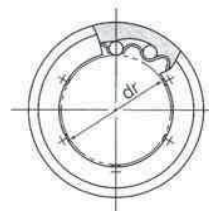
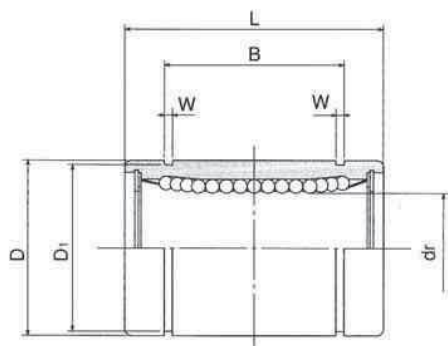


# DOUILLE A BILLES STANDARD - STANDARD BALL BUSHING

## Type LW



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions							Excentricité Eccentricity	Charges - N Basic load		Poids Weight
		dr		D	L	B	W	D <sub>1</sub>		Dyn. C	Stat. Co	
			Inch						µm			
LW 4	4	6,350	1/4"	12,700	19,050	12,980	0,992	11,906	8	206	265	9,5
LW 6	4	9,525	3/8"	15,875	22,225	16,150	0,992	14,935	8	225	314	15
LW 8	4	12,700	1/2"	22,225	31,750	24,460	1,168	20,853	8	510	784	42
LW 10	4	15,875	5/8"	28,575	38,100	28,040	1,422	26,899	8	774	1180	85
LW 12	5	19,050	3/4"	31,750	41,275	29,610	1,422	29,870	12	862	1370	104
LW 16	5	25,400	1"	39,688	57,150	44,570	1,727	37,306	12	980	1570	220
LW 20	6	31,750	1-1/4"	50,800	66,675	50,920	1,727	47,904	15	1570	2740	465
LW 24	6	38,100	1-1/2"	60,325	76,200	61,260	2,184	56,870	15	2180	4020	720
LW 32	6	50,800	2"	76,200	101,600	81,070	2,616	72,085	20	3820	7940	1310

### Exemple de désignation

**LW 20 UU**

Type de douilles *Ball bushing type*

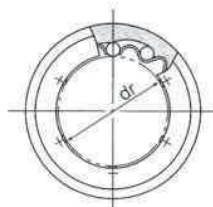
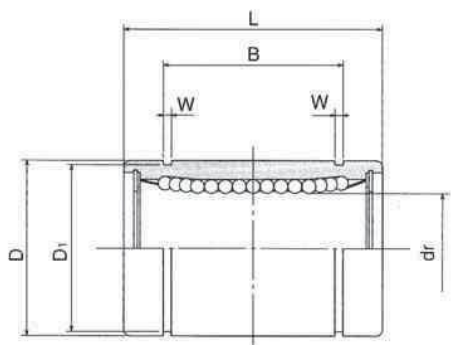
LW : douilles acier *LW : steel type*

