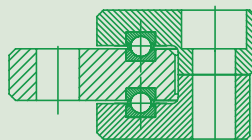
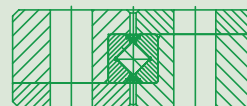


Slewing bearing – SLIM-SPLIT-BEARING

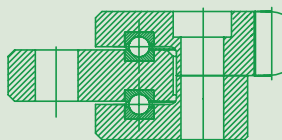
Slewing Bearing YKT



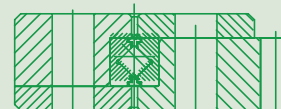
Slewing Bearing PXU



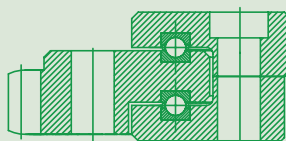
Slewing Bearing YKTI



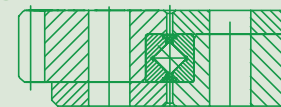
Slewing Bearing PXI



Slewing Bearing YKTA



Slewing Bearing PXA



KMF-Thin Ring Bearing-Slewing bearing

Light silent and combined loadable

Due to increasing automating in many industries, e. g. the semiconductor industry more space saving insert elements or thin ring bearings are required. From direct driven rotary tables to simple handling tools space and Mass saving as well as precised bearing units are requested.

In order to fulfill these market needs, KMF offers a large variety of bearing elements like wire ball bearings, SLIM-SPLIT-BEARINGS, axial bearing washers and axial roller and cage assemblies as insert elements for direct integration in customers constructions.

Actually this delivery programm is increased by the slewing bearing assembly YKT, which are complete ready to assemble and pregreased bearing units.

The raceway system consists of two axial thrust ball bearings type PBAU with four point geometry. This bearing design is able to take loads from all directions (axial and radial), as well as moment loads.

Typically for insert elements is the relatively small bearing hight of 14 mm of the YKT bearing series. The both axial thrust ball bearing, which are forming the raceway system, are undependant of the diameter; this guarantees a stable bearing cross-cut of only 37,5 x 20 mm, which is valid for the complete preferred series from bore diameter 100 to 450 mm.

Furthermore this system offers the possibility of manufacturing types between preferred series as well as slight changes to bearing shape.

KMF-Slewing bearing – SLIM-SPLIT-BEARING with it's extremely hight integrated in constructions, which have not sufficient space for conventional catalogue bearings.

The ready to assemble easy mounting and easy to maintain bearing units type series YKT are fixed and screwed with the connecting parts via the bearing centering (see tabl of dimensions).

The play and the preload in the bearing is adjustable. The shape of the bearing with its two raceway systems guarantees a stable running culture with small starting torques and small noise developement. The starting torque depends on the axial preload; increasing the preload increases threfore the torque.

Despite of the filigree construction of the KMF slewing bearings, they are nevertheless constructed according to the principle of economy. Different special option increase the application spectrum and assist individual construction demands without changing basic pricings considerably.

Bearing units of the type series YKT are offered in different versions, using bearing rings made of steel or completely corrosion resistant. This completely corrosion resistant version has the short sign „SS“ for stainless steel, the eloxated light metal version the short sign „AL“ for aluminium.

