

6.4 Chiocciole per viti a ricircolo di sfere rettificata

6.4.1 Chiocciola flangiata singola FSC con ricircolo a cassetto

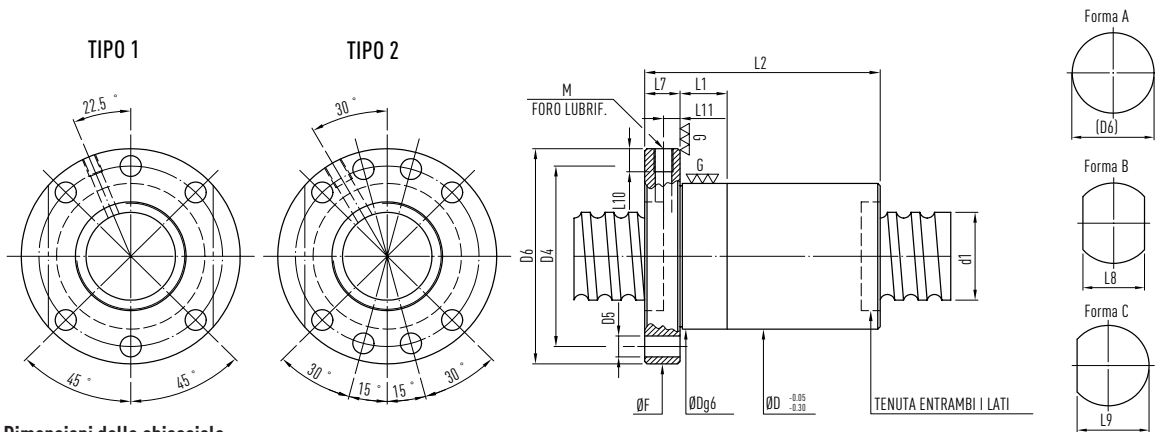


Tabella 6.4 Dimensioni della chiocciola

Tipo	Misure					Giri di sfere	Rigidezza K (kgf/µm)	Carico Dinamico C(kgf)	Carico Statico Co(kgf)	Chiocciola			Flangia			Foro Lubrif.			Doppio principio	Filetto incompleto	
	Ø Nominale	Passo	PCD	Ø primitivo	Ø sfera					D	L1	L2	Tipo	Forma A (D6)	Forma B (L8)	Forma C (L9)	L7	D4			D5
14-10K3	14	10	14.6	10.724	3.175	3	24	920	1790	28	10	46									
15-10K3	15	10	16	12.869	3	3	26	930	1970	28	10	45									
15-16K2	15	16	16	12.869	3	2	16	610	1230	34	10	45									
15-10K3	15	10	15.6	12.324	3.175	3	25	960	1930	34	10	44									
15-20K2	15	20	20	15.6	3.175	2	15	630	1256	34	10	50									
16-16K2	16	16	16.4	13.124		2	17	680	1385	34	10	47									
20-10K4	20	10	21	17.868	3	4	43	1390	3560	36	10	55									
20-5K4	20	5	5			4	42	1490	3640	36	10	40									
20-10K3	20	10	20.6	17.324	3.175	3	32	1130	2660	36	10	47									
20-20K2	20	20	20			2	21	760	1730	36	10	57									
20-6K5	20	6	20.8	16.744	3.969	5	58	2420	5660	42	10	49									
20-8K5	20	8	21	16.132	4.763	5	58	2960	6505	45	10	64									
25-5K4	25	5	5			4	49	1650	4612	40	10	43									
25-10K3	25	10	10			3	38	1260	3370	40	10	50									
25-15K5	25	15	25.6	22.324	3.175	5	63	1980	5730	40	10	90									
25-20K3	25	20	20			3	39	1260	3436	40	10	80									
25-25K2	25	25	25			2	25	840	2170	40	10	69									
25-6K5	25	6	6			5	68	2720	7192	45	10	50									
25-8K5	25	8	8			5	70	2710	7170	48	10	62									
25-10K4	25	10	25.8	21.744	3.969	4	56	2210	5660	45	10	60									
25-12K4	25	12	12			4	56	2200	5640	45	10	67									
25-16K3	25	16	16			3	42	1670	4127	45	10	71									
25-20K3	25	20	20			3	43	1710	4290	45	10	80									
28-8K5	28	8	26	21.132	4.763	5	72	3480	8683	50	10	64									
28-6K5	28	6	28.8	24.744	3.969	5	74	2840	7966	50	10	49									
28-8K5	28	8	8			5	79	3690	9780	50	10	62									
28-10K5	28	10	29	24.132	4.763	5	80	3680	9760	52	10	72									
28-16K4	28	16	16			4	64	2970	7661	50	10	92									
32-5K4	32	5	5			4	57	1840	5960	48	10	38									
32-5.08K4	32	5.08	32.6	29.324	3.175	4	57	1840	5940	48	10	39									
32-6K5	32	6	6			5	83	3090	9480	56	10	48									
32-8K5	32	8	8			5	85	3080	9430	53	10	59									
32-8K5	32	8	8			5	84	3080	9460	53	10	59									
32-10K5	32	10	10			5	85	3080	9450	55	10	73									
32-15K4	32	15	32.8	28.744	3.969	4	69	2500	7440	50	10	90									
32-20K3	32	20	20			3	52	1900	5430	50	20	87									
32-32K2	32	32	32			2	34	1280	3530	50	20	87									
32-40K2	32	40	40			2	32	1240	3440	50	20	94									
32-8K5	32	8	8			5	84	3860	10914	55	10	64									
32-10K5	32	10	10			5	86	3850	10890	56	10	79									
32-12K5	32	12	33	28.132	4.763	5	87	3840	10870	56	20	88									
32-20K4	32	20	20			4	72	3190	8914	54	20	106									
32-25K3	32	25	25			3	53	2420	6500	54	20	97									
32-32K2	32	32	32			2	34	1620	4100	54	20	88									
32-10K5	32	10	10			5	90	5640	14480	57	10	77									
32-12K5	32	12	33.4	26.91	6.35	5	90	5620	14450	62	20	87									
32-16K4	32	16	16			4	73	4570	11390	57	20	92									
32-20K4	32	20	20			4	70	4240	10854	57	20	107									
36-6K5	36	6	36.8	32.744	3.969	5	88	3240	10632	56	10	51									
36-10K5	36	10	10			5	98	6010	16440	56	20	80									
36-12K5	36	12	12			5	99	5990	16420	66	20	87									
36-16K5	36	16	16			5	100	5960	16350	66	20	109									
36-20K4	36	20	37.4	30.91	6.35	4	80	4840	12880	65	20	108									
36-20K4	36	20	20			4	79	4840	12880	61	20	108									
36-36K2	36	36	36			2	39	2540	6240	61	20	95									
38-8K5	38	8	39	34.132	4.763	5	96	4190	13110	61	20	64									
38-10K4	38	10	10			4	81	5050	13790	61	20	70									
38-15K4	38	15	15			4	83	5020	13740	61	20	88									
38-16K5	38	16	39.4	32.91	6.35	5	104	6140	17340	63	20	108									
38-20K4	38	20	20			4	83	4990	13660	63	25	108									
38-25K4	38	25	25			4	83	4940	13560	63	25	127									
38-40K2	38	40	40			2	40	2590	6560	63	25	103									

Nota: 1. Rigidezza senza precarico. Il carico assiale è calcolato al 30% del carico dinamico.  
2. Circuiti inferiori o superiori a quelli indicati sono comunque disponibili.

