

Flanged Bearings (Metric)



Flanged Ring 20mm ball (Metric Series)



The **F20 Metric Series** comprises a set of slewing rings of constant height (56mm) with a flanged cross section on one or both rings, and with external diameters ranging from 486mm to 1166mm.

FUN 20 00 Series
FIG 20 00 Series
FEG 20 00 Series

Flanged **UN**geared bearings
Flanged Internal **G**ear bearings
Flanged External **G**ear bearings

Construction

Standard bearings incorporate plastic spacers, but ball spacers, steel or brass spacers, or even full complement or caged designs can be supplied for specific applications.

From 2015 all geared slewing rings will be manufactured in 42CrMo4 steel for improved gear strength

Seals

A land riding nitrile rubber seal strip is standard. VITON seals can be supplied to order.

Gearing

Standard metric spur gears with 20 degree pressure angle and no addendum correction. Suitable pinions (as well as gearboxes and motors) can be specified and supplied. American standard gearing can be supplied if required.

Lubrication

Bearings are assembled with a Lithium EP2 grease. Special greases can be supplied to order.

Custom options

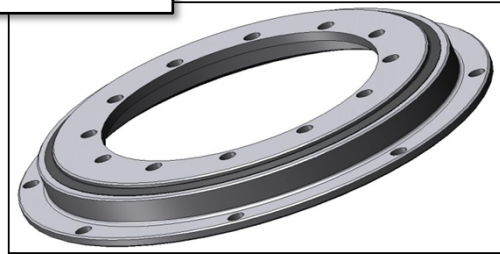
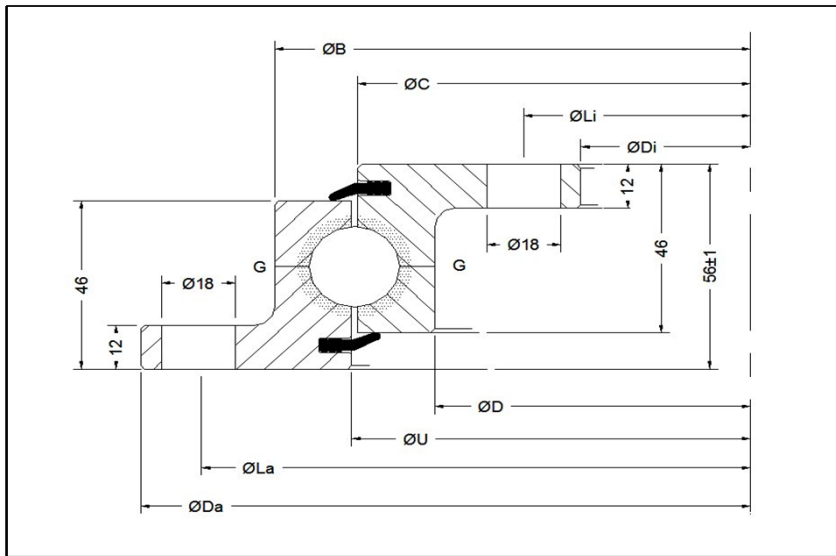
- # double or custom drilling patterns
- # higher precision bearings with location diameters
- # zinc plating for corrosion protection
- # reduced internal clearance

Applications

While a flange reduces the weight of the bearing, it also reduces its torsional stiffness and these bearings are thus best suited to light or medium loaded applications where the load has no great eccentricity.

