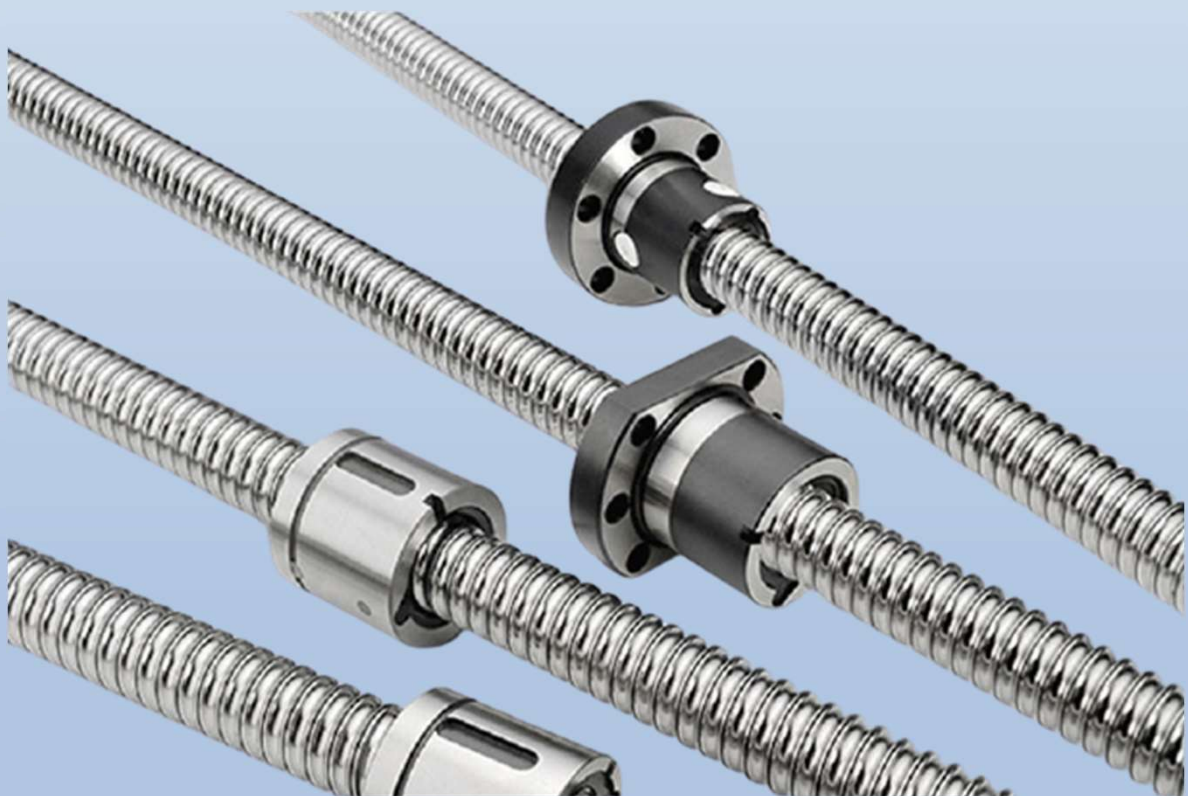


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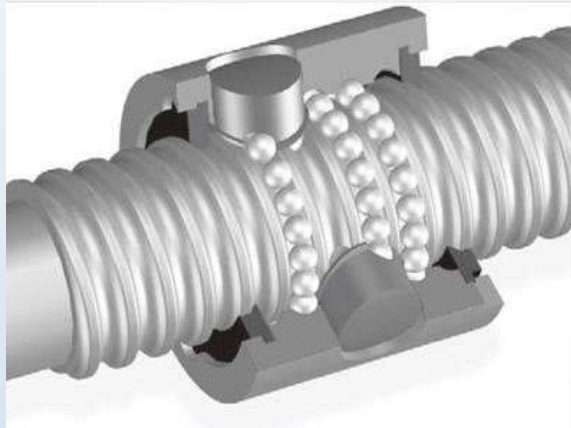
BALL SCREWS



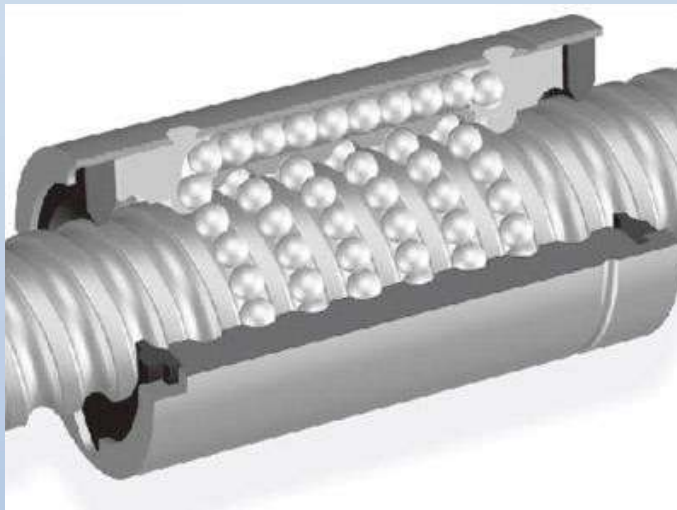
SUMMARY

<i>Structure of ball screw</i>	3
<i>Recommended screw ends</i>	4
<i>Assembled screw designation</i>	5
<i>Screw designation</i>	6
<i>Nut designation</i>	7
<i>WFI</i>	8
<i>WFU</i>	10
<i>YFI</i>	12
<i>YFU</i>	13

