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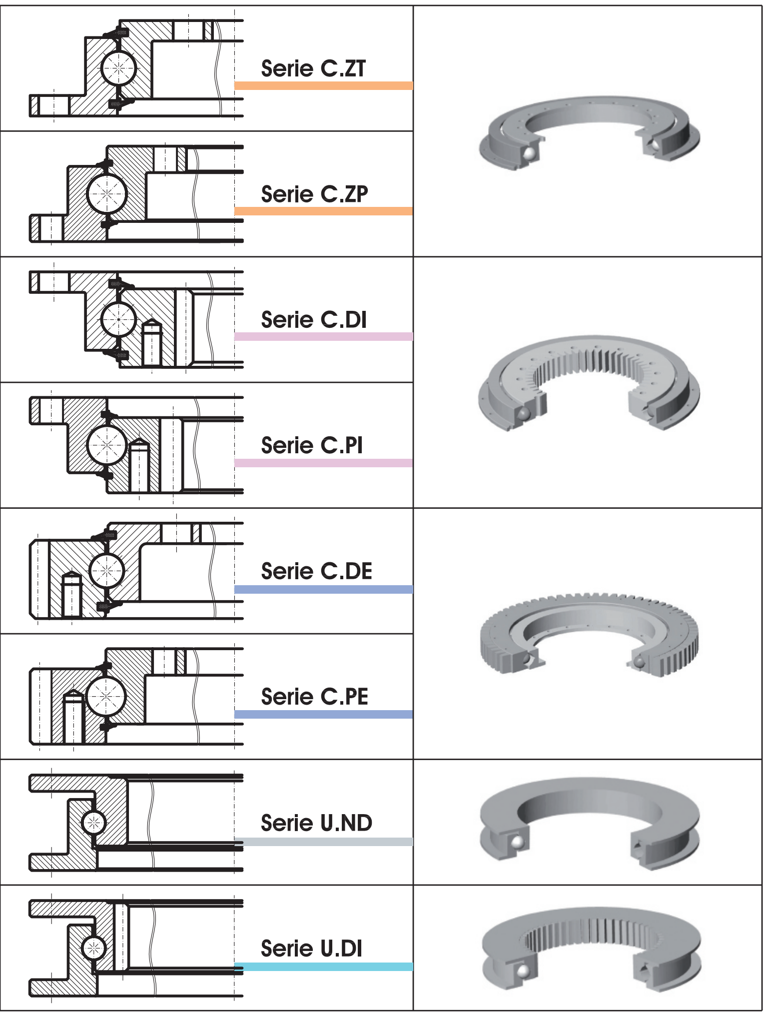
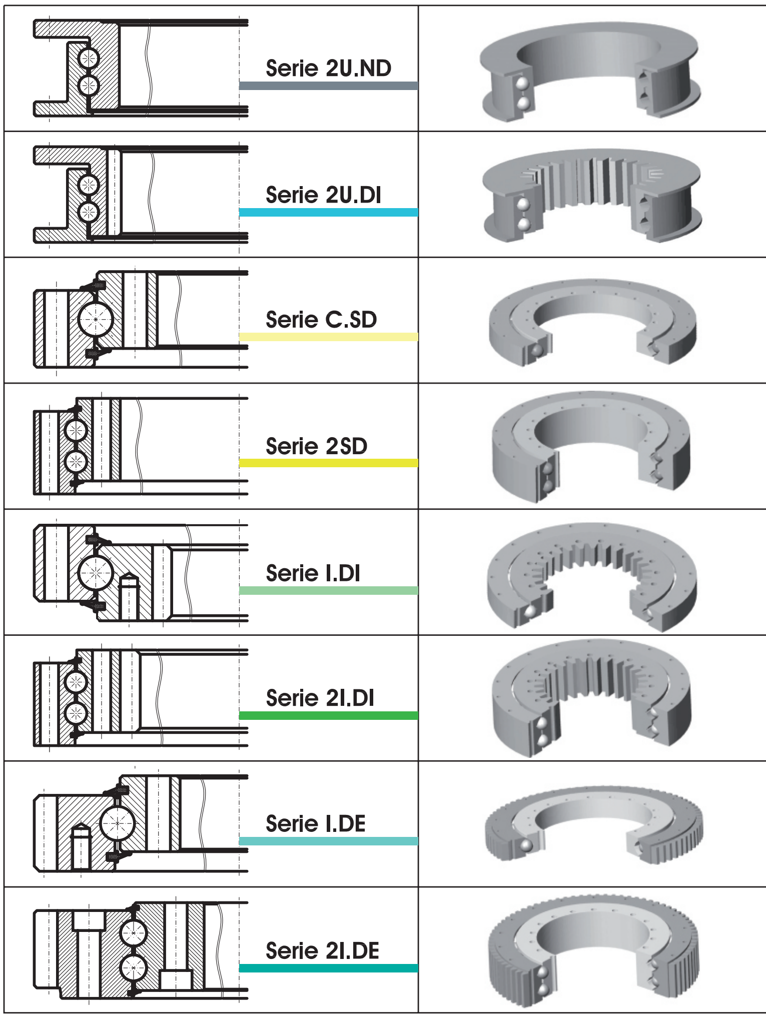
MOTION,
LIFTING
AND
BEYOND





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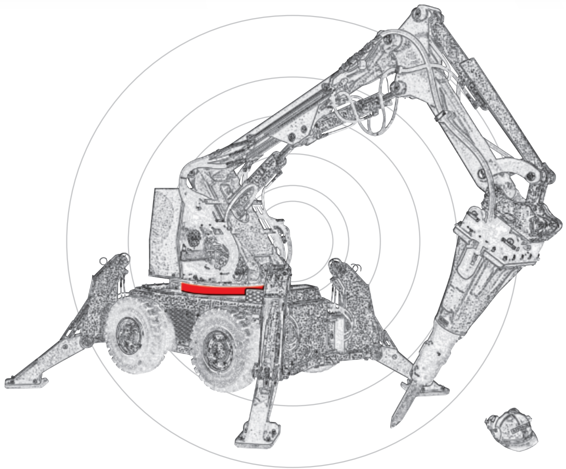
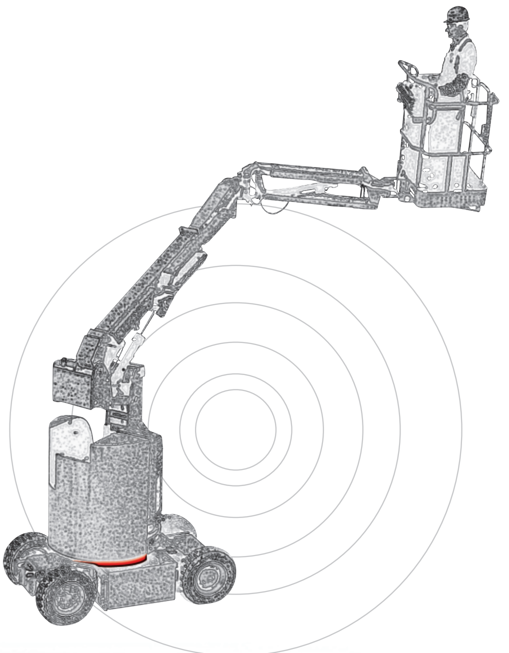
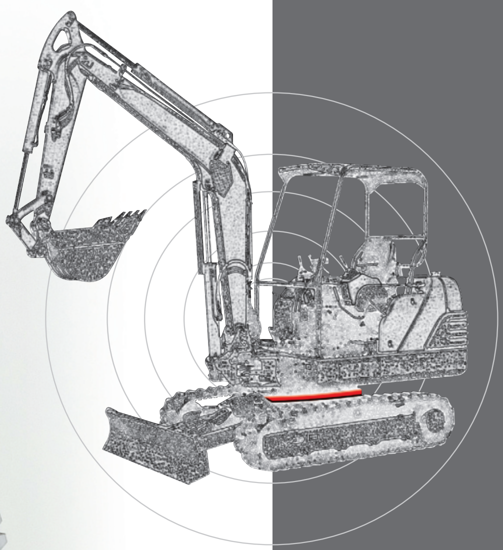
EXAMPLES OF APPLICATION







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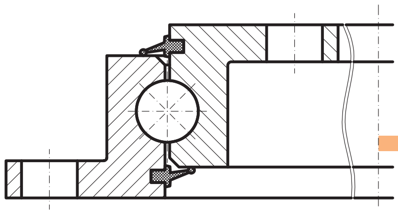
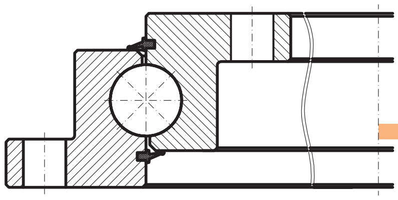
Start

OUR MODELS



Serie C.ZT



Serie C.ZP

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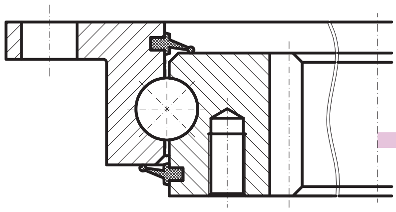

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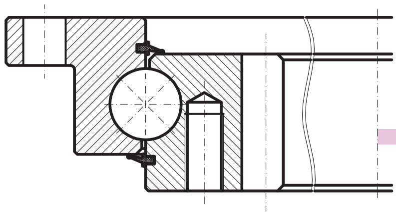

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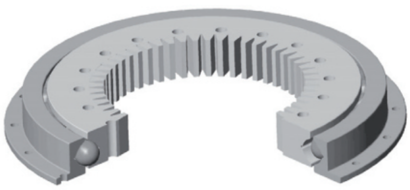

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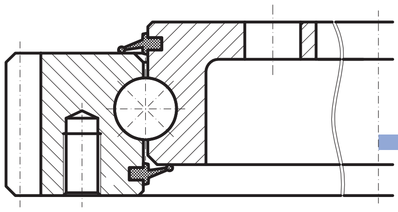
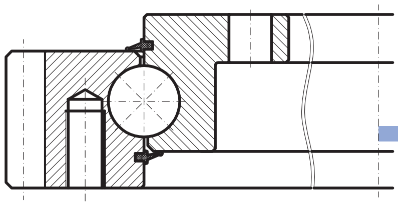


Serie C.DE



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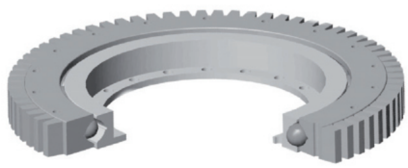

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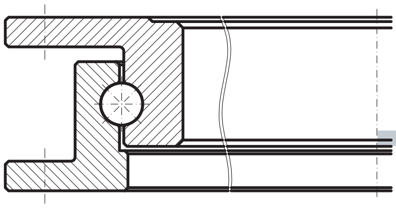

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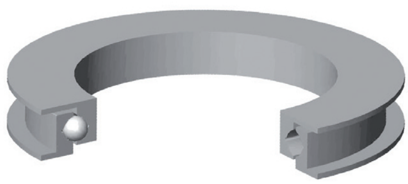

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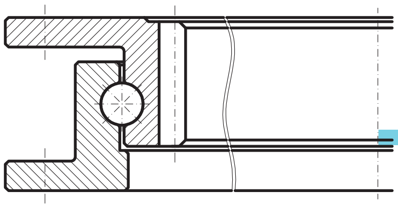

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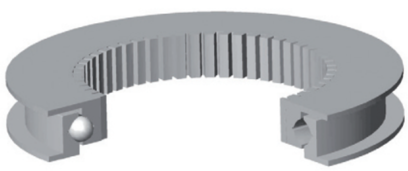

Pg: 35

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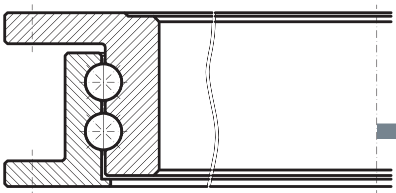
O U R M O D E L S



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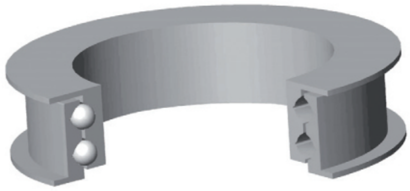

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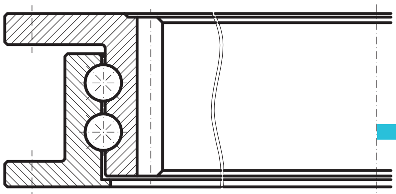

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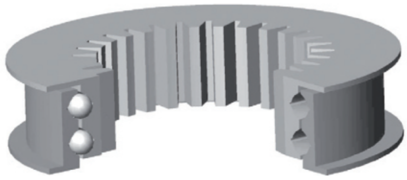

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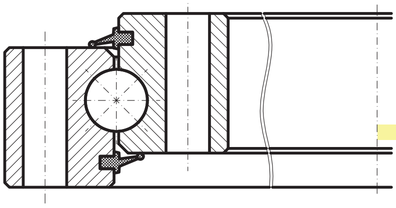

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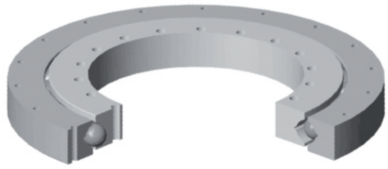

