

Flanged Bearings (Inch)



Flanged Ring 20mm ball (Inch Series)



The **F20 Inch Series** comprises a set of slewing rings of constant height (1.811") with a flanged cross section on one or both rings, and with external diameters ranging from 20" to 47".

FUN 20 00 Series

FIG 20 00 Series

FEG 20 00 Series

Flanged UNgeared bearings

Flanged Internal Gear bearings

Flanged External Gear 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 QCB 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 American spur gear. Suitable pinions (as well as gearboxes and motors) can be specified and supplied.

Lubrication

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

Custom options

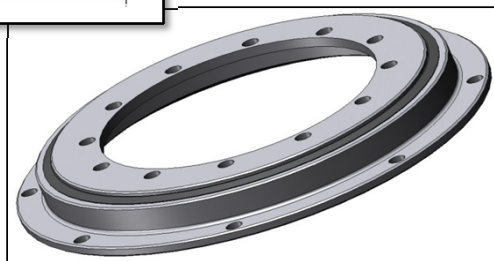
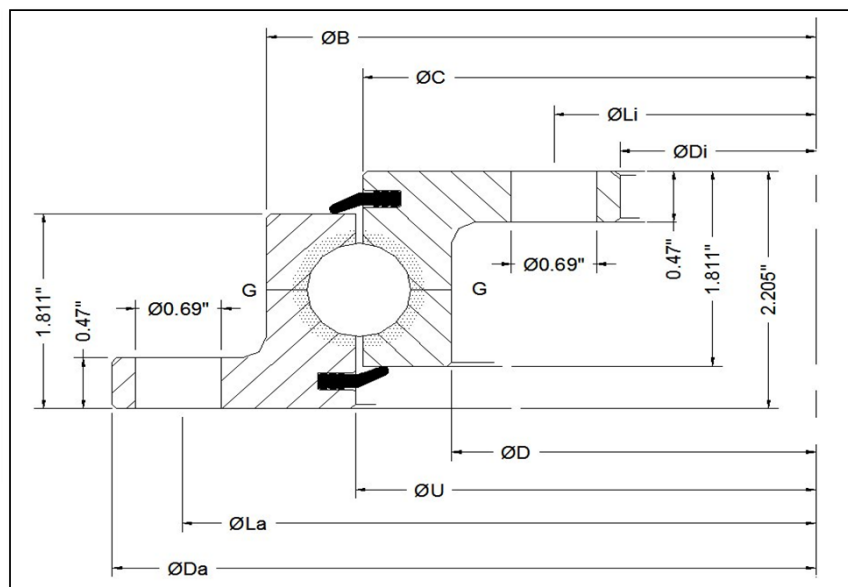
- # double or custom drilling patterns
- # higher precision location diameters
- # zinc plating for corrosion protection
- # reduced internal clearance

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 Ungeared (Inch Series)



