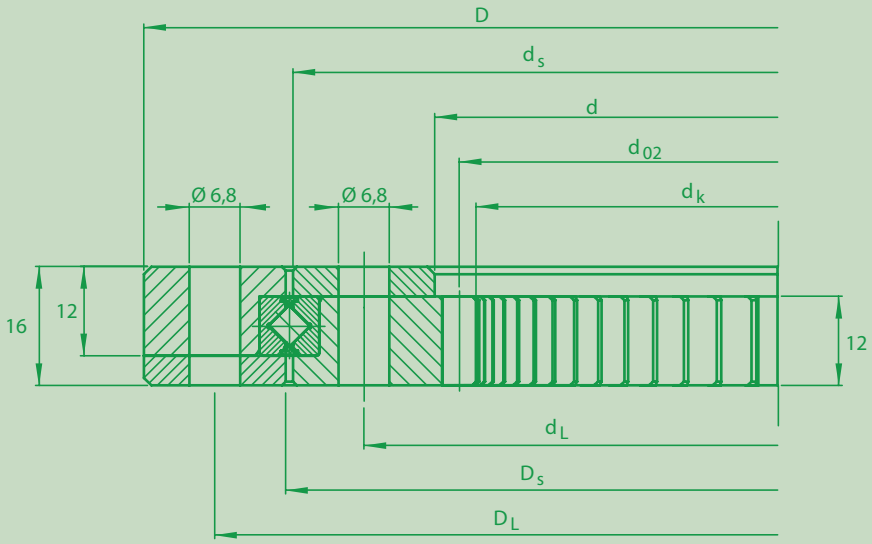
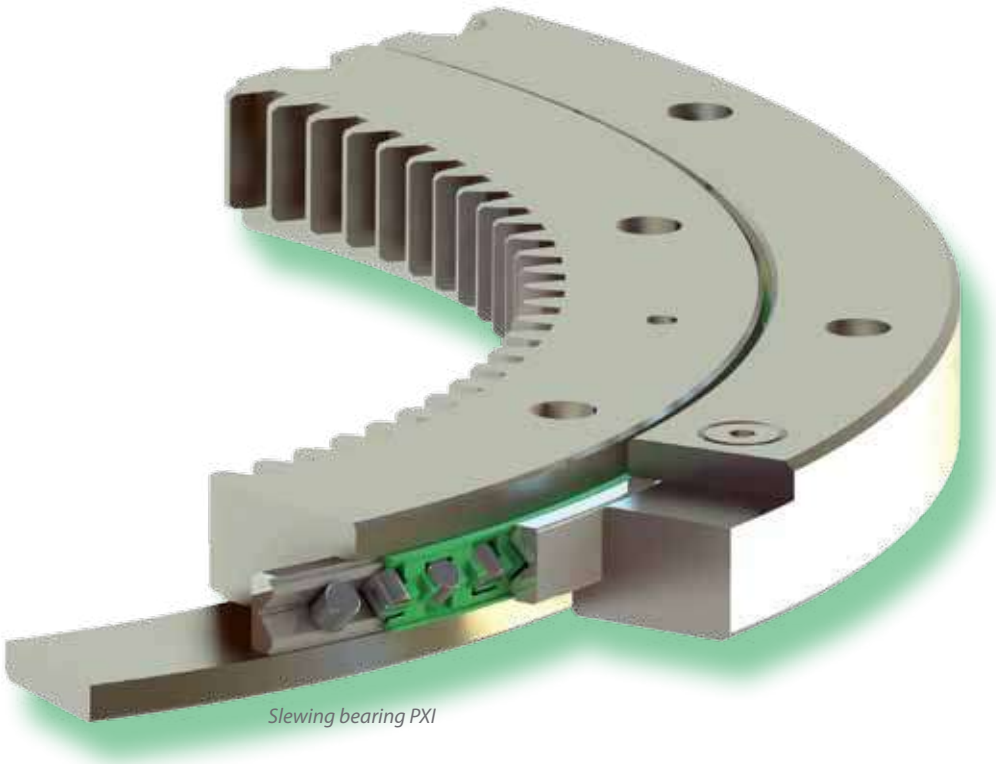
	Basic load ratings				Limiting speeds	
	Axial		Radial		Bearing play	Preload
	Dyn.	Stat.	Dyn.	Stat.		
	C_a	C_{oa}	C_r	C_{or}	n_G	n_G
	kN	kN	kN	kN	min^{-1}	min^{-1}
	6,1	30,0	4,3	12,0	650	325
	6,4	33,0	4,5	13,3	710	355
	6,9	38,0	4,9	15,1	650	325
	7,2	41,0	5,1	16,4	600	300
	7,6	45,5	5,4	18,2	560	280
	7,9	48,5	5,6	19,5	520	260
	8,1	52,0	5,8	20,7	490	245
	8,5	56,0	6,1	22,6	460	230
	8,7	60,0	6,2	23,8	430	215
	9,0	63,0	6,4	25,0	410	205
	9,3	67,0	6,6	27,0	390	195
	9,5	70,0	6,8	28,0	370	185
	9,7	74,0	6,9	29,5	350	175
	10,1	78,0	7,2	31,5	340	170
	10,3	81,0	7,3	32,5	320	160
	10,5	84,0	7,4	34,0	310	155
	10,8	89,0	7,7	35,5	300	150
	11,0	92,0	7,8	37,0	290	145
	11,2	95,0	7,9	38,0	280	140
	11,5	100,0	8,1	40,0	270	135
	11,6	103,0	8,3	41,0	260	130
	11,8	106,0	8,4	42,5	250	125
	12,1	111,0	8,6	44,5	240	120
	12,3	114,0	8,7	45,5	230	115
	12,4	117,0	8,8	47,0	220	110