# Viti a ricircolo di sfere

## Caratteristiche e tipi

### 6.4 Chiocciolo per viti a ricircolo di sfere rettificate

#### 6.4.1 Chiocciola flangiata singola FSC con ricircolo a cassetto (seguito)

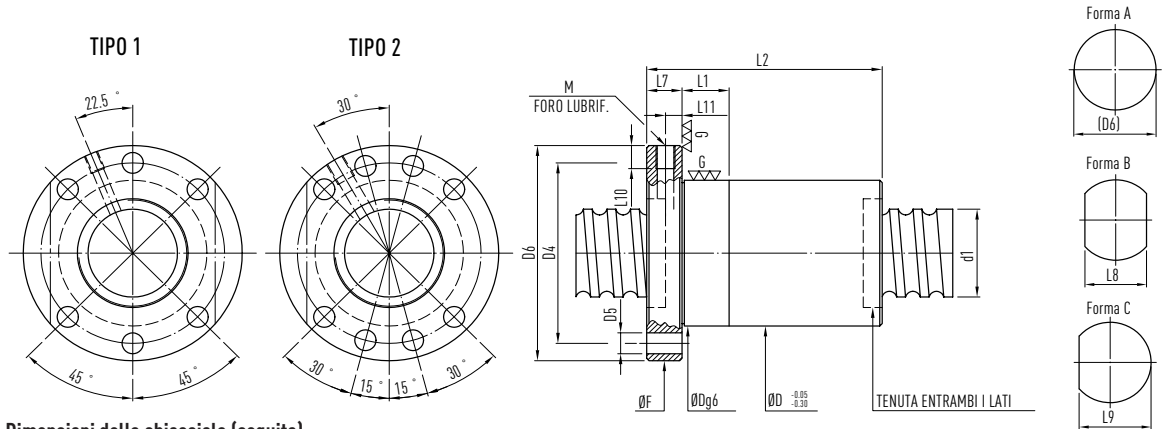


Tabella 6.4 Dimensioni della chiocciola (seguito)

Tipo	Misure		PCD	Ø primitivo	Ø sfera	Giri di sfere	Rigidezza K (kgf/µm)	Carico Dinamico C(kgf)	Carico Statico Co(kgf)	Chiocciola			Flangia			Foro lubrif.			Doppio principio	Filetto incompleto	
	Ø Nominale	Passo								D	L1	L2	Tipo	Forma A (D6)	Forma B (L8)	Forma C (L9)	L7	D4			D5
40-5K5	5	40.6	37.324	3.175	5	85	2470	9490	20	45											
40-6K5	6	40.8	36.744	3.969	5	95	3370	11780	63	20	52	93	70	81.5	78						
40-8K5	8				5	101	4360	14200	20	64											
40-10K5	10	41	36.132	4.763	5	102	4350	14180	61	20	80										
40-20K4	20				4	84	3520	11130	61	20	110										
40-16K5	16	41.2	35.522	5.556	5	107	5170	15510	68	20	108	98	75	86.5	83						
40-10K5	10				5	106	6340	18400	20	83											
40-12K5	12				5	108	6330	18380	20	86											
40-16K5	16				5	109	6300	18320	70	20	108	100	75	87.5	14	85	9	7			
40-20K4	20	41.4	34.91	6.35	4	87	5130	14440	20	110											
40-30K3	30				3	67	4000	11010	20	117											
40-25K4	25				4	86	5080	14350	25	127											
40-40K2	40				2	42	2660	6940	65	25	101	95	72	83.5	80						
40-12K5	12				5	110	7430	20790	20	90											
40-16K5	16	41.6	34.299	7.144	5	112	7400	20720	75	20	109	110	85	97.5	93						
45-8K5	8	46	41.132	4.763	5	109	4550	15860	70	20	66	105	80	92.5	90						
45-10K5	10				5	118	6810	21320	20	78											
45-12K5	12				5	119	6800	21290	20	89											
45-16K5	16				5	121	6780	21240	20	108											
45-20K4	20	46.4	39.91	6.35	4	98	5520	16760	75	25	108	110	85	97.5	93						
45-25K4	25				4	98	5480	16670	25	129											
45-40K3	40				3	71	4100	12020	25	145											
45-12K5	12				5	119	7830	23290	20	88											
45-16K5	16	46.6	39.299	7.144	5	120	7810	23230	80	20	119	117	92	104.5	100						
45-20K4	20				4	97	6360	18330	25	113											
50-5K5	5	50.6	47.324	3.175	5	95	2700	11940	70	20	45	100	75	87.5	85						
50-8K5	8	51	46.132	4.763	5	116	4730	17530	75	20	74	110	85	97.5	93						
50-10K5	10				5	125	7050	23300	25	80											
50-12K5	12				5	127	7040	23280	25	90											
50-15K5	15				5	129	7030	23250	82	25	104	2	118	92	105	16	100	11	M8 x 1P	10	8
50-16K5	16				5	129	7020	23230	25	109											
50-20K4	20	51.4	44.91	6.35	4	104	5720	18340	25	106											
50-25K4	25				4	104	5690	18260	25	129											
50-30K4	30				4	104	5650	18170	25	147											
50-35K3	35				3	80	4430	13840	25	133											
50-40K3	40				3	79	4390	13750	25	145											
50-30K2	30	51.6	44.299	7.144	2	53	3560	9960	82	25	92	118	92	105	100						
50-12K5	12				5	130	9480	28776	25	97											
50-16K5	16				5	132	9450	28710	25	112											
50-20K5	20	51.8	43.688	7.938	5	134	9420	28630	85	25	138	121	95	108	103						
50-50K2	50				2	52	3980	10860	25	124											
50-20K4	20	52.2	42.466	9.525	4	113	9870	27420	86	25	120										
55-16K5	16	56.4	49.91	6.35	5	139	7420	26157	82	25	104	118	92	105	100						
63-10K5	10				5	144	7720	29190	25	84											
63-12K5	12				5	147	7720	29180	25	94											
63-20K5	20	64.4	57.91	6.35	5	157	7850	30020	95	25	132	135	100	117.5	115						
63-40K2	40				2	62	3310	11100	25	110											
63-12K5	12	64.8	56.688	7.938	5	152	10520	36440	98	25	94	138	103	120.5	118						
63-16K4	16				4	132	11010	34520	25	100											
63-20K5	20	65.2	55.466	9.525	5	168	13430	43530	107	25	140	147	112	129.5	127						
63-25K5	25				5	166	13390	43420	110	25	165	150	115	132.5	130	13.5					
70-16K4	16	72.2	62.466	9.525	4	141	11470	38040	25	105											
70-20K4	20				4	143	11450	37990	115	25	122	155	120	137.5	135						
80-10K5	10	81.4	74.91	6.35	5	166	8620	37980	110	25	80	150	115	132.5	130						
80-12K5	12	81.8	73.688	7.938	5	177	11740	47130	115	25	102	155	120	137.5	135						
80-16K4	16				4	155	12410	44960	125	25	105	170	135	152.5	150						
80-20K4	20				4	160	12400	44910	120	25	122										
80-25K4	25	82.2	72.466	9.525	4	159	12370	44840	120	25	145	165	130	147.5	145						
80-30K4	30				4	161	12340	44750	120	25	165										

Note: 1. Rigidity without preload: The axial load is calculated by 30% of dynamic load.  
2. Circuits less than K5 also available.