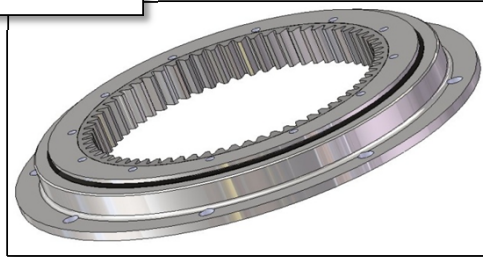
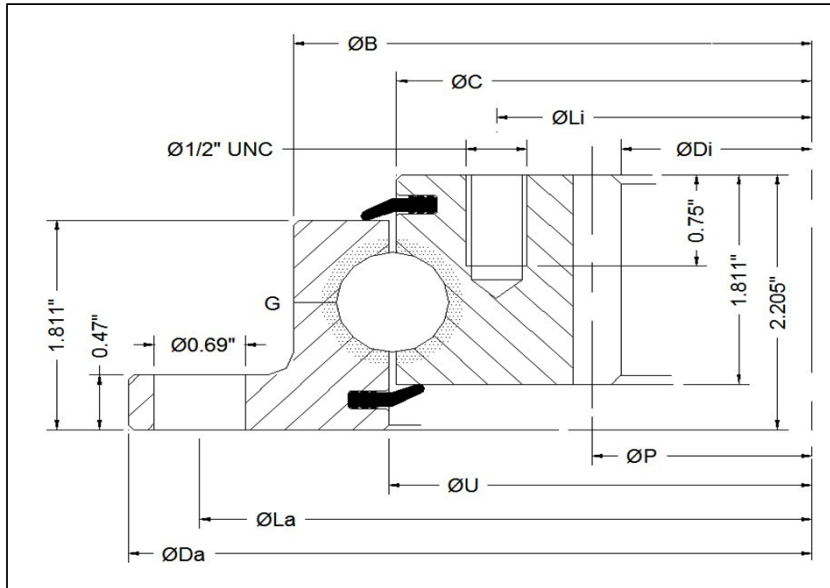
QCB reference	Outline dimensions & weight							
	D _a	D _i	B	U	C	D	KAYDON	Weight
	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>	<i>ref</i>	<i>lbs</i>
FUN 518 20 61 CC LM	20.390	11.970	17.870	16.220	16.140	14.490	RK6-16P1Z	58
FUN 648 20 61 CC LM	25.510	17.090	22.990	21.340	21.260	19.610	RK6-22P1Z	76
FUN 748 20 61 CC LM	29.450	21.030	26.930	25.280	25.200	23.550	RK6-25P1Z	89
FUN 848 20 61 CC LM	33.390	24.970	30.870	29.220	29.140	27.490	RK6-29P1Z	104
FUN 948 20 61 CC LM	37.320	28.900	34.800	33.150	33.070	31.420	RK6-33P1Z	118
FUN 1048 20 61 AA LM	41.260	32.840	38.740	37.090	37.010	35.360	RK6-37P1Z	132
FUN 1198 20 61 AA LM	47.170	38.750	44.650	43.000	42.920	41.270	RK6-43P1Z	153

QCB reference	Outer holes		Inner holes					Load curve
	L _a	n _a	L _i	n _i				
	<i>in</i>		<i>in</i>					
FUN 518 20 61 CC LM	19.250	8	13.130	12				a
FUN 648 20 61 CC LM	24.380	12	18.130	15				b
FUN 748 20 61 CC LM	28.380	12	22.130	18				c
FUN 848 20 61 CC LM	32.250	15	26.130	18				d
FUN 948 20 61 CC LM	36.250	18	30.000	18				e
FUN 1048 20 61 AA LM	40.130	18	34.000	20				f
FUN 1198 20 61 AA LM	46.000	18	39.880	24				g

Standard grease fitting

at least 2 x 1/4"-28 UNF 2B on inner and outer rings

Flanged Ring 20mm ball Internal Gear (Inch Series)