Dimensions PXI (inner geared)





Slewing bearing PXI

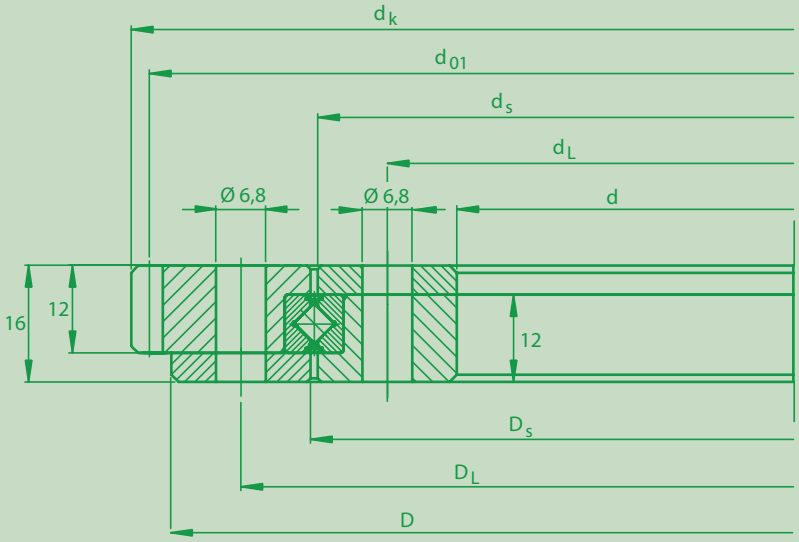
Table of dimensions, Toothing information PXI (inner geared)