- Industrial positioners (e.g. welding and assembly jigs)
- Ship or truck loading chute swivels
- Stretch wrapping machines
- Conveyors and associated materials handling equipment
- Simple amusement rides

Flanged Ring 20mm ball Ungearing (Metric Series)



QCB reference	Outline dimensions & weight							
	D _a	B	U	C	D	D _i	Load curve	Weight
	mm	mm	mm	mm	mm	mm		kg

FUN 418 20 00 CC LM	418	353	315.5	312.5	275	204	0	19
FUN 505 20 00 CC LM	518	453	415.5	412.5	375	304	1	23.5
FUN 650 20 00 CC LM	648	583	545.5	542.5	505	434	2	31
FUN 750 20 00 CC LM	748	683	645.5	642.5	605	534	3	36.5
FUN 850 20 00 CC LM	848	783	745.5	742.5	705	634	4	43
FUN 950 20 00 CC LM	948	883	845.5	842.5	805	734	5	48
FUN 1050 20 00 AA LM	1048	983	945.5	942.5	905	834	6	53
FUN 1200 20 00 AA LM	1198	1133	1095.5	1092.5	1055	984	7	62

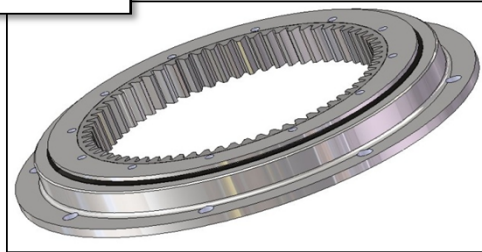
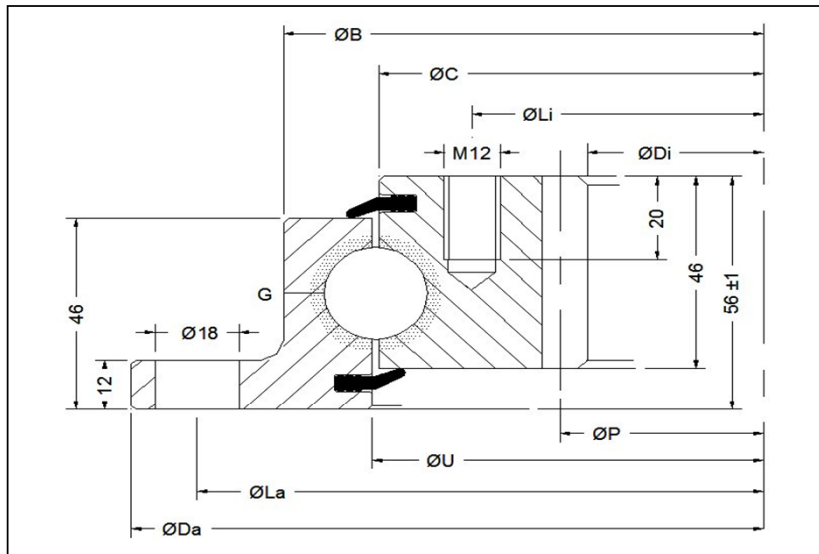
QCB reference	Outer holes		Inner holes					
	L _a	n _a	L _i	n _i				
	mm		mm					

FUN 418 20 00 CC LM	390	8	232	12				
FUN 505 20 00 CC LM	490	8	332	12				
FUN 650 20 00 CC LM	620	10	462	14				
FUN 750 20 00 CC LM	720	12	562	16				
FUN 850 20 00 CC LM	820	12	662	16				
FUN 950 20 00 CC LM	920	14	762	18				
FUN 1050 20 00 AA LM	1020	16	862	20				
FUN 1200 20 00 AA LM	1170	16	1012	20				

Standard grease fitting

at least 2 x M8 on inner and outer rings

Flanged Ring 20mm ball Internal Gear (Metric Series)



QCB reference	Outline dimensions & weight							Load curve	Weight kg
	D _a mm	B mm	U mm	C mm	D _i mm				

FIG 418 20 00 AA LM	418	353	315.5	312.5	226.5		0	21
FIG 505 20 00 AA LM	518	453	415.5	412.5	326.5		1	27
FIG 650 20 00 AA LM	648	583	545.5	542.5	445.2		2	37.5
FIG 750 20 00 AA LM	748	683	645.5	642.5	547.2		3	44.5
FIG 850 20 00 AA LM	848	783	745.5	742.5	649.2		4	51
FIG 950 20 00 AA LM	948	883	845.5	842.5	737.6		5	61
FIG 1050 20 00 AA LM	1048	983	945.5	942.5	841.6		6	65
FIG 1200 20 00 AA LM	1198	1133	1095.5	1092.5	985.6		7	80