Ø arbre de précision *Precision shaft Ø*

Joint d'étanchéité *Seals on both sides*

# DOUILLE A BILLES DE PRECISION - PRECISION BALL BUSHING

## Type SW



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions										Excentricité Eccentricity	Jeu Radial Radial clearance	Charges - N Basic load		Poids Weight	Diamètre d'arbre Shaft diametert		
		dr		D		L		B		W	D <sub>1</sub>			Dyn. C	Stat. Co			g	inch mm
		inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	inch mm								
SW 2	4	0,1250 3,175	0/-0,00035 0/-8	0,3125 7,938	0/-0,00040 0/-9	0,5000 12,700	0/-0,008 0/-0,2	0,3681 9,35	0/-0,008 0/-0,2	0,0280 0,710	0,2902 7,370	0,003 8	-0,0001 -2	59	76	2,8	1/8 3,175		
SW 3	4	0,1875 4,763	0/-0,00035 0/-8	0,3750 9,525	0/-0,00040 0/-9	0,5625 14,275	0/-0,008 0/-0,2	0,4311 10,95	0/-0,008 0/-0,2	0,0280 0,710	0,3520 8,940	0,003 8	-0,0001 -3	91	110	3,6	3/16 4,763		
SW 4	4	0,2500 6,350	0/-0,00040 0/-9	0,5000 12,700	0/-0,00045 0/-11	0,7500 19,050	0/-0,008 0/-0,2	0,5110 12,98	0/-0,008 0/-0,2	0,0390 0,992	0,4687 11,906	0,0005 12	-0,0001 -3	206	265	9,5	1/4 6,350		
SW 6	4	0,3750 9,525	0/-0,00040 0/-9	0,6250 15,875	0/-0,00050 0/-13	0,8750 22,225	0/-0,008 0/-0,2	0,6358 16,15	0/-0,008 0/-0,2	0,0390 0,992	0,5880 14,935	0,0005 12	-0,0001 -3	225	314	15	3/8 9,525		
SW 8	4	0,5000 12,700	0/-0,00040 0/-9	0,8750 22,225	0/-0,00050 0/-13	1,2500 31,750	0/-0,008 0/-0,2	0,9625 24,46	0/-0,008 0/-0,2	0,0459 1,168	0,8209 20,853	0,0005 12	-0,0001 -4	510	784	42	1/2 12,700		
SW 10	4	0,6250 15,875	0/-0,00040 0/-9	1,1250 28,575	0/-0,00050 0/-13	1,5000 38,100	0/-0,008 0/-0,2	1,1039 28,04	0/-0,008 0/-0,2	0,0559 1,422	1,0590 26,899	0,0005 12	-0,0001 -4	774	1 180	85	5/8 15,875		
SW 12	5	0,7500 19,050	0/-0,00040 0/-10	1,2500 31,750	0/-0,00065 0/-16	1,6250 41,275	0/-0,008 0/-0,2	1,1657 29,61	0/-0,008 0/-0,2	0,0559 1,422	1,1760 29,870	0,0006 15	-0,0002 -6	862	1 370	104	3/4 19,050		
SW 16	6	1,0000 25,400	0/-0,00040 0/-10	1,5625 39,688	0/-0,00065 0/-16	2,2500 57,150	0/-0,012 0/-0,3	1,7547 44,57	0/-0,012 0/-0,3	0,0679 1,727	1,4687 37,306	0,0006 15	-0,0002 -6	980	1 570	220	1 25,400		
SW 20	6	1,2500 31,750	0/-0,00050 0/-12	2,0000 50,800	0/-0,00075 0/-19	2,6250 66,675	0/-0,012 0/-0,3	2,0047 50,92	0/-0,012 0/-0,3	0,0679 1,727	1,8859 47,904	0,0008 20	-0,0003 -8	1 570	2 740	465	1 1/4 31,750		
SW 24	6	1,5000 38,100	0/-0,00050 0/-12	2,3750 60,325	0/-0,00075 0/-19	3,0000 76,200	0/-0,012 0/-0,3	2,4118 61,26	0/-0,012 0/-0,3	0,0859 2,184	2,2389 56,870	0,0008 20	-0,0003 -8	2 180	4 020	720	1 1/2 38,100		
SW 32	6	2,0000 50,800	0/-0,00050 0/-12	3,0000 76,200	0/-0,00090 0/-22	4,0000 101,600	0/-0,012 0/-0,3	3,1917 81,07	0/-0,012 0/-0,3	0,1029 2,616	2,8379 72,085	0,0010 25	-0,0005 -13	3 820	7 940	1 310	2 50,800		
SW 40	6	2,5000 63,500	0/-0,00060 0/-15	3,7500 95,250	0/-0,00090 0/-22	5,0000 127,000	0/-0,012 0/-0,3	3,9760 100,99	0/-0,012 0/-0,3	0,1200 3,048	3,5519 90,220	0,0010 25	-0,0005 -13	4 700	10 000	2 600	2 1/2 63,500		
SW 48	6	3,0000 76,200	0/-0,00060 0/-15	4,5000 114,300	0/-0,00090 0/-22	6,0000 152,400	0/-0,016 0/-0,4	4,726 120,04	0/-0,016 0/-0,4	0,1200 3,048	4,3100 109,474	0,0010 25	-0,0008 -20	7 350	16 000	4 380	3 76,200		
SW 64	6	4,0000 101,600	0/-0,00080 0/-20	6,0000 152,400	0/-0,00100 0/-25	8,0000 203,200	0/-0,016 0/-0,4	6,258 158,95	0/-0,016 0/-0,4	0,1389 3,530	5,7450 145,923	0,0012 30	-0,0008 -20	14 100	34 800	10 200	4 101,600		