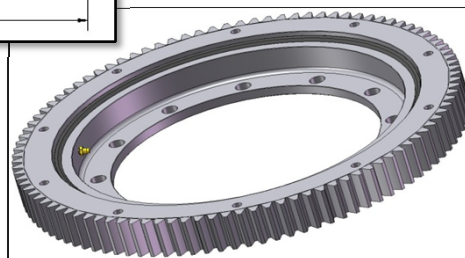
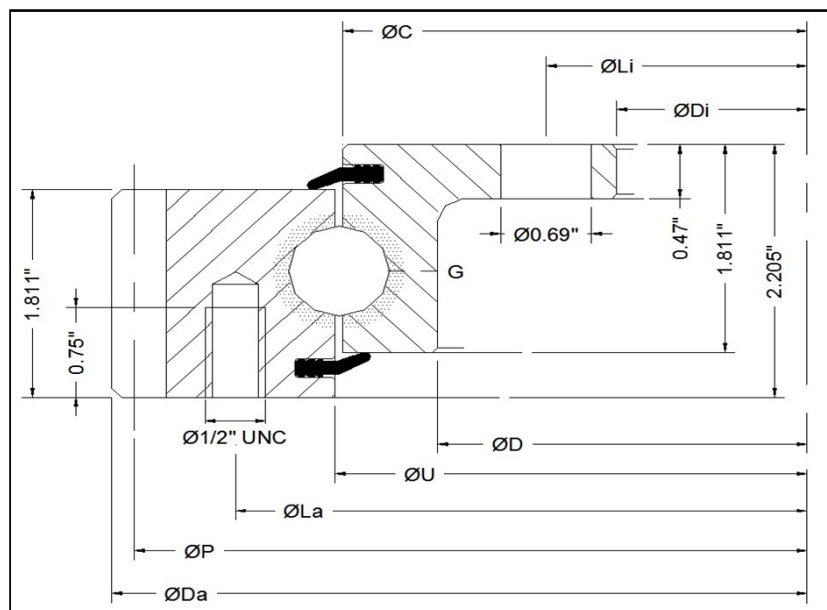
QCB reference	Outline dimensions & weight							
	D _a	D _i	B	U	C	Load curve	KAYDON	Weight
	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>		ref	<i>lbs</i>
FIG 518 20 61 AA LM	20.390	12.850	17.870	16.220	16.140	a	RK6-16N1Z	65
FIG 648 20 61 AA LM	25.510	17.600	22.990	21.340	21.260	b	RK6-22N1Z	90
FIG 748 20 61 AA LM	29.450	21.600	26.930	25.280	25.200	c	RK6-25N1Z	106
FIG 848 20 61 AA LM	33.390	25.600	30.870	29.220	29.140	d	RK6-29N1Z	121
FIG 948 20 61 AA LM	37.320	29.133	34.800	33.150	33.070	e	RK6-33N1Z	148
FIG 1048 20 61 AA LM	41.260	33.133	38.740	37.090	37.010	f	RK6-37N1Z	165
FIG 1198 20 61 AA LM	47.170	39.133	44.650	43.000	42.920	g	RK6-43N1Z	188

QCB reference	Outer holes		Inner holes		20° spur gear			
	L _a	n _a	L _i	n _i	P	DP	z	F _z MAX
	<i>in</i>		<i>in</i>		<i>in</i>			<i>lbs</i>
FIG 518 20 61 AA LM	19.250	8	14.880	12	13.250	4	53	6800
FIG 648 20 61 AA LM	24.380	10	19.630	15	18.000	4	72	6530
FIG 748 20 61 AA LM	28.380	12	23.630	18	22.000	4	88	6400
FIG 848 20 61 AA LM	32.250	15	27.630	18	26.000	4	104	6300
FIG 948 20 61 AA LM	36.250	18	31.500	18	29.667	3	89	8520
FIG 1048 20 61 AA LM	40.130	18	35.500	20	33.667	3	101	8420
FIG 1198 20 61 AA LM	46.000	18	41.500	24	39.667	3	119	8340

Standard grease fitting

at least 2 x 1/4"-28 UNF 2B on outer ring

Flanged ring 20mm ball External Gear (Inch Series)