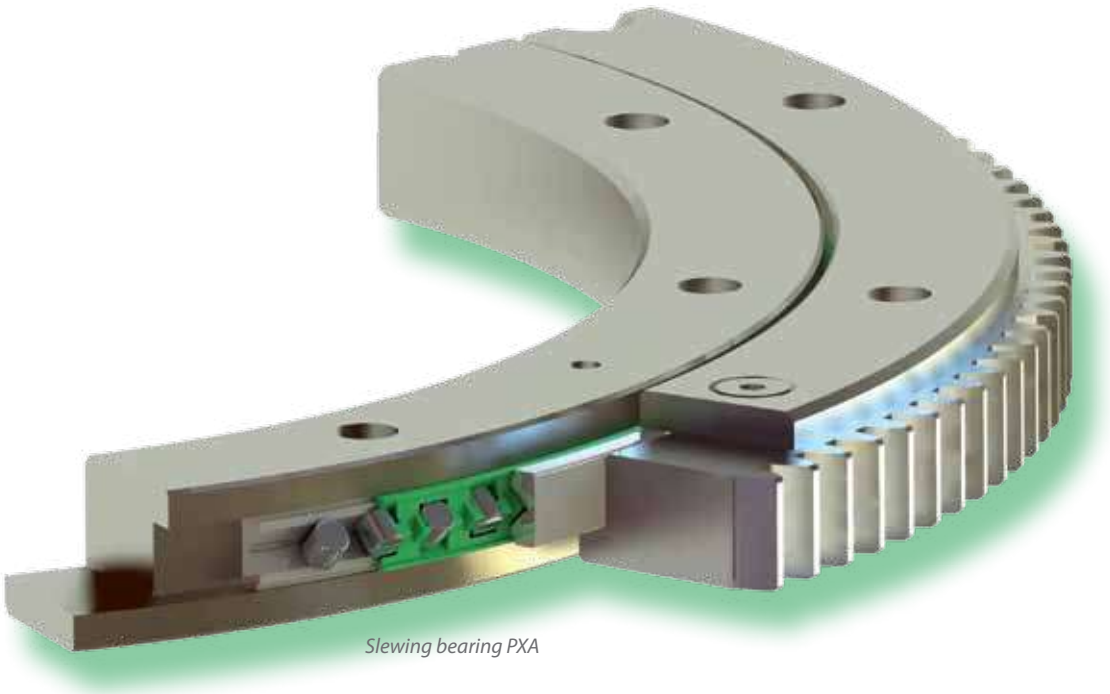
KMF-type [1]	Pitch-circle-Ø	Module	Number of teeth	Tip-circle-Ø	Mass	Maximum permissible tooth force	
	d_{02}	m	Z	d_k		$F_{Z\,norm.}$	$F_{Z\,max.}$
	mm	mm	Pieces	mm	kg	N	N
PXI 04 090	44	2	22	40	1,45	1005	2010
PXI 04 100	54	2	27	50	1,60	1020	2040
PXI 04 110	64	2	32	60	1,75	1035	2070
PXI 04 120	74	2	37	70	1,90	1050	2100
PXI 04 130	84	2	42	80	2,10	1065	2130
PXI 04 140	94	2	47	90	2,25	1080	2160
PXI 04 150	104	2	52	100	2,40	1095	2190
PXI 04 160	114	2	57	110	2,60	1110	2220
PXI 04 170	124	2	62	120	2,75	1125	2250
PXI 04 180	134	2	67	130	2,90	1140	2280
PXI 04 190	144	2	72	140	3,10	1155	2310
PXI 04 200	154	2	77	150	3,25	1170	2340
PXI 04 210	164	2	82	160	3,40	1185	2370
PXI 04 220	174	2	87	170	3,60	1200	2400
PXI 04 230	184	2	92	180	3,75	1215	2430
PXI 04 240	194	2	97	190	3,90	1230	2460
PXI 04 250	204	2	102	200	4,05	1245	2490
PXI 04 260	214	2	107	210	4,20	1260	2520
PXI 04 270	224	2	112	220	4,40	1275	2550
PXI 04 280	234	2	117	230	4,60	1290	2580
PXI 04 290	244	2	122	240	4,75	1305	2610
PXI 04 300	254	2	127	250	4,90	1320	2640
PXI 04 310	264	2	132	260	5,05	1335	2670
PXI 04 320	274	2	137	270	5,20	1350	2700
PXI 04 330	284	2	142	280	5,40	1365	2730