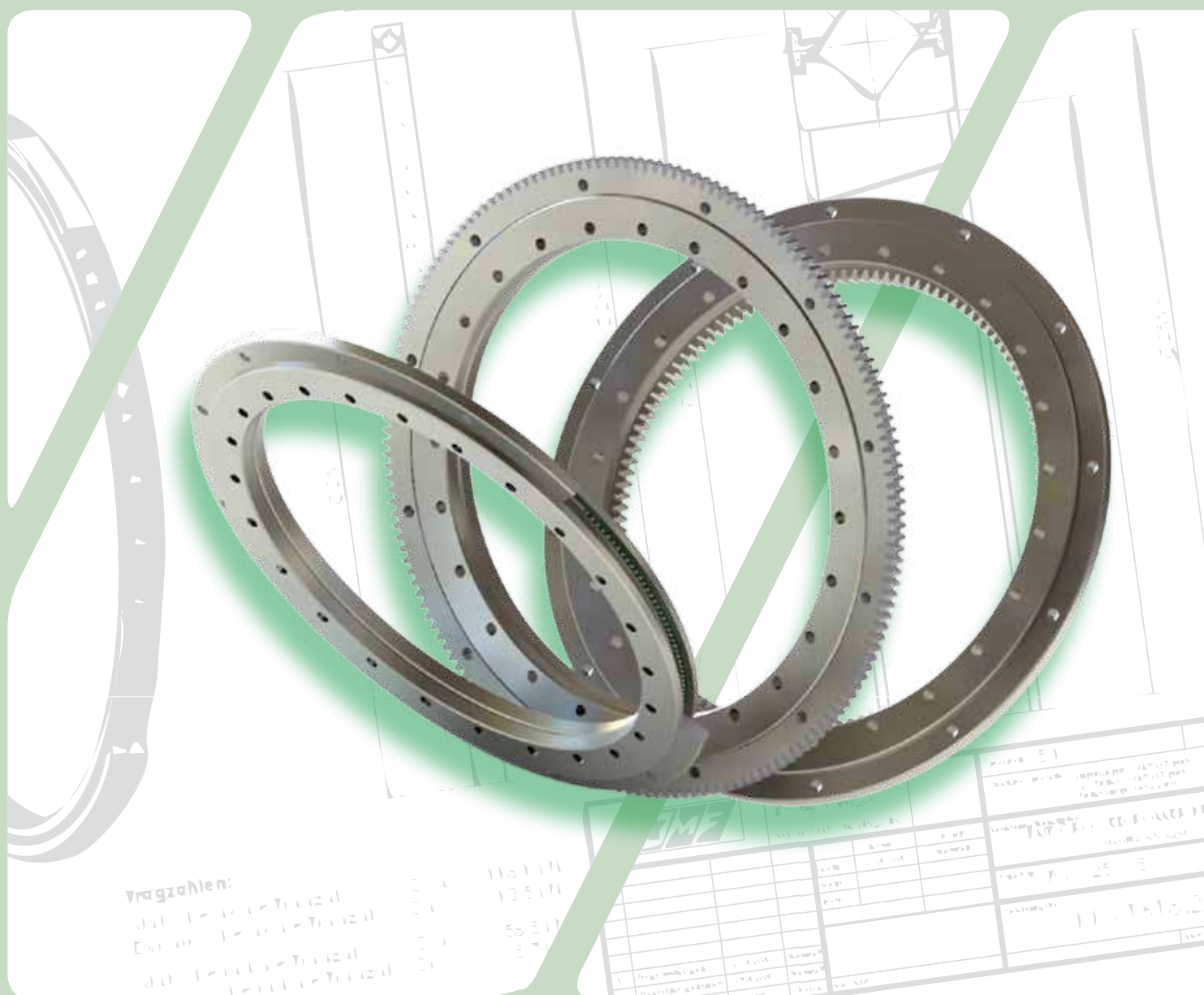
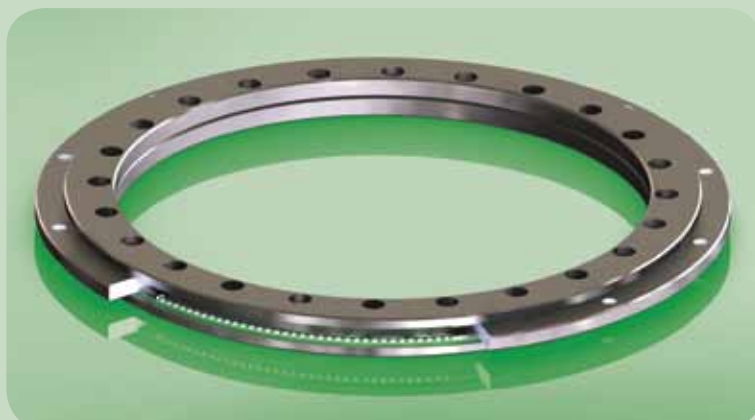
Furthermore offers the light metal version naturally the advantage of the Mass decrease of up to 66 % compared with the steel version.

