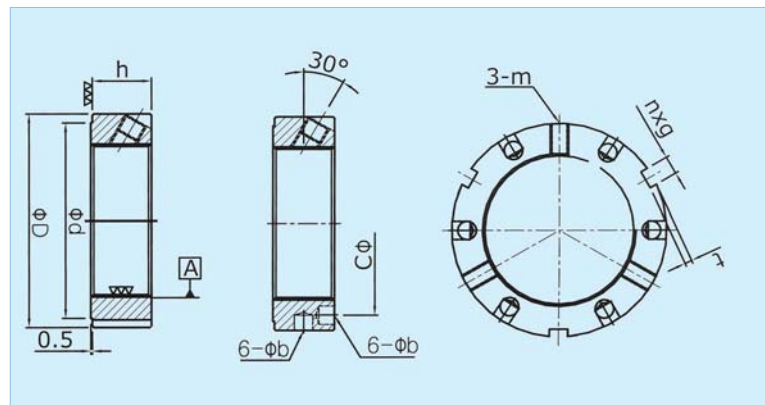
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$



Advantages

1. Be able to adjust deviation by exactly erecting a nut with locking pins located at three equal intervals.
2. No need for a lock washer or fluting of shaft key.



Dimensions (mm)

PART NO	THREAD & PITCH	Dimensions										Axial Load (kN)	Set Screws (Nm)	Weight (g)
		øD	h	ød	n	g	øb	t	PCD	m				
YWLN20	M 20 × 1	38	16	33	3	4	-	2	-	M5	90	4.5	110	
YWLN25	M 25 × 1.5	38	18	33	3	5	-	2	-	M6	130	8	120	
YWLN30	M 30 × 1.5	45	18	40	3	5	-	2	-	M6	160	8	140	
YWLN35	M 35 × 1.5	52	18	47	3	5	-	2	-	M8	190	18	170	
YWLN40	M 40 × 1.5	58	20	52	3	6	-	2.5	-	M8	210	18	210	
YWLN45	M 45 × 1.5	65	20	59	3	6	-	2.5	-	M8	240	18	300	
YWLN50	M 50 × 1.5	70	20	64	3	6	-	2.5	-	M8	300	18	310	
YWLN55	M 55 × 2	75	22	68	3	7	6	2.5	65	M8	340	18	350	
YWLN60	M 60 × 2	80	22	73	3	7	6	2.5	70	M8	380	18	430	
YWLN65	M 65 × 2	85	22	78	3	7	6	2.5	75	M8	460	18	450	
YWLN70	M 70 × 2	92	24	84	3	8	7	3.5	81	M8	490	18	550	
YWLN75	M 75 × 2	98	24	90	3	8	7	3.5	87	M8	520	18	590	
YWLN80	M 80 × 2	105	24	96	3	8	7	3.5	93	M8	620	18	810	
YWLN85	M 85 × 2	110	24	102	6	8	7	3.5	98	M8	650	18	900	
YWLN90	M 90 × 2	120	26	108	6	10	7	4	105	M8	680	18	1,100	
YWLN95	M 95 × 2	125	26	113	6	10	7	4	110	M8	710	18	1,150	
YWLN100	M 100 × 2	130	26	118	6	10	7	4	115	M8	740	18	1,200	
YWLN110	M 110 × 2	145	28	132	6	10	7	4	128	M10	800	35	1,350	
YWLN120	M 120 × 2	155	30	142	6	12	7	5	138	M10	860	35	1,600	
YWLN130	M 130 × 2	165	30	152	6	12	7	5	148	M10	920	35	1,850	
YWLN140	M 140 × 2	180	32	165	6	12	7	5	160	M10	980	35	2,450	
YWLN150	M 150 × 2	195	32	180	6	12	7	5	173	M10	1,040	35	2,800	
YWLN160	M 160 × 3	210	34	190	6	14	8	6	185	M10	1,100	35	3,400	
YWLN170	M 170 × 3	220	34	200	6	14	8	6	195	M10	1,160	35	3,500	
YWLN180	M 180 × 3	230	36	205	6	16	8	7	205	M12	1,220	60	3,650	
YWLN190	M 190 × 3	240	36	215	6	16	8	7	215	M12	1,280	60	3,900	
YWLN200	M 200 × 3	250	38	225	6	16	8	7	225	M12	1,340	60	4,400	

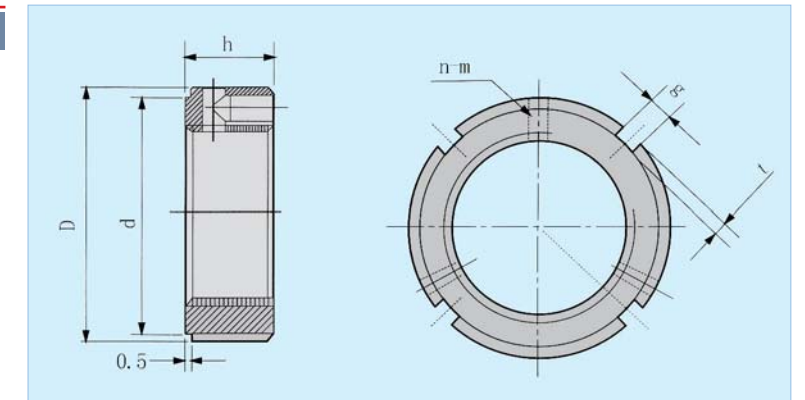
Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Nut Grade : Precision class
- Squariness of Nut Face : $\pm 0.002\sim 0.015$



Advantages

Adapt it when it is impossible to build up toward circumference direction



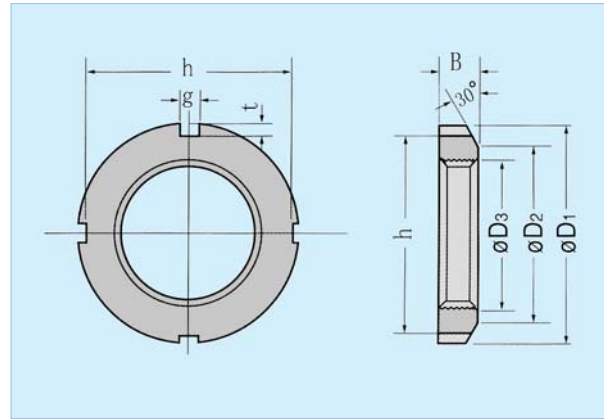
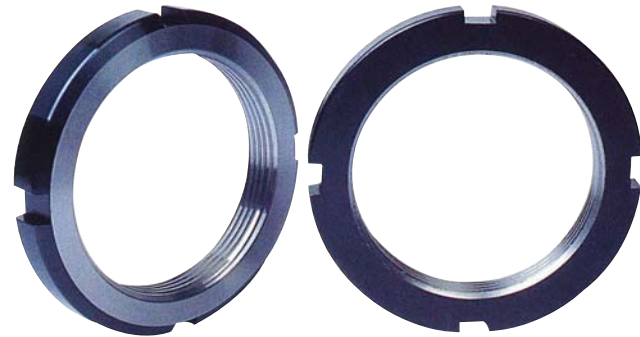
Dimensions (mm)

PART NO	THREAD & PITCH	Dimensions								Axial Load (kN)	Set Screws (Nm)	Weight (g)
		øD	h	g	t	ød	n	m				
YZMV 17	M 17 × 1	32	16	4	2	27	2	M4	49	3.5	100	
YZMV 20	M 20 × 1	38	16	4	2	33	3	M4	55	3.5	110	
YZMV 25	M 25 × 1.5	38	18	5	2	33	3	M5	87	4.5	120	
YZMV 30	M 30 × 1.5	45	18	5	2	40	3	M5	110	4.5	140	
YZMV 35	M 35 × 1.5	52	18	5	2	47	3	M5	120	4.5	170	
YZMV 40	M 40 × 1.5	58	20	6	2.5	52	3	M6	150	8	210	
YZMV 45	M 45 × 1.5	65	20	6	2.5	59	3	M6	170	8	300	
YZMV 50	M 50 × 1.5	70	20	6	2.5	64	3	M6	180	8	310	
YZMV 55	M 55 × 2	75	22	7	3	68	3	M6	250	8	350	
YZMV 60	M 60 × 2	80	22	7	3	73	3	M6	270	8	430	
YZMV 65	M 65 × 2	85	22	7	3	78	3	M6	290	8	450	
YZMV 70	M 70 × 2	92	24	8	3.5	84	3	M8	350	18	550	
YZMV 75	M 75 × 2	98	24	8	3.5	90	3	M8	370	18	590	
YZMV 80	M 80 × 2	105	24	8	3.5	96	3	M8	390	18	810	
YZMV 85	M 85 × 2	110	24	8	3.5	102	3	M8	400	18	900	
YZMV 90	M 90 × 2	120	26	10	4	108	3	M8	470	18	1,100	
YZMV 95	M 95 × 2	125	26	10	4	113	3	M8	490	18	1,150	
YZMV 100	M 100 × 2	130	26	10	4	118	3	M8	510	18	1,200	
YZMV 105	M 105 × 2	140	28	12	5	125	3	M10	560	35	1,300	
YZMV 110	M 110 × 2	145	28	12	5	132	3	M10	600	35	1,350	
YZMV 120	M 120 × 2	155	30	12	5	142	3	M10	710	35	1,600	
YZMV 130	M 130 × 2	165	30	12	5	152	3	M10	760	35	1,850	
YZMV 140	M 140 × 2	180	32	14	6	165	3	M12	880	60	2,450	
YZMV 150	M 150 × 2	195	32	14	6	180	3	M12	930	60	2,800	
YZMV 160	M 160 × 3	210	34	16	7	190	3	M12	980	60	3,400	
YZMV 170	M 170 × 3	220	34	16	7	200	3	M12	1,130	60	3,500	
YZMV 180	M 180 × 3	230	36	18	8	205	3	M12	1,300	60	3,650	
YZMV 190	M 190 × 3	240	36	18	8	215	3	M12	1,470	60	3,900	
YZMV 200	M 200 × 3	250	38	18	8	225	3	M12	1,600	60	4,400	