Ball screw principle

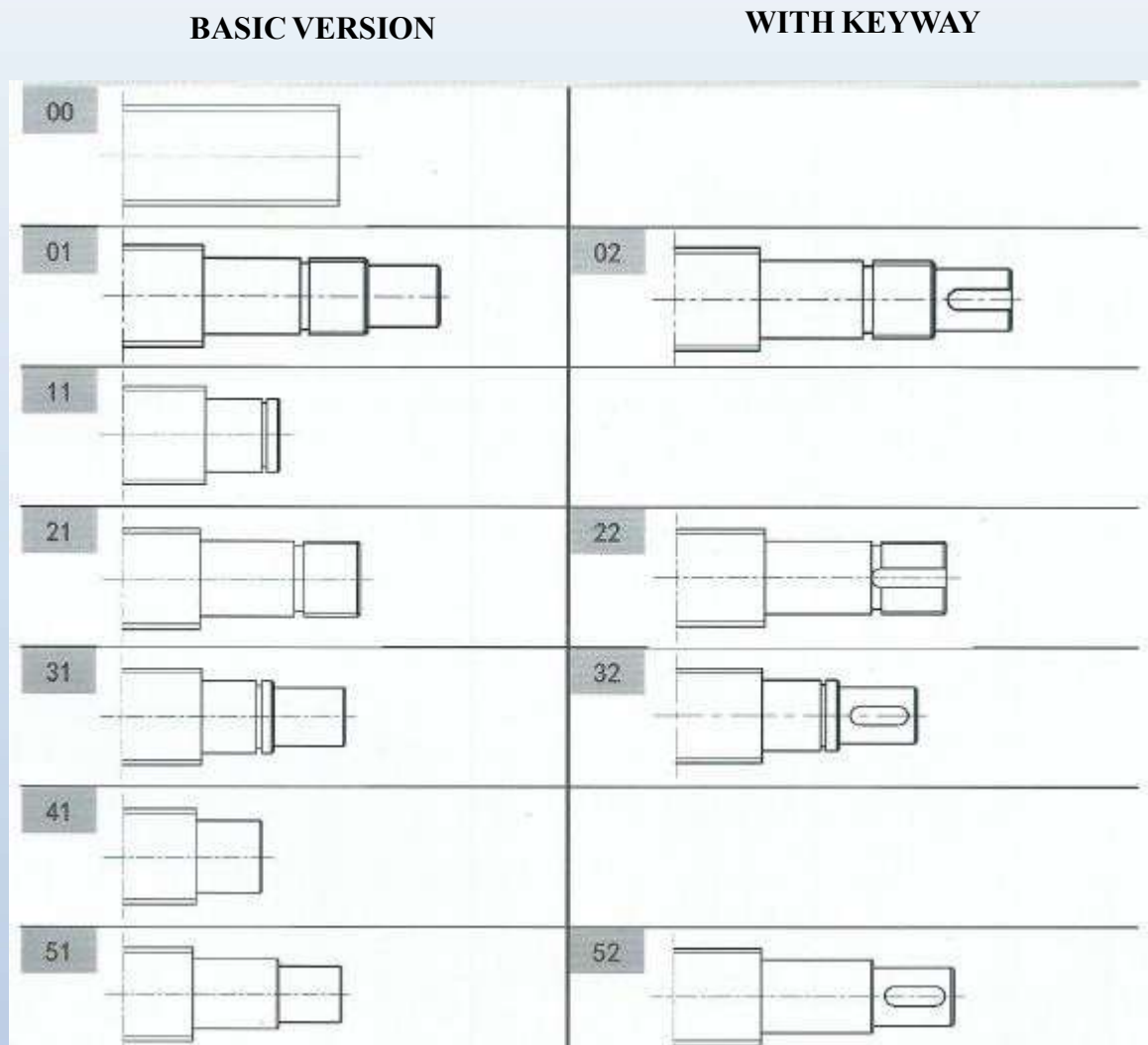


Steel balls recirculate in one line with an inverse flow. A cylindrical part is in the nut with a reverse groove which is placed by the cylindrical diameter. A round keyway allows correct direction of thread groove.



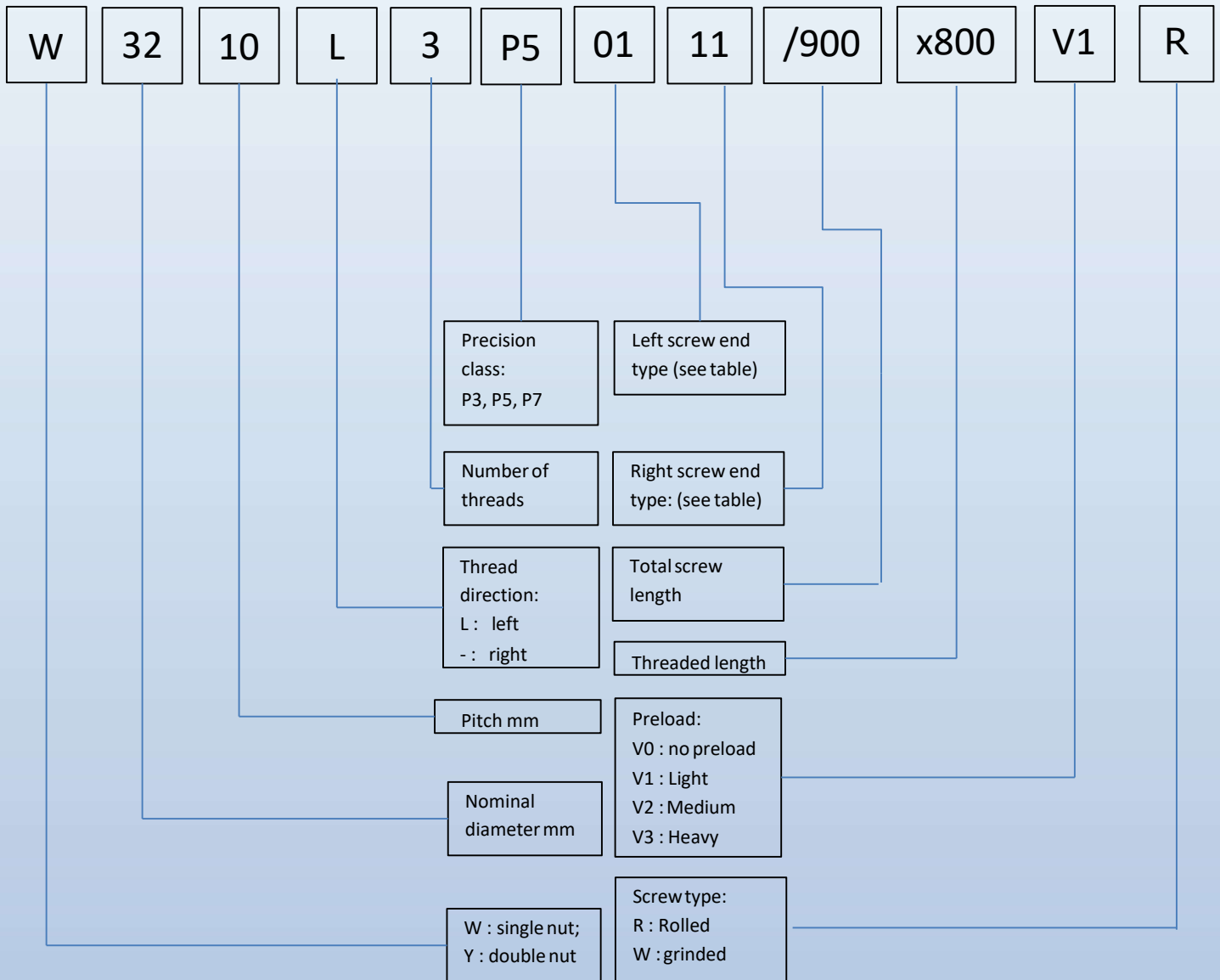
After several circulations, balls return through deflector (in plastic or metal) in the nut. Heavy load and compact design can be possible because high balls number.