Additionally, changes to the bore plan can be realised as well as lubrication bores.

Spur-toothed bearing inner and outer rings belong to the enhanced standard version as well as worm gear toothing for direct drives. Additionally externally flanged or integrated slip ring solutions for power transmission from the static to the dynamic bearing ring is possible.

The KMF-Slewing bearing – SLIM-SPLIT-BEARING is suitable for many application areas, e. g. clean room, medicine- and food industry due to special material combinations (corrosion resistant steel, light metal, ceramic, plastics).

Thin ring bearing-Slewing bearing YKT, YKTI, YKTA



Dimensions YKT (without toothing)

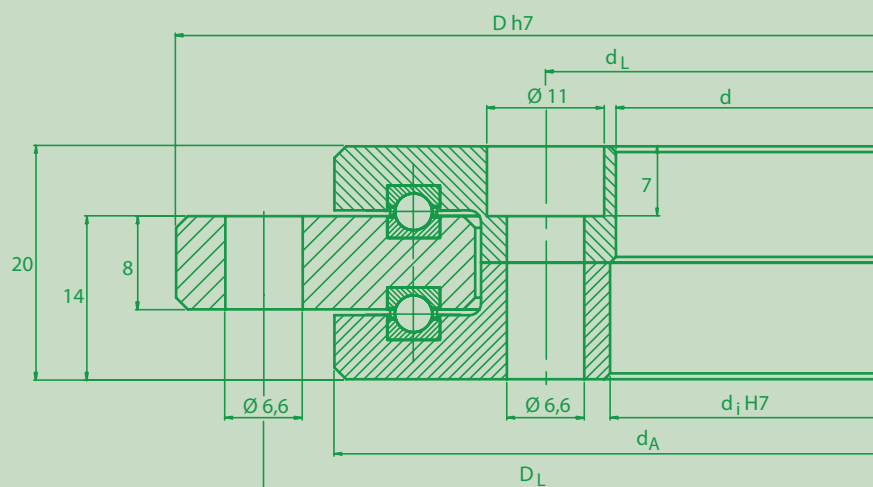


Table of dimensions YKT (without toothing)

KMF- type ¹⁾	Bearing dimension						Number of bores	Mass		Basic load ratings				Limiting speeds
										Axial		Radial		
	d	d _i	d _A	d _L	D	D _L		Steel	Al	Dyn.	Stat.	Dyn.	Stat.	
		H7								C _a	C _{oa}	C _r	C _{or}	
	mm	mm	mm	mm	mm	mm	Pieces	kg	kg	kN	kN	kN	kN	n _{G grease} min ⁻¹
YKT 100	100	101	148	115	175	160	6	1,7	0,7	6,5	48,2	5,9	19,2	1090
YKT 150	150	151	198	165	225	210	8	2,3	1,0	7,4	67,0	6,7	26,8	800
YKT 200	200	201	248	215	275	260	10	3,0	1,2	8,0	85,0	7,3	34,0	640
YKT 250	250	251	298	265	325	310	12	3,6	1,5	8,6	104,0	7,8	41,4	530
YKT 300	300	301	348	315	375	360	16	4,2	1,8	9,3	122,0	8,3	48,8	450
YKT 350	350	351	398	365	425	410	18	4,9	2,1	9,8	140,0	8,8	56,0	390
YKT 400	400	401	448	415	475	460	20	5,5	2,3	10,1	160,0	9,1	64,0	350
YKT 450	450	451	498	465	525	510	24	6,1	2,6	10,6	178,0	9,6	71,0	310