1) Other dimensions on request

Toothing acc. to DIN 3967
Quality 8e25
Reference DIN 867
For the basic dimensions of the Slewing bearing please take a look at the table of dimensions PXU

Dimensions PXA (outer geared)





Slewing bearing PXA

Table of dimensions, Toothing information PXA (outer geared)

KMF-type 1)	Pitch-circle-Ø	Module	Number of teeth	Tip-circle-Ø	Mass	Maximum permissible tooth force	
	d_{01}	m	Z	d_k		$F_{Z\,norm.}$	$F_{Z\,max.}$
	mm	mm	Pieces	mm	kg	N	N
PXA 04 090	136	2	68	140	1,60	1170	2340
PXA 04 100	146	2	73	150	1,75	1175	2350
PXA 04 110	156	2	78	160	1,90	1180	2360
PXA 04 120	166	2	83	170	2,05	1185	2370
PXA 04 130	176	2	88	180	2,25	1190	2380
PXA 04 140	186	2	93	190	2,40	1195	2390
PXA 04 150	196	2	98	200	2,55	1200	2400
PXA 04 160	206	2	103	210	2,75	1205	2410
PXA 04 170	216	2	108	220	2,90	1210	2420
PXA 04 180	226	2	113	230	3,10	1215	2430
PXA 04 190	236	2	118	240	3,25	1220	2440
PXA 04 200	246	2	123	250	3,40	1225	2450
PXA 04 210	256	2	128	260	3,55	1230	2460
PXA 04 220	266	2	133	270	3,75	1235	2470
PXA 04 230	276	2	138	280	3,90	1240	2480
PXA 04 240	286	2	143	290	4,05	1245	2490
PXA 04 250	296	2	148	300	4,25	1250	2500
PXA 04 260	306	2	153	310	4,40	1255	2510
PXA 04 270	316	2	158	320	4,60	1260	2520
PXA 04 280	326	2	163	330	4,75	1265	2530
PXA 04 290	336	2	168	340	4,95	1270	2540
PXA 04 300	346	2	173	350	5,10	1275	2550
PXA 04 310	356	2	178	360	5,30	1280	2560
PXA 04 320	366	2	183	370	5,45	1285	2570
PXA 04 330	376	2	188	380	5,60	1290	2580

1) Other dimensions on request

Toothing acc. to DIN 3967
Quality 8e25
Reference DIN 867
For the basic dimensions of the Slewing bearing please take a look at the table of dimensions PXU

Thin ring bearing-Slewing bearing PBDV



Left picture shows a two-rowed bearing with three bearing rings that can be moved un-dependantly from each other.



Left picture shows a bearing with an additional raceway for combination with a drive wheel.
An extremely small starting torque is guaranteed by an increased play in the bearing, a reduced amount of rolling body elements as well as the usage of special smooth running grease.



Also possible is a solution with integrated slip rings for power or signal tranmission.

Slewing bearings – special configuration



Without gear teeth

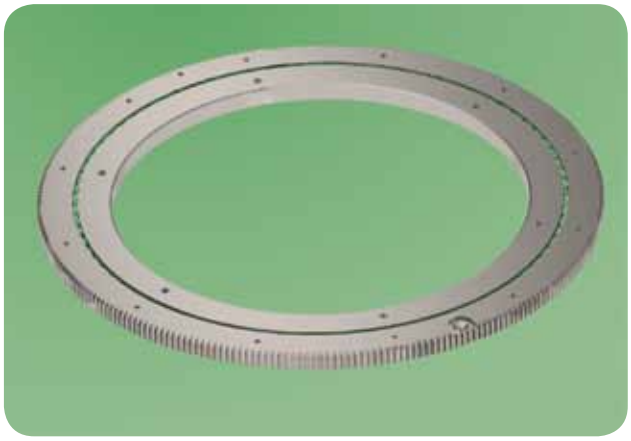


Internal gear teeth



External gear teeth

6,35	A-cross-section
9,525	C-cross-section
12,7	D-cross-section





KMF-Slewing bearings in special configuration can be used as an alternative for Thin ring bearings.