6.4.2 Chiocciola flangiata doppia FDC con ricircolo a cassetto

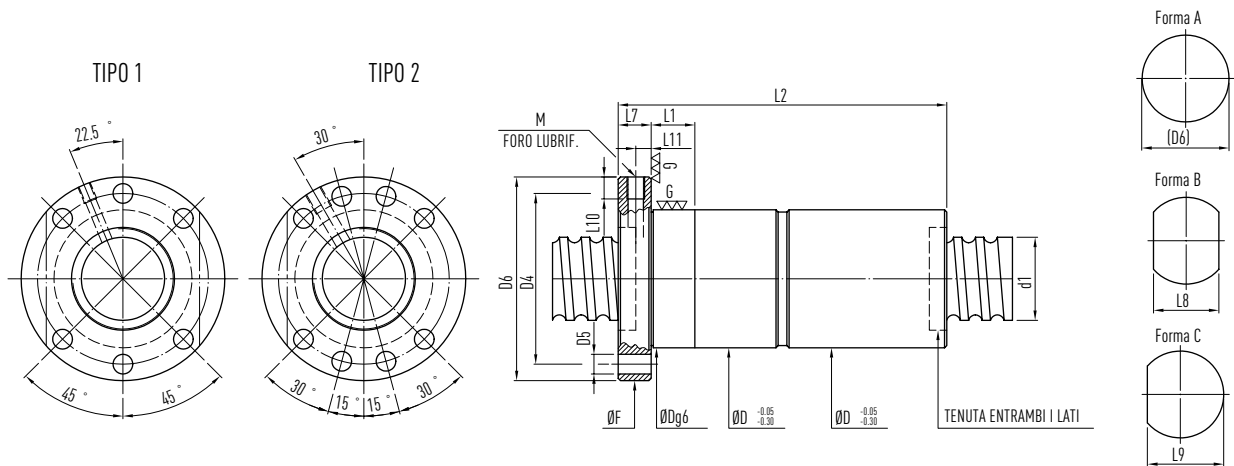


Tabella 6.5 Dimensioni della chiocciola

Tipo	Misure			Ø primitivo	Ø sfera	Giri di sfere	Rigidezza K (kgf/µm)	Carico Dinamico C(kgf)	Carico Statico Co(kgf)	Chiocciola			Flangia			Foro Lubrif.			Doppio principio	Filetto incompleto
	Ø Nominale	Passo	PCD							Tipo	Forma A (D6)	Forma B (L8)	Forma C (L9)	L7	D4	D5	M	L10		
14-10K3	14	10	14.6	10.724	3.175	3	31	920	1790	10	96									
15-10K3	15	10	16	12.869	3	3	34	930	1970	28	10	94								
15-16K2	15	16	16	12.869	3	2	21	610	1230	10	94									
15-10K3	15	10	15.6	12.324	3.175	3	33	960	1930	10	92									
15-20K2	15	20	20	15.6	3.175	2	20	630	1256	10	104									
16-16K2	16	16	16.4	13.124	3.175	2	23	680	1385	34	10	98								
20-10K4	20	10	21	17.868	3	4	57	1390	3560	10	114									
20-5K4	20	5				4	55	1490	3640	10	84									
20-10K3	20	10	20.6	17.324	3.175	3	42	1130	2660	36	10	98								
20-20K2	20	20				2	27	760	1730	10	118									
20-6K5	20	6	20.8	16.744	3.969	5	77	2420	5660	42	10	102								
20-8K5	20	8	21	16.132	4.763	5	77	2960	6505	45	10	132								
25-5K4	25	5				4	65	1650	4612	10	90									
25-10K3	25	10				3	50	1260	3370	10	104									
25-15K5	25	15	25.6	22.324	3.175	5	83	1980	5730	40	10	184								
25-20K3	25	20				3	51	1260	3436	10	164									
25-25K2	25	25				2	32	840	2170	10	142									
25-6K5	25	6				5	91	2720	7192	45	10	104								
25-8K5	25	8				5	92	2710	7170	48	10	128								
25-10K4	25	10	25.8	21.744	3.969	4	74	2210	5660	10	124									
25-12K4	25	12				4	74	2200	5640	10	138									
25-16K3	25	16				3	55	1670	4127	45	10	146								
25-20K3	25	20				3	55	1710	4290	10	164									
25-8K5	25	8	26	21.132	4.763	5	96	3480	8683	50	10	132								
28-6K5	28	6	28.8	24.744	3.969	5	93	2840	7966	10	102									
28-8K5	28	8				5	104	3690	9780	10	128									
28-10K5	28	10	29	24.132	4.763	5	105	3680	9760	10	148									
28-16K4	28	16				4	84	2970	7661	10	188									
32-5K4	32	5	32.6	29.324	3.175	4	77	1840	5960	10	80									
32-5.08K4	32	5.08				4	77	1840	5940	48	10	82								
32-6K5	32	6				5	111	3090	9480	56	10	100								
32-8K5	32	8				5	112	3080	9430	53	10	122								
32-8K5	32	8				5	112	3080	9460	10	122									
32-10K5	32	10				5	113	3850	10890	55	10	132								
32-12K5	32	12	33	28.132	4.763	5	114	3840	10870	56	20	180								
32-20K4	32	20				4	94	3190	8914	20	216									
32-25K3	32	25				3	70	2420	6500	54	20	198								
32-32K2	32	32				2	44	1620	4100	20	180									
32-10K5	32	10				5	119	5640	14480	10	158									
32-12K5	32	12	33.4	26.91	6.35	5	119	5620	14450	62	20	178								
32-16K4	32	16				4	96	4570	11390	20	188									
32-20K4	32	20				4	71	4240	10854	57	20	218								
36-6K5	36	6	36.8	32.744	3.969	5	118	3240	10632	56	10	106								
36-10K5	36	10				5	130	6010	16440	20	164									
36-12K5	36	12				5	131	5990	16420	66	20	178								
36-16K5	36	16	37.4	30.91	6.35	5	132	5960	16350	20	222									
36-20K4	36	20				4	105	4840	12880	65	20	220								
36-20K4	36	20				4	105	4840	12880	20	220									
36-36K2	36	36				2	51	2540	6240	61	20	194								
38-8K5	38	8	39	34.132	4.763	5	127	4190	13110	61	20	132								
38-10K4	38	10				4	107	5050	13790	20	144									
38-15K4	38	15				4	109	5020	13740	20	180									
38-16K5	38	16	39.4	32.91	6.35	5	137	6140	17340	20	220									
38-20K4	38	20				4	110	4990	13660	63	25	220								
38-25K4	38	25				4	109	4940	13560	25	258									
38-40K2	38	40				2	53	2590	6560	25	210									

Nota: 1. Rigidezza senza precarico. Il carico assiale è calcolato al 10% del carico dinamico.  
2. Circuiti inferiori o superiori a quelli indicati sono comunque disponibili.