Features

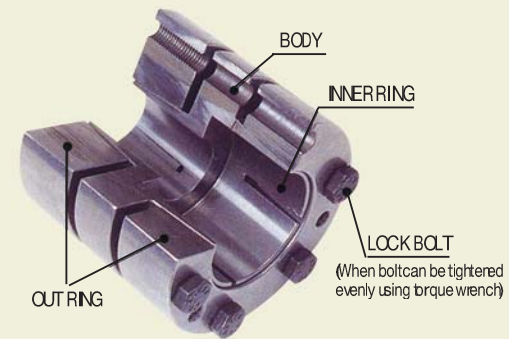
- Material : DIN C45, JIS S45C, KS SM45C
- Nut Grade : Precision class



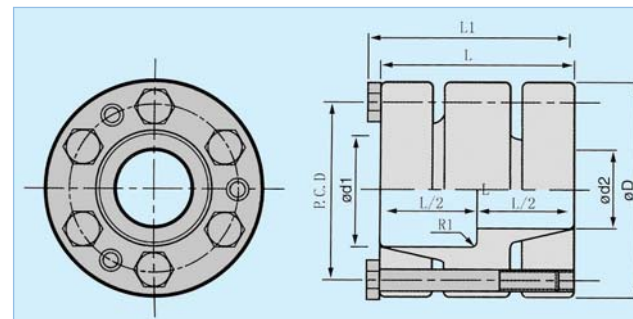
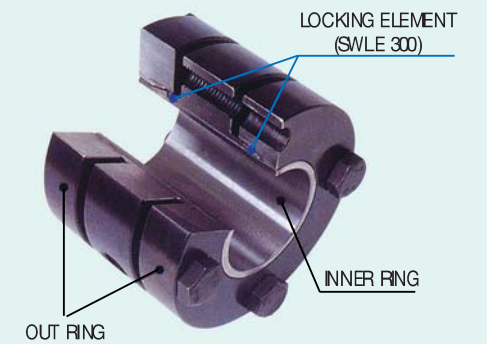
Dimensions (mm)

PART NO	THREAD & PITCH	Dimensions						
		ϕD_1	ϕD_2	h	g	t	ϕD_3	B
AN 00	M 10 × 0.75	18	13.5	14	3	2	10.5	4
AN 01	M 12 × 1	22	17	18	3	2	12.5	4
AN 02	M 15 × 1	25	21	21	4	2	15.5	5
AN 03	M 17 × 1	28	24	24	4	2	17.5	5
AN 04	M 20 × 1	32	26	28	4	2	20.5	6
AN 05	M 25 × 1.5	38	32	34	5	2	25.8	7
AN 06	M 30 × 1.5	45	38	41	5	2	30.8	7
AN 07	M 35 × 1.5	52	44	48	5	2	35.8	8
AN 08	M 40 × 1.5	58	50	53	6	2.5	40.8	9
AN 09	M 45 × 1.5	65	56	60	6	2.5	45.8	10
AN 10	M 50 × 1.5	70	61	65	6	2.5	50.8	11
AN 11	M 55 × 2	75	67	69	7	3	56	11
AN 12	M 60 × 2	80	73	74	7	3	61	11
AN 13	M 65 × 2	85	79	79	7	3	66	12
AN 14	M 70 × 2	92	85	85	8	3.5	71	12
AN 15	M 75 × 2	98	90	91	8	3.5	76	13
AN 16	M 80 × 2	105	95	98	8	3.5	81	15
AN 17	M 85 × 2	110	102	103	8	3.5	86	16
AN 18	M 90 × 2	120	108	112	10	4	91	16
AN 19	M 95 × 2	125	113	117	10	4	96	17
AN 20	M 100 × 2	130	120	122	10	4	101	18
AN 21	M 105 × 2	140	126	130	12	5	106	18
AN 22	M 110 × 2	145	133	135	12	5	111	19
AN 23	M 115 × 2	150	137	140	12	5	116	19
AN 24	M 120 × 2	155	138	145	12	5	121	20
AN 25	M 125 × 2	160	148	150	12	5	126	21
AN 26	M 130 × 2	165	149	155	12	5	131	21
AN 27	M 135 × 2	175	160	163	14	6	136	22
AN 28	M 140 × 2	180	160	168	14	6	141	22
AN 29	M 145 × 2	190	172	178	14	6	146	24
AN 30	M 150 × 2	195	171	183	14	6	151	24
AN 31	M 155 × 2	200	182	186	16	7	156.5	25
AN 32	M 160 × 3	210	182	196	16	7	161.5	25
AN 33	M 165 × 3	210	193	196	16	7	166.5	26
AN 34	M 170 × 3	220	193	206	16	7	171.5	26
AN 36	M 180 × 3	230	203	214	18	8	181.5	27
AN 38	M 190 × 3	240	214	224	18	8	191.5	28
AN 40	M 200 × 3	250	226	234	18	8	201.5	29

Standard



Special



Dimensions (mm)

PART NO	ϕd_1	ϕd_2	ϕD	L	L ₁	P.C.D.	Locking Bolts SIZE × L × Holes	Torque Capacity (Maximum Torque)		Axial Force Capacity (Maximum Thrust)		Max Rotational Frequency (Maximum)	Bolt Wrench Tightening Torque	
								Nm	kgf-m	N × 10 ²	kgf		r.p.m	Nm
P-53-16-16	16	16	53	56	61.0	41.0	M6 × 50 × 6	78.5	8.0	9.81	1000	14500	17.7	1.8
P-53-20-16	20	16	53	56	61.0	41.0	M6 × 50 × 6	78.5	8.0	9.81	1000	14500	17.7	1.8
P-53-20-20	20	20	53	56	61.0	41.0	M6 × 50 × 6	98.1	10.0	9.81	1000	14500	17.7	1.8
P-53-22-20	22	20	53	56	61.0	41.0	M6 × 50 × 6	98.1	10.0	9.81	1000	14500	17.7	1.8
P-53-22-22	22	22	53	56	61.0	41.0	M6 × 50 × 6	118.0	12.0	9.81	1000	14500	17.7	1.8
P-58-25-20	25	20	58	58	63.0	45.0	M6 × 50 × 6	98.1	10.0	9.81	1000	12500	17.7	1.8
P-58-25-22	25	22	58	58	63.0	45.0	M6 × 50 × 6	118.0	12.0	9.81	1000	12500	17.7	1.8
P-58-25-25	25	25	58	58	63.0	45.0	M6 × 50 × 6	127.1	13.0	9.81	1000	12500	17.7	1.8
P-63-30-25	30	25	63	60	65.0	50.5	M6 × 55 × 6	157.0	16.0	11.8	1200	12000	17.7	1.8
P-63-30-30	30	30	63	60	65.0	50.5	M6 × 55 × 6	186.0	19.0	11.8	1200	12000	17.7	1.8
P-68-35-25	35	25	68	60	65.0	56.0	M6 × 55 × 6	157.0	16.0	11.8	1200	10000	17.7	1.8
P-68-35-28	35	28	68	60	65.0	56.0	M6 × 55 × 6	177.0	18.0	11.8	1200	10000	17.7	1.8
P-68-35-30	35	30	68	60	65.0	56.0	M6 × 55 × 6	186.0	19.0	11.8	1200	10000	17.7	1.8
P-68-35-32	35	32	68	60	65.0	56.0	M6 × 55 × 6	206.0	21.0	11.8	1200	10000	17.7	1.8
P-68-35-35	35	35	68	60	65.0	56.0	M6 × 55 × 6	226.0	23.0	11.8	1200	10000	17.7	1.8
P-73-42-35	42	42	73	70	75.0	60.0	M6 × 60 × 6	226.0	23.0	12.7	1300	9000	17.7	1.8
P-73-38-38	38	38	73	70	75.0	60.0	M6 × 60 × 6	245.0	25.0	12.7	1300	9000	17.7	1.8
P-73-42-42	42	42	73	70	75.0	60.0	M6 × 60 × 6	275.0	28.0	12.7	1300	9000	17.7	1.8
P-78-48-48	48	48	78	70	75.0	66.0	M6 × 60 × 6	461.0	47.0	18.6	1900	8000	17.7	1.8