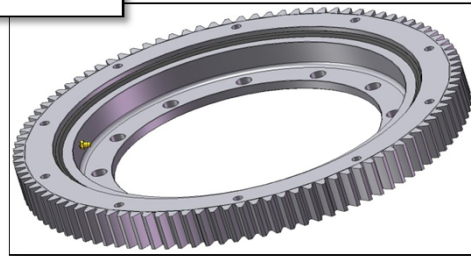
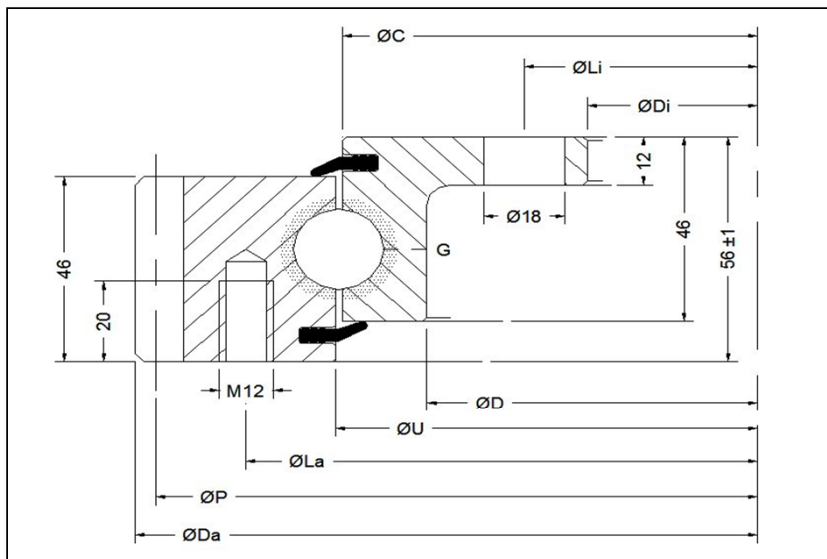
QCB reference	Outer holes		Inner holes		20° spur gear			
	L _a mm	n _a	L _i mm	n _i	P mm	m	z	F _z MAX KN

FIG 418 20 00 AA LM	390	8	275	12	235	5	47	22.8
FIG 505 20 00 AA LM	490	8	375	12	335	5	67	22.8
FIG 650 20 00 AA LM	620	10	505	16	456	6	76	27.4
FIG 750 20 00 AA LM	720	12	605	18	558	6	93	27.4
FIG 850 20 00 AA LM	820	12	705	20	660	6	110	27.4
FIG 950 20 00 AA LM	920	14	805	20	752	8	94	36.6
FIG 1050 20 00 AA LM	1020	16	905	22	856	8	107	36.6
FIG 1200 20 00 AA LM	1170	16	1055	24	1000	8	125	36.6

Standard grease fitting

at least 2 x M8 on outer ring

Flanged ring 20mm ball External Gear (Metric Series)



QCB reference	Outline dimensions & weight							
	D _a	B	U	C	D	D _i	Load curve	Weight
	mm	mm	mm	mm	mm	mm		kg

FEG 404 20 00 AA LM	404.0		315.5	312.5	275	204	0	23
FEG 505 20 00 AA LM	504.0		415.5	412.5	375	304	1	29
FEG 650 20 00 AA LM	640.8		545.5	542.5	505	434	2	40
FEG 750 20 00 AA LM	742.8		645.5	642.5	605	534	3	47
FEG 850 20 00 AA LM	838.8		745.5	742.5	705	634	4	53
FEG 950 20 00 AA LM	950.0		845.5	842.5	805	734	5	64
FEG 1050 20 00 AA LM	1046.4		945.5	942.5	905	834	6	69
FEG 1200 20 00 AA LM	1198.4		1095.5	1092.5	1055	984	7	82

