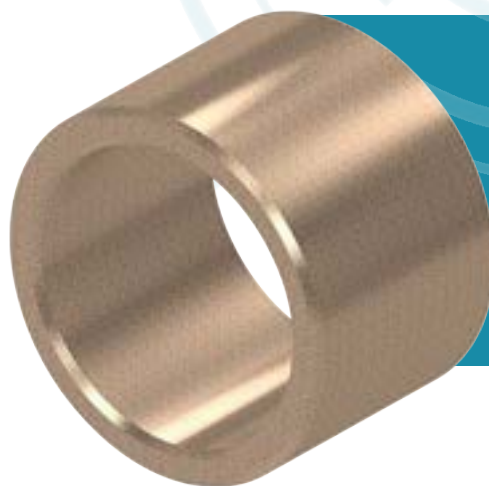
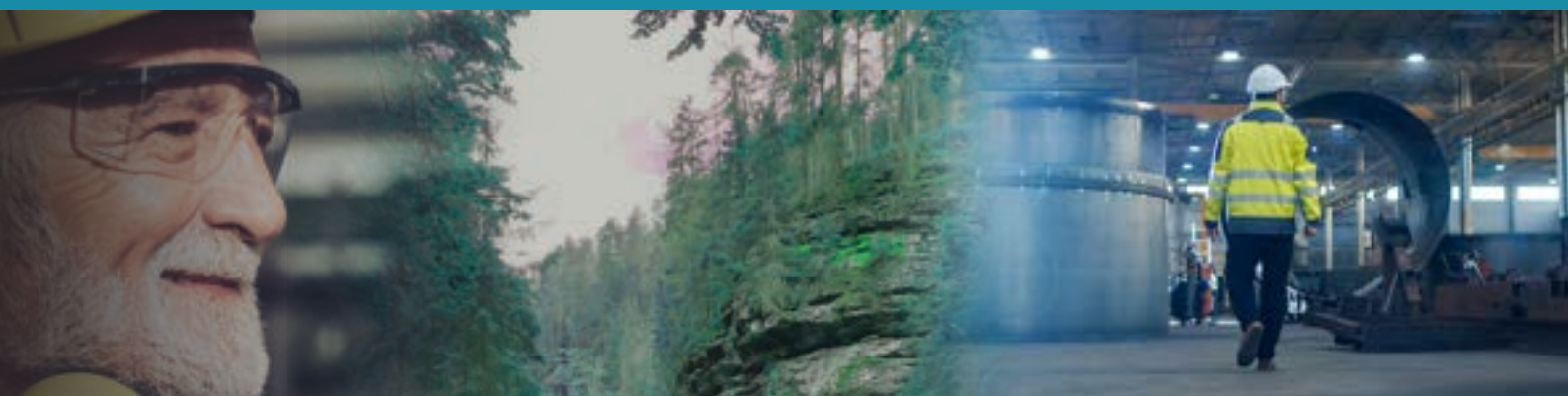




DATASHEET HOWA-SINT



Oil Impregnated
Sintered Bronze





FEATURES

- Self-lubricating Sintered Bronze
- Excellent for High Sliding Speeds at Low Loads
- Stable and Quiet Operation

TYPICAL INDUSTRIES

- Automotive
- Agriculture and Forestry
- Office Equipment
- Household Appliances
- Gym and Recreational Equipment
- Medical Equipment
- Power Tools

BEARING PARAMETERS

Load Capacity Maximum	dynamic	10	N/mm ²
	static	50	N/mm ²
Coefficient of Friction	dry	0.05 - 0.15	
Sliding Speed Maximum	dry	6	m/s
PV Value		1.7	N/mm ² * m/s
Temperature Strain	minimum	-20	°C
	maximum	120	°C

MATING COMPONENTS

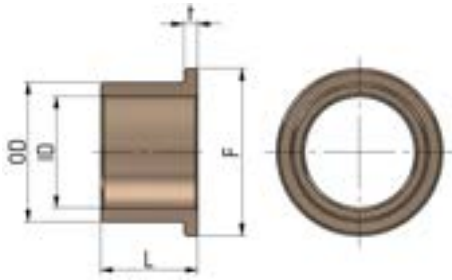
Housing Bore	Tolerance	H7
Shaft	Tolerance	f7
	Hardness	> HB150
	Surface Roughness	Ra 0.2 - 0.8
	Material	1.0503 (C45), 1.7225 (42CrMo4)

PART NUMBER CREATION

The part number indicates all individual parameters in accordance to the selection of shape, material and key dimensions.