POWER LOCK SWLE 100 Type



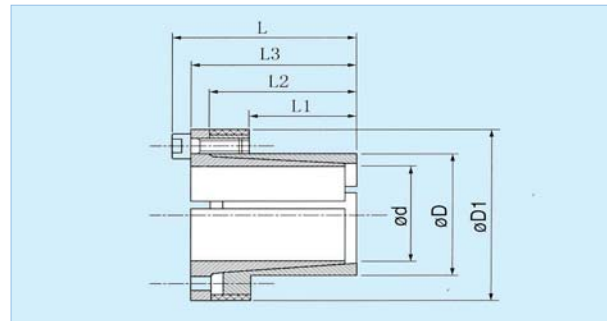
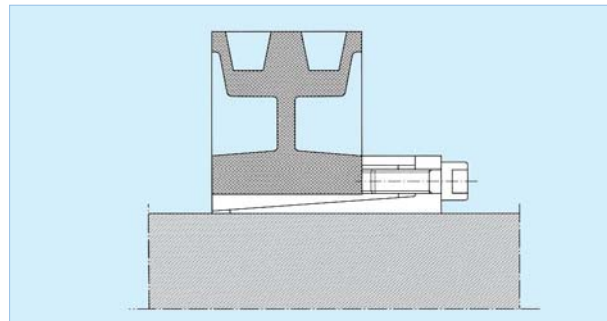
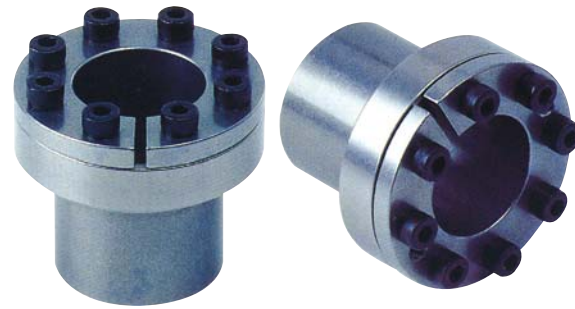
POWER LOCK SWLE 200 Type

Characteristics

- Medium-high torque
- Limited installation time
- Restricted hub diameter
- Very low surface presste

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions (mm)

SWLE 100 d × D	L1	L2	L3	L	D1	Torque Nm	Axial Thrust Fass. KN	Surface pressure on		Tightening screws		Weight g
								Shaft Pw N/mm ²	Hub Pn N/mm ²	No. × type	Tightening torque Ms Nm	
12 × 18	15	22.5	26	30	32	58	10	160	105	4 × M 4	5	80
13 × 23	15	22.5	26	30	38	63	10	140	80	4 × M 4	5	125
14 × 23	15	22.5	26	30	38	68	10	130	80	4 × M 4	5	120
15 × 24	16.5	28	35	41	45	127	17	185	115	3 × M 6	17	257
16 × 24	16.5	28	35	41	45	136	17	175	115	3 × M 6	17	250
17 × 26	18.5	30	37	43	47	180	22	190	125	4 × M 6	17	280
18 × 26	18.5	30	37	43	47	200	22	180	125	4 × M 6	17	270
19 × 27	18.5	30	37	43	49	210	22	170	120	4 × M 6	17	290
20 × 28	18.5	30	37	43	50	220	22	160	115	4 × M 6	17	300
22 × 32	25.5	38	45	51	54	250	22	115	80	4 × M 6	17	385
24 × 34	25.5	38	45	51	56	270	22	105	75	4 × M 6	17	405
25 × 34	25.5	38	45	51	56	280	22	100	75	4 × M 6	17	390
28 × 39	25.5	38	45	51	61	465	33	135	97	6 × M 6	17	475
30 × 41	25.5	38	45	51	63	510	33	127	90	6 × M 6	17	480
32 × 43	25.5	38	45	51	65	540	33	120	90	6 × M 6	17	520
35 × 47	32.5	45	52	58	69	790	45	105	80	8 × M 6	17	630
38 × 50	32.5	45	52	58	72	860	45	100	75	8 × M 6	17	670
40 × 53	32.5	45	52	58	75	900	45	95	70	8 × M 6	17	735
42 × 55	32.5	45	52	58	77	950	45	90	70	8 × M 6	17	780
45 × 59	45.5	61	70	78	86	1890	84	110	85	8 × M 8	41	1230
48 × 62	45.5	61	70	78	87	2010	84	105	80	8 × M 8	41	1240
50 × 65	45.5	61	70	78	92	2100	84	100	75	8 × M 8	41	1400
55 × 71	55.5	71.5	80	88	98	2600	94	85	65	9 × M 8	41	1,700
60 × 77	55.5	71.5	80	88	104	2840	94	75	60	9 × M 8	41	1,950
65 × 84	55.5	71.5	80	88	111	3070	94	70	55	9 × M 8	41	2,200
70 × 90	65.5	86	96	106	119	5250	150	90	70	9 × M10	83	3,050
75 × 95	65.5	86	96	106	127	5600	150	80	65	9 × M10	83	3,300
80 × 100	65.5	86	96	106	132	8020	200	100	80	12 × M10	83	3,500
85 × 106	65.5	86	96	106	138	8500	200	95	75	12 × M10	83	3,800
90 × 112	65.5	86	96	106	144	9000	200	90	75	12 × M10	83	4,200
95 × 120	65.5	86	96	106	150	11000	230	100	80	14 × M10	83	4,750
100 × 125	65.5	86	96	106	155	15000	300	120	95	18 × M10	83	4,880
110 × 140	90	114	128	140	180	16000	290	80	65	12 × M12	145	8,950
120 × 155	90	114	128	140	198	17500	290	70	55	12 × M12	145	11,500
130 × 165	90	114	128	140	208	25000	384	90	70	16 × M12	145	12,100

Advantages

- SWLE200 can be used in connecting the shaft and boss when it requires a high transmissible torque.
- Easy assembling and no need for other parts.
- No axial movement during assembly.
- Required shaft : ø 20~ø 240mm

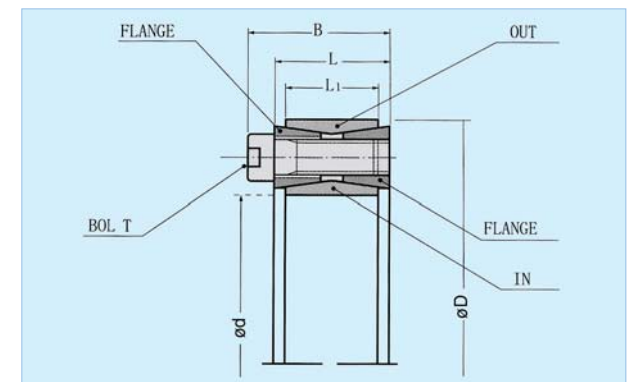
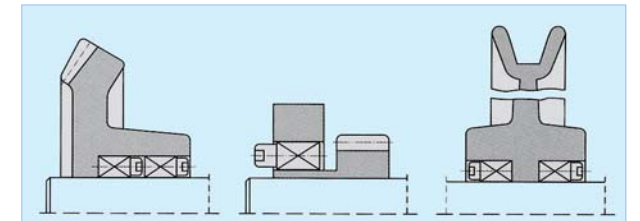
Usage

- Pulley, gear, flywheel, cam, lever etc.



Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions (mm)

SWLE200 d × D	Dimensions			Transmissible		Surface Pressure		Holes	Bolts		Weight (g)
	L	L1	B	Torque Mt(kgf-m)	Axial Load Pax(kgf)	Shaft kgf/mm ²	Bcs s kgf/mm ²		Thread Dia	Torque (kgf-m)	
20 × 47	20	17	26	27	2760	27	11	8	M 6	1.4	208
22 × 47	20	17	26	30	2760	24.5	11.5	8	M 6	1.4	198
24 × 50	20	17	26	37	3110	25	12	9	M 6	1.4	216
25 × 50	20	17	26	39	3110	24	12	9	M 6	1.4	210
28 × 55	20	17	26	48	3450	24	12	10	M 6	1.4	256
30 × 55	20	17	26	52	3460	22.5	12.5	10	M 6	1.4	244
32 × 60	20	17	26	66	4150	25	13.5	12	M 6	1.4	294
35 × 60	20	17	26	72	4150	23	13.5	12	M 6	1.4	276
38 × 65	20	17	26	91	4840	25	14.5	14	M 6	1.4	320
40 × 65	20	17	26	96	4840	23.5	14.5	14	M 6	1.4	308
42 × 75	24	20	32	158	7520	30	17	12	M 8	3.4	556
45 × 75	24	20	32	170	7520	28	17	12	M 8	3.4	522
48 × 80	24	20	32	181	7520	26	15.5	12	M 8	3.4	578
50 × 80	24	20	32	190	7520	25	15.5	12	M 8	3.4	564
55 × 85	24	20	32	242	8800	26.5	17	14	M 8	3.4	610
60 × 90	24	20	32	264	8800	24.5	16	14	M 8	3.4	644
65 × 95	24	20	32	327	10000	26	17.5	16	M 8	3.4	690
70 × 110	28	24	38	480	13600	27	17	14	M 10	6.6	1,214
75 × 115	28	24	38	510	13600	25	16.5	14	M 10	6.6	1,280
80 × 120	28	24	38	540	13600	24	16	14	M 10	6.6	1,346
85 × 125	28	24	38	660	15600	25.5	17.5	16	M 10	6.6	1,424
90 × 130	28	24	38	700	15600	24	16.5	16	M 10	6.6	1,472
95 × 135	28	24	38	830	17600	25.5	18	18	M 10	6.6	1,546
100 × 145	33	26	45	990	19800	25.5	17.5	14	M 12	11.5	2,132
110 × 155	33	26	45	1090	19800	23	16.5	14	M 12	11.5	2,306
120 × 165	33	26	45	1360	22700	24	17.5	16	M 12	11.5	2,400
130 × 180	38	34	50	1840	28400	21.5	15.5	20	M 12	11.5	3,500
140 × 190	38	34	50	2180	31200	22	16	22	M 12	11.5	3,848
150 × 200	38	34	50	2550	34000	22	16.5	24	M 12	11.5	4,100
160 × 210	38	34	50	2950	36900	22.5	17	26	M 12	11.5	4,400
170 × 225	44	38	58	3560	41900	21.5	16.5	22	M 14	18.0	5,800
180 × 235	44	38	58	4110	45700	22	17	24	M 14	18.0	6,100
190 × 250	52	46	66	5060	53300	20	15.5	28	M 14	18.0	8,300
200 × 260	52	46	66	5710	57100	20.5	16	30	M 14	18.0	8,700
220 × 285	56	50	72	7410	67400	20.5	15.5	26	M 16	28.0	11,300
240 × 305	56	50	72	9330	77800	21.5	17	30	M 16	28.0	12,200

POWER LOCK SWLE 200A Type



POWER LOCK SWLE 200B Type

Advantages

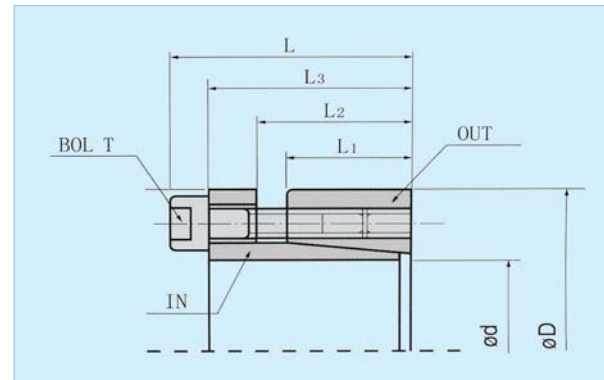
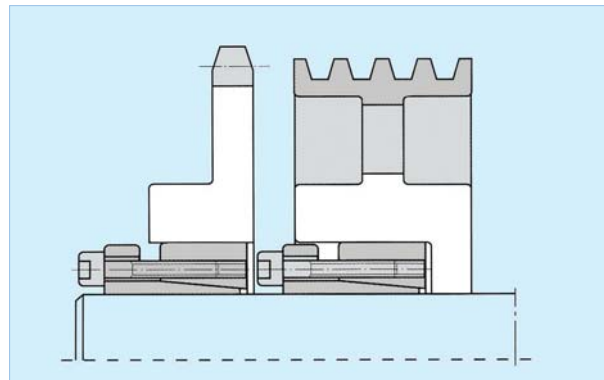
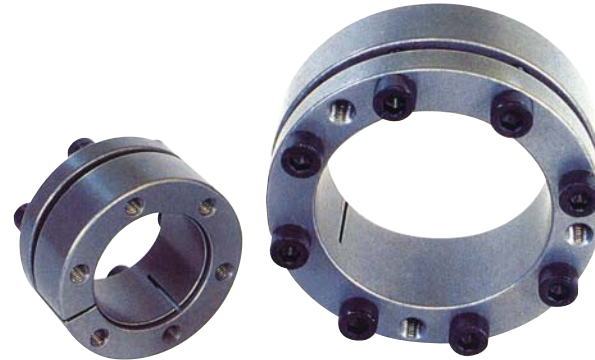
- SWLE200-A applies to high transmissible torque and precise positioning.
- No axial shift while assembling.
- Required shaft : $\phi 19 \sim \phi 100\text{mm}$

Usage

- Pulley, gear, flywheel, cam, lever etc.

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions(mm)

SWLE 200 A d x D	Dimensions					Clamp Bolts			Transmissible		Surface Pressure		Weight (g)
	L	L ₃	L ₂	L ₁	ϕD	Holes	Thread	Torque	Torque Mt(kgf-m)	Axial Load Pax(kgf)	Shaft kgf/mm ²	Boss kgf/mm ²	
19 x 47	38	32	24	20	47	6	M 6 x 22	16	30	3,100	30.4	98	325
20 x 47	38	32	24	20	47	6	M 6 x 22	16	31	3,100	28.8	98	315
22 x 47	38	32	24	20	47	6	M 6 x 22	16	34	3,100	26.2	98	305
24 x 50	38	32	24	20	50	7	M 6 x 22	16	47	3,900	30.0	11.5	345
25 x 50	38	32	24	20	50	7	M 6 x 22	16	49	3,900	28.8	11.5	335
28 x 55	38	32	24	20	55	7	M 6 x 22	16	55	3,900	25.7	10.5	395
30 x 55	38	32	24	20	55	7	M 6 x 22	16	59	3,900	24.0	10.5	375
32 x 60	38	32	24	20	60	9	M 6 x 22	16	75	4,650	27.0	11.5	455
35 x 60	38	32	24	20	60	9	M 6 x 22	16	82	4,650	24.7	11.5	420
38 x 65	38	32	24	20	65	9	M 6 x 22	16	89	4,650	22.7	10.6	490
40 x 65	38	32	24	20	65	9	M 6 x 22	16	93	4,650	21.6	10.6	465
42 x 75	48	40	29	24	75	9	M 8 x 30	39	181	8,600	31.9	14.2	855
45 x 75	48	40	29	24	75	9	M 8 x 30	39	194	8,600	29.8	14.2	795
48 x 80	48	40	29	24	80	9	M 8 x 30	39	207	8,600	27.9	13.3	905
50 x 80	48	40	29	24	80	9	M 8 x 30	39	216	8,600	26.8	13.3	860
55 x 85	48	40	29	24	85	10	M 8 x 30	39	277	10,000	28.4	14.6	935
60 x 90	48	40	29	24	90	10	M 8 x 30	39	302	10,000	26.0	13.8	1,000
65 x 95	48	40	29	24	95	12	M 8 x 30	39	374	11,500	27.5	14.9	1,070
70 x 110	62	52	37	30	110	10	M 10 x 40	75	554	15,800	29.0	14.2	2,060
75 x 115	62	52	37	30	115	10	M 10 x 40	75	594	15,800	27.0	13.5	2,170
80 x 120	62	52	37	30	120	10	M 10 x 40	75	633	15,800	25.4	13.0	2,280
85 x 125	62	52	37	30	125	12	M 10 x 40	75	769	18,000	27.3	14.3	2,400
90 x 130	62	52	37	30	130	12	M 10 x 40	75	814	18,000	25.8	13.7	2,510
95 x 135	62	52	37	30	135	14	M 10 x 40	75	1,074	25,000	30.5	16.5	2,650
100 x 145	74	64	46	39	145	15	M 10 x 40	75	1,130	25,000	20.9	11.8	3,950