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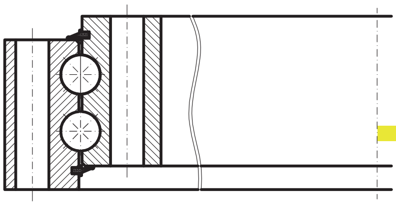
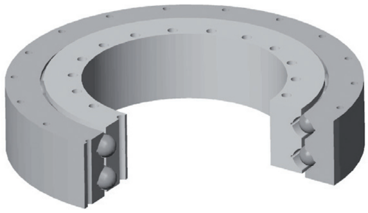


Serie 2SD



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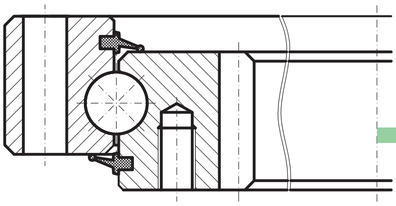
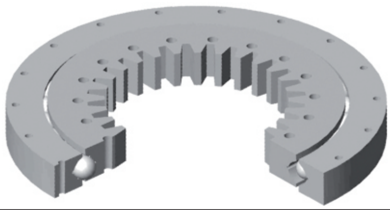


Serie I.DI



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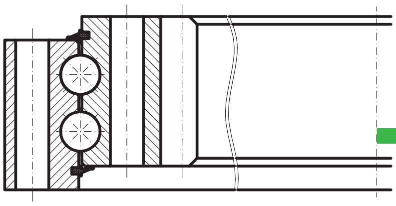

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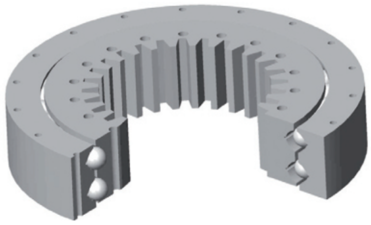

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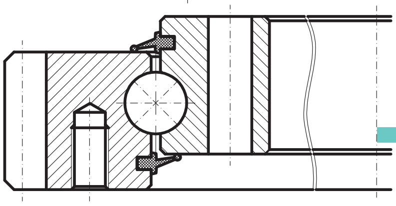

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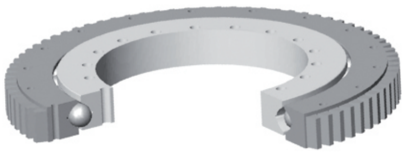

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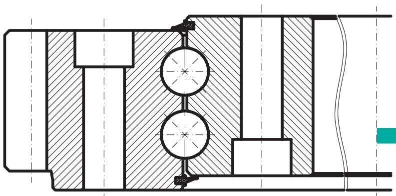

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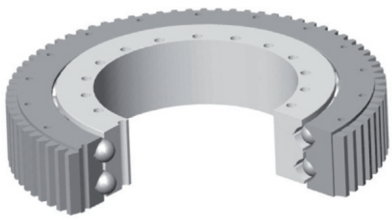

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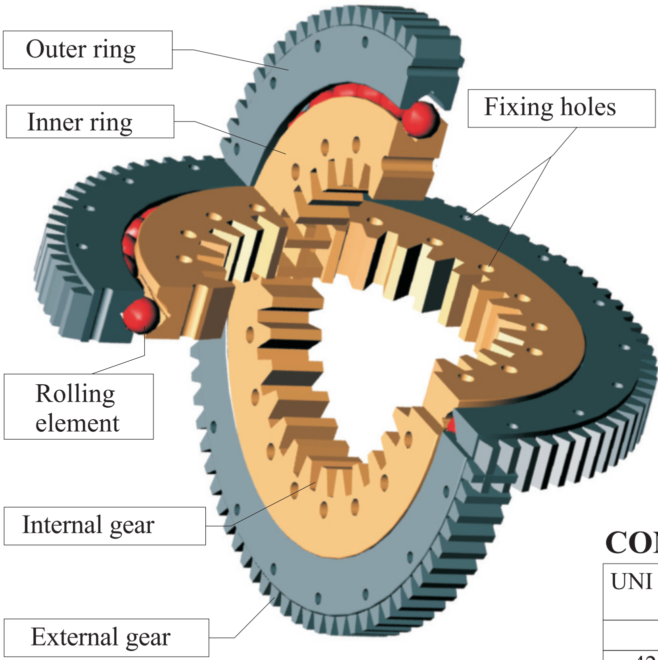
INFORMATION ON FOUR POINT CONTACT SLEWING RINGS



Slewing rings are composed of two rings, one inner and one outer, in which raceways are obtained that contain the bearings (sphere) on which the working loads are transmitted from the moving ring to the fixed one. The rings can be produced un-geared as well as with internal or external gear. The slewing ring is then fitted with grease nipple and seals for lubricant.

Rolling elements

Material: 100 Cr6 with hardness HRC = 63 ± 3. Bearings are introduced through the assembling hole and then closed with a plug

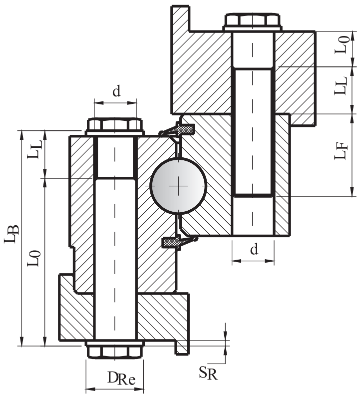
CONSTRUCTION MATERIAL

UNI EN 10083-1:2006	EURONORM 10083-1/2006	DIN EN 10083-1:2006	NF EN 10083-1:2006	AISI - SAE
C45	2C45	Ck45	Xc48	1045
42CrMo4	42CrMo4	42CrMo4	42CD4	4140

FASTENING BOLTS

Forces on the rings and safety of the slewing ring are strictly related to the quality of the bolts. Forces and fastening moments (Fp,Ms) reported within the chart are calculated on normal pitch. Fastening with hydraulic tools is suggested at 85% of the chart value. In the event bolts are galvanized values are as declared by the manufacturer.

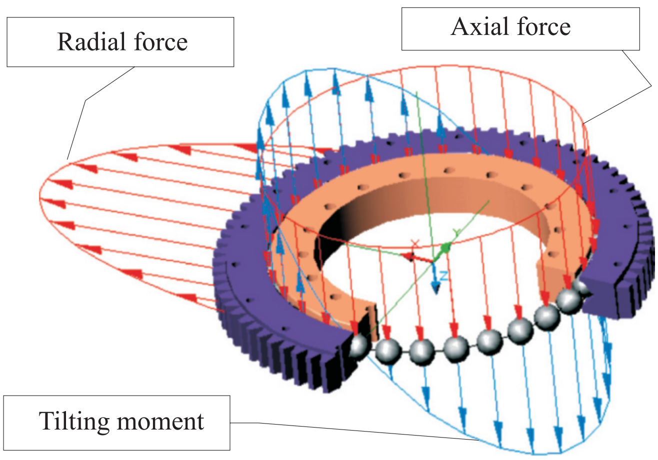
GEOMETRIC CONSTRUCTION



FASTENING FORCES AND MOMENTS OF BOLTS

Geometric elements			8.8		10.9		12.9	
Nut	Washer	M	Fp, kN	Ms, N.m	Fp, kN	Ms, N.m	Fp, kN	Ms, N.m
Lb =(5..10) .d L0 >d LL >6 .pas LF >1,5 .d	DRe=2 .d SR >0,3.d	6	9	7.5	14	11	16	13
		8	17	19	25	28	29	33
		10	27	38	40	55	47	65
		12	38	66	56	97	66	114
		14	53	105	77	156	90	183
		16	72	168	106	246	124	288
		18	91	229	129	336	151	394
		20	117	327	166	481	194	562
		22	146	450	208	660	243	773
		24	168	550	239	830	280	972
		27	221	837	315	1230	370	1439

EFFECT OF FORCES ON SLEWING RING



SLEWING RING LOADS

The slewing rings can be subjected simultaneously to radial and axial forces together with a tilting moment.
The slewing rings internal shape, the fastening system and the rings material are choosen based on the loads and the product application.
Pull and compression axial loads: On pull axial load the forces are on the bolts. In this case the data reported within the catalogue must be reviewed by our Technical Department.
Our Technical Department has developed a calculation program that works on 5 grades of freedom for applied forces: an axial force, two radial forces and two tilting moments.
The internal shape of slewing rings is achieved in order to avoid non hertzian contacts in presence of static and dynamic loads.

HOW TO DETERMINE THE EQUIVALENT LOAD

Peq = equivalent loads point

Fa.eq = Fa + 5,05 . Fr

Mr.eq = Mr

Significance:

Fa = Nominal axial load (KN)

Fr = Nominal radial load (KN)

Fa.eq = Equivalent axial load (KN)

Mr = Nominal tilting moment (KN.m)

Pu = point of use

Fa.u = Fa.eq . Kstat.

Mr.u = Mr.eq . Kstat.

Significance:

Kstat = Safety factor

Fa.u = Axial load of work (KN)

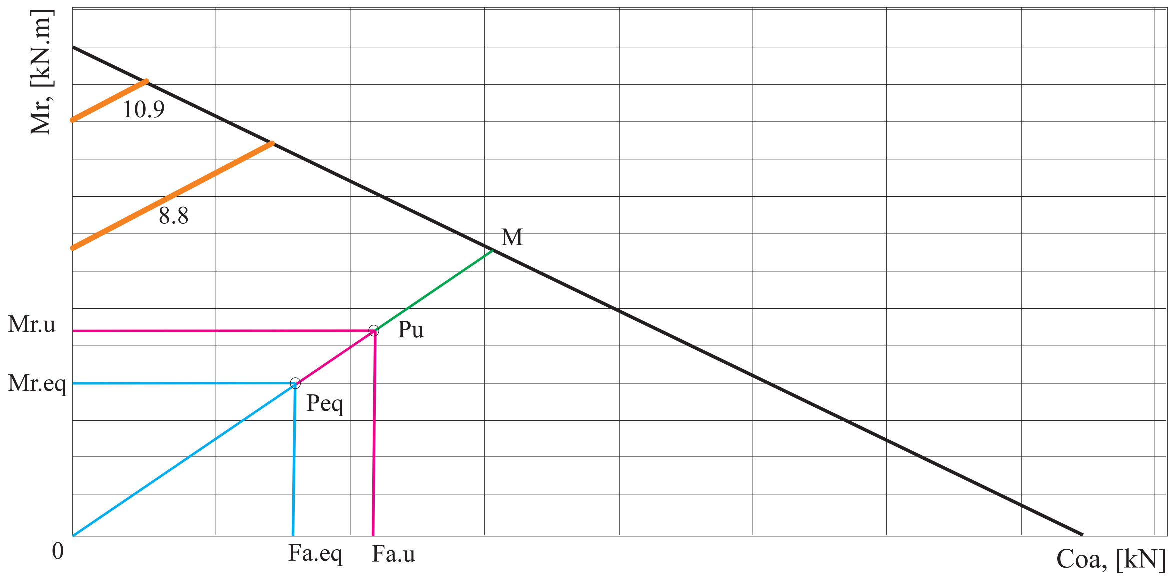
Mr.u = Working tilting moment (KN.m)

Please note:
The Pu must be under the curve of the load limit chart

Safety factor (Kstat) values

Applications	Kstat	Applications	Kstat
Telescopic crane	1.35	Truck mounted crane	1.5
Lifting platform	1.35	Deck crane	1.5
Rope excavator	1.5	Locomotive crane	1.5
Hydraulic excavator	2	Offshore crane	1.65
Wind turbines	2	Dock crane	1.65
Jib crane	1.35	Aerial platform	1.35
Grab crane	1.5	Welding positioner	1.35
Hook crane	1.5	Robotics	2.0
Tower crane	1.35	Turn table	1.35

Load limit chart



The ratio $\overline{OM}/\overline{OPu}$ represents the nominal safety factor that must correspond to the value and specifications imposed by the user.

The formulas for the preliminary choice of the slewing rings correspond to a hypothetical case with:

- Axle of vertical rotation
- Compression axial load
- Slow rotations
- Moderate shocks
- For different applications please refer to our technical department

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Start

PRELIMINARY CHOICE OF 4 POINT CONTACT BEARING

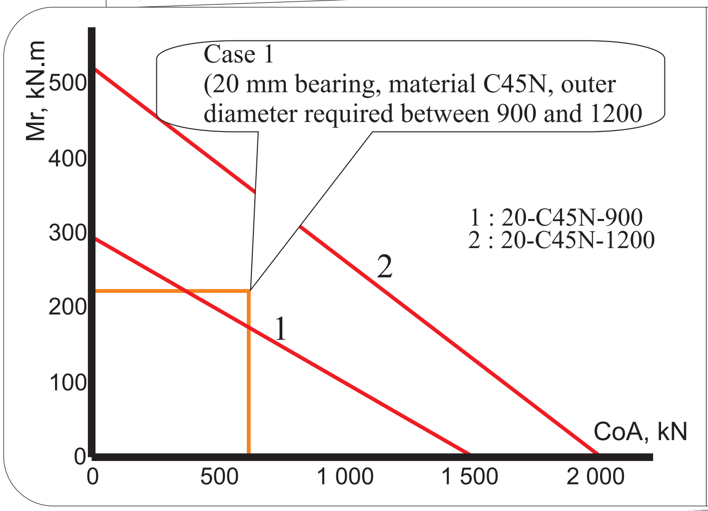
Type of application, axial force, tilting moment, speed of revolution, gear specifications, encumbrance dimension and working conditions.