They have the same height as thin ring bearings of the A-, C- or D-cross-section.

Sealing profiles

Description of shape

One can seal to the adjacent structure with KMF sealing profiles, depending on the requirements and the type of pollution.

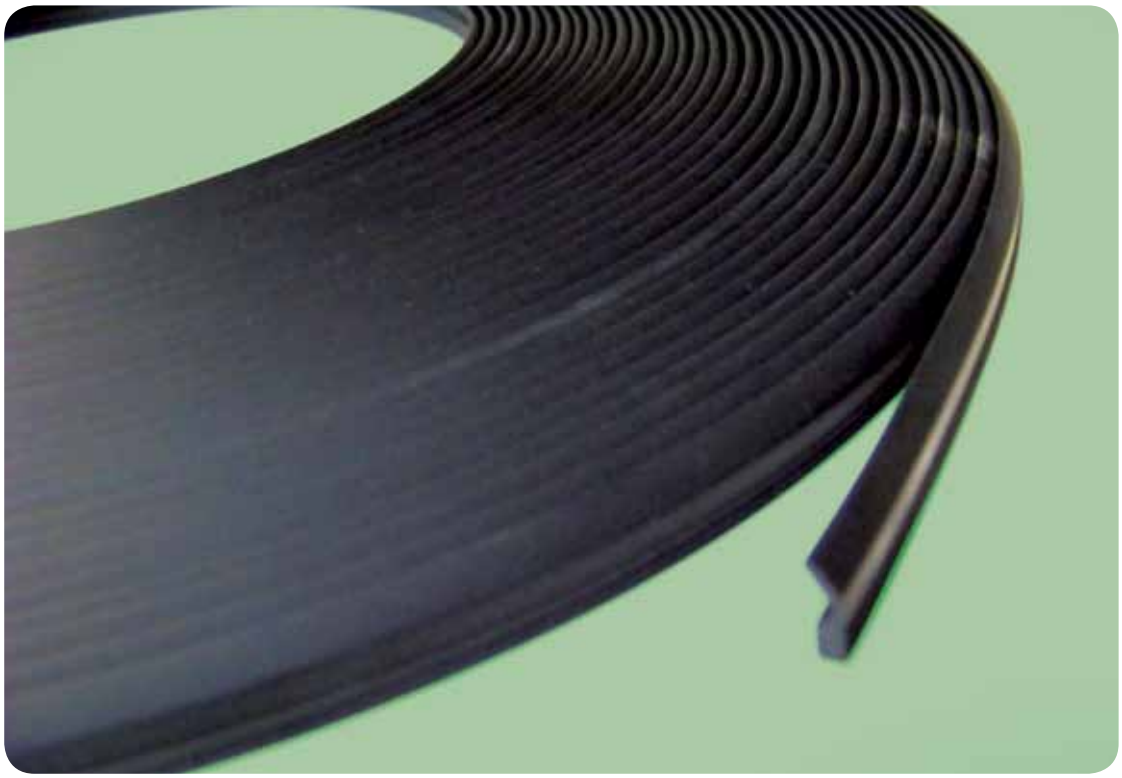
We have developed some sealing profiles as yard-goods for this purpose, which meet different requirements. For infinite purposes, the interfaces must be flat and free of grease. A cyan acrylate glue can be used as the glue. One must take care that there is no spillase when attached to the surfaces.

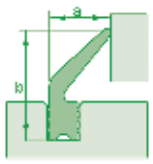
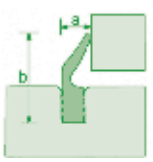
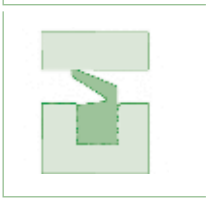
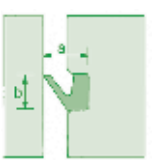
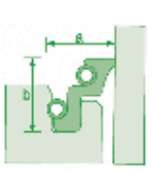
Material

The standard material of the sealing profile is NBR 70 (Shore hardness of 70), which has proved successful due to ist resistance to oil and grease and its good resistance to wear.