Advantages

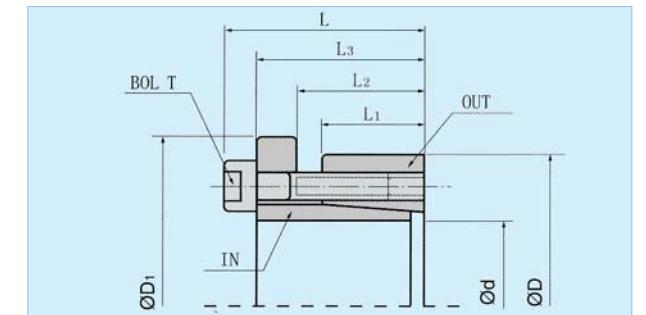
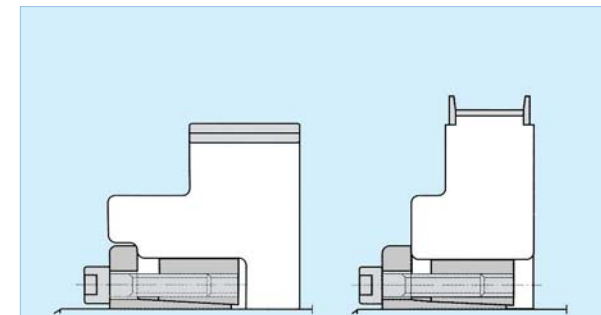
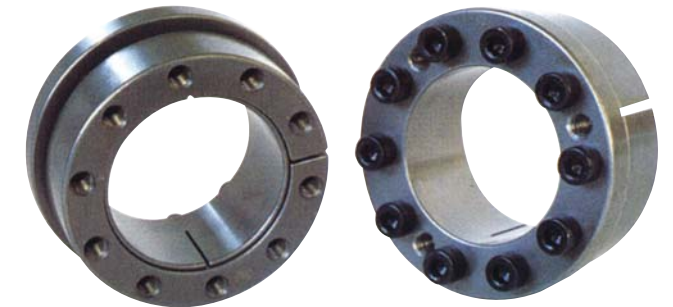
- SWLE200-B applies to high transmissible torque and precise positioning.
- No axial shift while assembling.
- Required shaft : $\phi 8 \sim \phi 100\text{mm}$

Usage

- Pulley, gear, flywheel, cam, lever etc.

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions(mm)

SWLE 200 B d x D	Dimensions						Clamp Bolts			Transmissible		Surface Pressure		Weight (g)
	L	L ₃	L ₂	L ₁	ϕD	ϕD_1	Holes	Thread	Torque	Torque Mt(kgf-m)	Axial Load Pax(kgf)	Shaft kgf/mm ²	Boss kgf/mm ²	
8 x 22	21	17	13	10	22	25	3	M 4 x 15	039	1.8	470	27.9	7.1	45
9 x 23	21	17	13	10	23	26	3	M 4 x 15	039	2.1	470	24.8	6.8	50
10 x 24	21	17	13	10	24	27	4	M 4 x 15	039	3.0	620	30.0	8.7	53
11 x 25	21	17	13	10	25	28	4	M 4 x 15	039	3.4	620	27.0	8.4	56
12 x 26	21	17	13	10	26	29	5	M 4 x 15	039	4.7	780	31.0	10.0	60
13 x 27	21	17	13	10	27	30	5	M 4 x 15	039	5.0	750	28.6	9.7	63
14 x 31	26	21	16	12.5	31	34	4	M 5 x 15	08	7.0	1,000	26.6	8.7	100
15 x 32	26	21	16	12.5	32	35	4	M 5 x 15	08	7.5	1,000	24.8	8.4	105
16 x 33	26	21	16	12.5	33	36	4	M 5 x 15	08	8.0	1,000	23.2	8.1	110
17 x 34	26	21	16	12.5	34	37	5	M 5 x 15	08	10.5	1,250	27.3	9.9	115
18 x 35	26	21	16	12.5	35	38	5	M 5 x 15	08	11.0	1,250	25.8	9.6	120
19 x 47	38	32	24	20	47	53	6	M 6 x 22	16	29	3,000	29.0	9.4	355
20 x 47	38	32	24	20	47	53	6	M 6 x 22	16	30	3,000	27.5	9.4	350
22 x 47	38	32	24	20	47	53	6	M 6 x 22	16	33	3,000	25.0	9.4	335
24 x 50	38	32	24	20	50	56	7	M 6 x 22	16	42	3,450	26.7	10.3	380
25 x 50	38	32	24	20	50	56	7	M 6 x 22	16	44	3,450	25.7	10.3	370
28 x 55	38	32	24	20	55	62	7	M 6 x 22	16	48	3,450	22.9	9.4	440
30 x 55	38	32	24	20	55	62	7	M 6 x 22	16	52	3,450	21.4	9.4	425
32 x 60	38	32	24	20	60	68	9	M 6 x 22	16	71	4,450	25.8	11.0	510
35 x 60	38	32	24	20	60	68	9	M 6 x 22	16	78	4,450	23.6	11.0	475
38 x 65	38	32	24	20	65	73	9	M 6 x 22	16	85	4,450	21.7	10.0	550
40 x 65	38	32	24	20	65	73	9	M 6 x 22	16	90	4,450	20.6	10.2	520
42 x 75	48	40	29	24	75	83	9	M 8 x 30	39	173	8,200	30.5	13.5	955
45 x 75	48	40	29	24	75	83	9	M 8 x 30	39	185	8,200	28.4	13.5	900
48 x 80	48	40	29	24	80	88	9	M 8 x 30	39	198	8,200	26.7	12.7	1,010
50 x 80	48	40	29	24	80	88	9	M 8 x 30	39	206	8,200	25.6	12.7	950
55 x 85	48	40	29	24	85	94	10	M 8 x 30	39	252	9,100	25.8	13.2	1,060
60 x 90	48	40	29	24	90	99	10	M 8 x 30	39	275	9,100	23.7	12.5	1,130
65 x 95	48	40	29	24	95	104	12	M 8 x 30	39	357	11,000	26.3	14.2	1,220
70 x 110	62	52	37	30	110	119	10	M 10 x 40	75	504	14,400	26.4	12.9	2,280
75 x 115	62	52	37	30	115	124	10	M 10 x 40	75	540	14,400	24.6	12.3	2,400
80 x 120	62	52	37	30	120	129	10	M 10 x 40	75	575	14,400	23.0	11.8	2,520
85 x 125	62	52	37	30	125	134	12	M 10 x 40	75	734	17,000	26.0	13.6	2,660
90 x 130	62	52	37	30	130	139	12	M 10 x 40	75	775	17,000	24.6	13.0	2,780
95 x 135	62	52	37	30	135	144	14	M 10 x 40	75	955	20,000	27.2	14.7	2,980
100 x 145	74	64	46	39	145	154	15	M 10 x 40	75	1,080	21,000	19.9	11.3	4,300

POWER LOCK SWLE 200C Type



POWER LOCK SWLE 300 Type

Advantages

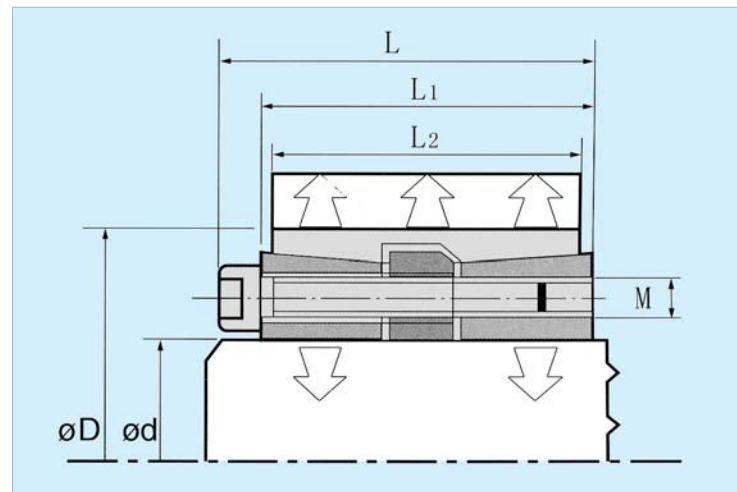
- SWLE200-C can be used in connecting the shaft and boss when it requires a ultra high transmissible torque.
- No axial shift while assembling.
- Required shaft : $\phi 25 \sim \phi 100\text{mm}$

Usage

- Large scale pulley
- Driver of each press

Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions(mm)