Recommended screw end

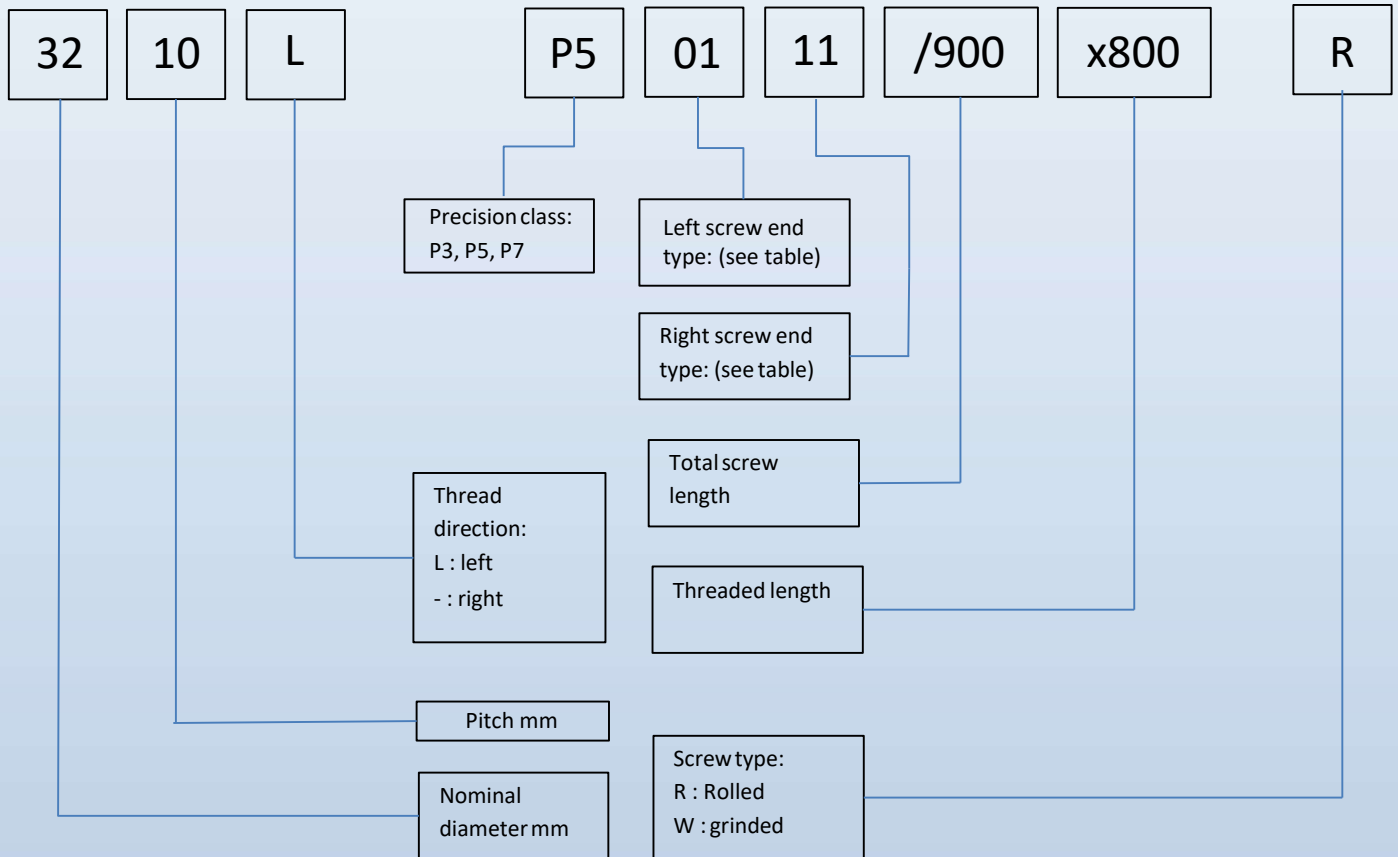


The above screw ends are available from 8 mm up to 50 mm diameter rolled screws. Custom ends are available on request.