### Exemple de désignation

SW 20 G UU

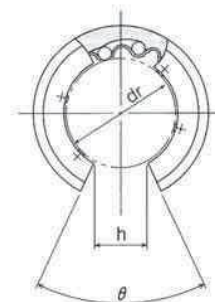
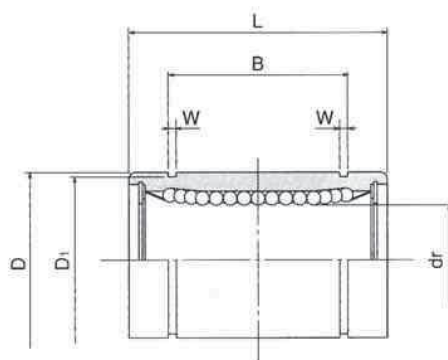
Type de douilles	Ball bushing type
SWS : douilles inox	SWS : stainless steel
SW : douilles acier	SW : steel type
Ø arbre de précision	Precision shaft Ø
Cage de recirculation	Retainer material
— : cage acier	— : steel retainer
G : cage résine	G : resin retainer
Joint d'étanchéité	Seal on both sides

### Programme de production

Type	Ø
SW-G	Ø 2 - 32
SW	Ø 4 - 64
SWS-G	Ø 2 - 32
SWS	Ø 2 - 32

# DOUILLE A BILLES STANDARD - STANDARD BALL BUSHING

## Type LW - OP



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions									Excentricité Eccentricity  µm	Charges - N Basic load		Poids Weight  g
		dr		D	L	B	W	D <sub>1</sub>	h	θ		Dyn. C	Stat. Co	
		Inch												
LW 8 UU OP	3	12,700	1/2"	22,225	31,750	24,460	1,168	20,853	7,9375	80°	12	510	784	32
LW 10 UU OP	3	15,875	5/8"	28,575	38,100	28,040	1,422	26,899	9,5250	80°	12	774	1 180	64
LW 12 UU OP	4	19,050	3/4"	31,750	41,275	29,610	1,422	29,870	11,1125	60°	15	862	1 370	86
LW 16 UU OP	4	25,400	1"	39,688	57,150	44,570	1,727	37,306	14,2875	50°	15	980	1 570	190
LW 20 UU OP	5	31,750	1-1/4"	50,800	66,675	50,920	1,727	47,904	15,8750	50°	20	1 570	2 740	390
LW 24 UU OP	5	38,100	1-1/2"	60,325	76,200	61,260	2,184	56,870	19,0500	50°	20	2 180	4 020	610
LW 32 UU OP	5	50,800	2"	76,200	101,600	81,070	2,616	72,085	25,4000	50°	25	3 820	7 940	1 120

### Exemple de désignation

**LW 20 UU OP**

Type de douilles *Ball bushing type*  
 LWS : douilles inox *LWS : stainless steel*  
 LW : douilles acier *LW : steel type*

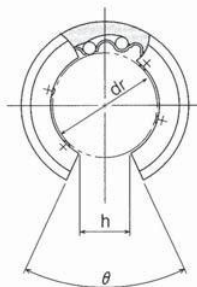
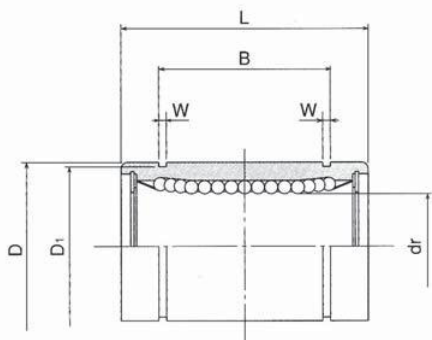
Ø arbre de précision *Precision shaft Ø*