SWLE 200 C d x D	Dimensions				Torque Nm	Axial Thrust KN	Screws Nm	Surface Troque N/mm ²
	M	L ₁	L ₂	L				
25 x 50	M 6	46	40	52	900	70	17	90
30 x 55	M 6	46	40	52	1,100	70	17	90
35 x 60	M 6	46	40	52	1,600	90	17	110
40 x 65	M 6	46	40	52	2,400	120	17	110
45 x 75	M 8	46	40	54	3,300	150	41	140
50 x 80	M 8	66	56	74	4,250	160	41	100
60 x 90	M 8	66	56	74	6,100	200	41	120
70 x 110	M 10	80	70	90	10,800	320	83	130
80 x 120	M 10	80	70	90	14,500	360	83	130
90 x 130	M 10	80	70	90	18,100	390	83	130
100 x 145	M 12	102	90	114	26,500	520	145	120

Advantages

- SWLE300 can be used when it requires large-scale KEY and radial work is not allowed.
- Max assembled up to 4, suitable for carrying high loads.
- Required shaft : $\phi 10 \sim \phi 200\text{mm}$

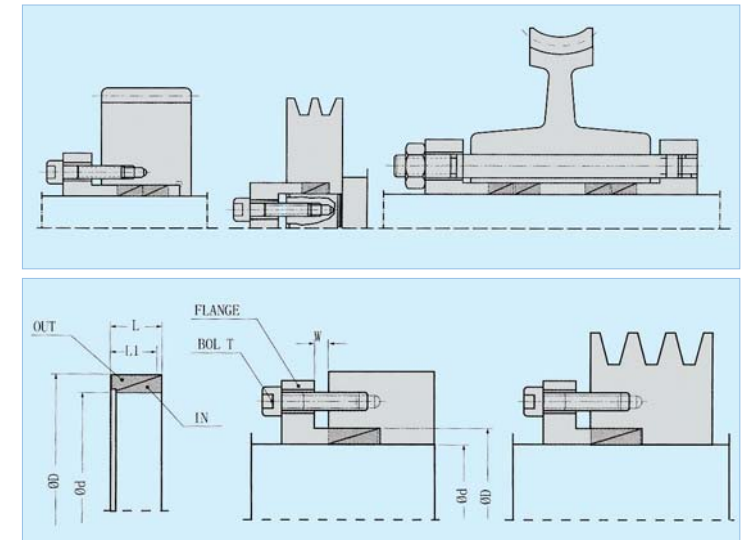
Usage

- Pulley, gear, flywheel, cam, lever etc.



Features

- Material : JIS SCM 440
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding



Dimensions(mm)

SWLE300 d x D	Dimensions		POWER LOCK				Axial Load		Surface Pressure		Weight (g)
	L	L ₁	1W	2W	3W	4W	Torque kgf-m	Axial Thrust kgf	Shaft kgf/mm ²	Boss kgf/mm ²	
10 x 13	4.5	3.7	2.5	2.5	3	4	0.69	135	12	9.3	1.6
11 x 14	4.5	3.7	2.5	2.5	3	4	0.84	150	12	9.4	1.8
12 x 15	4.5	3.7	2.5	2.5	3	4	1	165	12	9.6	2.0
13 x 16	4.5	3.7	2.5	2.5	3	4	1.1	180	12	9.8	2.4
14 x 18	6.3	5.3	3	4	5	6	2	285	12	9.4	4.6
15 x 19	6.3	5.3	3	4	5	6	2.3	300	12	9.5	5.0
16 x 20	6.3	5.3	3	4	5	6	2.6	325	12	9.6	5.0
17 x 21	6.3	5.3	3	4	5	6	2.9	345	12	9.8	5.4
18 x 22	6.3	5.3	3	4	5	6	3.3	365	12	9.8	5.6
19 x 24	6.3	5.3	3	4	5	6	3.6	385	12	9.5	7.2
20 x 25	6.3	5.3	3	4	5	6	4	400	12	9.6	7.8
22 x 26	6.3	5.3	4	4	5	6	4.9	445	12	10.2	6.8
24 x 28	6.3	5.3	4	4	5	6	5.8	485	12	10.3	7.4
25 x 30	6.3	5.3	4	4	5	6	6.3	500	12	10	9.8
28 x 32	6.3	5.3	4	4	5	6	8	570	12	10.5	8.6
30 x 35	6.3	5.3	4	4	5	6	9.1	610	12	10.3	11.4
32 x 36	6.3	5.3	4	4	5	6	10.4	650	12	10.7	9.8
35 x 40	7	6	4	4	5	6	14.2	810	12	10.5	15.0
36 x 42	7	6	4	4	5	6	15	830	12	10.3	18.2
38 x 44	7	6	4	4	5	6	16.7	880	12	10.4	18.8
40 x 45	8	6.6	4	4	5	6	19.8	990	12	10.7	20.0
42 x 48	8	6.6	4	4	5	6	21.9	1,040	12	10.5	23.8
45 x 52	10	8.6	4	4	5	6	33.3	1,480	12	10.4	38.4
48 x 55	10	8.6	4	4	5	6	38	1,580	12	10.5	41.8
50 x 57	10	8.6	4	4	5	6	41.2	1,650	12	10.5	42.2
55 x 62	10	8.6	4	4	5	6	49.9	1,800	12	10.7	46.8
56 x 64	12	10.4	4	4	5	6	63.2	2,250	12	10.5	66.8
60 x 68	12	10.4	4	4	5	6	72.5	2,400	12	10.6	73
63 x 71	12	10.4	4	4	5	6	80	2,500	12	10.7	75
65 x 73	12	10.4	4	4	5	6	85	2,600	12	10.7	76
70 x 79	14	12.2	4	4	6	7	114	3,200	12	10.6	102
71 x 80	14	12.2	4	4	6	7	118	3,300	12	10.7	104
75 x 84	14	12.2	4	4	6	7	131	3,500	12	10.7	110
80 x 91	17	15	4	4	6	7	186	4,650	12	10.6	175
85 x 96	17	15	4	4	6	7	210	4,900	12	10.6	190
90 x 101	17	15	4	4	6	7	235	5,200	12	10.7	200
95 x 106	17	15	4	4	6	7	262	5,500	12	10.8	210
100 x 114	21	18.7	5	5	6	7	362	7,200	12	10.5	360
110 x 124	21	18.7	5	5	6	7	438	7,900	12	10.7	380
120 x 134	21	18.7	5	5	6	7	521	8,700	12	10.8	420
130 x 148	28	25.3	6	6	7	9	839	12,900	12	10.5	800
140 x 158	28	25.3	6	6	7	9	973	13,900	12	10.6	860
150 x 168	28	25.3	6	6	7	9	1,115	14,900	12	10.7	920
160 x 178	28	25.3	6	6	7	9	1,270	15,900	12	10.8	960
170 x 191	33	30	7	7	8	9	1,710	20,100	12	10.7	1,450
180 x 201	33	30	7	7	9	10	1,920	21,300	12	10.8	1,500
190 x 211	33	30	7	7	9	10	2,130	22,500	12	10.8	1,600
200 x 224	38	34.8	7	7	9	11	2,740	27,400	12	10.7	2,200

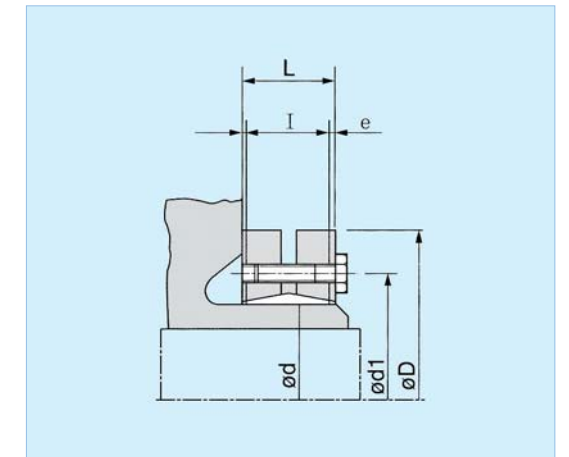
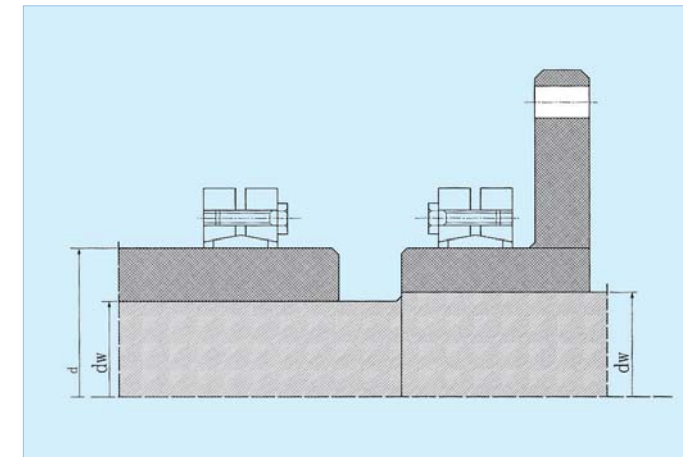
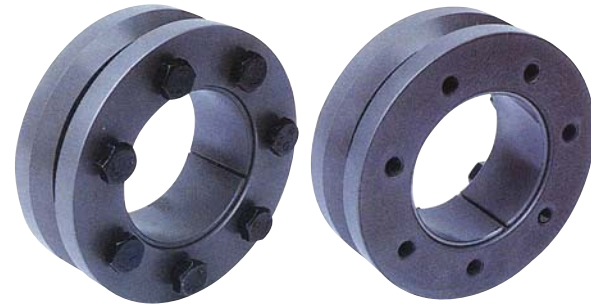