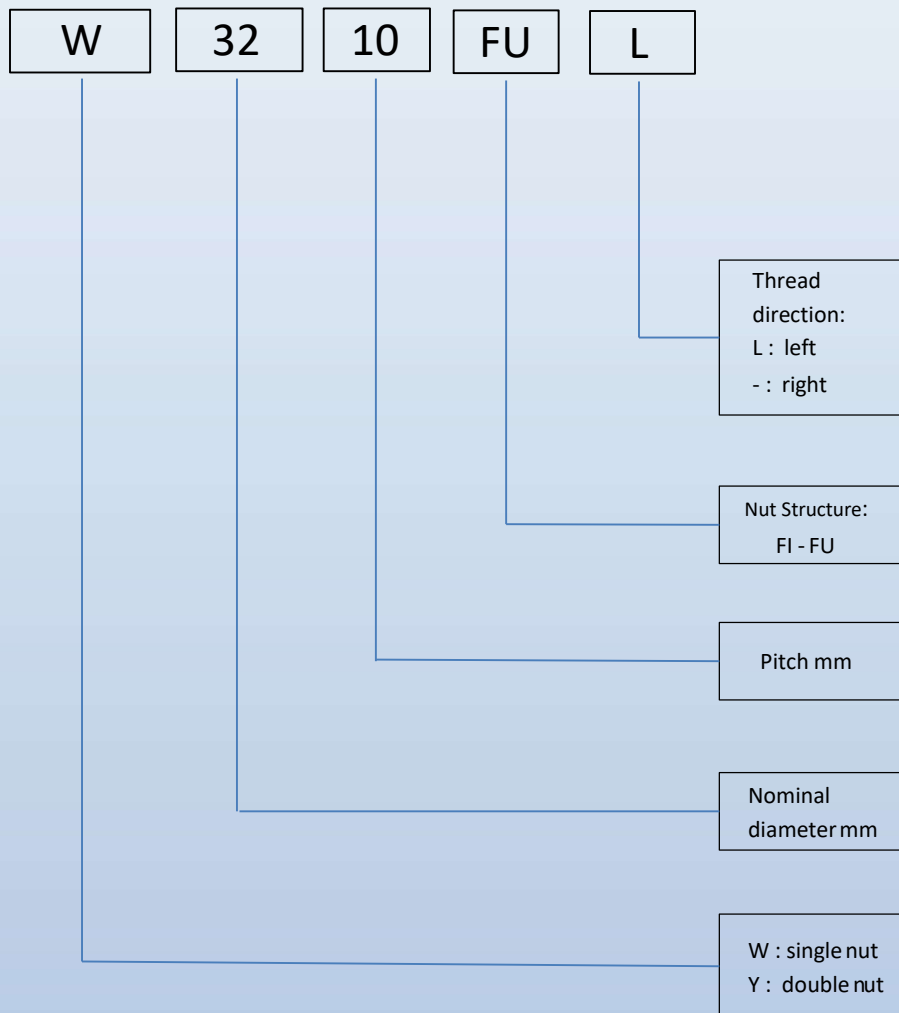
ASSEMBLED SCREW



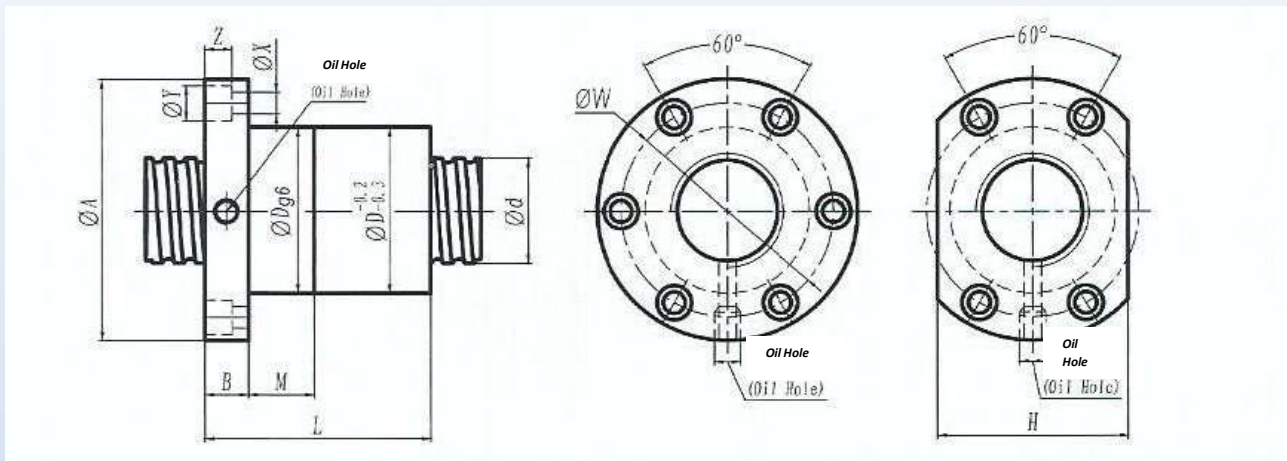
SCREW



BALL NUTS

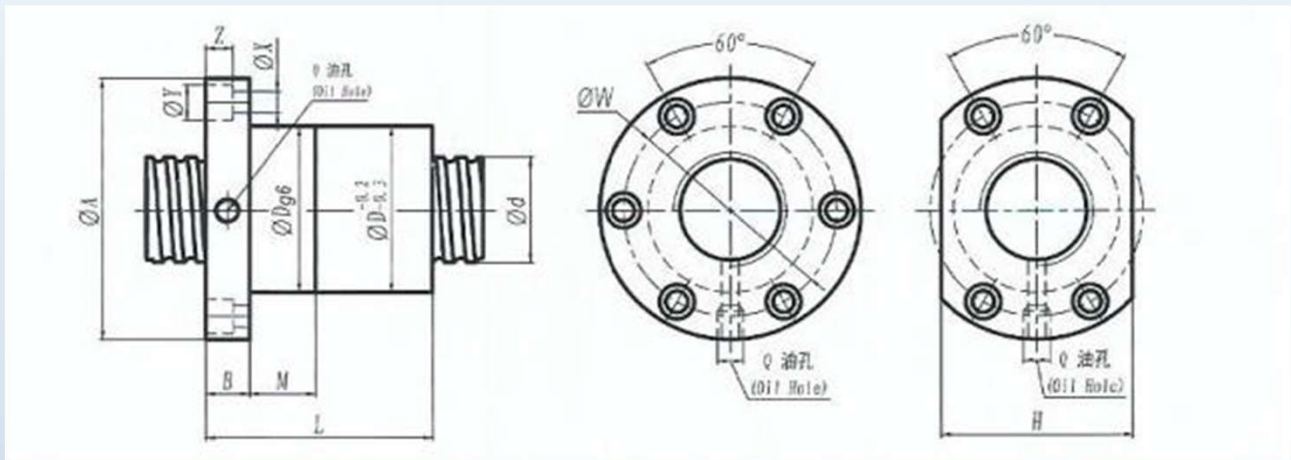


WFI SERIE



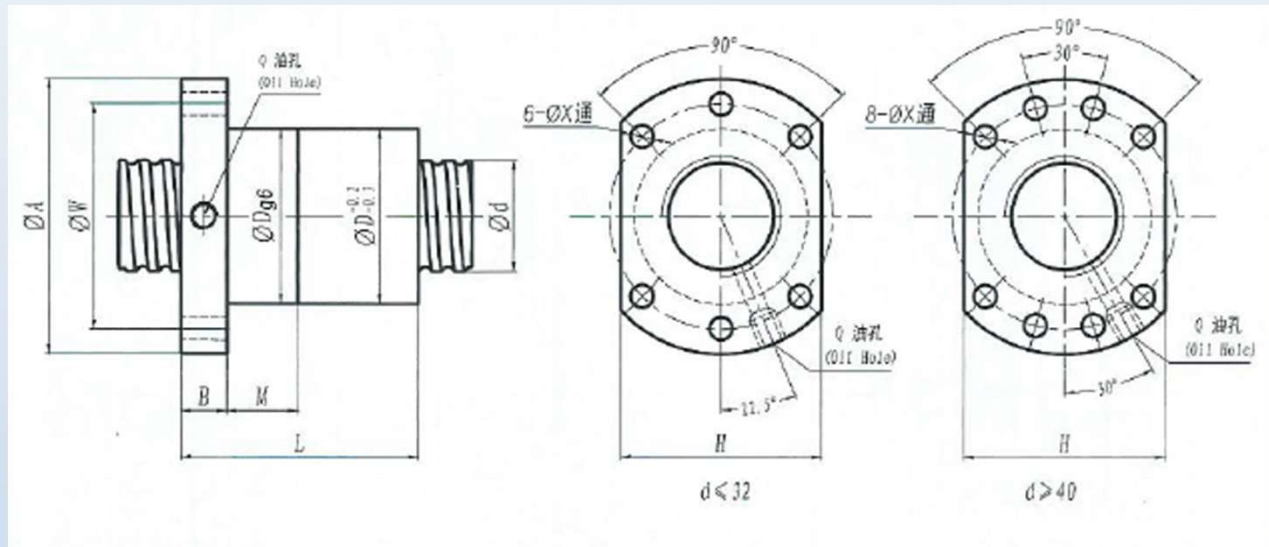
Item	d	l	Da	D	A	B	M	L	W	H	X	Y	Z	Q	n	C _a	C _{0a}
	[mm]															[Kgf]	
WFI0802 5-3	7,5	2,5	1588	16	32	8	10	25	23	22	3,50	6	3,5	M4	3	218	266
WFI1202-3	11,5	2,00	2	20	44	8	10	30	32	30	4,5	8	4,5	M4	3	284	444
WFI1204-4	11,4	4	2	22	44	10	12	40	32	30	4,5	8	4,5	M6	4	475	703
WFI1205-5	11,4	5	2	22	44	10	12	40	32	30	4,5	8	4,5	M6	4	493	744
WFI1210-2	11,4	10	2	22	44	10	12	30	32	30	4,5	8	4,5	M6	2	263	363
WFI1604-4	15,3	4	2,381	30	49	10	12	45	39	34	4,5	8	4,5	M6	4	719	1195
WFI1605-4	15	5	3	30	49	10	12	50	39	34	4,5	8	4,5	M6	4	917	1372
WFI1610-3	15	10	3	34	58	10	12	57	45	34	5,5	9,5	5,5	M6	2	735	1086
WFI1616-2	15	16	3	30	49	10	12	40	39	34	5,5	9,5	5,5	M6	4	500	704
WFI2004-4	19,5	4	2,381	34	57	11	13	46	45	40	5,5	9,5	5,5	M6	4	824	1596
WFI2005-4	19	5	3	34	57	11	13	51	45	40	5,5	9,5	5,5	M6	3	1092	1896
WFI2010-3	19,4	10	3,175	36	60	11	12	54	46	42	5,5	9,5	5,5	M6	2	908	1490