1) Other dimensions on request

Slewing bearing – SLIM-SPLIT-BEARING

Dimensions YKT (without toothing)

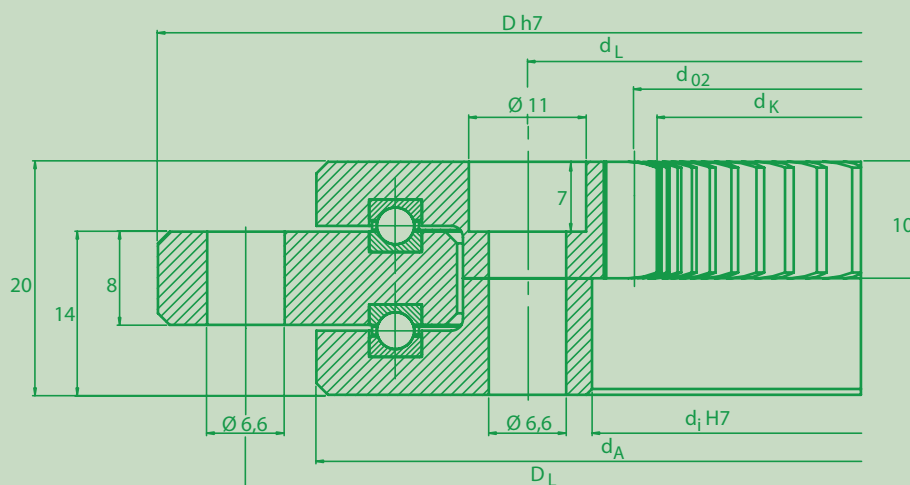


Table of dimensions, Toothing information YKTI (inner geared)

Inner toothing											
KMF-type ¹⁾	Pitch-circle-Ø	Module	Number of teeth	Tip-circle-Ø	Mass		Limiting speeds	Maximum permissible tooth force			
	d ₀₂	m	Z	d _k	Stahl	AL	n _{G grease}	Steel		AL	
	mm	mm	Pieces	mm	kg	kg	min ⁻¹	F _{Z norm.}	F _{Z max.}	F _{Z norm.}	F _{Z max.}
YKTI 100	94	2	47	90	1,8	0,8	1090	935	2040	680	1885
YKTI 150	144	2	72	140	2,4	1,1	800	950	2080	695	1915
YKTI 200	194	2	97	190	3,1	1,3	640	970	2115	705	1950
YKTI 250	244	2	122	240	3,7	1,6	530	985	2140	715	1980
YKTI 300	294	2	147	290	4,3	1,9	450	1000	2180	730	2015
YKTI 350	344	2	172	340	5,0	2,2	390	1020	2220	740	2050
YKTI 400	394	2	197	390	5,6	2,4	350	1040	2260	755	2090
YKTI 450	444	2	222	440	6,2	2,7	310	1055	2300	765	2120

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 YKT

Dimensions YKTA (outer toothing)