6.4.2 Chiocciola flangiata doppia FDC con ricircolo a cassetto (seguito)

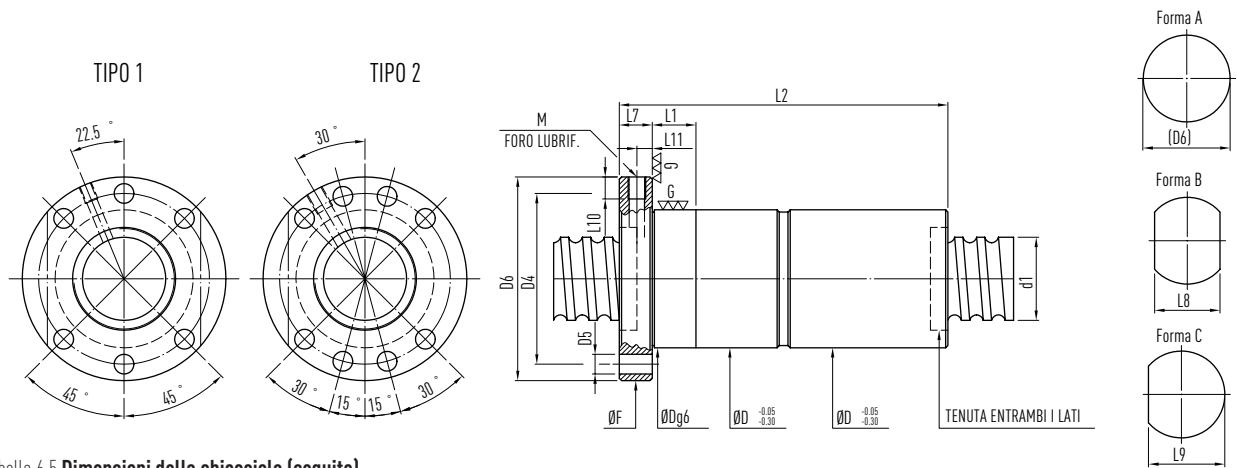


Tabella 6.5 Dimensioni della chiocciola (seguito)

Tipo	Misure			Ø primitivo	Ø sfera	Giri di sfere	Rigidezza K (kgf/µm)	Carico Dinamico C(kgf)	Carico Statico Col(kgf)	Chiocciola			Flangia					Foro lubrif.			Doppio principio	Filetto incompleto	
	Ø Nominale	Passo	PCD							D	L1	L2	Tipo	Forma A (D6)	Forma B (L8)	Forma C (L9)	L7	D4	D5	M			L10
40-5K5		5	40.6	37.324	3.175	5	114	2470	9490	63	20	95											
40-6K5		6	40.8	36.744	3.969	5	127	3370	11780	63	20	109		93	70	81.5		78					
40-8K5		8				5	135	4360	14200	63	20	140											
40-10K5		10	41	36.132	4.763	5	136	4350	14180	61	20	164		91	68	79.5		76					
40-20K4		20				4	111	3520	11130	61	20	226											
40-16K5		16	41.2	35.522	5.556	5	141	5170	15510	68	20	220		98	75	86.5		83					
40-10K5		10				5	141	6340	18400	68	20	170											
40-12K5		12				5	142	6330	18380	68	20	178					14	9					
40-16K5		16				5	143	6300	18320	70	20	221		100	75	87.5		85					
40-20K4		20	41.4	34.91	6.35	4	115	5130	14440	70	20	225											
40-30K3		30				3	88	4000	11010	70	20	239											
40-25K4		25				4	114	5080	14350	65	25	259		95	72	83.5		80					
40-40K2		40				2	56	2660	6940	65	25	207											
40-12K5		12				5	146	7430	20790	75	20	185											
40-16K5		16	41.6	34.299	7.144	5	147	7400	20720	75	20	223		110	85	97.5		93					
45-8K5		8	46	41.132	4.763	5	145	4550	15860	70	20	137		105	80	92.5		90					
45-10K5		10				5	156	6810	21320	70	20	161											
45-12K5		12				5	158	6800	21290	70	20	183											
45-16K5		16				5	160	6780	21240	70	20	221											
45-20K4		20	46.4	39.91	6.35	4	129	5520	16760	75	25	221											
45-25K4		25				4	129	5480	16670	75	25	263		110	85	97.5		93					
45-40K3		40				3	93	4100	12020	75	25	295											
45-12K5		12				5	157	7830	23290	75	20	181											
45-16K5		16	46.6	39.299	7.144	5	159	7810	23230	75	20	243											
45-20K4		20				4	128	6360	18330	80	25	230		117	92	104.5		100					
50-5K5		5	50.6	47.324	3.175	5	129	2700	11940	70	20	95		100	75	87.5		85					
50-8K5		8	51	46.132	4.763	5	154	4730	17530	75	20	153		110	85	97.5		93					
50-10K5		10				5	166	7050	23300	75	25	166											
50-12K5		12				5	169	7040	23280	75	25	186					16	11					
50-15K5		15				5	171	7030	23250	82	25	214		2	118	92	105		100				
50-16K5		16				5	171	7020	23230	82	25	224											
50-20K4		20	51.4	44.91	6.35	4	138	5720	18340	75	25	218											
50-25K4		25				4	134	5690	18260	75	25	263											
50-30K4		30				4	136	5650	18170	75	25	299											
50-35K3		35				3	105	4430	13840	75	25	271		110	85	97.5		93					
50-40K3		40				3	104	4390	13750	75	25	295											
50-30K2		30	51.6	44.299	7.144	2	70	3560	9960	82	25	190		118	92	105		100					
50-12K5		12				5	173	9480	28776	82	25	200											
50-16K5		16				5	175	9450	28710	85	25	229											
50-20K5		20	51.8	43.688	7.938	5	176	9420	28630	85	25	281		121	95	108		103					
50-50K2		50				2	69	3980	10860	85	25	253											
50-20K4		20	52.2	42.466	9.525	4	149	9870	27420	86	25	245											
55-16K5		16	56.4	49.91	6.35	5	185	7420	26157	82	25	213		118	92	105		100					
63-10K5		10				5	192	7720	29190	82	25	173											
63-12K5		12				5	196	7720	29180	95	25	194											
63-20K5		20	64.4	57.91	6.35	5	208	7850	30020	95	25	270		135	100	117.5		115					
63-40K2		40				2	82	3310	11100	95	25	226											
63-12K5		12	64.8	56.688	7.938	5	202	10520	36440	98	25	194					20						
63-16K4		16				4	175	11010	34520	107	25	206											
63-20K5		20	65.2	55.466	9.525	5	222	13430	43530	107	25	286		147	112	129.5		127					
63-25K5		25				5	218	13390	43420	110	25	336		150	115	132.5		130	13.5				
70-16K4		16	72.2	62.466	9.525	4	187	11470	38040	115	25	216											
70-20K4		20				4	190	11450	37990	115	25	250											
80-10K5		10	81.4	74.91	6.35	5	223	8620	37980	110	25	170		150	115	132.5		130					
80-12K5		12	81.8	73.688	7.938	5	238	11740	47130	115	25	210		155	120	137.5		135					
80-16K4		16				4	206	12410	44960	125	25	216											
80-20K4		20	82.2	72.466	9.525	4	212	12400	44910	125	25	250		170	135	152.5		150					
80-25K4		25				4	211	12370	44840	120	25	296											
80-30K4		30				4	212	12340	44750	120	25	336		165	130	147.5		145					