WFI2020-2	19,4	20	3,5	36	60	11	12	40	46	42	5,5	9,5	5,5	M6	4	711	1094
WFI2504-4	24,3	4	2,381	40	63	11	15	46	51	46	5,5	9,5	5,5	M6	4	909	1998
WFI2505-4	24	5	3	40	63	11	15	51	51	46	5,5	9,5	5,5	M6	3	1224	2429
WFI2510-4	24,5	10	3,969	46	72	12	15	85	58	52	6,5	11	6,5	M6	2	1743	3123
WFI2525-2	24,1	25	3,5	42	70	12	15	47	55	50	6,5	11	6,5	M6	3	790	1369
WFI3205-4	31,6	5	3,5	46	72	12	15	52	58	52	6,5	11	6,5	M8X1	4	1708	3742
WFI3210-4	31,6	10	5,556	54	88	15	20	90	70	62	9	14	8,5	M8X1	4	3000	5426
WFI3220-4	31	20	3,969	52	87	15	20	90	67	56	9	14	8,5	M8X1	4	1939	3998
WFI3232-2	31	32	3,969	52	87	15	20	58	67	56	9	14	8,5	M8X1	2	1058	2025
WFI4005-4	39,6	5	3,5	56	90	15	20	55	72	64	9	14	8,5	M8X1	4	1889	4756
WFI4010-4	39,6	10	7,144	62	104	18	25	93	82	70	11	18	11	M8X1	4	4742	8972
WFI4020-3	38	20	6	64	106	18	25	90	81	72	11	18	11	M8X1	3	2933	5639
WFI4040-2	40	40	6,35	68	110	18	25	70	85	75	11	18	11	M8X1	2	2204	4072
WFI5005-5	49	5	3,5	68	110	18	25	52	85	75	11	18	11	M8X1	5	2494	7369
WFI5010-4	49,3	10	7,144	72	114	18	25	93	92	82	11	18	11	M8X1	4	5325	11389
WFI5020-3	48,2	20	6,35	77	119	18	25	93	94	82	11	18	11	M8X1	3	3596	7755