Operating conditions

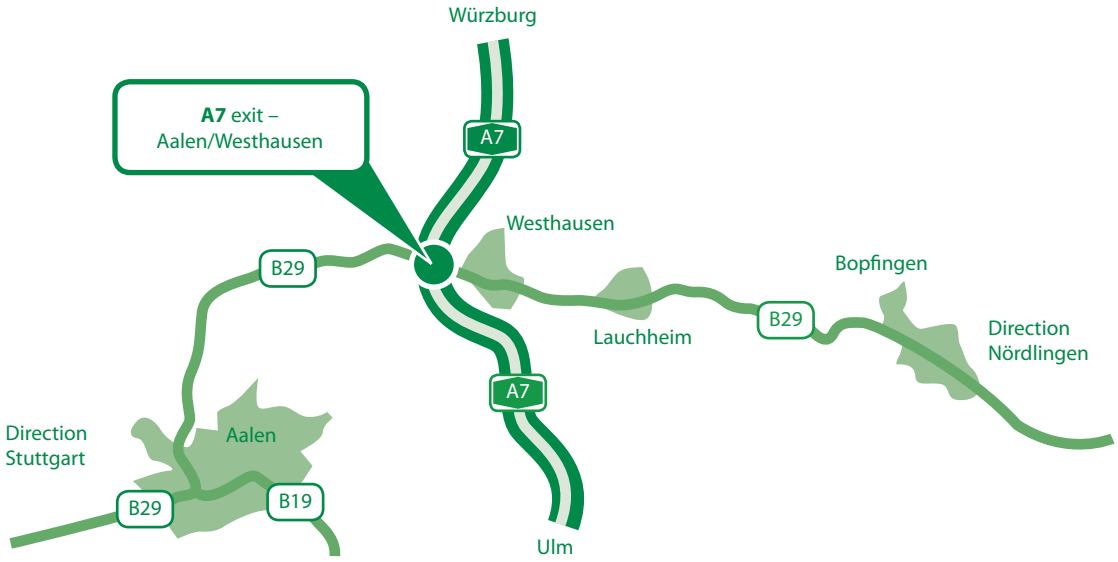
The sealing profiles can be used at working temperatures of -40°C to +80°C.