Nota: 1. Rigidezza senza precarico. Il carico assiale è calcolato al 10% del carico dinamico.  
2. Circuiti inferiori o superiori a quelli indicati sono comunque disponibili.

## 6.4.3 Chiocciola flangiata singola FSI con deflettore

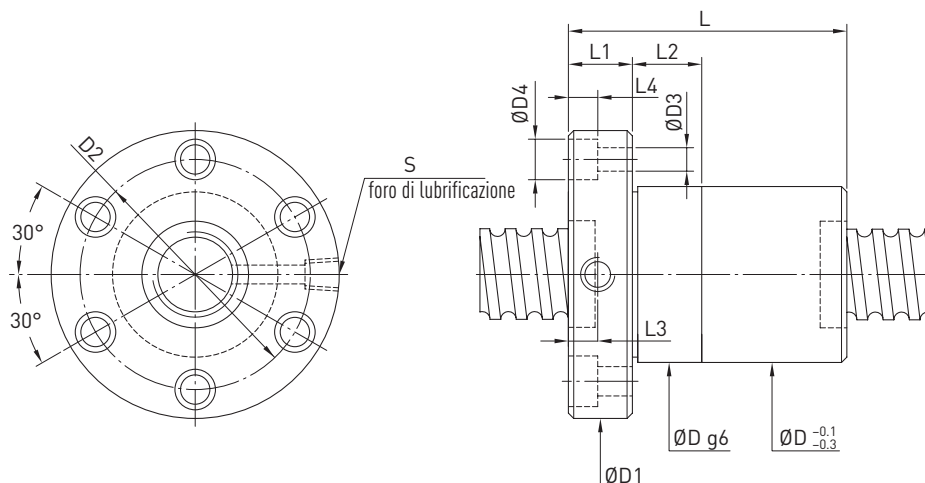


Tabella 6.6 Dimensioni della chiocciola

Tipo chiocciola	ds	P	Diametro sfera	D min.	D1	D2	D3	D4	L	L1	L2	L3	L4	S	dk	Rigidezza [N/µm]	Coefficiente di Carico Dinamico Cdyn [N]	Coefficiente di Carico Statico C0 [N]	Massa [kg]
R8-2.5T3-FSI	8	2.5	1.500	18	35	27	4.5	—	28	5	—	—	—	—	6.65	80	1,700	2,670	0.04
R16-2T3-FSI	16	2.0	1.500	27	44	34	4.5	8.0	36	10	—	5.0	4.5	M6	14.65	140	2,520	5,930	0.17
R16-5T3-FSI	16	5.0	3.175	30	54	41	5.5	9.5	46	12	12	6.0	5.5	M6	13.32	110	7,310	13,310	0.32
R16-5T4-FSI	16	5.0	3.175	30	54	41	5.5	9.5	52	12	12	6.0	5.5	M6	13.32	120	9,360	17,750	0.34
R20-2T4-FSI	20	2.0	1.500	32	52	40	5.5	9.5	40	10	12	5.0	5.5	M6	18.65	360	3,990	11,120	0.25
R20-2T6-FSI	20	2.0	1.500	32	52	40	5.5	9.5	52	10	12	5.0	5.5	M6	18.65	320	5,180	15,510	0.29
R20-5T3-FSI	20	5.0	3.175	34	57	45	5.5	9.5	46	12	12	6.0	5.5	M6	17.32	200	8,520	17,670	0.35
R20-5T4-FSI	20	5.0	3.175	34	57	45	5.5	9.5	53	12	12	6.0	5.5	M6	17.32	270	10,910	23,560	0.38
R25-2T3-FSI	25	2.0	1.500	36	58	46	5.5	9.5	35	10	12	5.0	5.5	M6	23.65	200	3,090	9,800	0.24
R25-2T4-FSI	25	2.0	1.500	36	58	46	5.5	9.5	40	10	12	5.0	5.5	M6	23.65	270	3,950	13,070	0.26
R25-2T6-FSI	25	2.0	1.500	36	58	46	5.5	9.5	50	10	12	5.0	5.5	M6	23.65	390	5,600	19,600	0.30
R25-5T3-FSI	25	5.0	3.175	40	64	51	5.5	9.5	46	11	10	5.5	5.5	M6	22.32	280	9,770	23,140	0.42
R25-5T4-FSI	25	5.0	3.175	40	64	51	5.5	9.5	51	11	10	5.5	5.5	M6	22.32	370	12,520	30,850	0.44
R25-5T5-FSI	25	5.0	3.175	40	63	51	5.5	9.5	56	11	10	5.5	5.5	M6	22.32	400	15,160	38,560	0.47
R25-5T6-FSI	25	5.0	3.175	40	63	51	5.5	9.5	65	11	10	5.5	5.5	M6	22.32	480	17,730	46,270	0.52
R25-10T3-FSI	25	10.0	4.763	45	69	55	6.6	11.0	65	15	12	7.5	6.5	M6	21.13	250	15,910	32,360	0.80
R25-10T4-FSI	25	10.0	4.763	45	69	55	6.6	11.0	80	15	12	7.5	6.5	M6	21.13	330	20,380	43,150	0.90
R32-5T3-FSI	32	5.0	3.175	44	74	60	6.6	11.0	46	12	12	6.0	6.5	M6	29.32	330	11,170	30,810	0.49
R32-5T4-FSI	32	5.0	3.175	44	74	60	6.6	11.0	53	12	12	6.0	6.5	M6	29.32	420	14,310	41,080	0.53
R32-5T6-FSI	32	5.0	3.175	44	74	60	6.6	11.0	66	12	12	6.0	6.5	M6	29.32	630	20,270	61,620	0.59
R32-10T3-FSI	32	10.0	6.350	51	82	68	6.6	11.0	72	16	12	8.0	6.5	M6	26.91	350	25,390	53,270	1.02
R32-10T4-FSI	32	10.0	6.350	51	82	68	6.6	11.0	83	16	12	8.0	6.5	M6	26.91	480	32,520	71,020	1.11
R40-5T4-FSI	40	5.0	3.175	51	80	66	6.6	11.0	53	16	12	8.0	6.5	M8 × 1	37.32	500	15,990	52,800	0.66
R40-5T6-FSI	40	5.0	3.175	51	80	66	6.6	11.0	66	16	12	8.0	6.5	M8 × 1	37.32	740	22,650	79,190	0.73
R40-10T3-FSI	40	10.0	6.350	60	96	80	9.0	14.0	76	16	15	8.0	8.5	M8 × 1	34.91	400	29,590	70,690	1.37
R40-10T4-FSI	40	10.0	6.350	60	96	80	9.0	14.0	87	16	15	8.0	8.5	M8 × 1	34.91	510	37,890	94,260	1.49
R50-5T4-FSI	50	5.0	3.175	62	96	80	9.0	14.0	57	16	15	8.0	8.5	M8 × 1	47.32	620	17,570	67,450	0.95
R50-5T6-FSI	50	5.0	3.175	62	96	80	9.0	14.0	70	16	15	8.0	8.5	M8 × 1	47.32	910	24,900	10,117	1.04
R50-10T3-FSI	50	10.0	6.350	69	114	92	11.0	17.5	78	18	20	9.0	11.0	M8 × 1	44.91	500	33,970	92,560	1.85
R50-10T4-FSI	50	10.0	6.350	69	114	92	11.0	17.5	89	18	20	9.0	11.0	M8 × 1	44.91	630	43,500	123,410	1.98
R50-10T6-FSI	50	10.0	6.350	69	114	92	11.0	17.5	112	18	20	9.0	11.0	M8 × 1	44.91	940	61,650	185,110	2.26
R50-20T4-FSI	50	20.0	9.525	75	129	105	14.0	20.0	186	28	30	14.0	13.0	M8 × 1	42.47	800	93,270	239,550	5.30
R63-10T4-FSI	63	10	6.350	82	134	110	14.0	20.0	91	20	20	10.0	13.0	M8 × 1	57.91	790	48,600	158,580	2.54