Joint d'étanchéité *Seals on both sides*

Ouverte *Open*

# DOUILLE A BILLES DE PRECISION - PRECISION BALL BUSHING

## Type SW - OP



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions													Excentricité Eccentricity inch µm	Charges - N Basic load		Poids Weight g
		dr		D		L		B		W	D <sub>1</sub>	h	θ	Dyn. C		Stat. Co		
		inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	inch mm	inch mm	inch mm					
SW 8 OP	3	0,5000 12,700	0/-0,00040 (-9)	1/2"	0,8750 22,225	0/-0,00050 (-13)	1,2500 31,750	0/-0,008 -0,2	0,9625 24,46	0/-0,008 -0,2	0,0459 1,168	0,8209 20,853	0,3125 7,9375	80°	0,0005 12	510	784	32
SW 10 OP	3	0,625 15,875	0/-0,00040 (-9)	5/8"	1,1250 28,575	0/-0,00050 (-13)	1,5000 38,100	0/-0,008 -0,2	1,1039 28,04	0/-0,008 -0,2	0,0559 1,422	1,0590 26,899	0,375 9,5250	80°	0,0005 12	774	1180	64
SW 12 OP	4	0,7500 19,050	0/-0,00040 (-10)	3,4"	1,2500 31,750	0/-0,00065 (-16)	1,6250 41,275	0/-0,008 -0,2	1,1657 29,61	0/-0,008 -0,2	0,0559 1,422	1,1760 29,870	0,4375 11,1125	60°	0,0006 15	862	1370	86
SW 16 OP	5	1,000 25,400	0/-0,00040 (-10)	1"	1,5625 39,688	0/-0,00065 (-16)	2,2250 57,150	0/-0,012 -0,3	1,7547 44,57	0/-0,012 -0,3	0,0679 1,727	1,4687 37,306	0,5625 14,2875	50°	0,0006 15	980	1570	190
SW 20 OP	5	1,250 31,750	0/-0,00050 (-12)	1-1/4"	2,0000 50,800	0/-0,00075 (-19)	2,6250 66,675	0/-0,012 -0,3	2,0047 50,92	0/-0,012 -0,3	0,0679 1,727	1,8859 47,904	0,625 15,875	50°	0,0008 20	1 570	2 740	390
SW 24 OP	5	1,500 38,100	0/-0,00050 (-12)	1-1/2"	2,3750 60,325	0/-0,00075 (-19)	3,0000 76,200	0/-0,012 -0,3	2,4118 61,26	0/-0,012 -0,3	0,859 2,184	2,2389 56,870	0,75 19,05	50°	0,0008 20	2 180	4 020	610
SW 32 OP	5	2,000 50,800	0/-0,00050 (-12)	2"	3,0000 76,200	0/-0,00090 (-22)	4,0000 101,600	0/-0,012 -0,3	3,1917 81,07	0/-0,012 -0,3	0,1029 2,616	2,8379 72,085	1,0 25,40	50°	0,0010 25	3 820	7 940	1120
SW 40 OP	5	2,500 63 500	0/-0,00060 (-15)	2-1/2"	3,7500 95,250	0/-0,00090 (-22)	5,0000 127,000	0/-0,016 -0,4	3,9760 100,99	0/-0,016 -0,4	0,1200 3,048	3,5519 90,220	1,25 31,75	50°	0,0010 25	4 700	10 000	2 230
SW 48 OP	5	3,000 76,200	0/-0,00060 (-15)	3"	4,5000 114,300	0/-0,00090 (-22)	6,0000 152,400	0/-0,016 -0,4	4,726 120,04	0/-0,016 -0,4	0,1200 3,048	4,3100 109,474	1,5 38,10	50°	0,0010 25	7 350	16 000	3 750
SW 64 OP	5	4,000 101,600	0/-0,00080 (-20)	4"	6,0000 152,400	0/-0,00100 (-25)	8,0000 203,200	0/-0,016 -0,4	6,258 159,95	0/-0,016 -0,4	0,1389 3,530	5,745 145,923	2,0 50,80	50°	0,0012 30	14 100	34 800	8 740