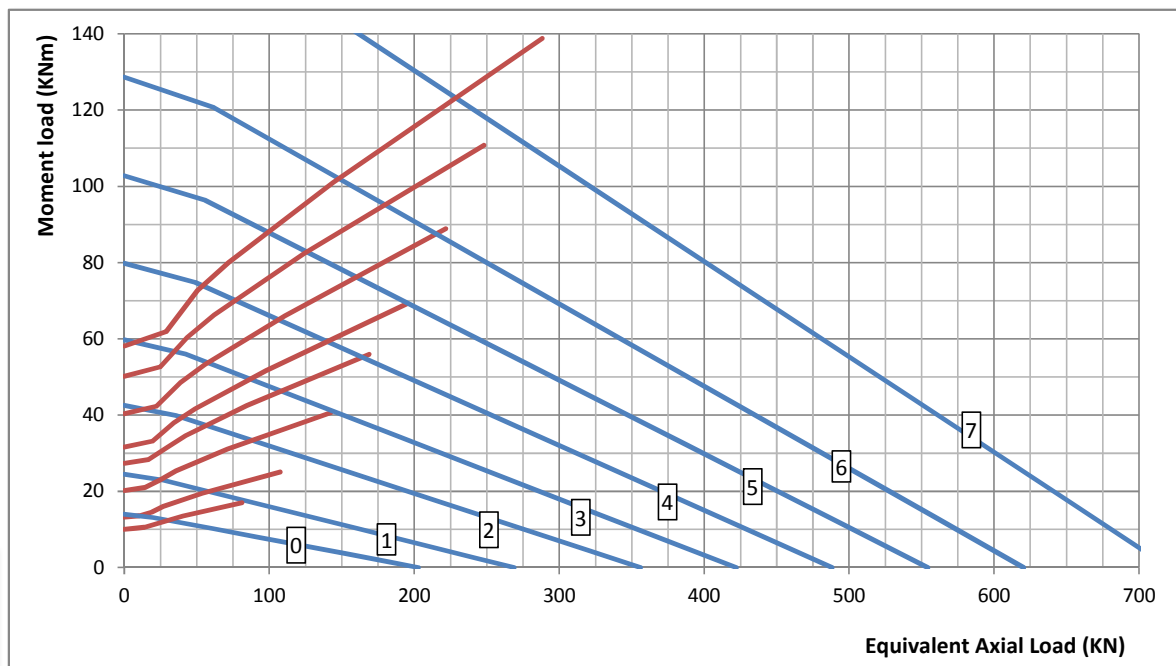
QCB reference	Outer holes		Inner holes		20° spur gear			
	L _a	n _a	L _i	n _i	P	m	z	F _z MAX
	mm		mm		mm			KN

FEG 404 20 00 AA LM	355	10	232	12	395	5	79	21.6
FEG 505 20 00 AA LM	455	10	332	12	495	5	99	21.6
FEG 650 20 00 AA LM	585	14	462	14	630	6	105	26.2
FEG 750 20 00 AA LM	685	16	562	16	732	6	122	26.2
FEG 850 20 00 AA LM	785	18	662	16	828	6	138	26.2
FEG 950 20 00 AA LM	885	18	762	18	936	8	117	35.2
FEG 1050 20 00 AA LM	985	20	862	20	1032	8	129	35.2
FEG 1200 20 00 AA LM	1135	22	1012	20	1184	8	148	35.2

Standard grease fitting

at least 2 x M8 on inner ring

Flanged ring 20mm ball Static Load Curves (Metric Series)



— Raceway load limit
— Bolt limit curve (Grade 8.8 bolt)