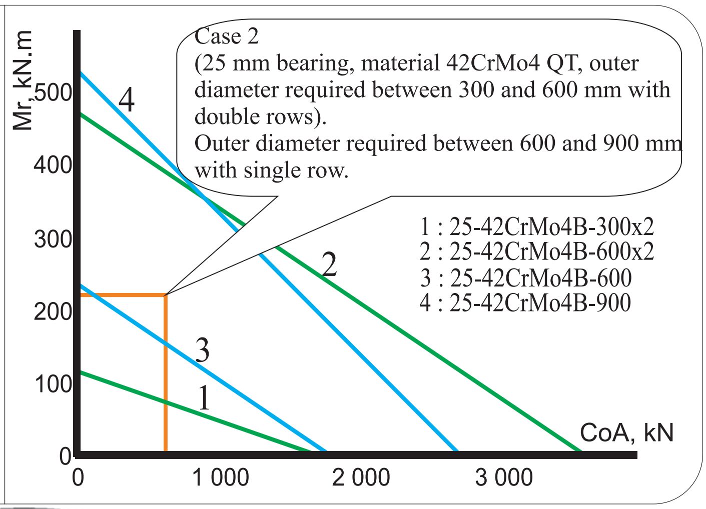
Data analysis

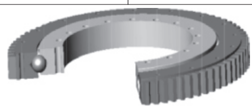
Verification of loads with single or double rows.

Technical data Check

Verification of the construction material when in presence of static and dynamic application

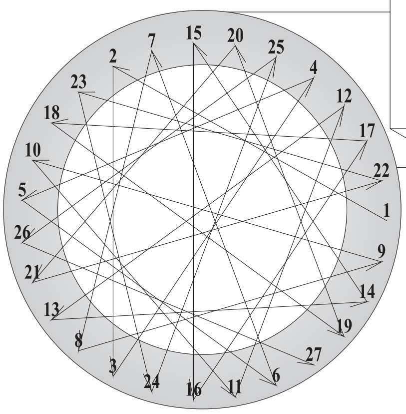


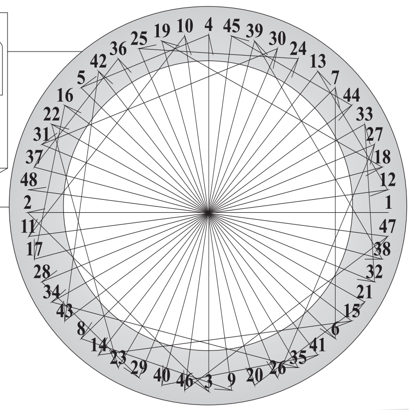




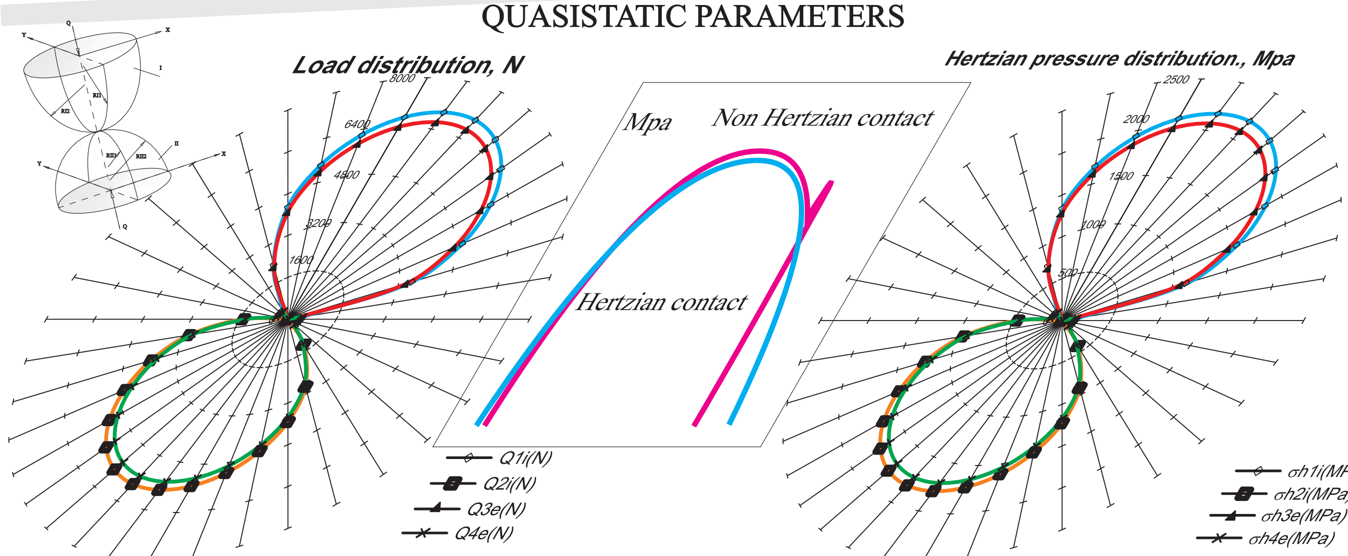
Choice of 4 point contact bearing to use.

Sequence of bolt fastening.





QUASISTATIC PARAMETERS



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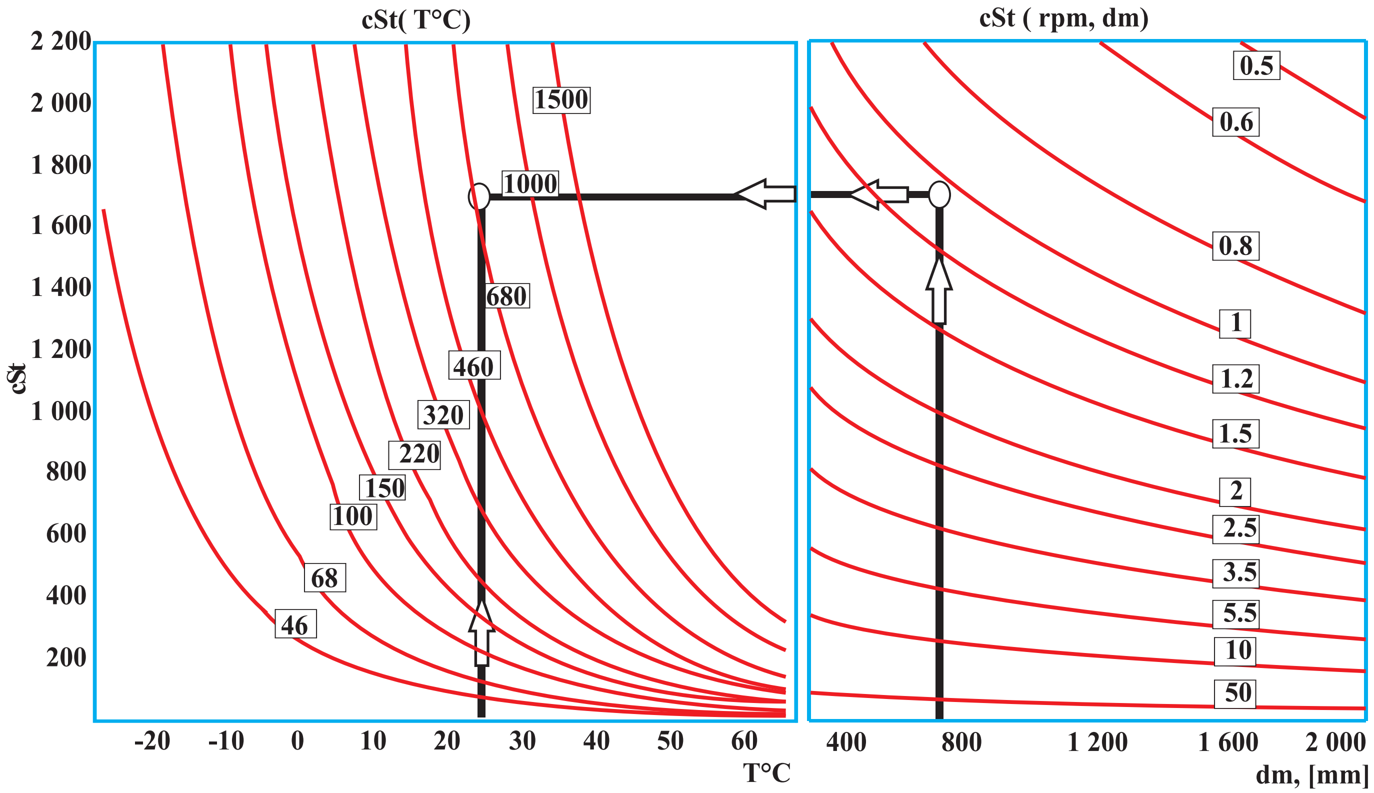
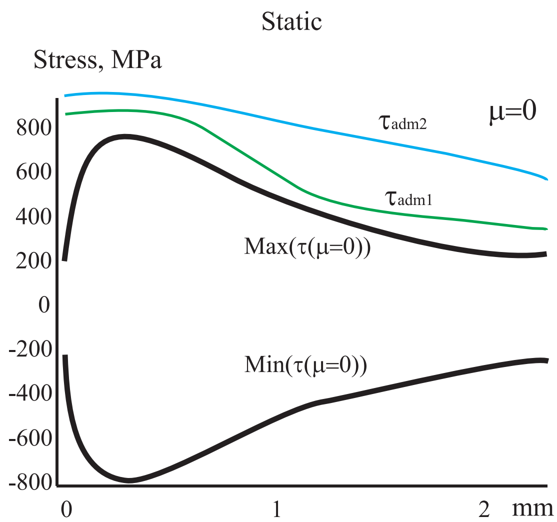
PRELIMINARY CHOICE OF 4 POINT CONTACT BEARING

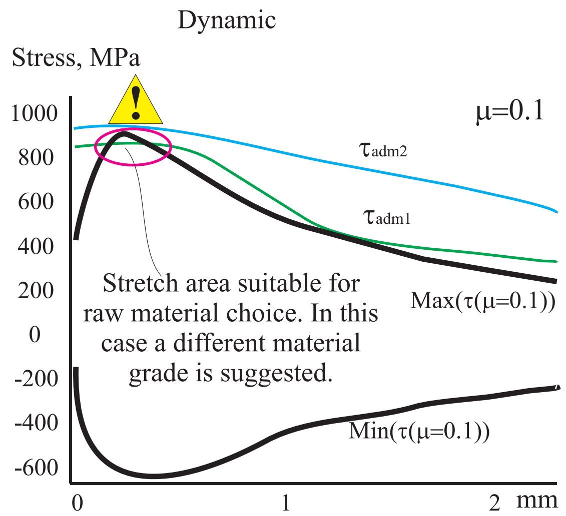
QUASIDYNAMIC PARAMETERS

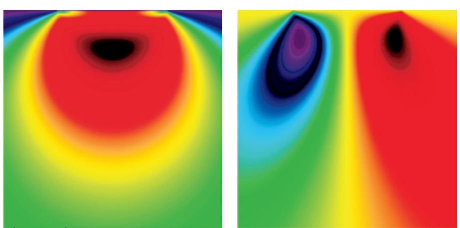
LUBRICANT CHOICE



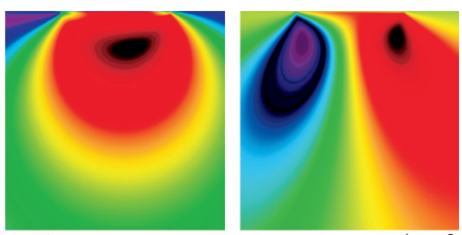
Stress Analysis







σV(μ=0) τ(μ=0)



σV(μ=0.1) τ(μ=0.1)