Material Range	Type		Dimensional Parameters
SINT	F - Flange 	S - Straight 	ID - Inner Diameter OD - Outer Diameter L - Length
SI	F / S		ID-OD-L

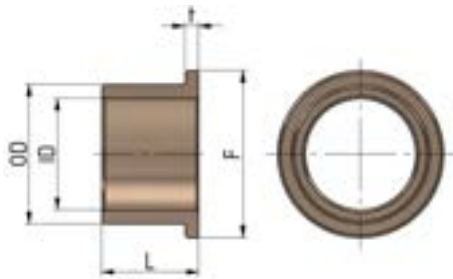
FLANGE-TYPE BEARINGS



Dimensions					Part Number		
↓ ID	↓ OD	F	↓ L	t	Id.	Type	Dimension Parameter
3	6	9	4	1.5	SI	F	03-06-04
			6				03-06-06
			10				03-06-10
4	8	12	4	2	SI	F	04-08-04
			8				04-08-08
			12				04-08-12
6	10	14	6	2	SI	F	06-10-06
			10				06-10-10
			16				06-10-16
8	12	16	8	2	SI	F	08-12-08
			12				08-12-12
			16				08-12-16
9	14	19	6	2.5	SI	F	09-14-06
			10				09-14-10
			14				09-14-14
10	13	16	10	1.5	SI	F	10-13-10
			16				10-13-16
			20				10-13-20
10	15	20	10	2	SI	F	10-15-10
			16				10-15-16
			20				10-15-20
10	16	22	9	3	SI	F	10-16-09
			16				10-16-16
			20				10-16-20
12	15	18	12	1.5	SI	F	12-15-12
			16				12-15-16
			20				12-15-20
12	17	22	12	2.5	SI	F	12-17-12
			16				12-17-16
			20				12-17-20
12	18	24	25	3	SI	F	12-17-25
			8				12-18-08
			12				12-18-12
12	18	24	20	3	SI	F	12-18-20

Dimensions					Part Number		
↓ ID	↓ OD	F	↓ L	t	Id.	Type	Dimension Parameter
14	18	22	14	2	SI	F	14-18-14
			18				14-18-18
			22				14-18-22
14	20	26	14	3	SI	F	14-20-14
			18				14-20-18
			22				14-20-22
15	19	23	28	2	SI	F	14-20-28
			16				15-19-16
			20				15-19-20
15	21	27	25	3	SI	F	15-19-25
			16				15-21-16
			20				15-21-20
16	20	24	25	2	SI	F	15-21-25
			32				15-21-32
			16				16-20-16
16	22	28	20	3	SI	F	16-20-20
			25				16-20-25
			16				16-22-16
18	22	26	20	2	SI	F	16-22-20
			25				16-22-25
			32				16-22-32
18	24	30	18	3	SI	F	18-22-18
			22				18-22-22
			28				18-22-28
20	24	28	18	2	SI	F	18-24-18
			22				18-24-22
			28				18-24-28
20	26	32	16	3	SI	F	20-24-16
			20				20-24-20
			25				20-24-25
22	27	32	16	2.5	SI	F	20-26-16
			20				20-26-20
			25				20-26-25
22	28	34	32	3	SI	F	20-26-32
			18				22-27-18
			22				22-27-22
22	29	36	28	3.5	SI	F	22-27-28
			15				22-28-15
			20				22-28-20
22	29	36	25				22-28-25
			30				22-28-30
			18				22-29-18
22	29	36	22				22-29-22
			28				22-29-28
			26				22-29-36

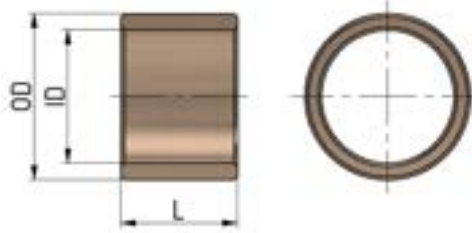
FLANGE-TYPE BEARINGS



Dimensions					Part Number		
↓ ID	↓ OD	F	↓ L	t	Id.	Type	Dimension Parameter
25	30	35	20	2.5	SI	F	25-30-20
			25				25-30-25
			32				25-30-32
25	32	39	20	3.5	SI	F	25-32-20
			25				25-32-25
			32				25-32-32
28	33	38	22	2.5	SI	F	28-33-22
			28				28-33-28
			36				28-33-36
28	36	44	22	4	SI	F	28-36-22
			28				28-36-28
			36				28-36-36
30	38	46	20	4	SI	F	30-38-20
			25				30-38-25
			30				30-38-30
32	38	44	20	3	SI	F	32-38-20
			25				32-38-25
			32				32-38-32
32	40	48	20	4	SI	F	32-40-20
			25				32-40-25
			30				32-40-30
			32				32-40-32
36	42	48	22	3	SI	F	36-42-22
			28				36-42-28
			36				36-42-36
36	45	54	22	4.5	SI	F	36-45-22
			28				36-45-28
			36				36-45-36
40	46	52	25	3	SI	F	40-46-25
			32				40-46-32
			40				40-46-40
40	50	60	25	5	SI	F	40-50-25
			32				40-50-32
			40				40-50-40