Features

- Material : DIN C45, JIS S45C, KS SM45C
- Hardness : HRC 20~25
- Surface treatment : Barrel grinding

Characteristics

- Medium-high torque
- No shaft-hub axial movement
- Limited installation time
- Quick dismantling



Dimensions(mm)

SWLE200D ø d	Dimensions					Shaft diameter dw	Torque Mt	Axial Thrust Fass.	Tightening screws DIN 931-10.9	Tightening torque Ms	Contact pressure Pw
	øD	I	L	ød1	e						
mm	mm	mm	mm	mm	mm	mm	Nm	KN	No. × type	Nm	N/mm ²
14	38	7	11.0	23	2.00	11	30	6	4 × M5	4	186
						12	50	9			
16	41	11	15.0	26	2.00	13	70	10	5 × M5	4	130
						14	90	13			
24	50	14	19.5	36	2.75	19	170	25	6 × M5	4	286
						20	210	27			
30	60	16	21.5	44	2.75	21	250	29	7 × M5	4	233
						24	300	29			
36	72	18	23.5	52	2.75	25	340	31	5 × M6	12	307
						26	380	33			
44	80	20	25.5	61	2.75	28	440	50	7 × M6	12	317
						30	570	58			
50	90	22	27.5	70	2.75	31	630	58	8 × M6	12	289
						32	620	64			
55	100	23	30.5	75	3.75	35	780	74	8 × M6	12	252
						36	860	77			
62	110	23	30.5	86	3.75	38	940	79	10 × M6	12	279
						40	1160	86			
68	115	23	30.5	86	3.75	42	1380	92	10 × M6	12	255
						44	1160	79			
75	138	25	32.5	100	3.75	45	1520	88	7 × M8	30	273
						48	1880	97			
80	145	25	32.5	100	3.75	48	1850	100	7 × M8	30	256
						50	2200	111			
85	155	30	39	114	4.50	52	2400	117	10 × M8	30	285
						55	2500	106			
90	155	30	39.0	114	4.50	55	2500	119	10 × M8	30	271
						60	3150	120			
100	170	34	44.0	124	5.00	60	3200	137	12 × M8	30	258
						65	3950	155			
110	185	39	50.0	136	5.50	60	3200	124	9 × M10	59	244
						65	3900	140			
115	188	39	50.0	141	5.50	70	4600	158	9 × M10	59	234
						75	7200	229			

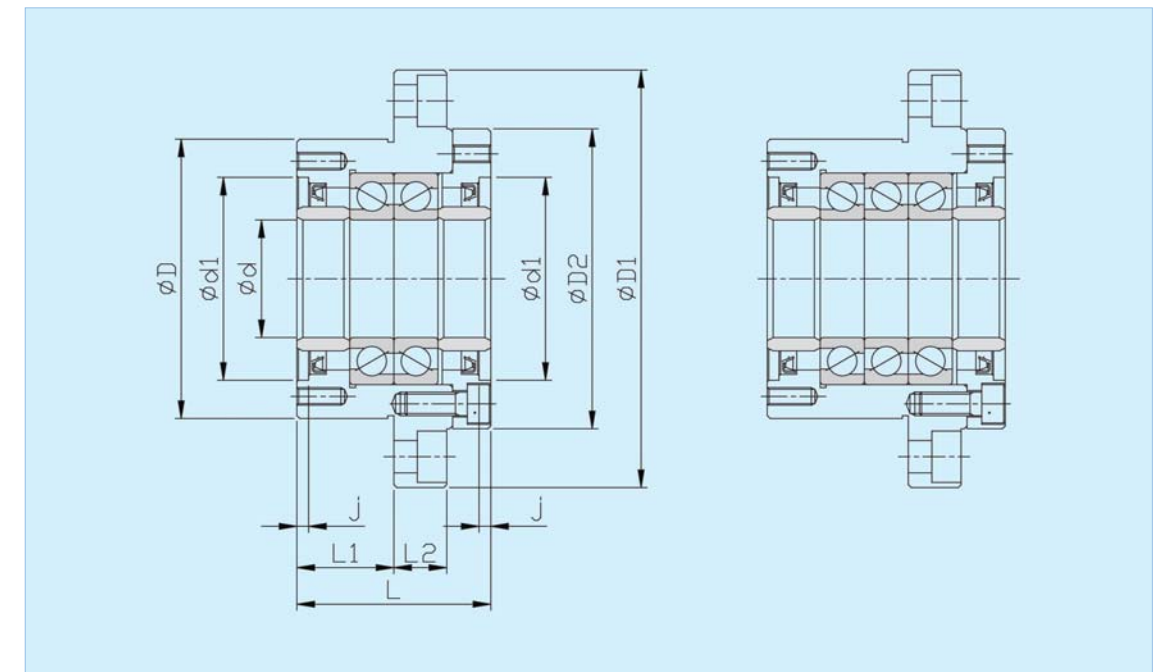
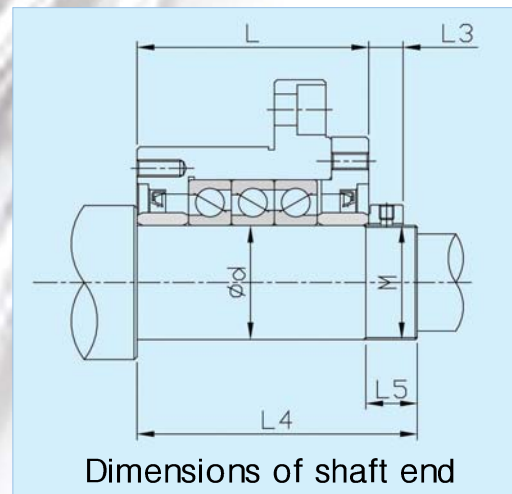
Dimensions(mm)

SWLE200D ø d	Dimensions					Shaft diameter dw	Torque Mt	Axial Thrust Fass.	Tightening screws DIN 931-10.9	Tightening torque Ms	Contact pressure Pw
	øD	I	L	ød1	e						
mm	mm	mm	mm	mm	mm	mm	Nm	KN	No. × type	Nm	N/mm ²
120	215	42	54.0	160	6.00	80	10600	285	12 × M10	59	277
						85	13300	314			
125	215	42	54.0	160	6.00	90	14500	340	12 × M10	59	266
						85	11000	296			
130	215	42	54.0	160	6.00	90	13000	324	12 × M10	59	255
						95	15000	352			
140	230	46	60.5	175	7.25	90	11300	304	10 × M12	100	264
						95	15100	367			
155	265	50	64.5	192	7.25	95	17600	396	12 × M12	100	263
						100	20100	425			
160	265	50	64.5	192	7.25	105	22000	447	12 × M12	100	254
						110	25000	478			
165	290	56	71	210	7.50	115	28000	509	8 × M16	250	268
						115	22600	460			
170	290	56	71	210	7.5	115	31000	595	8 × M16	250	261
						120	28800	520			
175	300	56	71	220	7.5	120	39000	655	8 × M16	250	253
						125	30000	630			
180	300	56	71	220	7.5	125	39000	655	8 × M16	250	244
						130	42200	840			
185	330	71	86	236	7.5	135	45000	675	10 × M16	250	237
						140	46300	885			
190	330	71	86	236	7.5	135	52000	778	10 × M16	250	277
						140	57000	819			
195	350	71	86	246	7.5	145	62000	861	12 × M16	250	270
						145	58700	840			
200	350	71	86	246	7.5	145	65000	933	12 × M16	250	248
						150	63800	885			
220	370	88	104	270	8.0	140	74000	990	15 × M16	250	272
						150	76000	1025			
240	405	92	109	295	8.5	155	81500	1071	12 × M20	490	272
						160	86000	1080			
						160	95000	1190			
						165	102000	1239			
						170	110000	1290			
						170	120000	1464			
						180	138000	1576			
						190	156000	1675			