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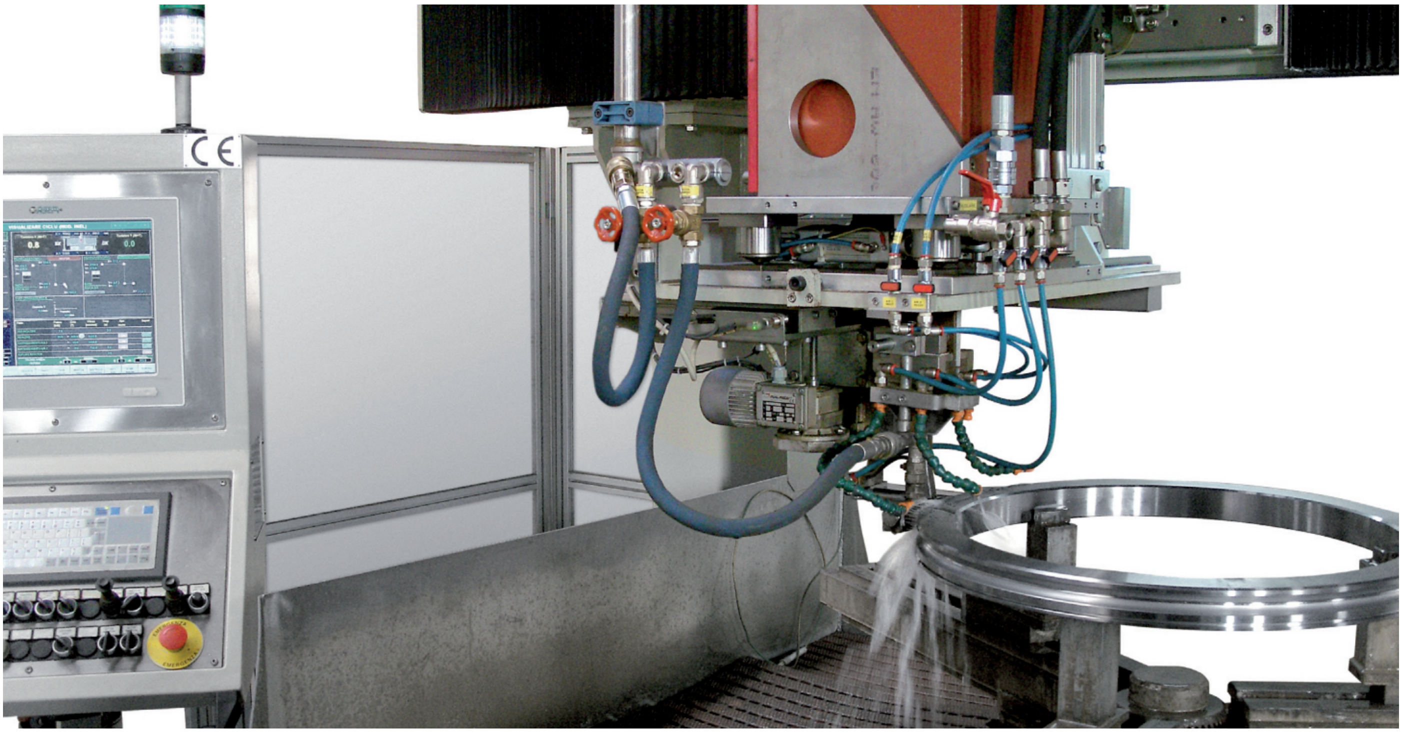
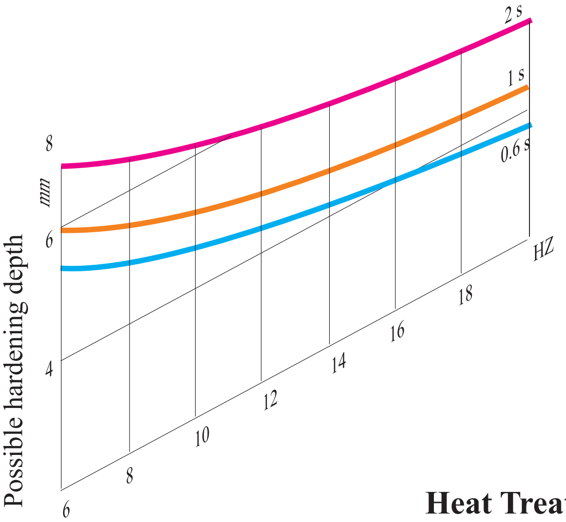
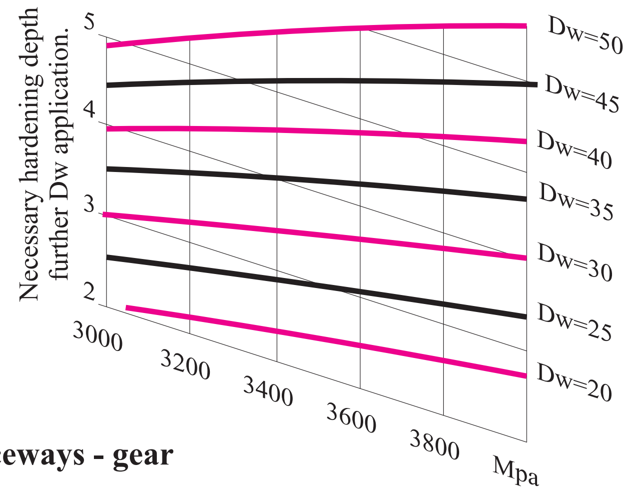
HEAT TREATMENTS

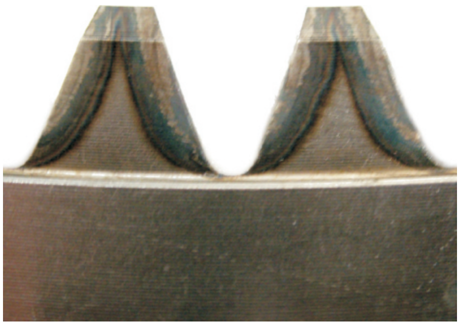




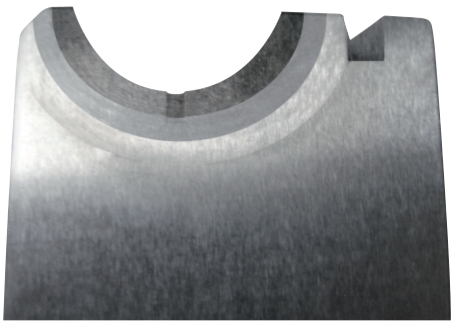


Heat Treatments raceways - gear

The rotating ring of the slewing ring spreads the loads to the raceway; this is calculated and verified based on the Hertz Theory and the modern system of plasticity. The hardening treatment is applied based on our calculation facts and the specifics of slewing ring application. A hardening treatment on the gear is possible when this is necessary or strictly required by the customer.



Teeth side hardening



Raceway hardening

GEAR

Characteristics: cylindrical straight (upon request cylindrical inclined, helical)

Module : 2... 12

Pressure angle : 20, 14.5, 25 degrees

Heat Treatments on the teeth

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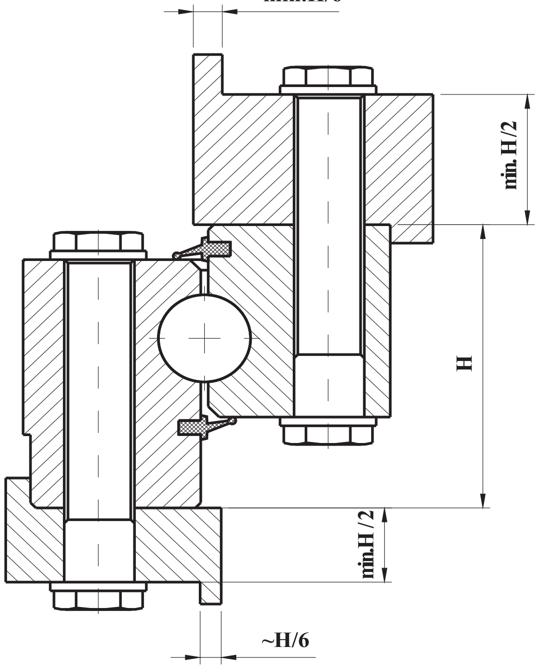
SHIPPING AND HANDLING

4 point contact slewing rings must be shipped and stocked in horizontal position, avoiding shocks and impacts.They should be stored in a dry place and with external parts preserved with protective paint. In closed location the average life time is 3 months. For sea freight a special packaging is required.

FITTING AND MAINTENANCE

FASTENING STRUCTURE

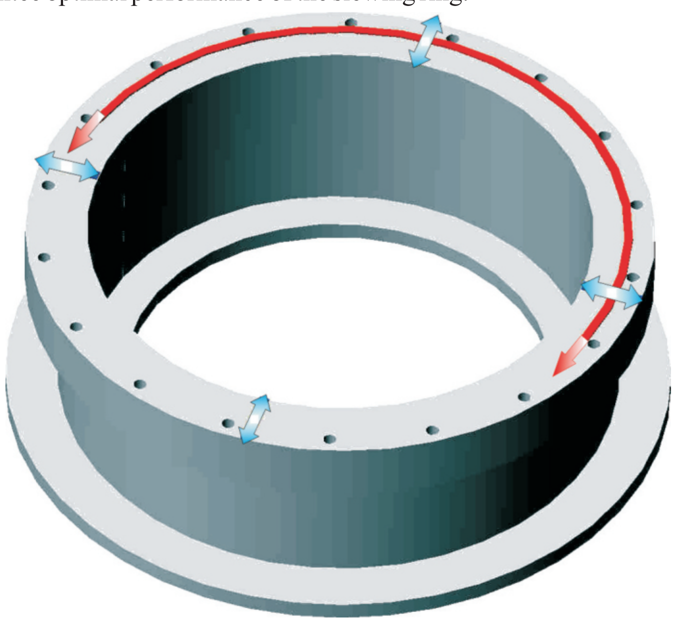
For a uniform load distribution a rigid surface is required, that ensures a minimum contact pressure of 500MPa. The drawing indicates rough values of the thickness of the support structure, **H** indicates the slewing ring height.



FLATNESS OF THE MOUNTING SURFACE

Maximum flatness of the mounting surface is required (Tp) to guarantee optimal performance of the slewing ring.
Here a tolerance chart of planarity is available.
Radial tolerance must not exceed ½ of the Tp value.
When a planarity correction is needed synthetic resins are required.

dm, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
Tp, μm	80	90	100	110	120	130	140	150	160	170	180	190	200



PLEASE NOTE

In case flatness values exceed the ones indicated on the chart please report to our Technical Department.

FASTENING BOLTS

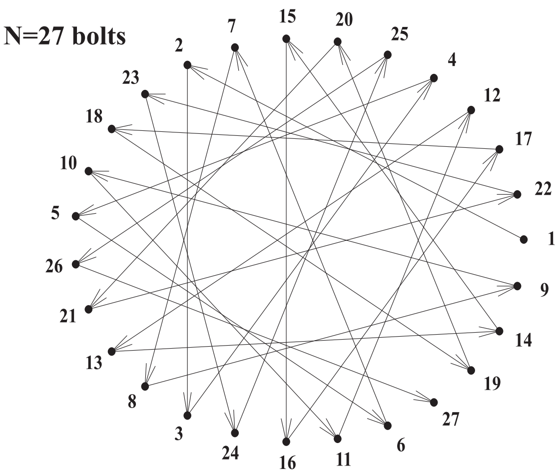
All the geometric elements indicated in the chart as well as the number and class of raw materials indicated by the technical specification of the slewing rings must be respected. Use of threaded screws along its entire length is forbidden. In the event that the superficial contact of the under head/screw and bolt exceed the one of the support a QT washer is required. The fastening strength value Fp and relative moments are indicated within the "strength and moments of bolts fastening" chart, in the introduction.

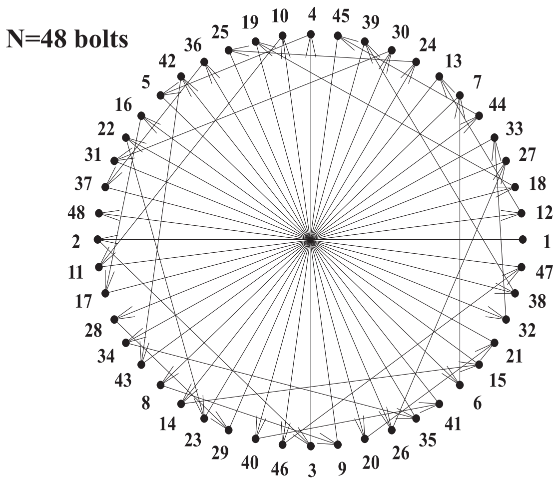
FASTENING SEQUENCE

1. Fixed ring fastening as indicated.:
   Follow the 3 steps path of 30%, 60% and 100% of the relative moment.
   Fastening is effected with diagonal or triangular sequence and is based on the number of bolts (N).
2. Rotating ring:
   Fastening sequence is equal to the fix ring.
   For slewing rings fastening use 8.8, 10.9 and 12.9 bolt class.

Fastening sequence must be respected with the aim to equalize all supported parts.

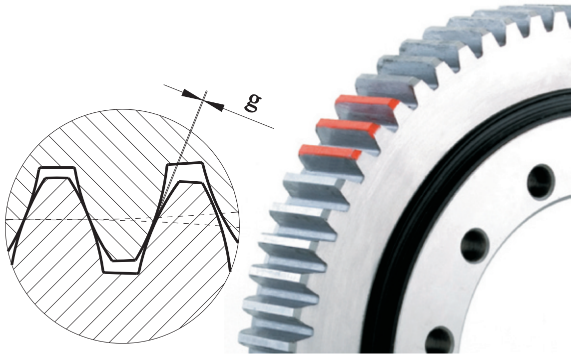
FASTENING SCREW ORDER





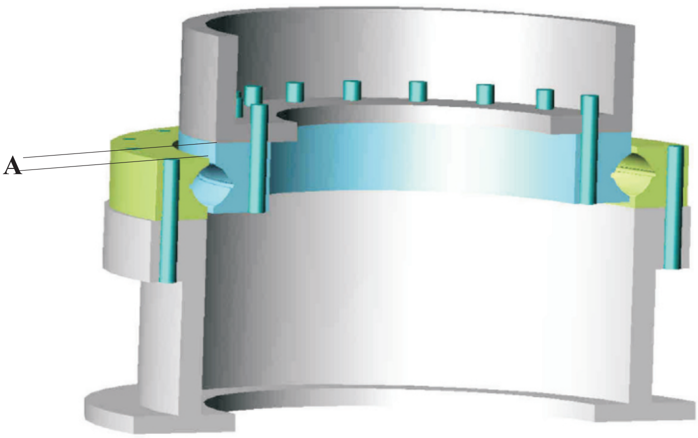
PINION ASSEMBLY

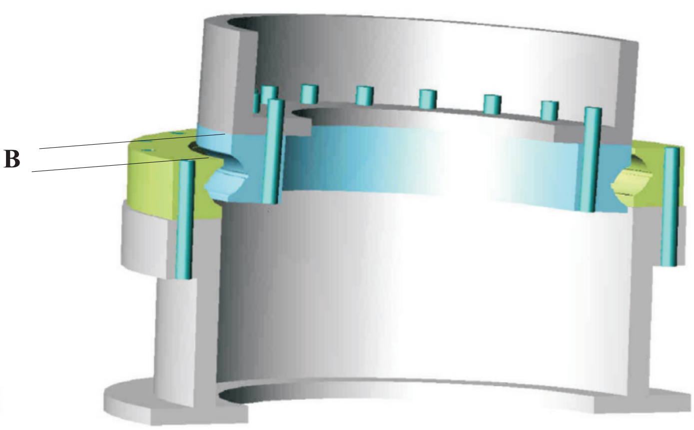
The fixing and the setup of the pinion must be as near to the red area as possible. This will give the correct position to allow the maximum effect of the coupling play (g) between the teeth that must not exceed 0,04 module.



