

14mm X-Roller Bearings



Solid Ring 14mm x-roller Metric Series

Slewing rings for medium to heavy duty applications in a wide range of industries



The S20 X14 Metric series comprises a set of slewing rings of constant height (56mm) with solid cross section rings and external diameters ranging from 486 to 1166mm. The rolling element is a 14mm crossed roller set which offers greater rigidity to the bearing system compared to the 20mm 4 point contact series. Dynamic loading is also improved

SUN X14 Series

SIG X14 Series

SEG X14 Series

Solid UNgeared bearings

Solid Internal Gear bearings

Solid 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 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

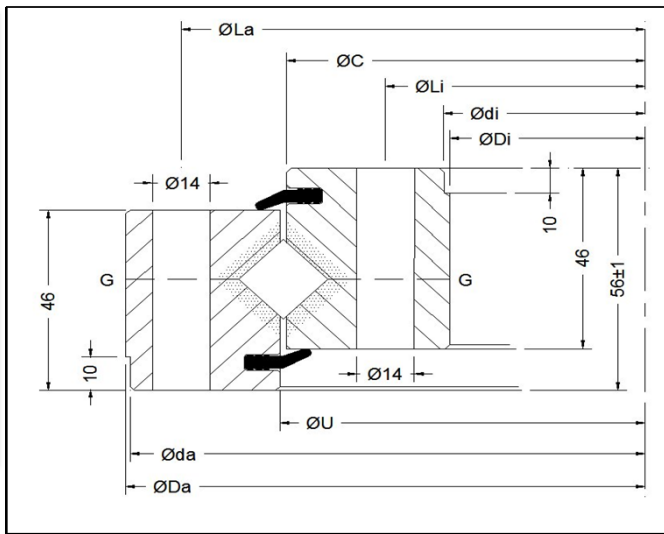
- # double or custom drilling patterns
- # higher precision bearings with location diameters
- # zinc plating for corrosion protection
- # reduced internal clearance

Applications

Suited to applications that require greater accuracy or rigidity.



Solid Ring 14mm roller Ungerated



QCB Reference	Outline dimensions & weight							
	D _a	D _i	U	C	d _a f9	d _i H9	Load curve	Weight
	mm	mm	mm	mm	mm	mm		kg
SUN 486 X14 01 CC LM	486	342	415.5	412.5	484	344	21	30.2
SUN 616 X14 01 CC LM	616	472	545.5	542.5	614	474	22	39.7
SUN 716 X14 01 CC LM	716	572	645.5	642.5	714	574	23	47.0
SUN 816 X14 01 CC LM	816	672	745.5	742.5	814	674	24	54.6
SUN 916 X14 01 CC LM	916	772	845.5	842.5	914	774	25	62.5
SUN 1016 X14 01 AA LM	1016	872	945.5	942.5	1014	874	26	70.0
SUN 1166 X14 01 AA LM	1166	1022	1095.5	1092.5	1164	1024	27	81.6

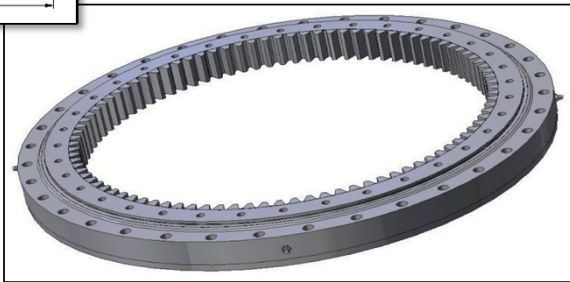
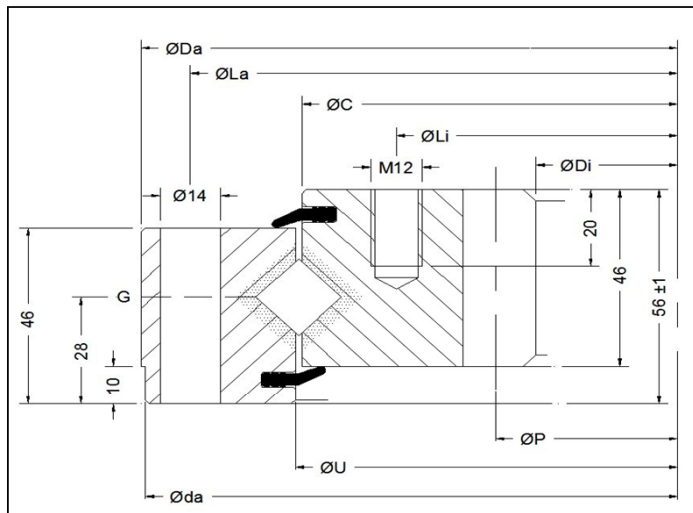
QCB Reference	Outer holes		Inner holes					
	L _a	n _a	L _i	n _i				
	mm		mm					
SUN 486 X14 01 CC LM	460	24	368	24				
SUN 616 X14 01 CC LM	590	32	498	32				
SUN 716 X14 01 CC LM	690	36	598	36				
SUN 816 X14 01 CC LM	790	40	698	40				
SUN 916 X14 01 CC LM	890	40	798	40				
SUN 1016 X14 01 AA LM	990	44	898	44				
SUN 1166 X14 01 AA LM	1140	48	1048	48				