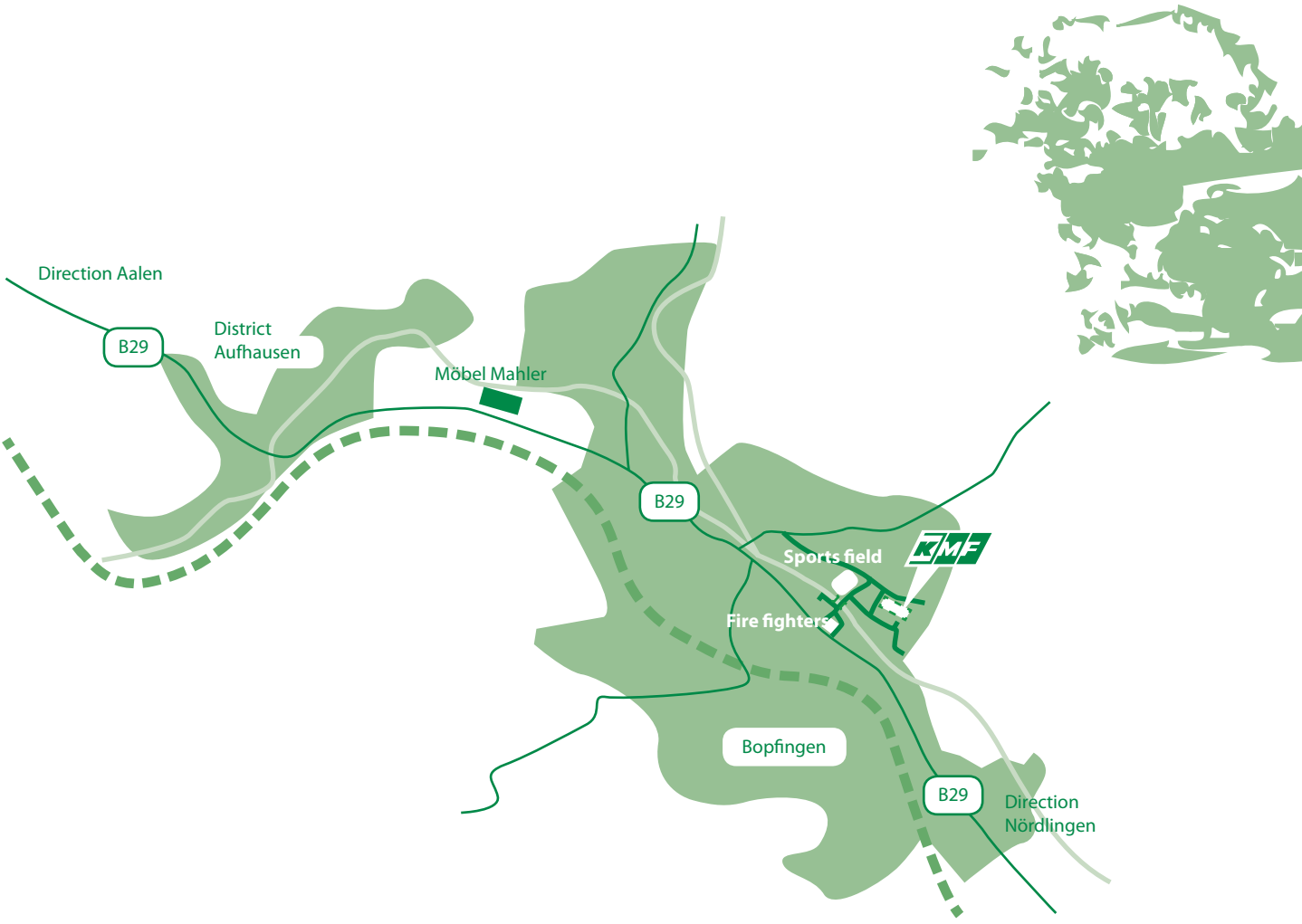


Sealing profiles		Short sign	Required space (guid)		Diameter range		Characteristics
					D		
Axial sealing	Radial sealing		a	b	Axial	Radial	
		S9	7	17	> Ø 400	> Ø 400	Robust seal increased friction
		S4	5	13	> Ø 200	> Ø 200	Normal seal low friction
		S5	11	9	> Ø 400	> Ø 400	Protected bearing gap seal
		S7	7	5	> Ø 200	> Ø 200	Protected bearing gap seal low space requirement
		S6	9	10		> Ø 200	High pressure due to Spring-loaded sealing lip, preferred for oscillating operation
		R2 R3 R4	1,5 2,3 3,1	2,7 4,0 5,4	> Ø 200	> Ø 200	Static seal

Installation drawings are available for the individual seal profiles. Please ask for them.

Directions to the company...