TILTING CLEARANCE CONTROL

During the assembly phase the value of tilting clearance is recorded. Verification needs to be done every six months. In the event of an increase in tilting clearance, wearing out of the slewing ring has started. If the test of **(B-A)** clearance exceeds the values indicated in the load limit chart of 0,4 mm, the slewing ring must be replaced.





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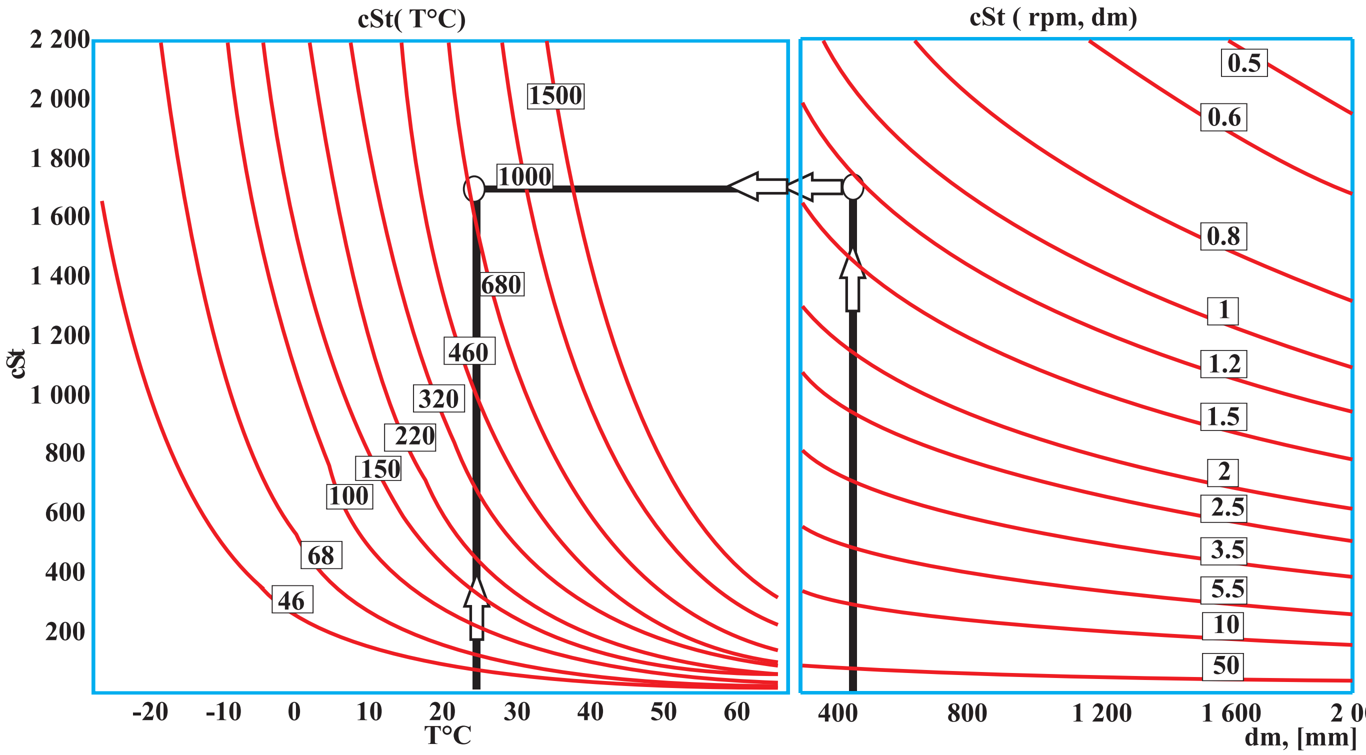
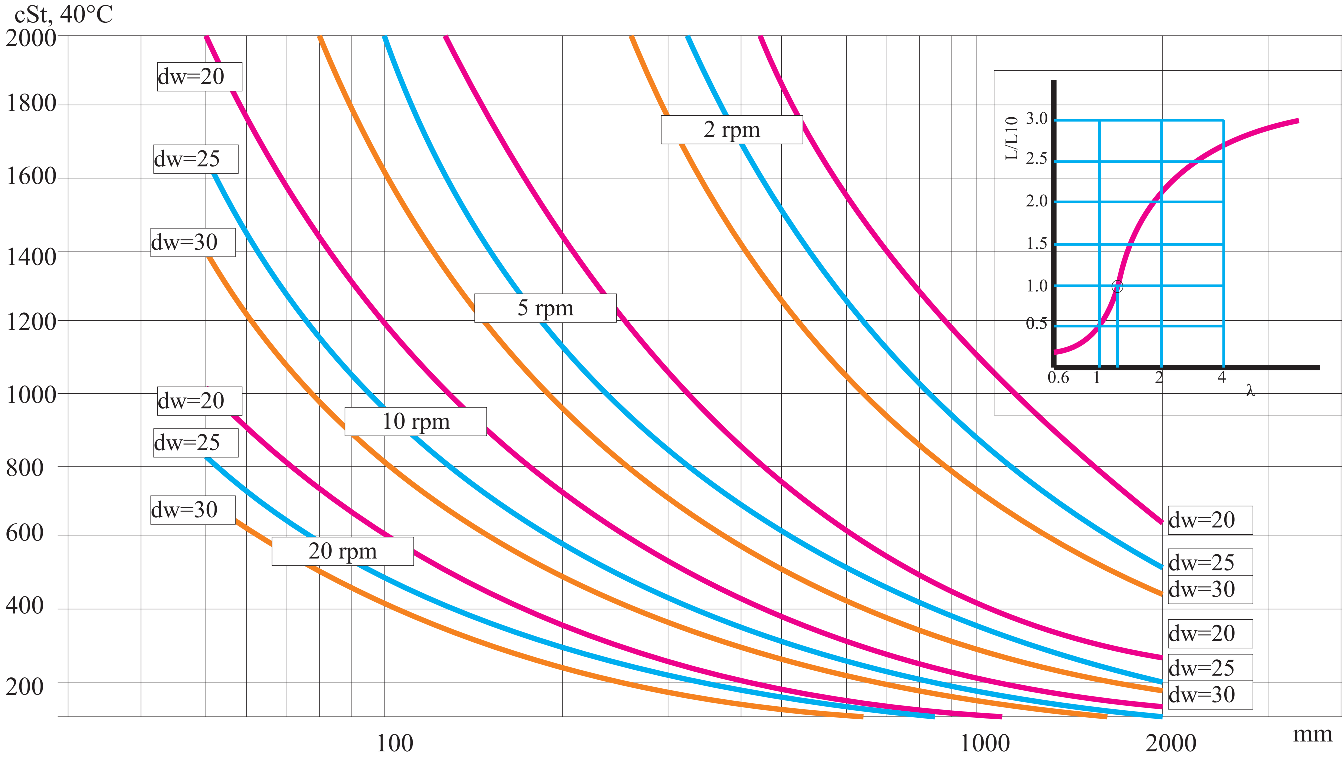
LUBRICANT CHOICE

For an appropriate performance of the slewing ring an optimal use of lubricant is necessary. The choice of oil or grease is determined by the working temperature, the speed revolution and the slewing ring diameter. The chart indicates a 40° working temperature and slewing rings diameter (dm). Speed of revolution determines the viscosity grade ISO VG of the lubricant to use.

CASE: Slewing ring with dm=400 mm, dw=25, working temperature of 25°



LUBRICANT CHOICE



LUBRICANT

Please note: Our slewing rings are supplied with an initial minimum greasing. The greasing must be completed as per the slewing rings application.

ISO VG	SHELL	Castrol	Mobil	Total	FAG
1500		MOLUB-ALLOY 936 SF HEAVY	SHC 1500	MULTIS XHV2	
1000	OMALA 1000	TRIBOL 3020/1000*	SHC 1000 Special		Load 1000
680	OMALA 680; Alvania Grease CG	MOLUB-ALLOY 3036/680-1*	XHP 681 Mine	CERAN GEP	
480	OMALA 460	CASTROL TRIBOL 4020	XHP 461, 462 SHC 460, 460 WT	CERAN HV CERAN HVA	Temp 120
320	OMALA 320		XHP 320, 321, 322 Mine	MULTIS COMPLEX HV 2	Load 400
220	OMALA 220		XHP 005	MULTIS COMPLEX SHD 220	Load 220
150	OMALA 150	CASTROL LONGTIME Pd2	XHP 100 Mine Mobilux EP 0, 1, 2, 3	CERAN WR 1 ; CERAN MM; CERAN FG	VIB 3 TEMP 110

RELUBRICATION

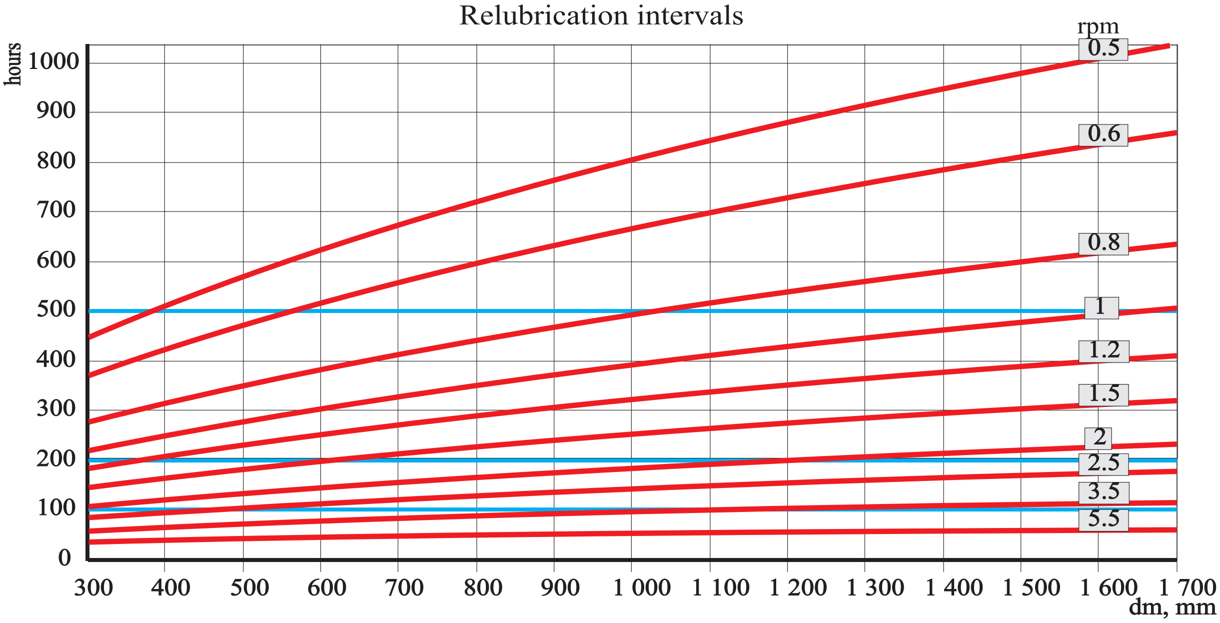
This can depend on several factors:

= Slewing rings diameter
= Speed of revolution
= Lubrication type
= Working temperature
= Working environment.

RELUBRICATION INTERVALS

The intervals depend on the endurance under working pressure of the lubricant used. Possible temperature variation may prejudice the grease/oil characteristic. The lubricant quality maintenance depends on the working condition as well as the cvasi-static e cvasi-dinamic parameter of the tribology contacts. The chart reports an example of relubrication, with a contact pressure of 2700 MPa and with different peripheral speed values of the motion rings. Whether the relubricant interval exceeds six (6) months a complete replacement of the lubricant is strictly required. For specific enquiries please contact our technical department at **export@sirca.com.ro**

Relubrication intervals



SEALS

A periodical verification of the integrity of the seals is recommended and we suggest to keep the adjacent area free from impurities.

FIXING BOLTS CHECK

Fixing bolts must be checked regularly after the first 100 hours and each 500 hours or six (6) months.
Fastening must be done using a dynamometric wrench. Bolts must be in good condition and without cracks.

PLEASE NOTE

A fixing bolt in poor condition may cause injuries that cannot be imputed to the slewing rings manufacturer.