WFI SERIE



Item	d	l	Da	D	A	B	M	L	W	H	X	Y	Z	Q	n	Ca	C0a
	[mm]															[Kgf]	
WFI5040-2	48	40	6,5	77	119	18	25	71	94	82	11	18	11	M8X1	2	2505	5054
WFI6310-4	62,6	10	7,144	85	131	22	30	98	107	95	14	20	13	M8X1	4	6056	14995
WFI6320-4	62,6	20	9,525	95	146	22	30	149	116	100	14	20	13	M8X1	4	8659	19144
WFI8010-4	80	10	7,144	105	150	22	30	98	127	115	14	20	13	M8X1	4	6716	19224
WFI8020-4	80	20	12,7	125	165	22	30	160	145	130	14	20	13	M8X1	4	14194	32174

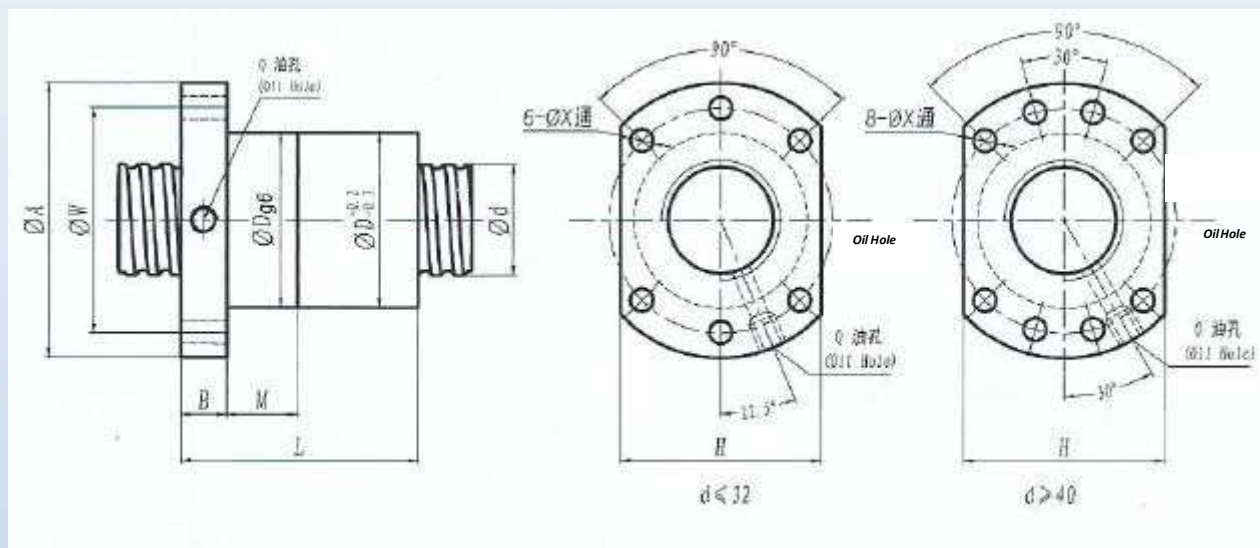
WFU SERIE



Item	d	l	Da	D	A	B	M	L	W	H	X	Q	n	ca	C0a
[mm]															
WFU0802-3	7,5	2	1,588	16	31	8	10	25	23	25	3,40	M4	3	218	266
WFU0802 5-3	7,5	2,50	1.588	16	31	8	10	25	23	30	3,4	M4	3	218	266
WFU1202-3	11,5	2	1,588	20	40	8	10	30	32	30	4,5	M4	3	284	444
WFU1204-4	11,4	4	2	24	40	10	12	40	32	30	4,5	M6	4	475	703
WFU1205-5	11,4	5	2	24	40	10	12	40	32	35	4,5	M6	4	493	744
WFU1210-2	11,4	10	2	24	40	10	12	30	32	35	4,5	M6	2	263	363
WFU1604-4	15,3	4	2,381	28	48	10	12	40	38	40	5,5	M6	4	719	1195
WFU1605-4	15	5	3	28	48	10	12	50	38	40	5,5	M6	4	917	1372
WFU1610-3	15	10	3	28	48	10	12	50	38	40	5,5	M6	3	735	1086
WFU1616-2	15	16	3	30	50	10	12	32	38	39	5,5	M6	2	500	704
WFU2004-4	19,5	4	2,381	36	58	10	13	42	47	44	6,6	M6	4	824	1596
WFU2005-4	19	5	3	36	58	10	13	51	47	44	6,6	M6	4	1092	1896
WFU2010-3	19,4	10	3,175	36	57	10	12	54	46	48	6,6	M6	3	908	1490
WFU2020-2	19,4	20	3,5	36	57	10	12	40	46	48	6,6	M6	2	711	1094
WFU2504-4	24,3	4	2,381	40	62	10	12	42	51	48	6,6	M6	4	909	1998
WFU2505-4	24	5	3	40	62	10	12	51	51	48	6,6	M6	4	1224	2429
WFU2510-4	24,5	10	3,969	40	62	12	15	85	51	48	6,6	M6	4	1743	3123
WFU2525-2	24,1	25	3,5	42	68	12	15	47	55	57	6,6	M6	2	790	1369
WFU3205-4	31,6	5	3,5	50	80	12	15	52	65	62	9	M6	4	1708	3742
WFU3210-4	31,6	10	5,556	50	80	12	15	90	65	62	9	M6	4	3000	5426
WFU3220-4	31	20	3,969	52	83	12	15	90	67	69	9	M6	3	1939	3998
WFU3232-2	31	32	3,969	52	83	12	15	58	67	69	9	M6	2	1058	2025
WFU4005-4	39,6	5	3,5	63	93	14	20	55	78	70	9	M8X1	4	1889	4756
WFU4010-4	39,6	10	7,144	63	93	14	20	93	78	70	9	M8X1	4	4742	8972
WFU4020-3	38	20	6	64	100	14	20	90	81	83	9	M8X1	3	2933	5639
WFU4040-2	40	40	6,35	68	105	14	20	70	85	87	9	M8X1	2	2204	4072