## Viti a ricircolo di sfere

### Caratteristiche e tipi

Tabella 6.6 Dimensioni delle chiocciolate - continua

Tipo chiocciola	ds	P	Diametro sfera	D min.	D1	D2	D3	D4	L	L1	L2	L3	L4	S	dk	Rigidezza [N/μm]	Coefficiente di Carico Dinamico Cdyn [N]	Coefficiente di Carico Statico C0[N]	Massa [kg]
<b>R63-10T6-FSI</b>	63	10	6.350	82	134	110	14.0	20.0	114	20	20	10.0	13.0	M8 × 1	57.91	1,150	68,870	237,860	2.88
<b>R80-10T4-FSI</b>	80	10	6.350	99	152	127	14.0	20.0	91	20	20	10.0	13.0	M8 × 1	74.91	960	55,590	21,118	3.00
<b>R80-10T6-FSI</b>	80	10	6.350	99	152	127	14.0	20.0	114	20	20	10.0	13.0	M8 × 1	74.91	1,400	78,790	316,770	3.42
<b>R80-20T3-FSI</b>	80	20	9.525	108	174	143	18.0	26.0	138	24	25	12.0	17.5	M8 × 1	72.47	950	96,630	316,220	6.30
<b>R80-20T4-FSI</b>	80	20	9.525	108	174	143	18.0	26.0	161	24	25	12.0	17.5	M8 × 1	72.47	1,250	123,750	421,620	6.96
<b>R100-20T4-FSI</b>	100	20	9.525	135	194	163	18.0	26.0	161	24	30	12.0	17.5	M8 × 1	92.47	1,550	135,690	531,610	8.60

Le dimensioni senza indicazione dell'unità di misura si intendono in mm

- I valori di rigidezza indicati sono stati calcolati senza precarico per carichi pari al 30% del carico dinamico
- Dimensioni chiocciola non standard su richiesta
- Diametri e passi diversi su richiesta

Esempio di codice:

<b>R</b>	<b>50</b>	<b>10</b>	<b>T4</b>	<b>FSI</b>	<b>2250</b>	<b>2325</b>	<b>0.023</b>
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6.4.4 Chiocciola flangiata singola OFSI con deflettore (DIN 69051 PARTE 5 FORMA B)

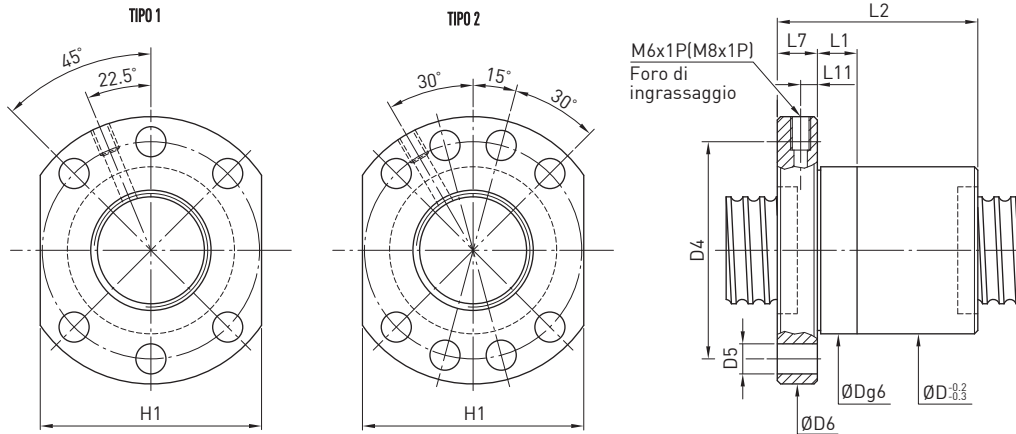


Tabella 6.7 Dimensioni delle chiocciolate

Descrizione	Misure		Ø Sfera	Giri di sfere	C dinamico	C statico CO (kgf)	Chiocciola			Flangia							Cod. HIWIN	
	Ø nominale	Passo					D (g6)	L1	L2	Tipo	H1	D6	L7	D4	D5	L11		Foro ingrassaggio
R16-5T3-OFSI	16	5	3.175	3	1130	2220	28	10	60	1	40	48	10	38	5.5	5	M6x1P	
R20-5T3-OFSI	20	5	3.175	3	1310	2930	36	10	62		44	58	10	47	6.6	5	M6x1P	
R20-10T2-OFSI	20	10	4.763	3	1490	2740	36	10	71		44	58	10	47	6.6	5	M6x1P	
R25-5T3-OFSI	25	5	3.175	3	1490	3840	40	10	68		48	62	10	51	6.6	5	M6x1P	
R25-10T3-OFSI	25	10	4.763	3	2440	5340	40	16	128		48	62	10	51	6.6	5	M6x1P	
R32-10T3-OFSI	32	10	6.35	4	3930	8820	50	16	112		62	80	12	65	9	6	M6x1P	
R32-5T4-OFSI	32	5	3.175	4	2170	6830	50	10	79		62	80	12	65	9	6	M6x1P	
R40-10T4-OFSI	40	10	6.35	6	5830	15640	63	16	130		70	93	14	78	9	7	M8x1P	
R40-5T4-OFSI	40	5	3.175	4	2410	8780	63	10	81		70	93	14	78	9	7	M8x1P	