Dimensions					Part Number		
↓ ID	↓ OD	F	↓ L	t	Id.	Type	Dimension Parameter
45	51	57	28	3	SI	F	45-51-28
			36				45-51-36
			45				45-51-45
45	56	67	28	5.5	SI	F	45-56-28
			36				45-56-36
			45				45-56-45
50	56	62	32	3	SI	F	50-56-32
			40				50-56-40
			50				50-56-50
			50				50-56-50
50	60	70	32	5	SI	F	50-60-32
			40				50-60-40
			50				50-60-50
			50				50-60-50
60	70	80	50	5	SI	F	60-70-50
			60				60-70-60

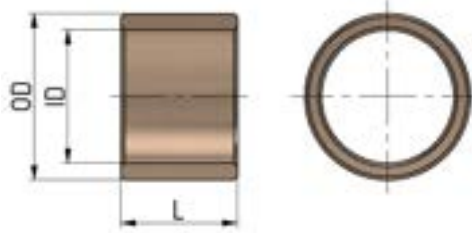
STRAIGHT-TYPE BEARINGS



Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
2	5	2	SI	S	02-05-02
		3			02-05-03
3	6	4	SI	S	03-06-04
		6			03-06-06
		10			03-06-10
4	7	4	SI	S	04-07-04
		8			04-07-08
		12			04-07-12
4	8	4	SI	S	04-08-04
		8			04-08-08
		12			04-08-12
5	8	5	SI	S	05-08-05
		8			05-08-08
		10			05-08-10
		12			05-08-12
		16			05-08-16
5	9	4	SI	S	05-09-04
		5			05-09-05
		8			05-09-08
6	9	6	SI	S	06-09-06
		10			06-09-10
		12			06-09-12
		16			06-09-16
6	10	6	SI	S	06-10-06
		10			06-10-10
		12			06-10-12
		16			06-10-16
6	12	6	SI	S	06-12-06
		10			06-12-10
		12			06-12-12
		16			06-12-16

Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
35	45	25	SI	S	35-45-25
		35			35-45-35
		40			35-45-40
		50			35-45-50
8	11	8	SI	S	
		12			08-11-12
		16			08-11-16
		20			08-11-20
8	12	12	SI	S	08-12-12
		16			08-12-16
		20			08-12-20
8	14	8	SI	S	08-14-08
		12			08-14-12
		16			08-14-16
		20			08-14-20
9	12	6	SI	S	09-12-06
		10			09-12-10
		14			09-12-14
10	13	10	SI	S	10-13-10
		16			10-13-16
		20			10-13-20
		25			10-13-25
10	14	10	SI	S	10-14-10
		16			10-14-16
		20			10-14-20
		25			10-14-25
		25			10-14-25
10	15	10	SI	S	10-15-10
		16			10-15-16
		20			10-15-20
		25			10-15-25
10	16	10	SI	S	10-16-10
		16			10-16-16
		20			10-16-20
		25			10-16-25
12	15	10	SI	S	12-15-10
		16			12-15-16
		20			12-15-20
		25			12-15-25
12	16	10	SI	S	12-16-10
		16			12-16-16
		20			12-16-20
		25			12-16-25

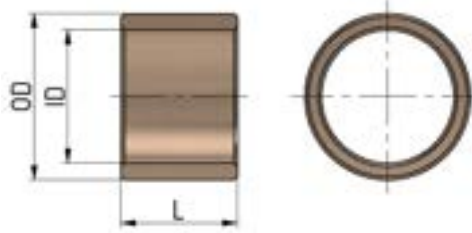
STRAIGHT-TYPE BEARINGS



Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
12	17	10	SI	S	12-17-10
		16			12-17-16
		20			12-17-20
		25			12-17-25
12	18	10	SI	S	12-18-10
		16			12-18-16
		20			12-18-20
		25			12-18-25
14	18	14	SI	S	14-18-14
		18			14-18-18
		22			14-18-22
		28			14-18-28
14	20	14	SI	S	14-20-14
		18			14-20-18
		22			14-20-22
		28			14-20-28
15	19	16	SI	S	15-19-16
		20			15-19-20
		25			15-19-25
		32			15-19-32
15	20	16	SI	S	15-20-16
		20			15-20-20
		25			15-20-25
		32			15-20-32
16	20	16	SI	S	16-20-16
		20			16-20-20
		25			16-20-25
		32			16-20-32
16	22	16	SI	S	16-22-16
		20			16-22-20
		25			16-22-25
		32			16-22-32

Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
18	22	18	SI	S	18-22-18
		22			18-22-22
		28			18-22-28
		36			18-22-36
18	24	18	SI	S	18-24-18
		22			18-24-22
		28			18-24-28
		36			18-24-36
18	25	18	SI	S	18-25-18
		22			18-25-22
		28			18-25-28
		36			18-25-36
20	24	16	SI	S	20-24-16
		20			20-24-20
		25			20-24-25
		32			20-24-32
20	25	16	SI	S	20-25-16
		20			20-25-20
		25			20-25-25
		32			20-25-32
20	26	16	SI	S	20-26-16
		20			20-26-20
		25			20-26-25
		32			20-26-32
20	27	16	SI	S	20-27-16
		20			20-27-20
		25			20-27-25
		32			20-27-32
20	28	16	SI	S	20-28-16
		20			20-28-20
		25			20-28-25
		32			20-28-32
22	27	18	SI	S	22-27-18
		22			22-27-22
		28			22-27-28
		36			22-27-36
22	28	18	SI	S	22-28-18
		22			22-28-22
		28			22-28-28
		36			22-28-36
22	29	18	SI	S	22-29-18
		22			22-29-22
		28			22-29-28
		36			22-29-36

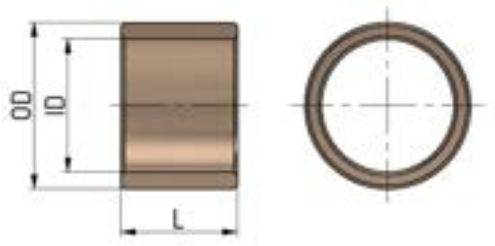
STRAIGHT-TYPE BEARINGS



Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
25	30	20	SI	S	25-30-20
		25			25-30-25
		32			25-30-32
		40			25-30-40
25	32	20	SI	S	25-32-20
		25			25-32-25
		32			25-32-32
		40			25-32-40
28	32	22	SI	S	28-32-22
		28			28-32-28
		36			28-32-36
		45			28-32-45
28	33	22	SI	S	28-33-22
		28			28-33-28
		36			28-33-36
		45			28-33-45
28	36	28	SI	S	28-36-28
		36			28-36-36
		45			28-36-45
30	38	24	SI	S	30-38-24
		30			30-38-30
		38			30-38-38
32	38	20	SI	S	32-38-20
		25			32-38-25
		33			32-38-33
		40			32-38-40
		50			32-38-50
32	40	20	SI	S	32-40-20
		25			32-40-25
		33			32-40-33
		40			32-40-40
		50			32-40-50
35	44	22	SI	S	35-44-22
		28			35-44-28
		35			35-44-35

Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
35	45	25	SI	S	35-45-25
		35			35-45-35
		40			35-45-40
		50			35-45-50
36	42	22	SI	S	36-42-22
		28			36-42-28
		36			36-42-36
		45			36-42-45
36	45	22	SI	S	36-45-22
		28			36-45-28
		36			36-45-36
		45			36-45-45
38	44	25	SI	S	38-44-25
		35			38-44-35
		45			38-44-45
40	46	25	SI	S	40-46-25
		32			40-46-32
		40			40-46-40
		50			40-46-50
40	50	25	SI	S	40-50-25
		32			40-50-32
		40			40-50-40
		50			40-50-50
45	51	28	SI	S	45-51-28
		36			45-51-36
		45			45-51-45
		56			45-51-56
45	55	35	SI	S	45-55-35
		45			45-55-45
		55			45-55-55
		65			45-55-65
45	56	28	SI	S	45-56-28
		36			45-56-36
		45			45-56-45
50	56	32	SI	S	50-56-32
		40			50-56-40
		50			50-56-50
		63			50-56-63
50	60	32	SI	S	50-60-32
		40			50-60-40
		50			50-60-50
		63			50-60-63

STRAIGHT-TYPE BEARINGS



Dimension			Part Number		
↓ ID	↓ OD	↓ L	Id.	Type	Dimension Parameter
55	65	40	SI	S	55-65-40
		55			55-65-55
		70			55-65-70
60	70	50	SI	S	60-70-50
		60			60-70-50
		90			60-70-90
		120			60-70-120
60	72	50	SI	S	60-72-50
		60			60-72-60
		70			60-72-70
60	80	90	SI	S	60-80-90
		120			60-80-120