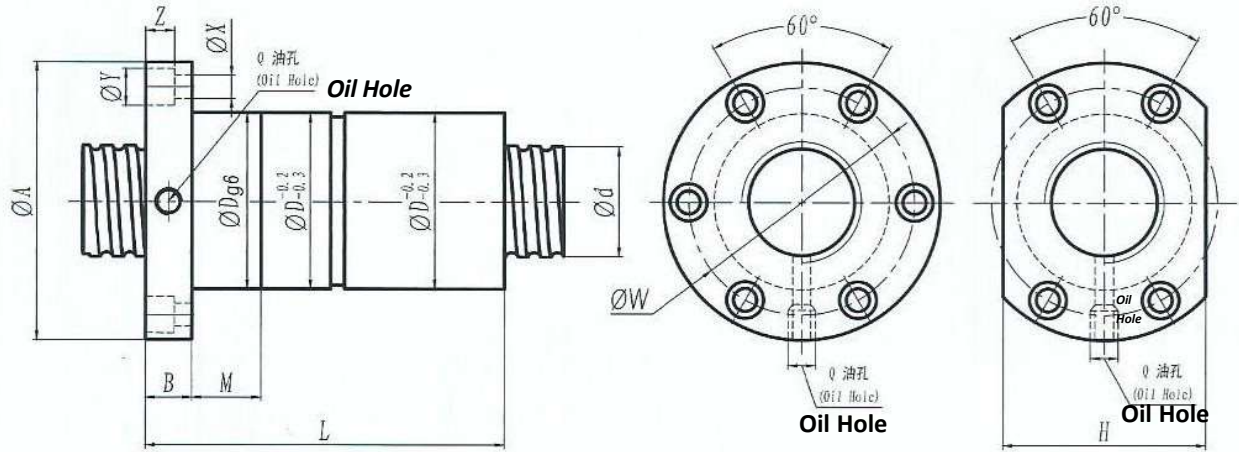
WFU SERIE

Oil Hole



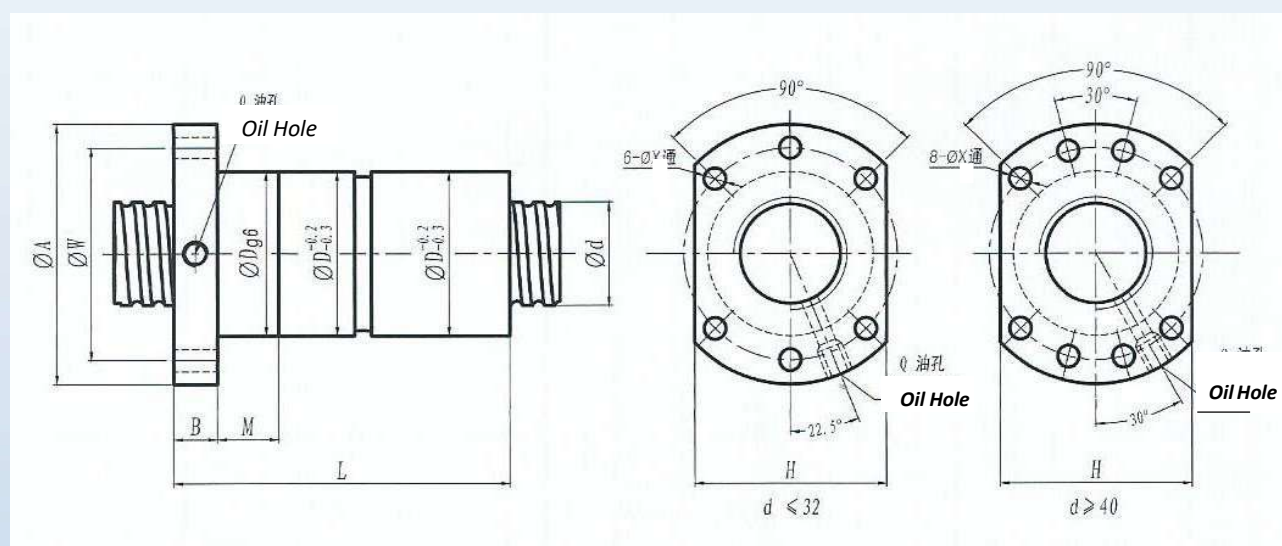
Item	d	l	Da	D	A	B	M	L	W	H	X	Q	n	ca	C0a
	[mm]													[Kgf]	
WFU5005-5	49	5	3,5	68	107	16	25	52	85	92	11	M8X1	5	2494	7369
WFU5010-4	49,3	10	7,144	75	110	16	25	93	93	85	11	M8X1	4	5325	11389
WFU5020-3	48,2	20	6,35	75	110	16	25	93	93	85	11	M8X1	3	3596	7755
WFU5040-2	48	40	6,5	77	117	18	25	71	94	98	11	M8X1	2	2505	5054
WFU6310-4	62,6	10	7,144	90	125	18	25	98	108	95	11	M8X1	4	6056	14995
WFU6320-4	62,6	20	9,525	95	135	20	30	149	115	100	13	M8X1	4	8659	19144
WFU8010-4	80	10	7,144	105	145	20	30	98	125	110	13	M8X1	4	6716	19224
WFU8020-4	80	20	12,7	125	165	25	30	154	145	130	13	M8X1	4	14194	32174