Standard grease fitting

at least 2 x M8 on inner and outer rings



Solid Ring 14mm roller Internal Gear



QCB Reference	Outline dimensions & weight							
	D _a	D _i	U	C	d _a f9	d _i H9	Load curve	Weight
	mm	mm	mm	mm	mm	mm		

SIG 486 X14 01 AA LM	486	324	415.5	412.5	484		21	31
SIG 616 X14 01 AA LM	616	444	545.5	542.5	614		22	42
SIG 716 X14 01 AA LM	716	546	645.5	642.5	714		23	50
SIG 816 X14 01 AA LM	816	648	745.5	742.5	814		24	58
SIG 916 X14 01 AA LM	916	736	845.5	842.5	914		25	69
SIG 1016 X14 01 AA LM	1016	840	945.5	942.5	1014		26	76
SIG 1166 X14 01 AA LM	1166	984	1095.5	1092.5	1164		27	91

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

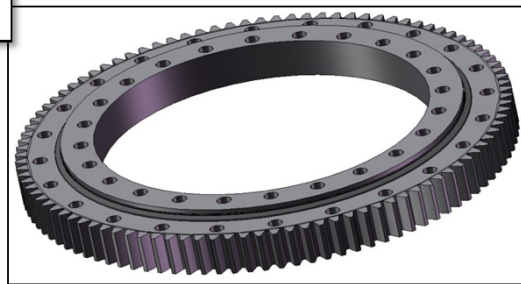
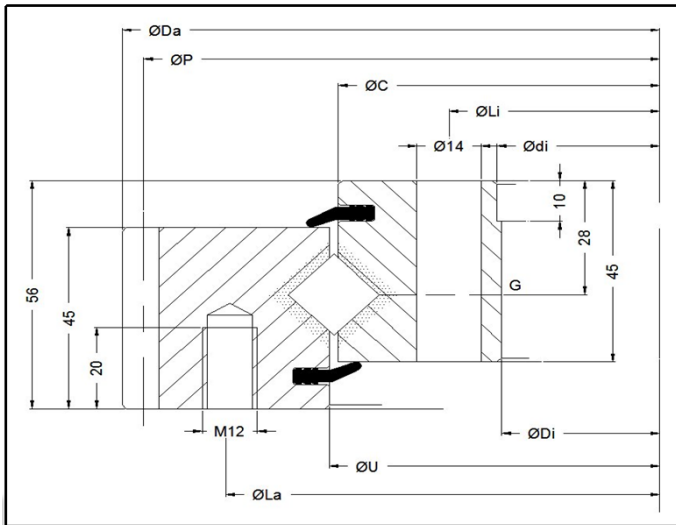
SIG 486 X14 01 AA LM	460	24	375	24	335	5	67	22.8
SIG 616 X14 01 AA LM	590	32	505	32	456	6	76	27.4
SIG 716 X14 01 AA LM	690	36	605	36	558	6	93	27.4
SIG 816 X14 01 AA LM	790	40	705	40	660	6	110	27.4
SIG 916 X14 01 AA LM	890	40	805	40	752	8	94	36.6
SIG 1016 X14 01 AA LM	990	44	905	44	856	8	107	36.6
SIG 1166 X14 01 AA LM	1140	48	1055	48	1000	8	125	36.6

Standard grease fitting

at least 2 x M8 on outer ring



Solid ring 14mm roller External gear



QCB Reference	Outline dimensions & weight							
	D_a	D_i	U	C	$d_a f9$	$d_i H9$	Load curve	Weight
	mm	mm	mm	mm	mm	mm		