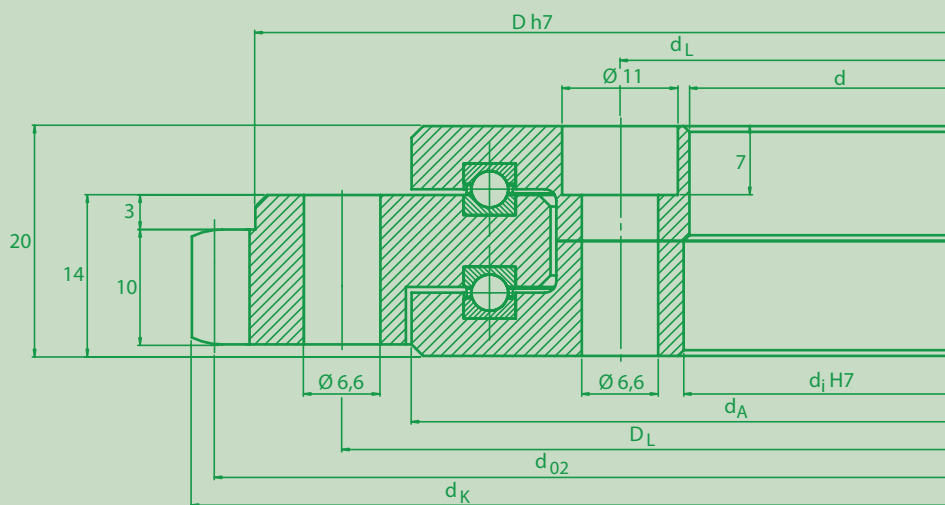


Table of dimensions, Toothing information YKTA (outer geared)

Outer toothing											
KMF-type ¹⁾	Pitch-circle-Ø	Module	Number of teeth	Tip-circle-Ø	Mass		Limiting speeds	Maximum permissible tooth force			
	d ₀₂	m	Z	d _k	Stahl	AL	n _{G grease}	Steel		AL	
	mm	mm	Pieces	mm	kg	kg	min ⁻¹	F _{Z norm.}	F _{Z max.}	F _{Z norm.}	F _{Z max.}
YKTA 100	182	2	91	186	2,3	0,9	1090	1000	2180	730	2015
YKTA 150	232	2	116	236	2,9	1,2	800	1010	2200	735	2030
YKTA 200	282	2	141	286	3,6	1,4	640	1015	2210	740	2040
YKTA 250	332	2	166	336	4,2	1,7	530	1025	2230	745	2060
YKTA 300	382	2	191	386	4,8	2,0	450	1035	2255	750	2080
YKTA 350	432	2	216	436	5,5	2,3	390	1045	2275	760	2100
YKTA 400	482	2	241	486	6,1	2,5	350	1050	2285	765	2110
YKTA 450	532	2	266	536	6,7	2,8	310	1060	2310	770	2130

1) Other dimensions on request

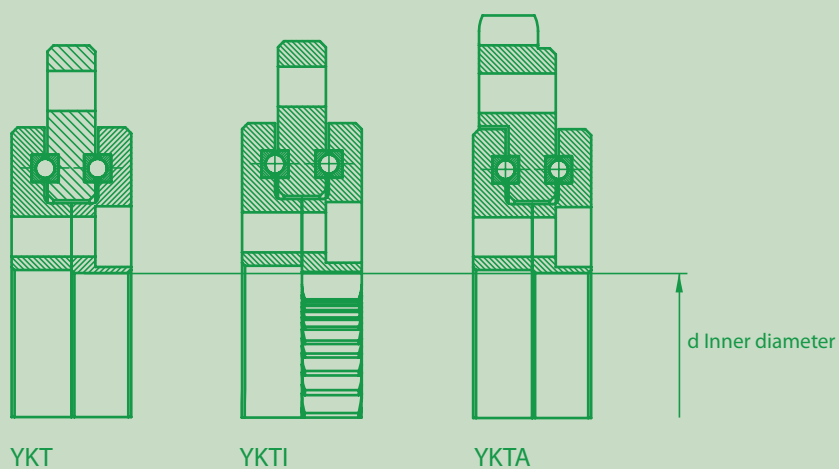
Toothing acc. to DIN 3967

Quality 8e25

Reference DIN 867

For the basic dimensions of the Slewing bearing please take a look at the table of dimensions YKT