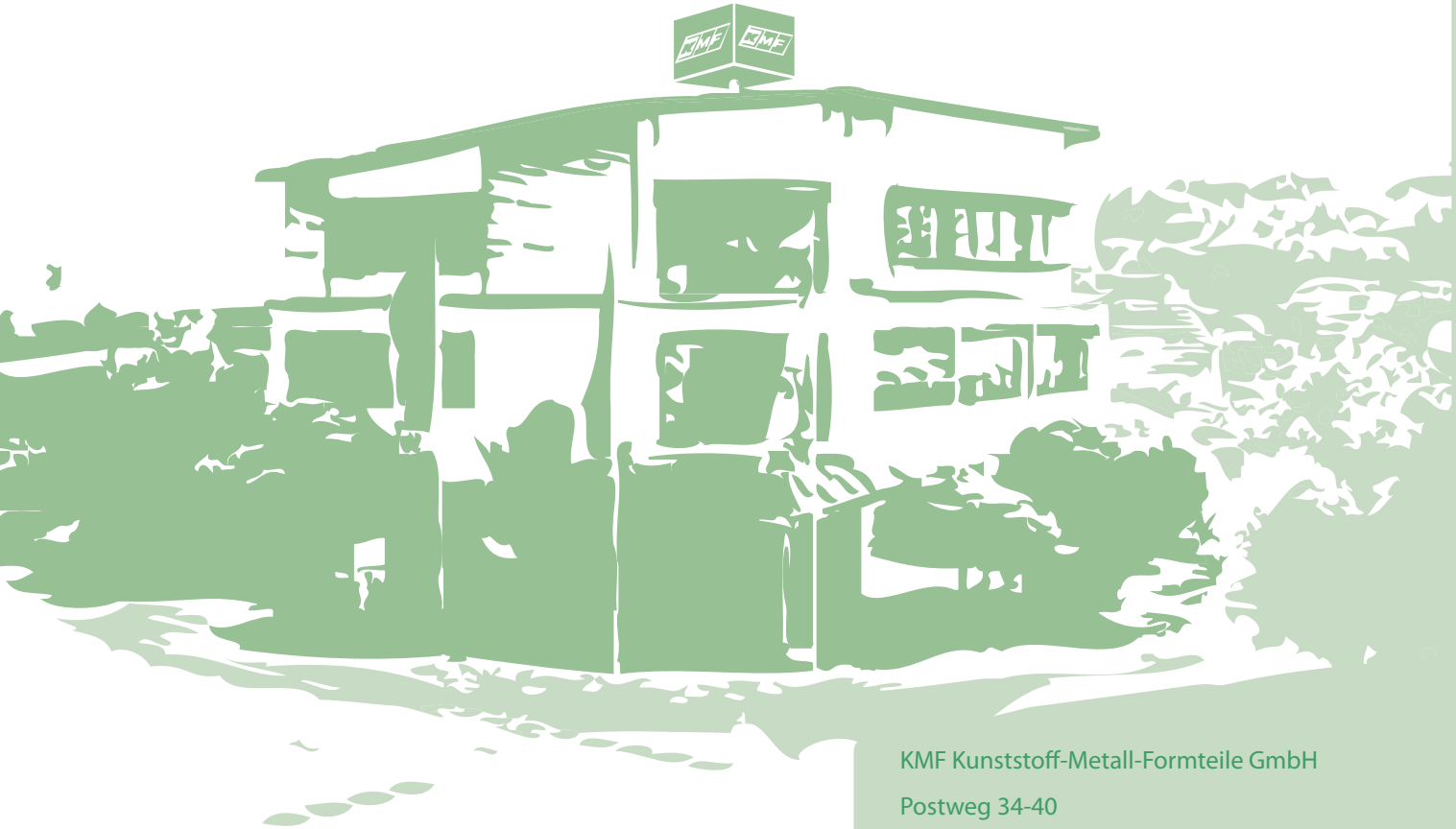




... starting from the B29

in the Nördlingen direction...

shortly after entering the Bopfingen, turn right at
the Fire Station, then after 30 m, turn left again,
follow the street, pass the Sports Stadium,
turn right on the Postweg,
we are located 200 m along the right hand side.



... starting from the A7 exit Aalen/Westhausen ...

take the B29 in the Nördlingen direction.
Shortly before the exit to the Fire Station, turn left,
then after 30 m, turn left again, follow the street,
pass the Sports Stadium, turn right on the Postweg,
we are located 200 m along the right hand side.

KMF Kunststoff-Metall-Formteile GmbH
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D-73441 Bopfingen
Phone 07362/7001
Fax 07362/7007
E-Mail info@kmf-bearings.de

Notes



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