### Exemple de désignation

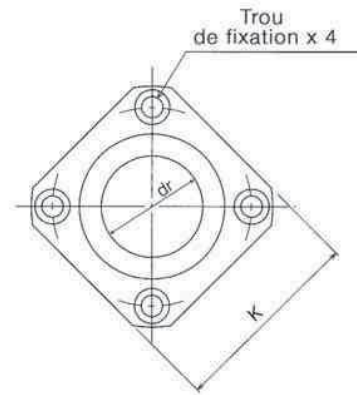
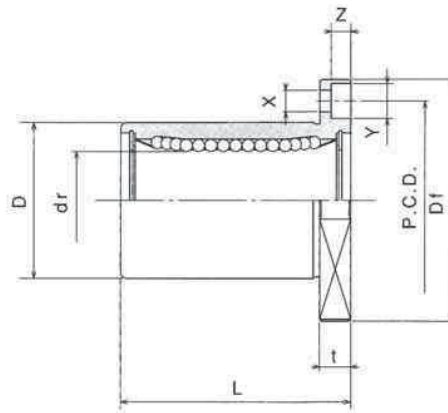
Type de douilles	Ball bushing type	SW	20	G	UU	OP
SWS : douilles inox	SWS : stainless steel					
SW : douilles acier	SW : steel type					
Ø arbre de précision	Precision shaft Ø					
Cage de recirculation	Retainer material					
— : cage acier	— : steel retainer					
G : cage résine	G: resin retainer					
Joint d'étanchéité	Seals on both sides					
Ouvert	Open					

### Programme de production

Type	Ø
SWG-OP	Ø 8 - 32
SW-OP	Ø 8 - 64
SWS-GOP	Ø 8 - 32
SWS-OP	Ø 8 - 32

# DOUILLE A BILLES STANDARD - STANDARD BALL BUSHING

## Type LWK



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions								Charges - N Basic load		Moments statiques Static moment Mo	Poids Weight
		dr	D	L	Df	K	t	P.C.D.	X x Y x Z	Dyn. C	Stat. Co		
		inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm		N.m	g
LWK 4	4	0,2500 6,350	0,5000 12,700	0,7500 19,050	1,2500 31,750	1,0000 25,400	0,2190 5,556	0,8750 22,225	0,1560 x 0,2500 x 0,1410 3,969 x 6,350 x 3,572	210	270	25	1/4 6,350
LWK 6	4	0,3750 9,525	0,6250 15,875	0,8750 22,225	1,5000 38,100	1,2500 31,750	0,2500 6,350	1,0620 26,988	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	230	320	32	3/8 9,525
LWK 8	4	0,5000 12,700	0,8750 22,225	1,2500 31,750	1,7500 44,450	1,3750 34,925	0,2500 6,350	1,3120 33,338	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	520	800	68	1/2 12,700
LWK 10	4	0,6250 15,875	1,1250 28,575	1,5000 38,100	2,0000 50,800	1,5000 38,100	0,2500 6,350	1,5620 39,688	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	790	1200	124	5/8 15,875
LWK 12	4	0,7500 19,050	1,2500 31,250	1,6250 41,275	2,1875 55,563	1,6875 42,863	0,3125 7,938	1,7180 43,660	0,2187 x 0,3440 x 0,2030 5,556 x 8,731 x 5,159	880	1400	150	3/4 19,050
LWK 16	5	1,0000 25,400	1,5625 39,688	2,2500 57,150	2,5000 63,500	2,0000 50,800	0,3125 7,938	2,0310 51,594	0,2187 x 0,3440 x 0,2030 5,556 x 8,731 x 5,159	1 000	1 600	280	1 25,400
LWK 20	5	1,2500 31,750	2,0000 50,800	2,6250 66,675	3,1250 79,375	2,5000 63,500	0,3750 9,525	2,5625 65,088	0,2812 x 0,4060 x 0,2656 7,144 x 10,319 x 6,747	1 600	2 800	580	1 1/4 31,750
LWK 24	6	1,5000 38,100	2,3750 60,325	3,0000 76,200	3,7500 95,250	3,0000 76,200	0,5000 12,700	3,0625 77,788	0,3440 x 0,5000 x 0,3280 8,731 x 12,700 x 8,334	2 220	4 100	930	1 1/2 38,100
LWK 32	6	2,0000 50,800	3,0000 76,200	4,0000 101,600	4,3750 111,125	3,5000 88,900	0,5000 12,700	3,6875 93,662	0,3440 x 0,5000 x 0,3280 8,731 x 12,700 x 8,334	3 900	8 100	1,580	2 50,800