BEARING SUPPORT UNIT

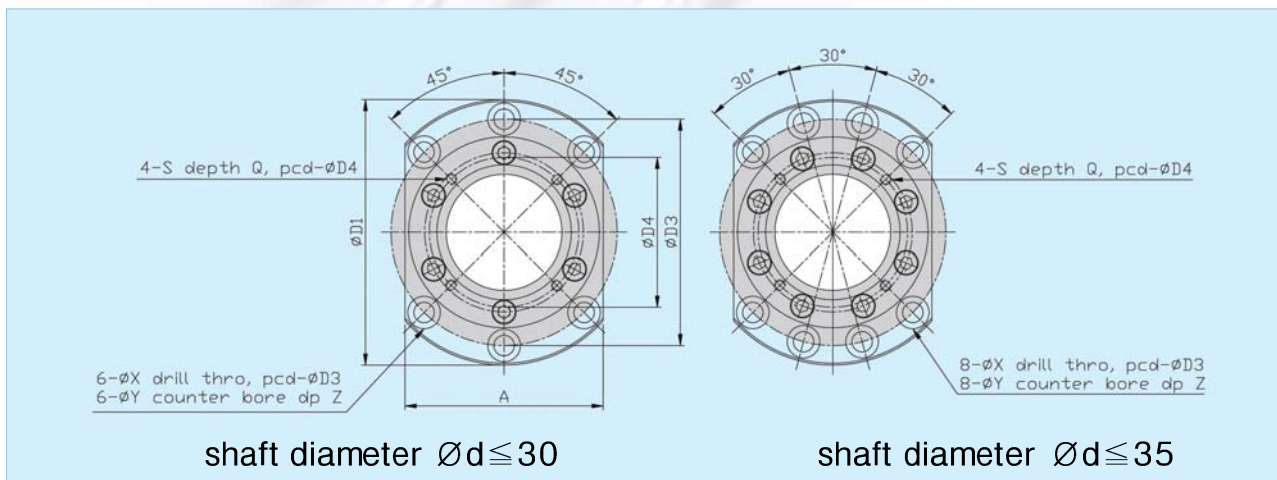


※ 전량 일본수출(후쿠다社 등 다수업체)



(D-plex)

(T-plex)



Dimensions(mm)

Model No.	Basic dynamic load rating Ca(N)	Permissible axial load (N)	Preload (N)	Axial rigidity (N/ μ m)	Starting torque (N-cm)	Lock nut			Weight kgs	Dimensions of shaft end		
						M	$\phi D5$	L3		d	L4	L5
YSU20D	21900	26600	2150	750	14	M20 × 1.0	40	18	1.9	20	81	23
YSU25D	28500	40500	3150	1000	23	M25 × 1.5	45	20	3.1	25	89	26
YSU25T	46500	81500	4300	1470	31	M25 × 1.5	45	20	3.4	25	104	26
YSU30D	29200	43000	3350	1030	24	M30 × 1.5	50	20	3.0	30	89	26
YSU30T	47500	86000	4500	1520	33	M30 × 1.5	50	20	3.3	30	104	26
YSU35D	31000	50000	3800	1180	28	M35 × 1.5	55	22	3.4	35	92	30
YSU35T	50500	100000	5200	1710	37	M35 × 1.5	55	22	4.3	35	107	30
YSU40D	31500	52000	3900	1230	28	M40 × 1.5	60	22	3.6	40	92	30
YSU40T	51500	104000	5300	1810	38	M40 × 1.5	60	22	4.2	40	107	30

Dimensions(mm)

Model No.	Dimensions of support unit																
	ϕd	ϕD g6	$\phi D1$ h7	$\phi D2$	$\phi D3$	$\phi D4$	L	L1	L2	A	ϕX	ϕY	Z	$\phi d1$ H7	j	S	Q
YSU20D	20	70	106	72	88	58	60	32	15	80	9	14	9.5	45	4	M5	15
YSU25D	25	85	130	90	110	70	66	33	18	100	11	17.5	11	57	4	M6	12
YSU25T	25	85	130	90	110	70	81	48	18	100	11	17.5	11	57	4	M6	12
YSU30D	30	85	130	90	110	70	66	33	18	100	11	17.5	11	57	4	M6	12
YSU30T	30	85	130	90	110	70	81	48	18	100	11	17.5	11	57	4	M6	12
YSU35D	35	95	142	102	121	80	66	33	18	106	11	17.5	11	69	4	M6	12
YSU35T	35	95	142	102	121	80	81	48	18	106	11	17.5	11	69	4	M6	12
YSU40D	40	95	142	102	121	80	66	33	18	106	11	17.5	11	69	4	M6	12
YSU40T	40	95	142	102	121	80	81	48	18	106	11	17.5	11	69	4	M6	12

조립형 PRECISION 밀링 LONG ARBOR

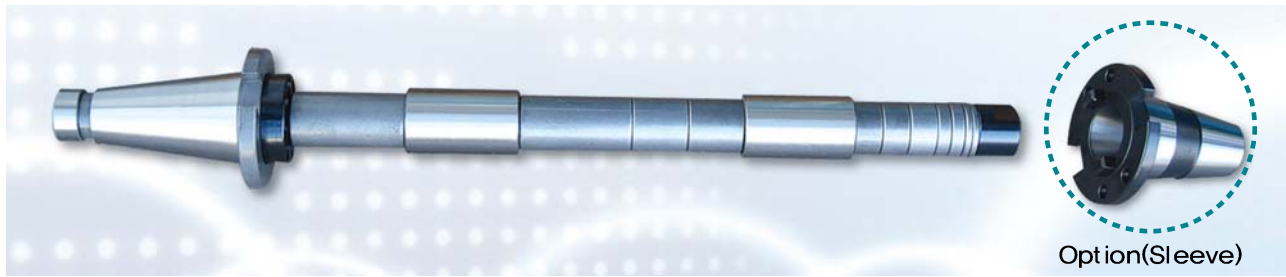
※ 국내 범용 밀링 M/C 제작사에 100% 공급

- 호리존탈 밀링 공작기계의 사이드 �터 고정용으로 절삭공구를 장착하여 가공하는 필수품이다.
- 무리한 가공으로 LONG ARBOR 힘 발생시 일체형은 전체를 교체해야 하나 당사 제품은 Shaft만을 교환 사용할수 있으므로 원가절감 효과가 매우 크다.

SWLA NT40 刑



SWLA NT50 刑



조립부품도

PART LIST

① Body ② Power Lock ③ Bearing Collar
④ Collar ⑤ End Nut ⑥ Sleeve ⑦ Shaft

Option

▲ Wooden Box

특징

- 원가절감
- SHAFT 힘발생시 교체 가능(SHAFT만)
- SHAFT 길이 조정 가능
- 재질 : S45C, SNCM21종
- 열처리 경도
 - ARBOR : HRC 42
 - SHAFT : HRC 55



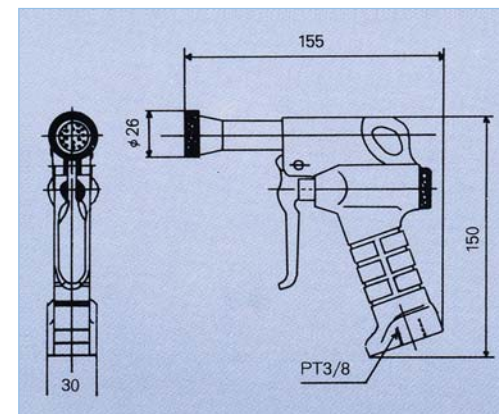
사양

구분 TYPE	고정TAP	SHAFT $\phi \times L$	LOCKING ELEMENTS	KEY	풀림방지 BOLT	LOCK NUT	허용하중(kgf)
SWLA NT40	5/8" - 11山	25.4×580	200 - A	6.3	M8	M24×2.0 (우)	3900
SWLA NT50	1" - 8山	25.4×580	200 - A	6.3	M8	M24×1.5(좌)	3900
	M24×3,0P	25.4×580	200 - A	6.3	M8	M24×1.5(우)	3900

COOLANT GUN 아십니까?

전용기, CNC선반·밀링, 각종 연삭기는
COOLANT 사용 기계 청소 및 부품 세척을 하십시오.

공작기계
필수
설치품



특성

- ① 모든 절삭유에 사용
- ② 본체의 재질은 알루미늄
- ③ 내압 5kg f/cm²
- ④ 중량 500g

규격

SCG 3/8"

COOLANT GUN특징

1. BED 및 SLIDING부에 손상을 주지 않습니다.
2. 기계 특성에 따라 NOZZLE을 SERIES화 하였습니다.
3. 주물 절삭 후 기계 청소시 공해를 방지해 줍니다.
4. 사용시 편리하도록 설계제작 하였습니다.

설치 예

기존 설비 절삭유 탱크 펌프에서 위 사진과 같이 "T" 연결관을 사용하여 손쉽게 조립할 수 있습니다.