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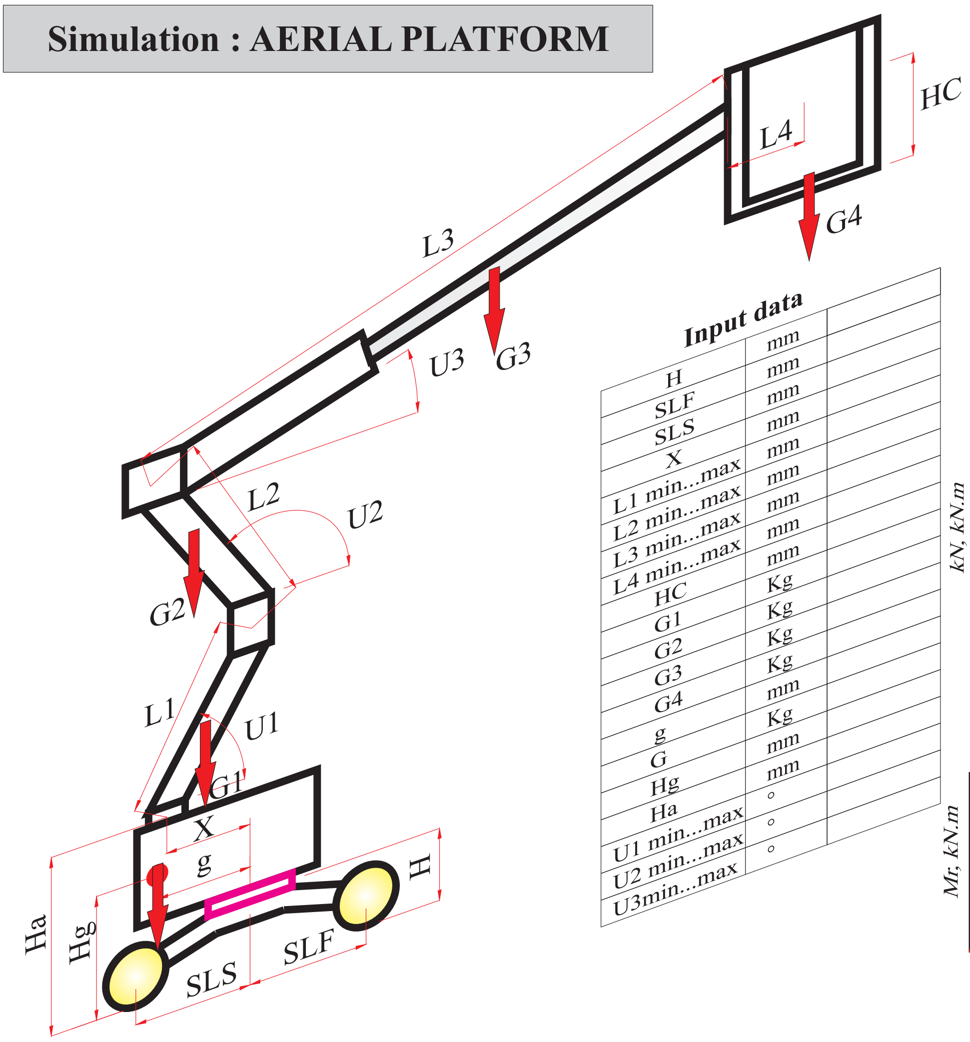
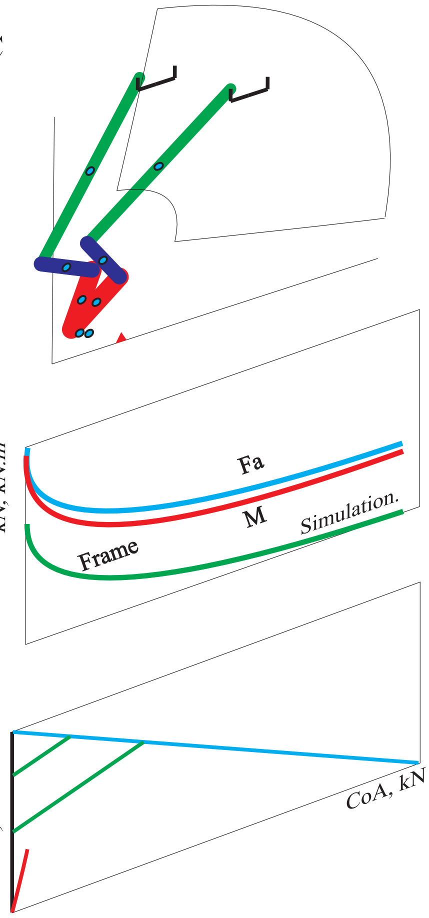
Simulation : AERIAL PLATFORM

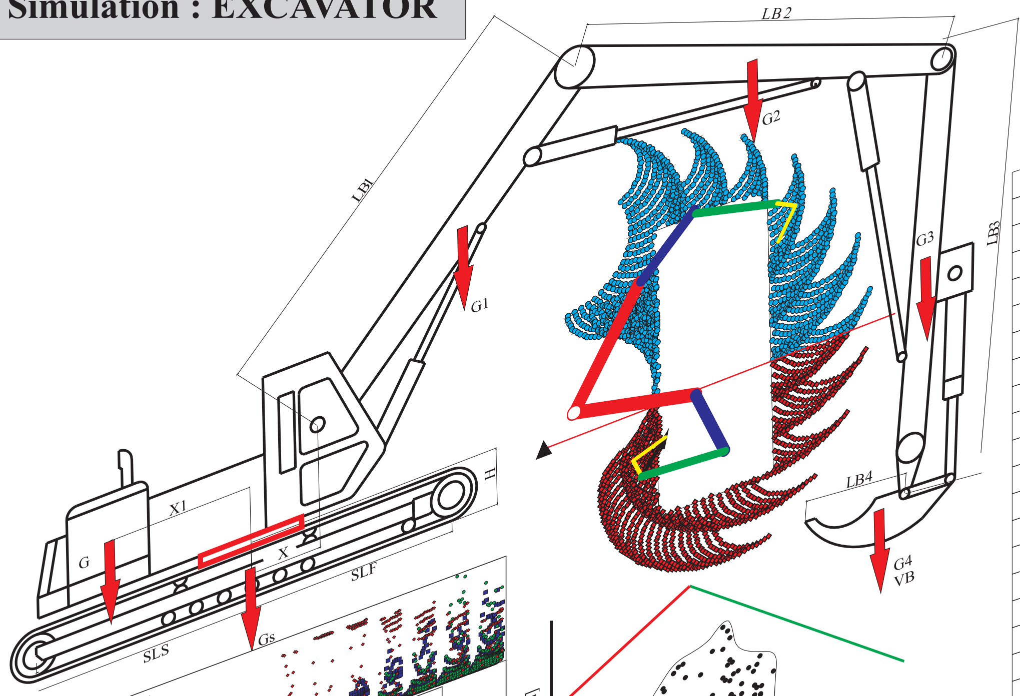


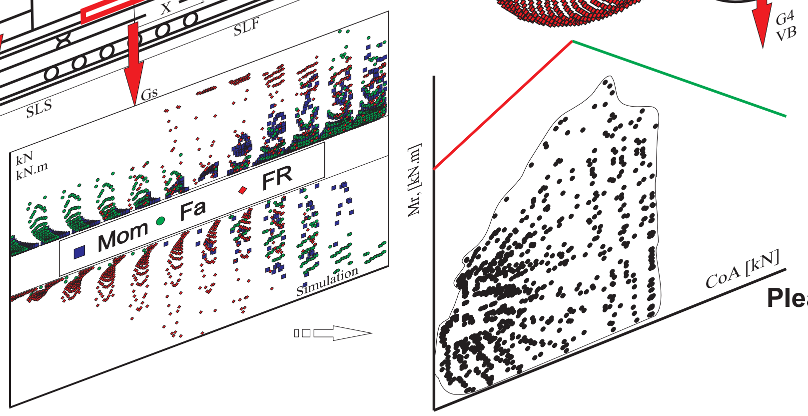
Input data

H	mm	
SLF	mm	
SLS	mm	
X	mm	
L1 min...max	mm	
L2 min...max	mm	
L3 min...max	mm	
L4 min...max	mm	
HC	mm	
G1	Kg	
G2	Kg	
G3	Kg	
G4	Kg	
g	mm	
G	Kg	
Hg	mm	
Ha	mm	
U1 min...max	°	
U2 min...max	°	
U3min...max	°	



Simulation : EXCAVATOR





Input data

H	mm	
SLF	mm	
SLS	mm	
X	mm	
Lb1	mm	
Lb2	mm	
Lb3	mm	
Lb4	mm	
VB	m^3	
Gs	Kg	
G1	Kg	
G2	Kg	
G3	Kg	
G4	Kg	
PH	barr	
diam frame	mm	
X1	mm	
G	Kg	
Hg	mm	
U1 min...max	°	
U2 min...max	°	
U3min...max	°	
U4min...max	°	

Please note :

We developed a calculation for the slewing rings based on the machine stability

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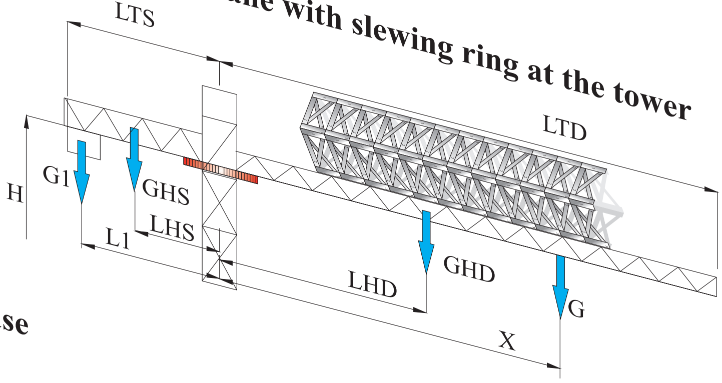
Simulation : CRANE

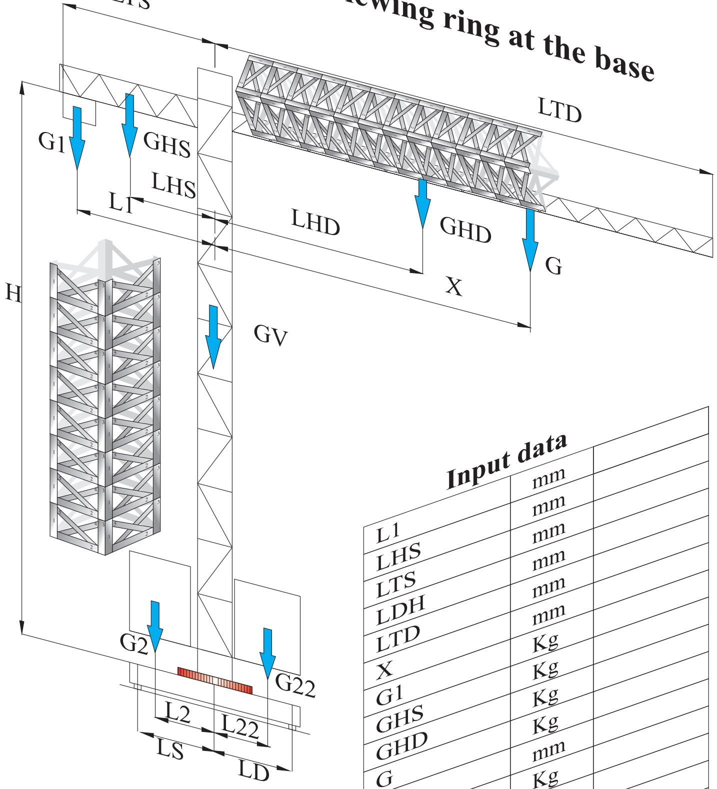
Crane with slewing ring at the tower



Input data

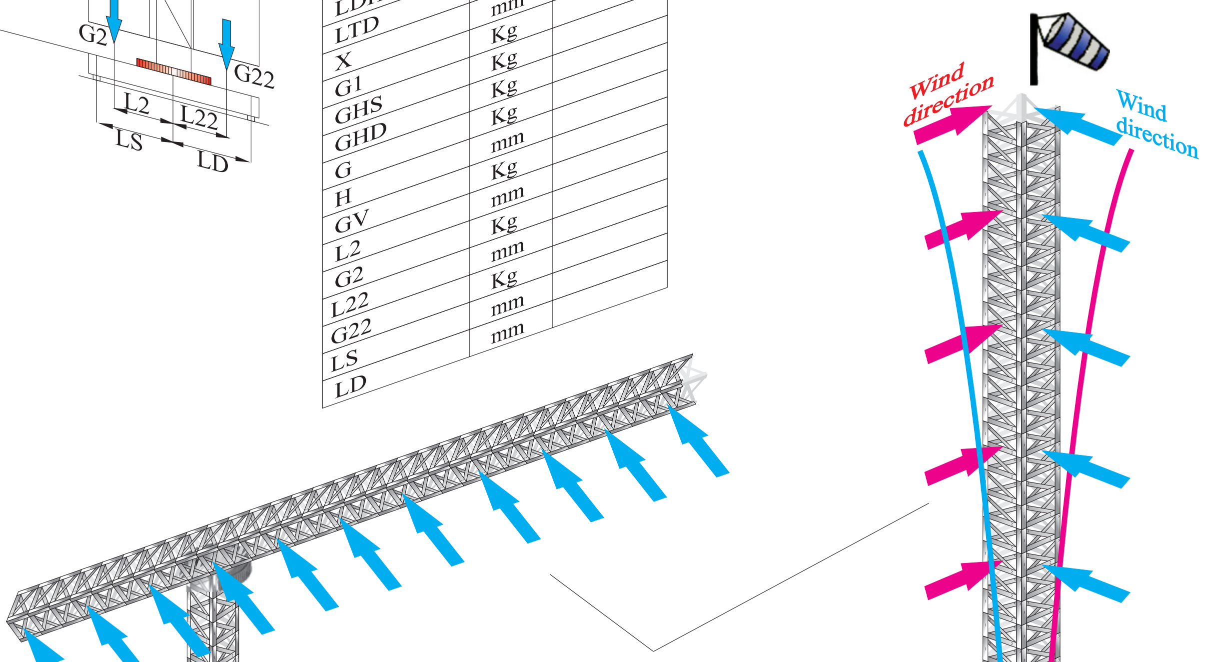
L1	mm	
LHS	mm	
LTS	mm	
LDH	mm	
LTD	mm	
X	mm	
G1	Kg	
GHS	Kg	
GHD	Kg	
G	Kg	
H	mm	