Slewing bearing – SLIM-SPLIT-BEARING



Example of order YKT

YKT 250 
SS
AL

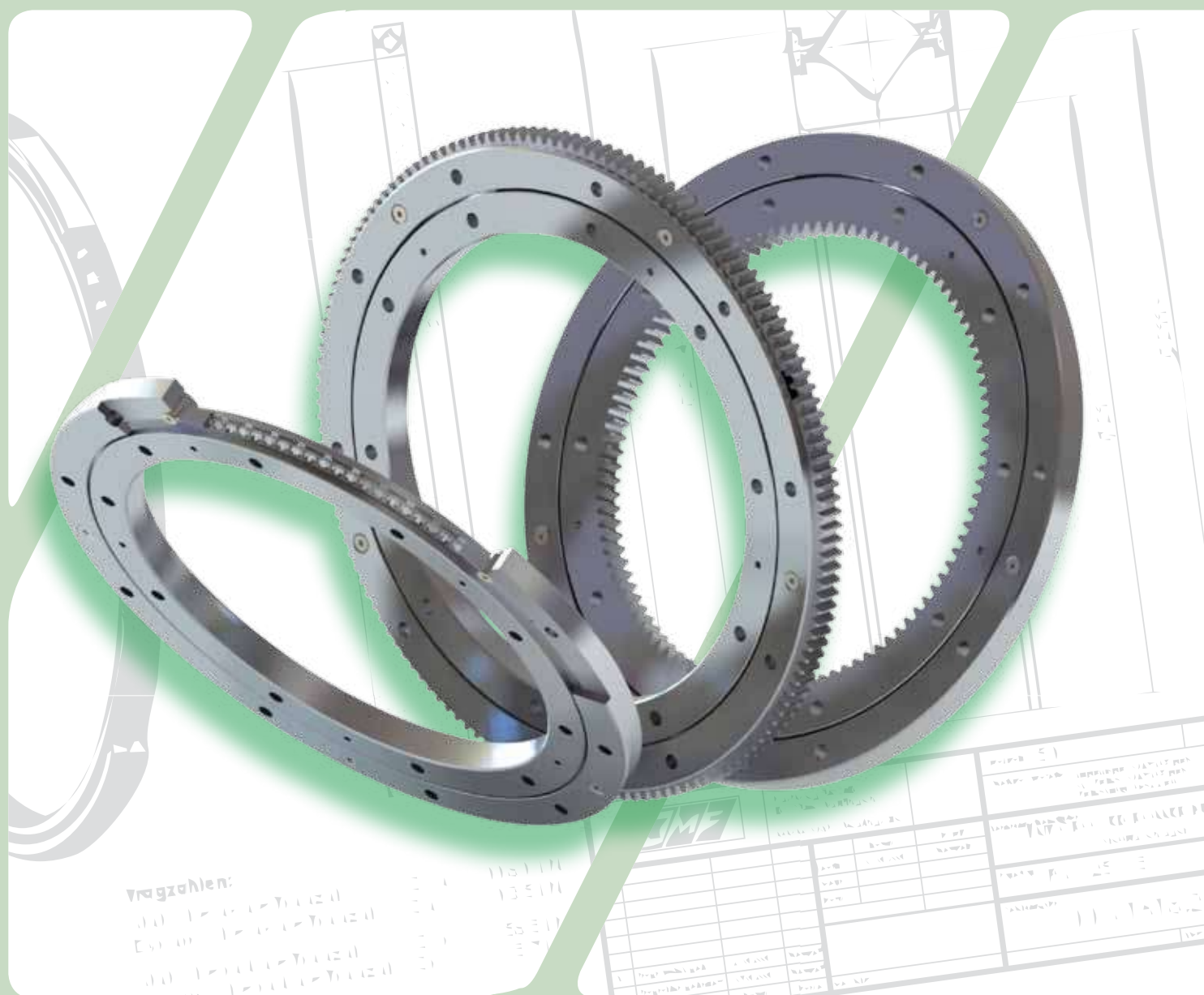
YKTI 250 
SS
AL

YKTA 250 
SS
AL

YKT Without geared 250 d Inner diameter
I With inner geared
A With outer geared

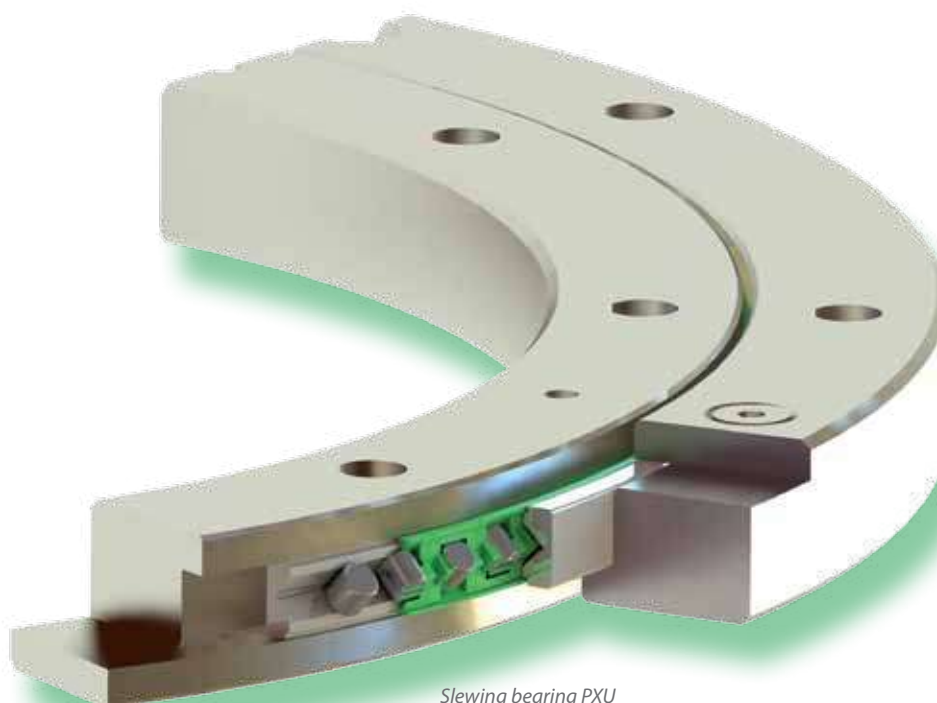
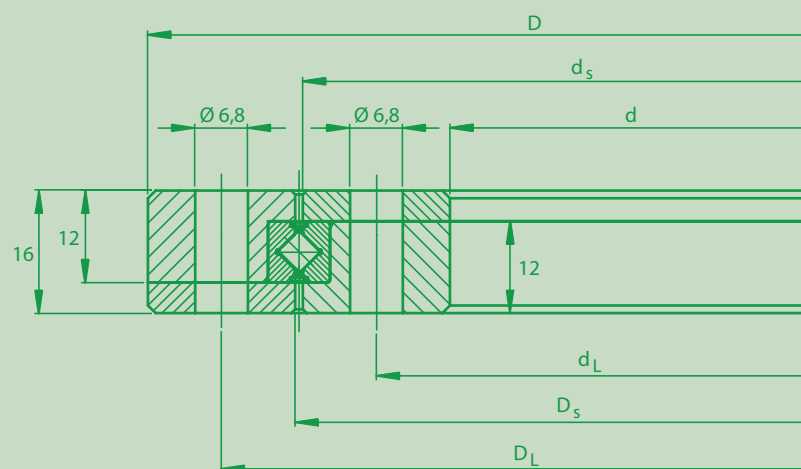
empty  Bearing rings – Steel
SS Bearing rings – Stainless steel
AL Bearing rings – Light metal

Crossed roller bearing - Slewing bearing PXU, PXI, PXA



Slewing bearing – SLIM-SPLIT-BEARING

Dimensions PXU (without toothings)



Slewing bearing PXU

Table of dimensions PXU (without toothing)