YFI SERIE



Item	d	l	Da	D	A	B	M	L	W	H	X	Y	Z	Q	n	Ca	Coa
	[mm]															[Kgf]	
YFI1604-4	15,3	4	2,381	30	49	10	12	80	39	34	4,5	8	4,5	M6	4	719	1195
YFI1605-4	15	5	3	30	49	10	12	100	39	34	4,5	8	4,5	M6	4	917	1372
YFI2004-4	19,5	4	2,381	34	57	11	15	80	45	40	5,5	9,5	5,5	M6	4	824	1596
YFI2005-4	19	5	3	34	57	11	15	101	45	40	5,5	9,5	5,5	M6	4	1092	1896
YFI2010-3	19,35	10	3,175	36	60	11	15	98	46	42	5,5	9,5	5,5	M6	3	908	1490
YFI2504-4	24,3	4	2,381	40	63	11	15	80	51	46	5,5	9,5	5,5	M6	4	909	1998
YFI2505-4	24	5	3	40	63	11	15	101	51	46	5,5	9,5	5,5	M6	4	1224	2429
YFI2510-4	24,5	10	3,969	46	72	12	15	145	58	52	6,5	11	6,5	M6	4	1743	3123
YFI3205-4	31,6	5	3,5	46	72	12	15	102	58	52	6,5	11	6,5	M8X1	4	1708	3742
YFI3210-4	31,6	10	5,556	54	88	15	20	162	70	62	9	14	8,5	M8X1	4	3000	5426
YFI3220-4	31	20	3,969	52	87	15	20	145	67	56	9	14	8,5	M8X1	4	1939	3998
YFI4005-4	39,58	5	3,5	56	90	15	20	105	72	64	9	14	8,5	M8X1	4	1889	4756
YFI4010-4	39,51	10	7,144	62	104	18	25	165	82	70	11	18	11	M8X1	4	4742	8972
YFI4020-3	38	20	6	64	106	18	25	195	82	72	11	18	11	M8X1	3	2933	5639
YFI5005-5	49	5	3,5	68	110	18	25	120	85	75	11	18	11	M8X1	5	2494	7369
YFI5010-4	49,31	10	7,144	72	114	18	25	171	92	82	11	18	11	M8X1	4	5325	11389
YFI5020-3	48,15	20	6,35	77	119	18	25	200	94	82	11	18	11	M8X1	3	3596	7755
YFI5040-2	48	40	6,5	77	119	18	25	156	94	82	11	18	11	M8X1	2	2505	5054
YFI6310-4	62,55	10	7,144	85	131	22	30	182	107	95	14	20	13	M8X1	4	6056	14995
YFI6320-4	62,55	20	9,525	95	146	22	30	290	116	100	14	20	13	M8X1	4	8659	19144
YFI8010-4	80	10	7,144	105	150	22	30	182	127	115	14	20	13	M8X1	4	6716	19224
YFI8020-4	80	20	12,7	125	165	22	30	295	145	130	14	20	13	M8X1	4	14194	32174

YFU SERIE



Item	d	l	Da	D	A	B	M	L	W	H	X	Q	n	Ca	C0a
	[mm]													[Kgf]	
YFU1604-4	15,3	4	2,381	28	48	10	12	80	38	40	5,5	M6	4	719	1195
YFU1605-4	15	5	3	28	48	10	12	100	38	40	5,5	M6	4	917	1372
YFU2004-4	19,5	4	2,381	36	58	10	12	80	47	44	6,6	M6	4	824	1596
YFU2005-4	19	5	3	36	58	10	12	101	47	44	6,6	M6	4	1092	1896
YFU2010-3	19,35	10	3,175	36	57	10	12	98	46	48	6,6	M6	3	908	1490
YFU2504-4	24,3	4	2,381	40	62	10	12	80	51	48	6,6	M6	4	909	1998
YFU2505-4	24	5	3	40	62	10	12	101	51	48	6,6	M6	4	1224	2429
YFU2510-4	24,5	10	3,969	40	62	12	15	145	51	48	6,6	M6	3	1743	3123
YFU3205-4	31,6	5	3,5	50	80	12	15	102	65	62	9	M6	4	1708	3742
YFU3210-4	31,6	10	5,556	50	80	12	15	162	65	62	9	M6	4	3000	5426
YFU3220-4	31	20	3,969	52	83	14	20	145	67	69	9	M8X1	4	1939	3998
YFU4005-4	39,58	5	3,5	63	93	14	20	105	78	70	9	M8X1	4	1889	4756
YFU4010-4	39,51	10	7,144	63	93	14	20	165	78	70	9	M8X1	4	4742	8972
YFU4020-3	38	20	6	64	100	14	20	195	81	83	9	M8X1	3	2933	5639
YFU5005-5	49	5	3,5	68	107	16	25	120	85	85	11	M8X1	5	2494	7369
YFU5010-4	49,31	10	7,144	75	110	16	25	171	93	85	11	M8X1	4	5325	11389
YFU5020-3	48,15	20	6,35	75	110	16	25	200	93	85	11	M8X1	3	3596	7755
YFU5040-2	48	40	6,5	77	117	18	25	156	94	98	11	M8X1	2	2505	5054
YFU6310-4	62,55	10	7,144	90	125	18	25	182	108	95	11	M8X1	4	6056	14995
YFU6320-4	62,55	20	9,525	95	135	20	30	290	115	100	13	M8X1	4	8659	19144
YFU8010-4	80	10	7,144	105	145	20	30	182	125	110	13	M8X1	4	6716	19224
YFU8020-4	80	20	12,7	125	165	25	35	295	145	130	13	M8X1	4	14194	32174

P W R

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