Crane with slewing ring at the base



Input data

L1	mm	
LHS	mm	
LTS	mm	
LDH	mm	
LTD	mm	
X	mm	
G1	Kg	
GHS	Kg	
GHD	Kg	
G	Kg	
H	mm	
GV	Kg	
L2	mm	
G2	Kg	
L22	mm	
G22	Kg	
LS	mm	
LD	mm	



Forces on slewing ring

Wind action effecting both slewing rings and gear

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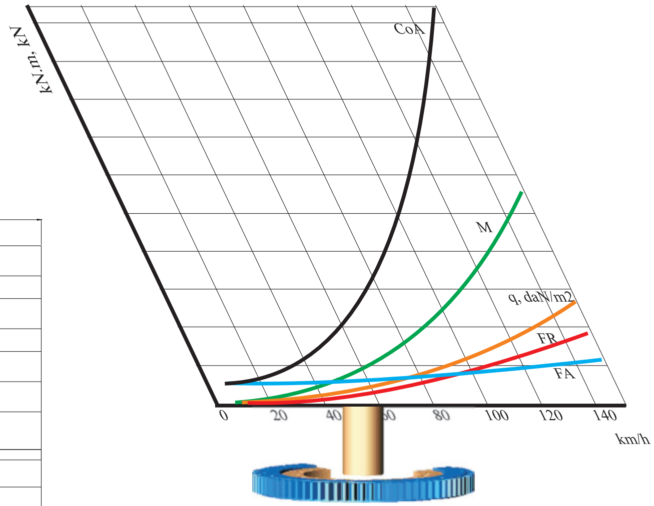
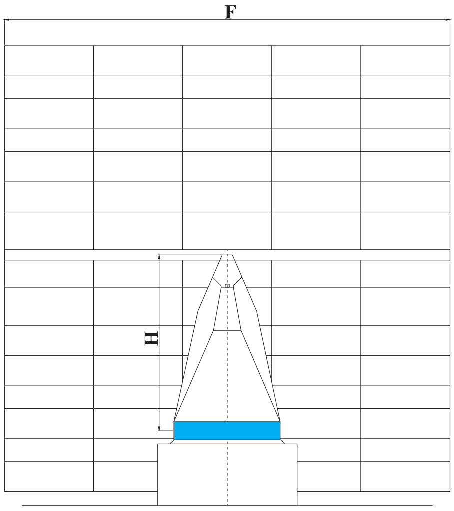
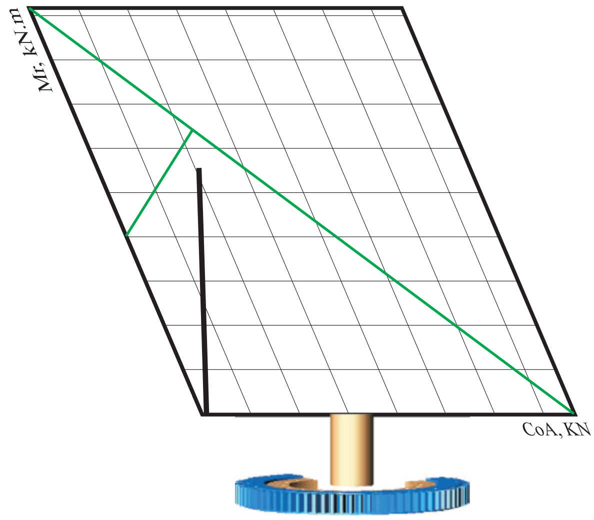
Simulation: SOLAR TRACKER

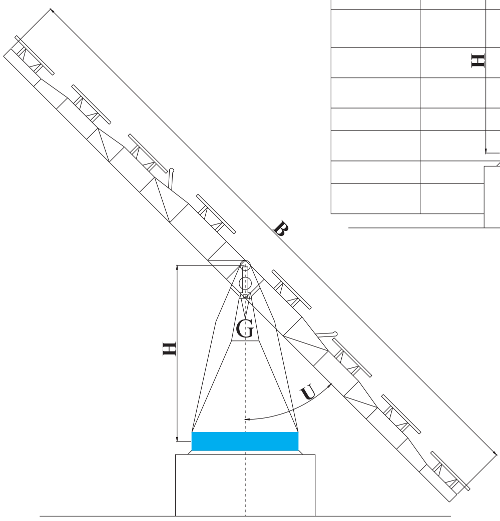
Input data

F	mm	
B	mm	
H	mm	
U	°	
G	Kg	
V	Km/h	





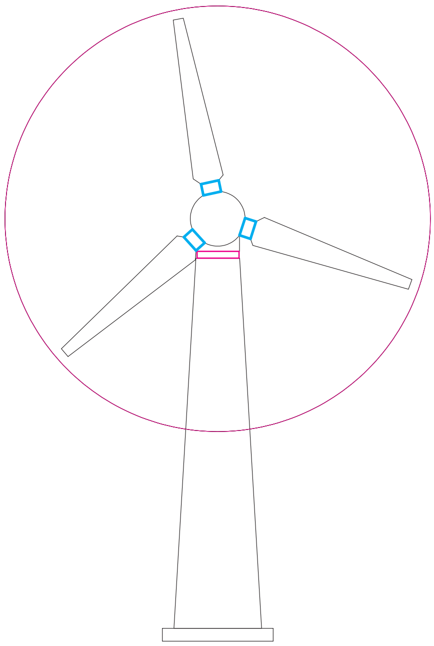


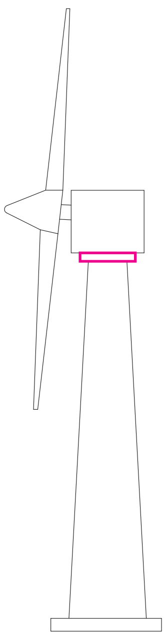


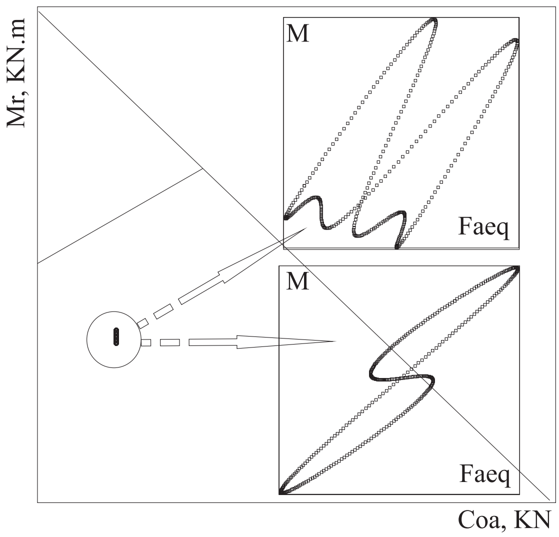
Simulation: WIND TURBINE

Input data

Blade diameter	m	
Blade rotor diameter	m	
Revolution speed	rpm	
Blade weight	Kg	
Blade width	m	
Wind speed	Km/h	
Altitude	m	
Blade rotation angle	°	







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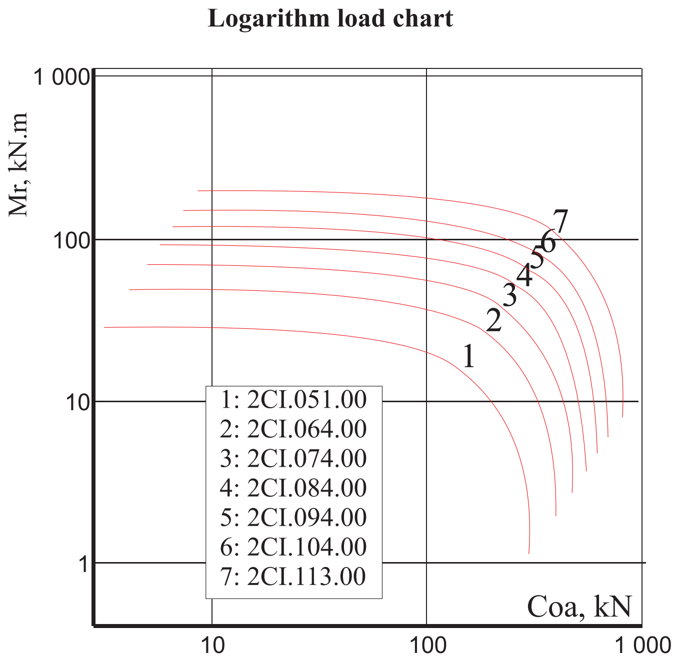
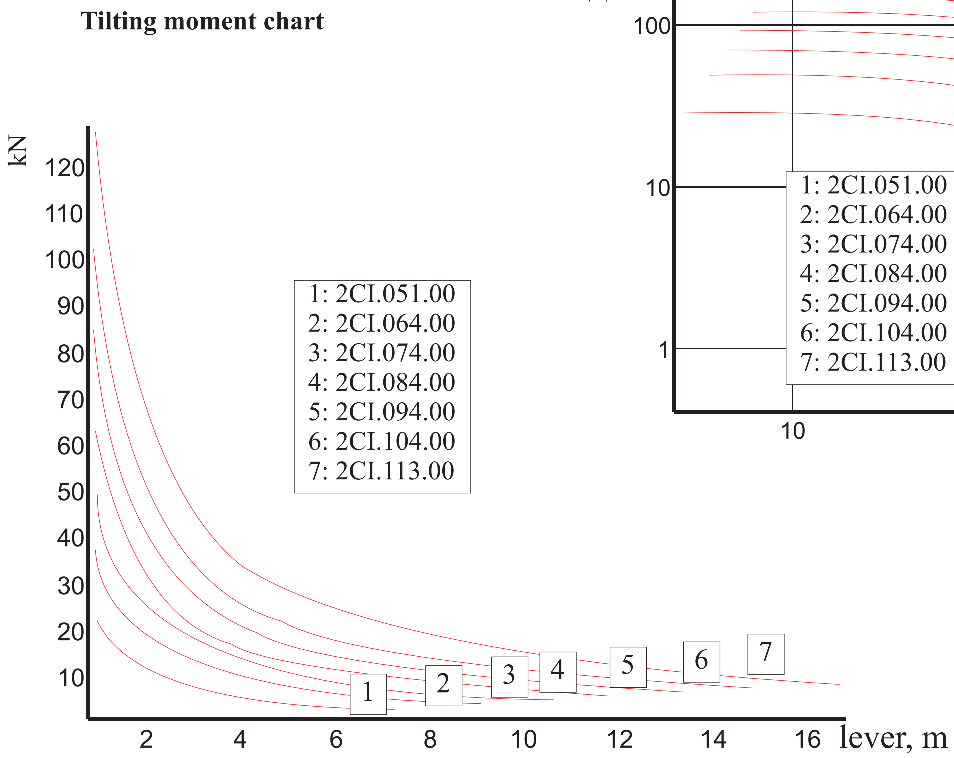
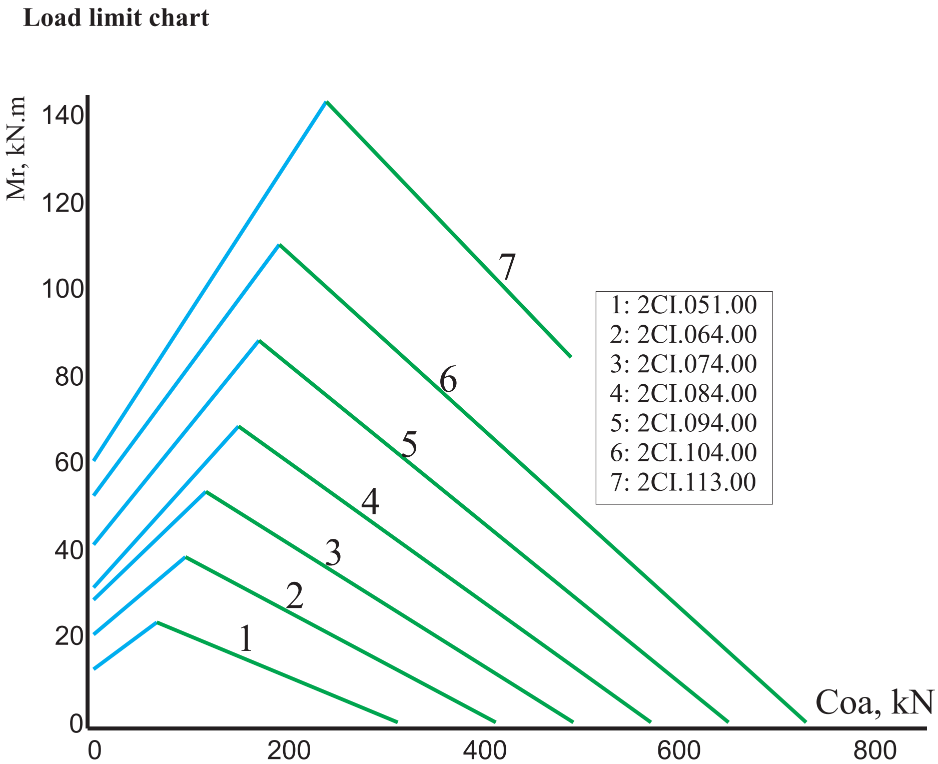
CASE EXAMPLE CHART