- I valori di rigidezza indicati sono stati calcolati per un precarico pari al 10% del carico dinamico
- Dimensioni chiocciola fuori dalle norme DIN 69051 su richiesta
- Diametri e passi diversi su richiesta

Esempio di codice:

GBS R25 5T3 OFSI 2250 2325 0,023

# Viti a ricircolo di sfere

## Caratteristiche e tipi

### 6.4.5 Chiocciola flangiata doppia FDI con deflettore

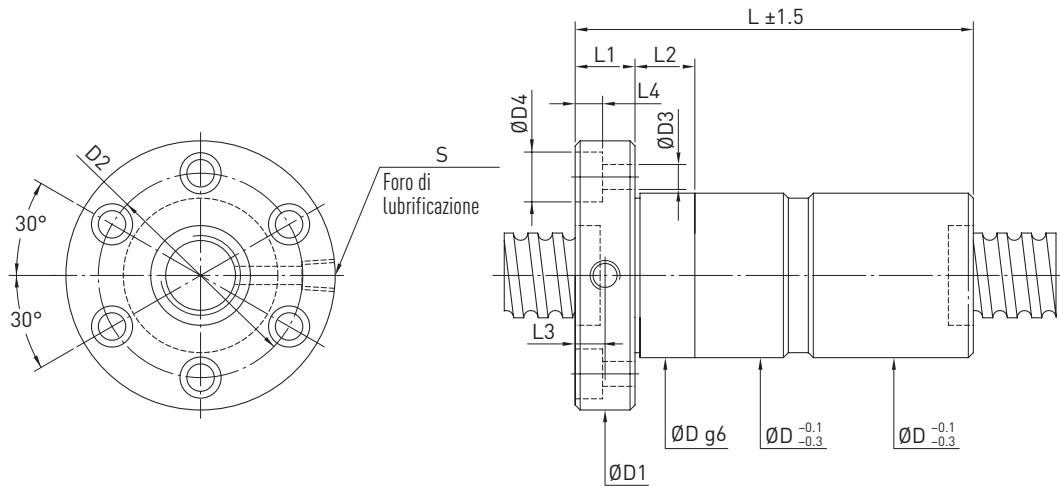


Tabella 6.8 Dimensioni della chiocciola

Tipo chiocciola	ds	P	Diametro sfera	D min.	D1	D2	D3	D4	L	L1	L2	L3	L4	S	dk	Rigidezza [N/µm]	Coefficiente di Carico Dinamico Cdyn [N]	Coefficiente di Carico Statico C0[N]	Massa [kg]
R16-5T3-FDI	16	5	3.175	30	54	41	5.5	9.5	78	12	24	6.0	5.5	M6	13.32	200	7,310	13,310	0.43
R16-5T4-FDI	16	5	3.175	30	54	41	5.5	9.5	90	12	24	6.0	5.5	M6	13.32	230	9,360	17,750	0.48
R20-5T3-FDI	20	5	3.175	34	57	45	5.5	9.5	78	12	24	6.0	5.5	M6	17.32	390	8,520	17,670	0.49
R20-5T4-FDI	20	5	3.175	34	57	45	5.5	9.5	92	12	24	6.0	5.5	M6	17.32	540	10,910	23,560	0.55
R25-5T3-FDI	25	5	3.175	40	64	52	5.5	9.5	78	12	24	5.5	5.5	M6	22.32	550	9,770	23,140	0.59
R25-5T4-FDI	25	5	3.175	40	64	52	5.5	9.5	96	12	24	5.5	5.5	M6	22.32	730	12,520	30,850	0.69
R25-10T3-FDI	25	10	4.763	51	74	60	6.6	11.0	140	15	24	7.5	6.5	M6	21.13	490	16,430	32,650	1.38
R32-5T3-FDI	32	5	3.175	44	74	60	6.6	11.0	78	12	24	6.0	6.5	M6	29.32	640	11,170	30,810	0.65
R32-5T4-FDI	32	5	3.175	44	74	60	6.6	11.0	96	12	24	6.0	6.5	M6	29.32	820	14,310	41,080	0.74
R32-5T6-FDI	32	5	3.175	44	74	60	6.6	11.0	118	12	24	6.0	6.5	M6	29.32	1,210	20,270	61,620	0.85
R32-10T3-FDI	32	10	6.350	51	82	68	6.6	11.0	129	16	24	8.0	6.5	M6	26.91	680	25,390	53,270	1.50
R32-10T4-FDI	32	10	6.350	51	82	68	6.6	11.0	155	16	24	8.0	6.5	M6	26.91	820	32,520	71,020	1.72
R40-5T4-FDI	40	5	3.175	51	80	66	6.6	11.0	96	16	24	8.0	6.5	M8 × 1	37.32	990	15,990	52,800	0.89
R40-5T6-FDI	40	5	3.175	51	80	66	6.6	11.0	122	16	24	8.0	6.5	M8 × 1	37.32	1,460	22,650	79,190	1.03
R40-10T3-FDI	40	10	6.350	60	96	80	9.0	14.0	133	16	30	8.0	8.5	M8 × 1	34.91	760	29,590	70,690	1.99
R40-10T4-FDI	40	10	6.350	60	96	80	9.0	14.0	155	16	30	8.0	8.5	M8 × 1	34.91	1,010	37,890	94,260	2.22
R50-5T4-FDI	50	5	3.175	62	96	80	9.0	14.0	96	16	30	8.0	8.5	M8 × 1	47.32	1,210	17,570	67,450	1.23
R50-5T6-FDI	50	5	3.175	62	96	80	9.0	14.0	122	16	30	8.0	8.5	M8 × 1	47.32	1,770	24,900	101,170	1.42
R50-10T3-FDI	50	10	6.350	69	114	92	11.0	17.5	135	18	40	9.0	11.0	M8 × 1	44.91	950	33,970	92,560	2.53
R50-10T4-FDI	50	10	6.350	69	114	92	11.0	17.5	157	18	40	9.0	11.0	M8 × 1	44.91	1,240	43,500	123,410	2.80
R50-10T6-FDI	50	10	6.350	69	114	92	11.0	17.5	203	18	40	9.0	11.0	M8 × 1	44.91	1,840	61,650	185,110	3.35
R63-10T4-FDI	63	10	6.350	82	134	110	14.0	20.0	159	20	40	10.0	13.0	M8 × 1	57.91	1,580	48,600	158,580	3.53
R63-10T6-FDI	63	10	6.350	82	134	110	14.0	20.0	205	20	40	10.0	13.0	M8 × 1	57.91	2,280	68,870	237,860	4.20
R80-10T4-FDI	80	10	6.350	99	152	127	14.0	20.0	172	20	40	10.0	13.0	M8 × 1	74.91	1,900	55,590	211,180	4.45
R80-10T6-FDI	80	10	6.350	99	152	127	14.0	20.0	214	20	40	10.0	13.0	M8 × 1	74.91	2,770	78,790	316,770	5.20
R80-20T3-FDI	80	20	9.525	108	174	143	18.0	26.0	250	24	50	12.0	17.5	M8 × 1	72.47	1,890	96,630	316,220	9.54
R80-20T4-FDI	80	20	9.525	108	174	143	18.0	26.0	296	24	50	12.0	17.5	M8 × 1	72.47	2,480	123,750	421,620	10.87
R100-20T4-FDI	100	20	9.525	135	194	163	18.0	26.0	296	24	60	12.0	17.5	M8 × 1	92.47	3,000	135,690	531,610	12.69