SEG 505 X14 01 AA LM	503.3	342	415.5	412.5		344	21	31
SEG 650 X14 01 AA LM	640.6	472	545.5	542.5		474	22	43
SEG 750 X14 01 AA LM	742.3	572	645.5	642.5		574	23	52
SEG 850 X14 01 AA LM	838.1	672	745.5	742.5		674	24	59
SEG 950 X14 01 AA LM	950.1	772	845.5	842.5		774	25	71
SEG 1050 X14 01 AA LM	1046.1	872	945.5	942.5		874	26	77
SEG 1200 X14 01 AA LM	1198.1	1022	1095.5	1092.5		1024	27	91

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

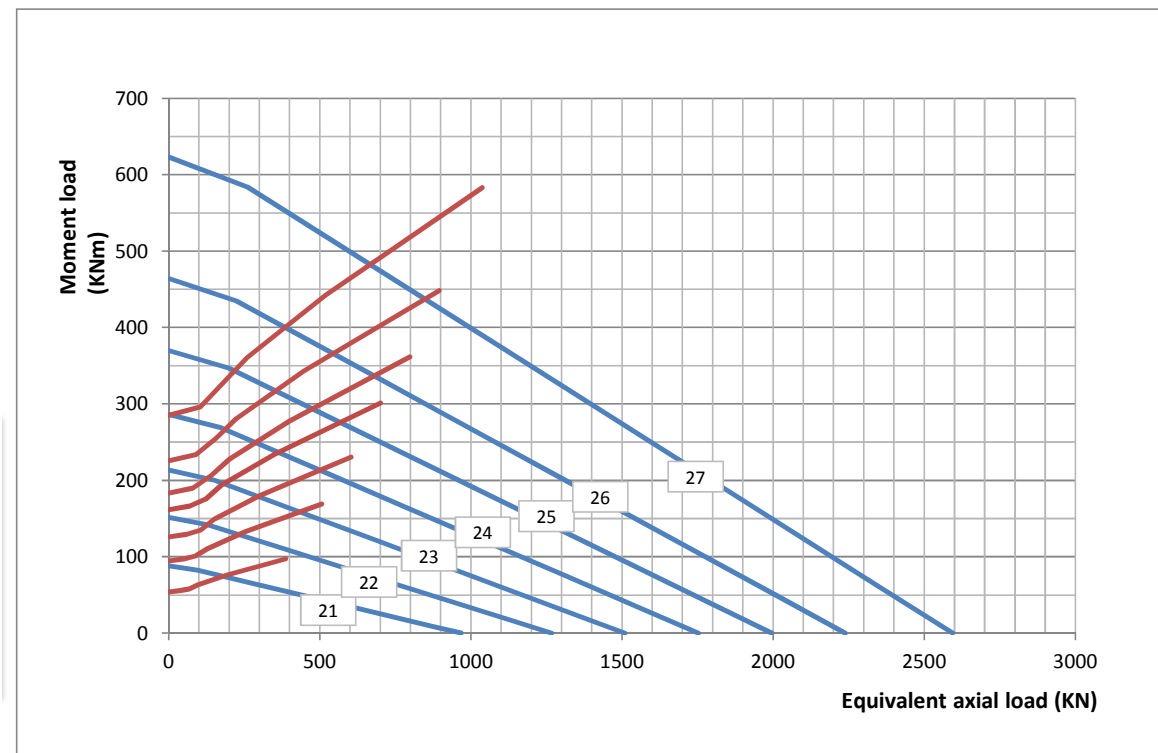
SEG 505 X14 01 AA LM	455	20	368	24	495	5	99	21.6
SEG 650 X14 01 AA LM	585	28	498	32	630	6	105	26.2
SEG 750 X14 01 AA LM	685	32	598	36	732	6	122	26.2
SEG 850 X14 01 AA LM	785	36	698	40	828	6	138	26.2
SEG 950 X14 01 AA LM	885	36	798	40	936	8	117	35.2
SEG 1050 X14 01 AA LM	985	40	898	44	1032	8	129	35.2
SEG 1200 X14 01 AA LM	1135	44	1048	48	1184	8	148	35.2

Standard grease fitting

at least 2 x M8 on inner ring



Solid ring 14mm roller Static Load Curves



 Raceway load limit
 Bolt limit curve (Grade 10.9 bolt)