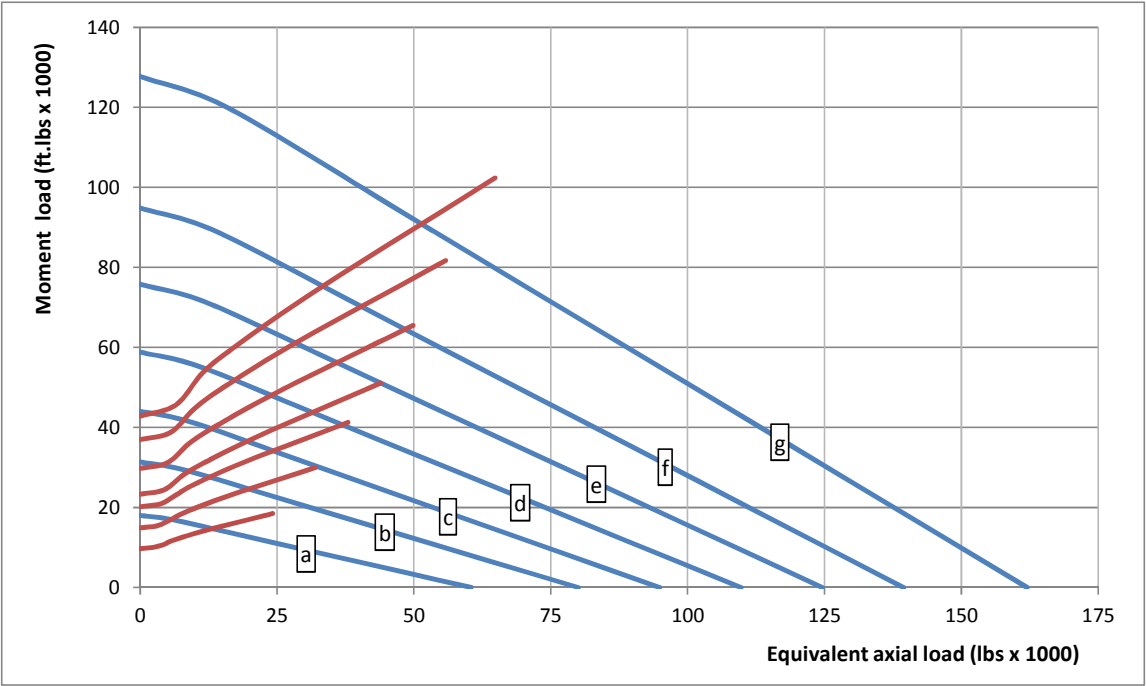
QCB reference	Outline dimensions & weight							
	D _a	D _i	U	C	D	Load curve	KAYDON	Weight
	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>		ref	<i>lbs</i>
FEG 506 20 61 AA LM	19.900	11.970	16.220	16.140	14.490	a	RK6-16E1Z	72
FEG 639 20 61 AA LM	25.150	17.090	21.340	21.260	19.610	b	RK6-22E1Z	96
FEG 740 20 61 AA LM	29.150	21.030	25.280	25.200	23.550	c	RK6-25E1Z	115
FEG 836 20 61 AA LM	32.900	24.970	29.220	29.140	27.490	d	RK6-29E1Z	128
FEG 945 20 61 AA LM	37.200	28.900	33.150	33.070	31.420	e	RK6-33E1Z	152
FEG 1047 20 61 AA LM	41.200	32.840	37.090	37.010	35.360	f	RK6-37E1Z	172
FEG 1190 20 61 AA LM	46.867	38.750	43.000	42.920	41.270	g	RK6-43E1Z	189

QCB reference	Outer holes		Inner holes		20° spur gear			
	L _a	n _a	L _i	n _i	P	DP	z	F _z MAX
	<i>in</i>		<i>in</i>		<i>in</i>			<i>lbs</i>
FEG 506 20 61 AA LM	18.000	8	13.130	12	19.500	4	78	5560
FEG 639 20 61 AA LM	23.250	12	18.130	15	24.750	4	99	5650
FEG 740 20 61 AA LM	27.250	15	22.130	18	28.750	4	115	5700
FEG 836 20 61 AA LM	31.000	18	26.130	18	32.500	4	130	5740
FEG 945 20 61 AA LM	35.000	18	30.000	18	36.667	3	110	7580
FEG 1047 20 61 AA LM	38.880	18	34.000	20	40.667	3	122	7620
FEG 1190 20 61 AA LM	44.630	20	39.880	24	46.333	3	139	7680

Standard grease fitting

at least 2 x 1/4"-28 UNF 2B on inner ring

Flanged ring 20mm ball Static Load Curves



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