### Exemple de désignation

**LWK 24 UU**

Type de douilles *Ball bushing type*

LWK : douilles acier *LWK : steel type*

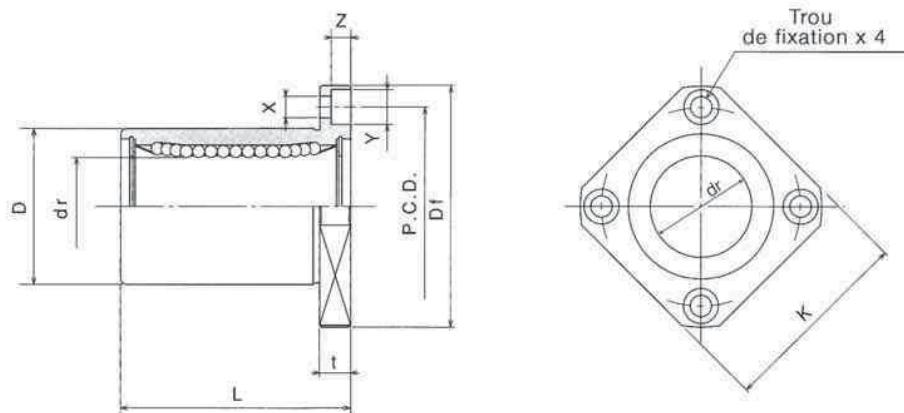
Ø arbre de précision *Precision shaft Ø*