KMF-type ¹⁾	Bearing dimension						Mass
	d	D	d _s	D _s	d _L	D _L	
	mm	mm	mm	mm	mm	mm	kg
PXU 04 090	51	129	89	91	70	110	1,35
PXU 04 100	61	139	99	101	80	120	1,50
PXU 04 110	71	149	109	111	90	130	1,65
PXU 04 120	81	159	119	121	100	140	1,80
PXU 04 130	91	169	129	131	110	150	1,95
PXU 04 140	101	179	139	141	120	160	2,10
PXU 04 150	111	189	149	151	130	170	2,25
PXU 04 160	121	199	159	161	140	180	2,40
PXU 04 170	131	209	169	171	150	190	2,55
PXU 04 180	141	219	179	181	160	200	2,70
PXU 04 190	151	229	189	191	170	210	2,85
PXU 04 200	161	239	199	201	180	220	3,00
PXU 04 210	171	249	209	211	190	230	3,15
PXU 04 220	181	259	219	221	200	240	3,30
PXU 04 230	191	269	229	231	210	250	3,45
PXU 04 240	201	279	239	241	220	260	3,60
PXU 04 250	211	289	249	251	230	270	3,75
PXU 04 260	221	299	259	261	240	280	3,90
PXU 04 270	231	309	269	271	250	290	4,05
PXU 04 280	241	319	279	281	260	300	4,20
PXU 04 290	251	329	289	291	270	310	4,35
PXU 04 300	261	339	299	301	280	320	4,50
PXU 04 310	271	349	309	311	290	330	4,65
PXU 04 320	281	359	319	321	300	340	4,80
PXU 04 330	291	369	329	331	310	350	4,95

1) Other dimensions on request

Slewing bearing – SLIM-SPLIT-BEARING

Table, Type series PXU, PXI, PXA (Number of bores, Basic load ratings, Limiting speeds)

KMF-type			Number of bores	
PXU	PXI	PXA	Inner ring	Outer ring
			S _z	S _z
			Pieces	Pieces
PXU 04 090	PXI 04 090	PXA 04 090	8 x 45°	8 x 45°
PXU 04 100	PXI 04 100	PXA 04 100	8 x 45°	8 x 45°
PXU 04 110	PXI 04 110	PXA 04 110	8 x 45°	8 x 45°
PXU 04 120	PXI 04 120	PXA 04 120	8 x 45°	8 x 45°
PXU 04 130	PXI 04 130	PXA 04 130	8 x 45°	8 x 45°
PXU 04 140	PXI 04 140	PXA 04 140	8 x 45°	8 x 45°
PXU 04 150	PXI 04 150	PXA 04 150	8 x 45°	8 x 45°
PXU 04 160	PXI 04 160	PXA 04 160	8 x 45°	8 x 45°
PXU 04 170	PXI 04 170	PXA 04 170	8 x 45°	10 x 36°
PXU 04 180	PXI 04 180	PXA 04 180	8 x 45°	10 x 36°
PXU 04 190	PXI 04 190	PXA 04 190	8 x 45°	10 x 36°
PXU 04 200	PXI 04 200	PXA 04 200	8 x 45°	10 x 36°
PXU 04 210	PXI 04 210	PXA 04 210	10 x 36°	10 x 36°
PXU 04 220	PXI 04 220	PXA 04 220	10 x 36°	10 x 36°
PXU 04 230	PXI 04 230	PXA 04 230	10 x 36°	10 x 36°
PXU 04 240	PXI 04 240	PXA 04 240	10 x 36°	10 x 36°
PXU 04 250	PXI 04 250	PXA 04 250	10 x 36°	10 x 36°
PXU 04 260	PXI 04 260	PXA 04 260	10 x 36°	12 x 30°
PXU 04 270	PXI 04 270	PXA 04 270	10 x 36°	12 x 30°
PXU 04 280	PXI 04 280	PXA 04 280	10 x 36°	12 x 30°
PXU 04 290	PXI 04 290	PXA 04 290	10 x 36°	12 x 30°
PXU 04 300	PXI 04 300	PXA 04 300	12 x 30°	12 x 30°
PXU 04 310	PXI 04 310	PXA 04 310	12 x 30°	12 x 30°
PXU 04 320	PXI 04 320	PXA 04 320	12 x 30°	12 x 30°
PXU 04 330	PXI 04 330	PXA 04 330	12 x 30°	12 x 30°