Le dimensioni senza indicazione dell'unità di misura si intendono in mm

- I valori di rigidezza indicati sono calcolati per un precarico pari al 10% del carico dinamico
- Dimensioni chiocciola non standard su richiesta
- Diametri e passi diversi su richiesta

Esempio di codice:

R	50	10	T4	FDI	2250	2325	0.023
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## 6.4.6 Chiocciola singola DIN tipo FSI/FSC (DIN 69051 part 5 form B) stock HIWIN Italia

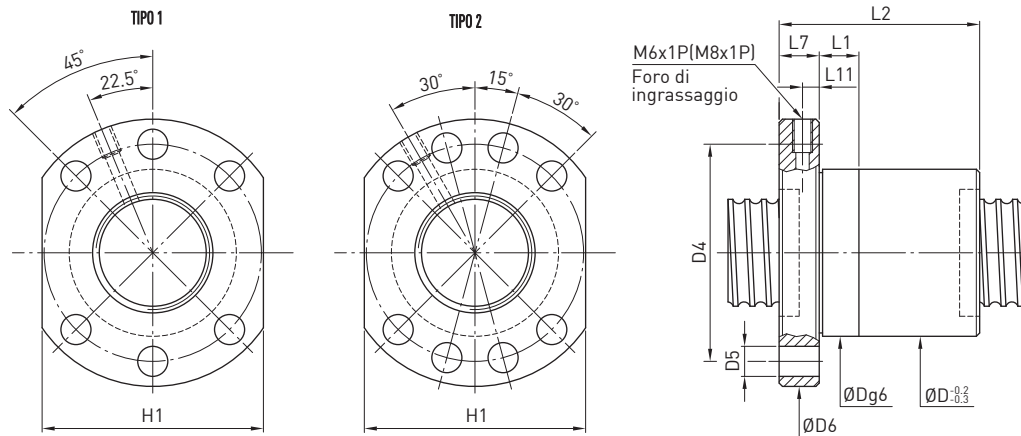
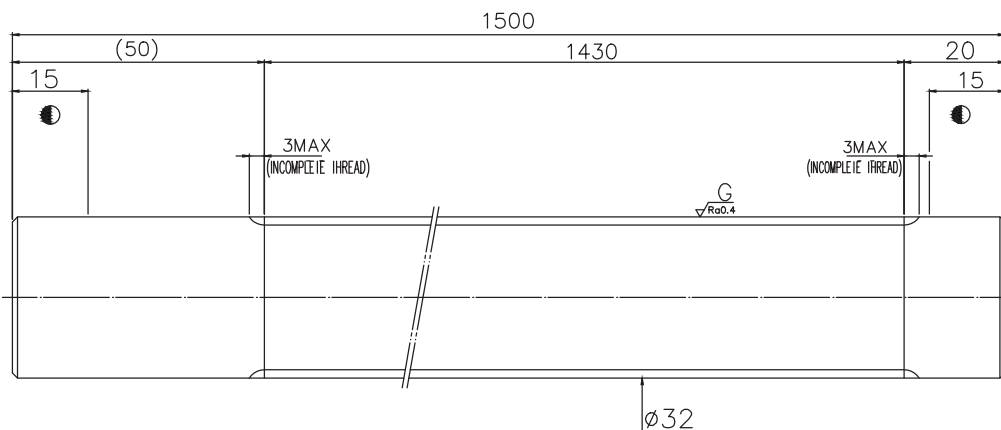


Tabella 6.7 Dimensioni delle chiocciole

**STOCK**

Descrizione	Misure		Ø sfera	Giri di sfere	C dinamico	C statico CO(kg)	Chiocciola			Flangia							Cod. Chiocciola	Lunghezza max. albero	
	Ø nominale	Passo					D (g6)	L1	L2	Tipo	H1	D6	L7	D4	D5	L11			Foro ingrassaggio
R16-5T3-FSI	16	5	3.175	3	731	1331	28	10	40	1	40	48	10	38	5.5	5	M6x1P	A13CR8A2	1080
R20-5K4-FSC	20	5	3.175	4	1490	3640	36	10	40		44	58	10	47	6.6	5	M6x1P	A13JZDA1	1200
R20-10K3-FSC	20	10	3	3	1130	2660	36	10	48		44	58	10	47	6.6	5	M6x1P	A13JZGA1	1200
R25-5K4-FSC	25	5	3.175	4	1650	4610	40	10	43		48	62	10	51	6.6	5	M6x1P	A13CR9A2	1200
R25-10K4-FSC	25	10	3.175	4	1640	4580	40	10	60		48	62	10	51	6.6	6	M6x1P	A13CRAA2	1000
R32-5K5-FSC	32	5	3.175	5	2250	7530	50	10	43		62	80	12	65	9	6	M6x1P	A13JZCA1	1500
R32-10K4-FSC	32	10	3.969	4	2520	7480	50	10	63		62	80	12	65	9	6	M6x1P	A13CRB2	1500
R32-10T5-FSI	32	10	6.35	5	5860	14490	50	10	103		62	80	12	65	9	6	M6x1P		1500
R38-10K5-FSC	38	10	6.35	5	6180	17420	63	16	80		70	93	14	78	9	7	M8x1P	A13JZFA1	2000
R38-20K4-FSC	38	20	6.35	4	4990	13660	63	25	108		70	93	14	78	9	7	M8x1P	A13JZBA1	2500
R40-5K5-FSC	40	5	3.175	5	2470	9490	63	20	45		70	93	14	78	9	7	M8x1P	A13JZEA1	1500

Descrizione Albero	Codice Albero
R16-5-1040-1080-0,018	A13JWVA2
R20-5-1160-1200-0,018	A13JWZA2
R20-10-1160-1200-0,018	A13JX0A2
R25-5-1160-1200-0018	A13JWWA1
R25-10-960-1000-0,018	A13JWXA1
R32-5-1430-1500-0,018	A13JX1A2
R32-10-1430-1500-0,018	A13JWYA1
R38-10-1930-2000-0,018	A13JX3A3
R38-20-2400-2500-0,018	A13JX4A2
R40-5-1430-1500-0,018	A13JX2A2



Esempio di albero a stock R32-10-1430-1500-0,018