Joint d'étanchéité *Seals on both sides*



# DOUILLE A BILLES DE PRECISION - PRECISION BALL BUSHING

## Type SWK



Référence Type	Nombre Rangées Billes Number of ball circuits	Dimensions									Excentricité Eccentricity	Perpendicula- rité Perpen- dicularity	Charges - N Basic load		Poids Weight	Diamètre d'arbre Shaft diameter		
		dr		D		L +/-0.12 inch +/-0.3 mm	Df	t	K	P.C.D.			X x Y x Z				Dyn. C	Stat. Co
		inch mm	Tol. inch µm	inch mm	Tol. inch µm	inch mm	inch mm	inch mm	inch mm	inch mm			inch mm					
		inch mm	µm	inch mm	µm	inch mm	inch mm	inch mm	inch mm	inch mm			inch mm				g	inch µm
SWK 4	4	0,2500 6,350	0/-0,00040 0/-9	0,5000 12,700	0/-0,00050 0/-13	0,7500 19,050	1,2500 31,750	0,2190 5,556	1,0000 25,400	0,8750 22,225	0,1560 x 0,2500 x 0,1410 3,969 x 6,350 x 3,572	0,0005 12	0,0005 12	206	265	25	1/4 6,350	
SWK 6	4	0,3750 9,525	0/-0,00040 0/-9	0,6250 15,875	0/-0,00065 0/-16	0,8750 22,225	1,500 38,100	0,2500 6,350	1,2500 31,750	1,0620 26,988	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	0,0005 12	0,0005 12	225	314	32	3/8 9,525	
SWK 8	4	0,5000 12,700	0/-0,00040 0/-9	0,8750 22,225	0/-0,00065 0/-16	1,2500 31,750	1,7500 44,450	0,2500 6,350	1,3750 34,925	1,3120 33,338	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	0,0005 12	0,0005 12	510	784	68	1/2 12,700	
SWK 10	4	0,6250 15,875	0/-0,00040 0/-9	1,1250 28,575	0/-0,00065 0/-16	1,5000 38,100	2,0000 50,800	0,2500 6,350	1,5000 38,100	1,5620 39,688	0,1875 x 0,2970 x 0,1720 4,763 x 7,541 x 4,366	0,0005 12	0,0005 12	774	1 180	124	5/8 15,875	
SWK 12	5	0,7500 19,050	0/-0,00040 0/-10	1,2500 31,750	0/-0,00075 0/-19	1,6250 41,275	2,1875 55,563	0,3125 7,938	1,6875 42,863	1,7180 43,660	0,2187 x 0,3440 x 0,2030 5,556 x 8,731 x 5,159	0,0006 15	0,0006 15	862	1 370	150	3/4 19,050	
SWK 16	6	1,0000 25,400	0/-0,00040 0/-10	1,5625 39,688	0/-0,00075 0/-19	2,2500 57,150	2,5000 63,500	0,3125 7,938	2,0000 50,800	2,0310 51,594	0,2187 x 0,3440 x 0,2030 5,556 x 8,731 x 5,159	0,0006 15	0,0006 15	980	1 570	280	1 25,400	
SWK 20	6	1,2500 31,750	0/-0,00050 0/-12	2,0000 50,800	0/-0,00090 0/-22	2,6250 66,675	3,1250 79,375	0,3750 9,525	2,5000 63,500	2,5625 65,088	0,2812 x 0,4060 x 0,2656 7,144 x 10,319 x 6,747	0,0008 20	0,0008 20	1 570	2 740	580	1 1/4 31,750	
SWK 24	6	1,5000 38,100	0/-0,00050 0/-12	2,3750 60,325	0/-0,00090 0/-22	3,0000 76,200	3,7500 92,250	0,5000 12,700	3,0000 76,200	3,0625 77,788	0,3440 x 0,5000 x 0,3280 8,731 x 12,700 x 8,334	0,0008 20	0,0008 20	2 180	4 020	930	1 1/2 38,100	
SWK 32	6	2,0000 50,800	0/-0,00050 0/-12	3,0000 76,200	0/-0,00100 0/-25	4,0000 101,600	4,3750 111,125	0,5000 12,700	3,5000 88,900	3,6875 93,662	0,34400 x 0,5000 x 0,3280 8,731 x 12,700 x 8,334	0,0010 25	0,0010 25	3 820	7 940	1,580	2 50,800	
SWK 40	6	2,5000 63,500	0/-0,00060 0/-15	3,7500 95,250	0/-0,00100 0/-25	5,0000 127,000	5,3750 136,525	0,7500 19,050	4,3750 111,125	4,5625 115,887	0,4062 x 0,6250 x 0,3750 10,319 x 15,875 x 9,525	0,0010 25	0,0010 25	4 700	10 000	3 200	2 1/2 63,500	
SWK 48	6	3,0000 76,200	0/-0,00060 0/-15	4,5000 114,300	0/-0,00100 0/-25	6,0000 152,400	6,1250 155,575	0,7500 19,050	5,0000 127,000	5,3125 134,937	0,40620 x 0,6250 x 0,3750 10,319 x 15,875 x 9,525	0,0010 25	0,0010 25	7 350	16 000	5 000	3 76,200	
SWK 64	6	4,0000 101,600	0/-0,00080 0/-20	6,0000 152,400	0/-0,00115 0/-29	8,0000 203,200	8,0000 203,200	0,8750 22,225	6,7500 171,450	7,0000 177,800	0,5000 x 0,7125 x 0,5000 12,700 x 18,097 x 12,700	0,0012 30	0,0012 30	14 100	34 800	11 300	4 101,600	

### Exemple de désignation

Type de douilles *Ball bushing type*  
**SWSK** : douilles inox *SWSK : stainless steel*  
**SWK** : douilles acier *SWK : steel type*

Ø arbre de précision *Precision shaft Ø*

Cage de recirculation *Retainer material*  
 — : cage acier *— : steel retainer*  
**G** : cage résine *G: resin retainer*

**SWK 20 G UU**

### Programme de production

Type	Ø
<b>SWK-G</b>	Ø 4 - 32
<b>SWK</b>	Ø 4 - 64
<b>SWSK-G</b>	Ø 4 - 32
<b>SWSK</b>	Ø 4 - 32