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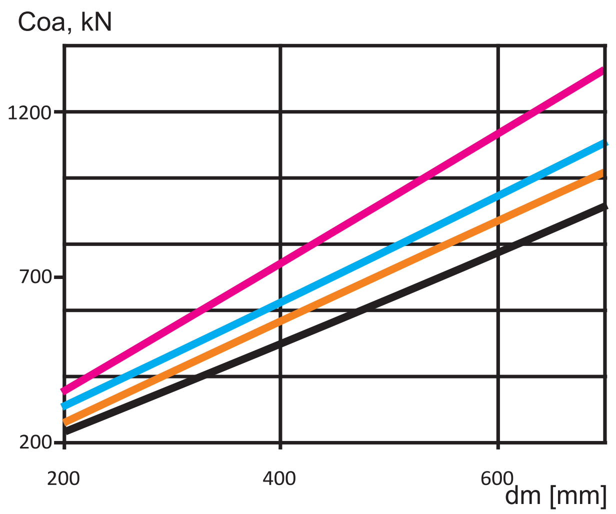
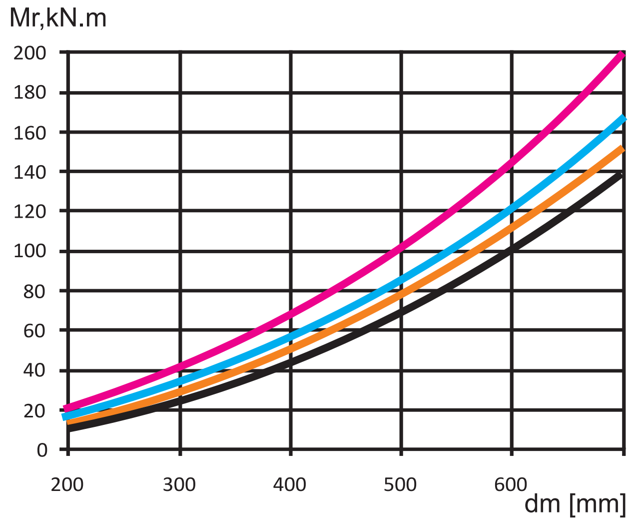
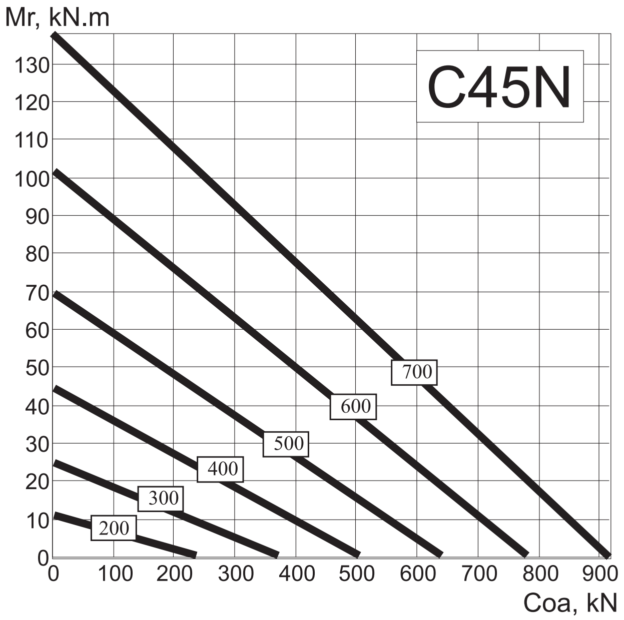
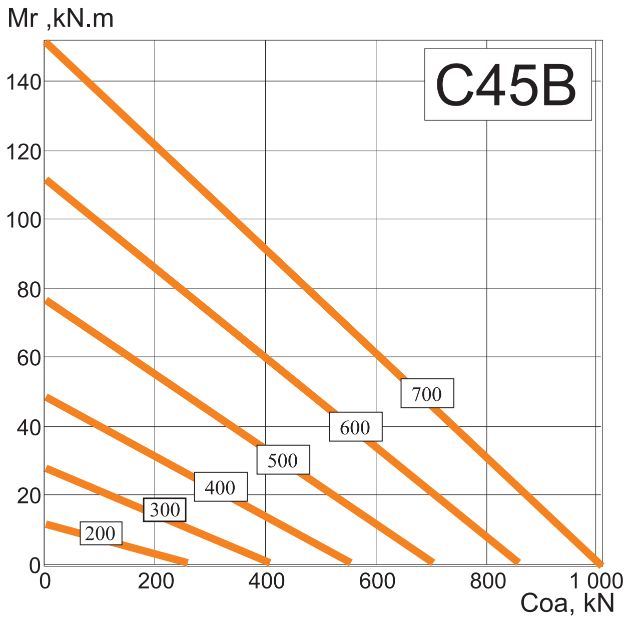
Load chart considering average diameter of slewing ring and bearing with Dw = 15.8 mm

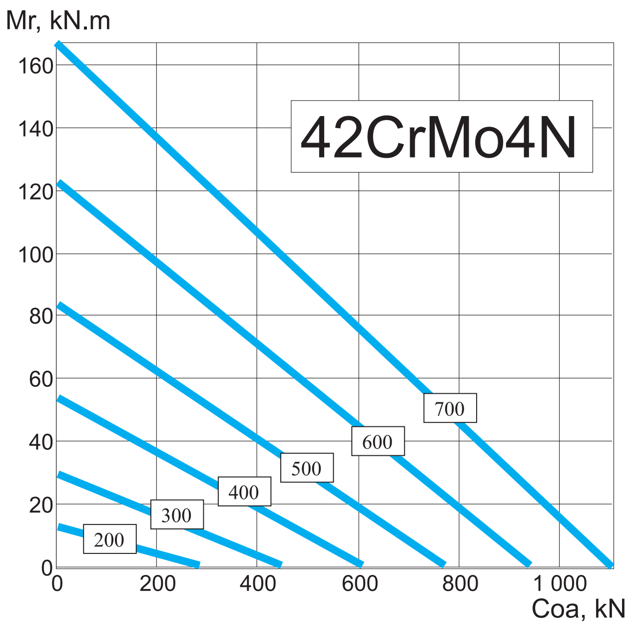


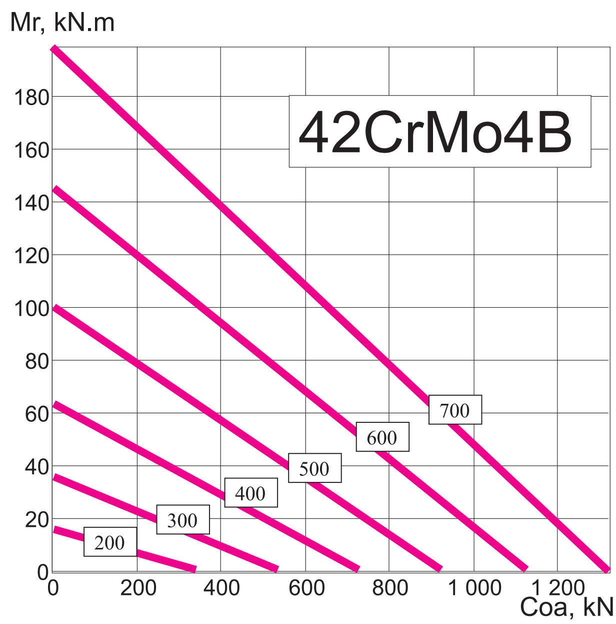


Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 15.8 mm









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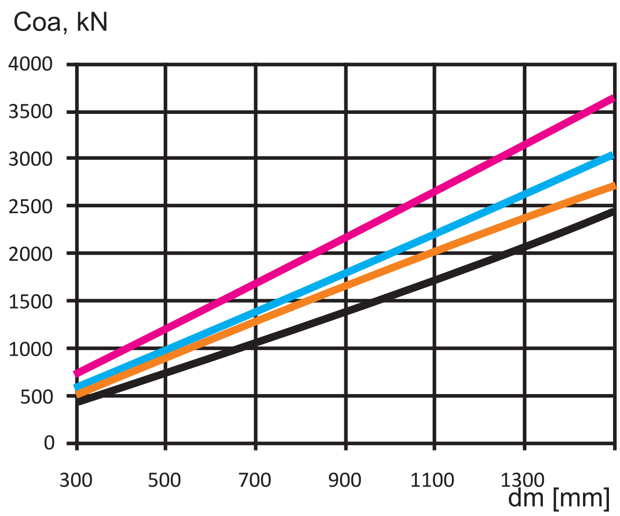
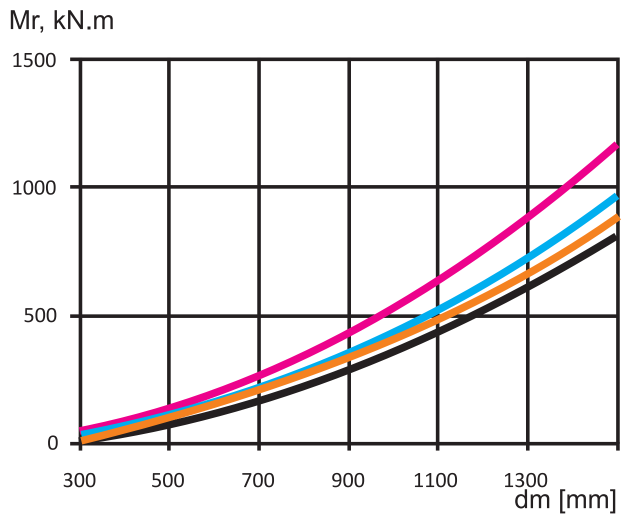
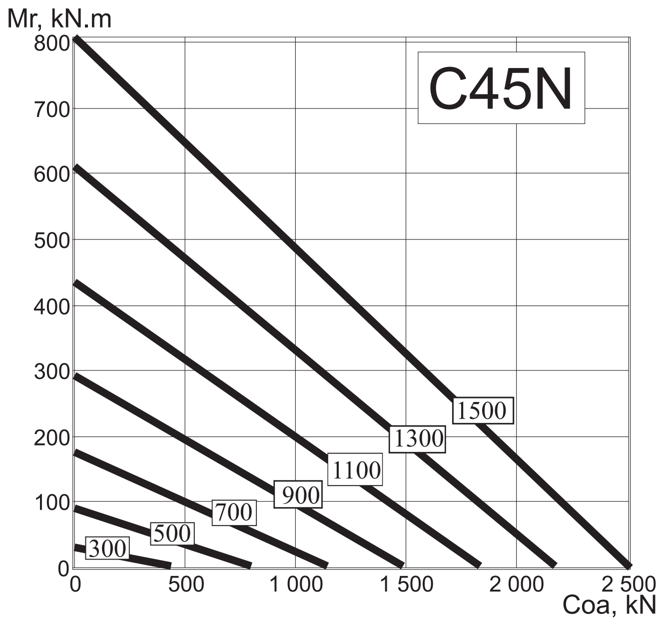
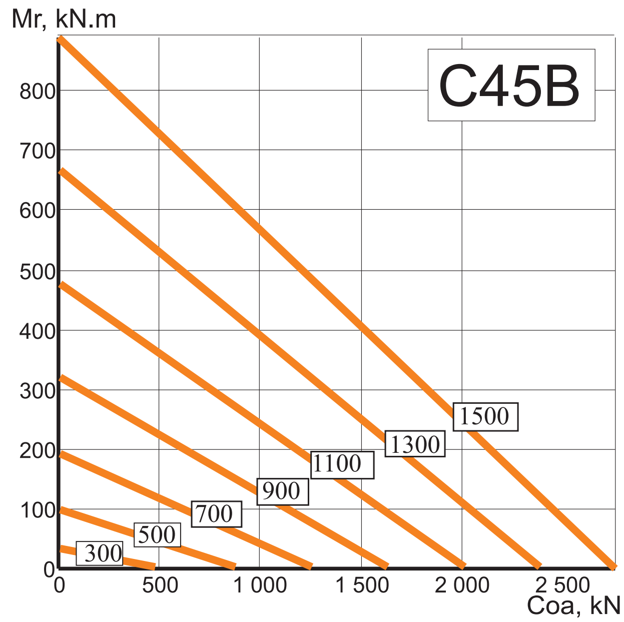
Load chart considering average diameter of slewing ring and bearing with Dw = 20 mm

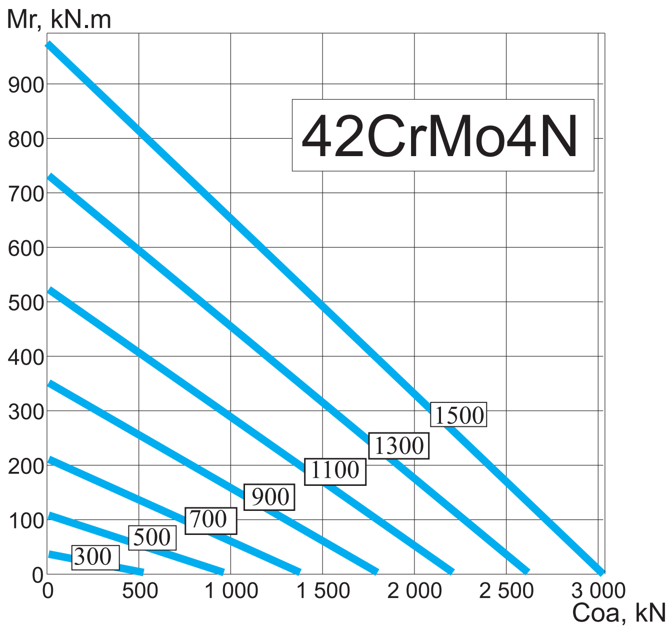


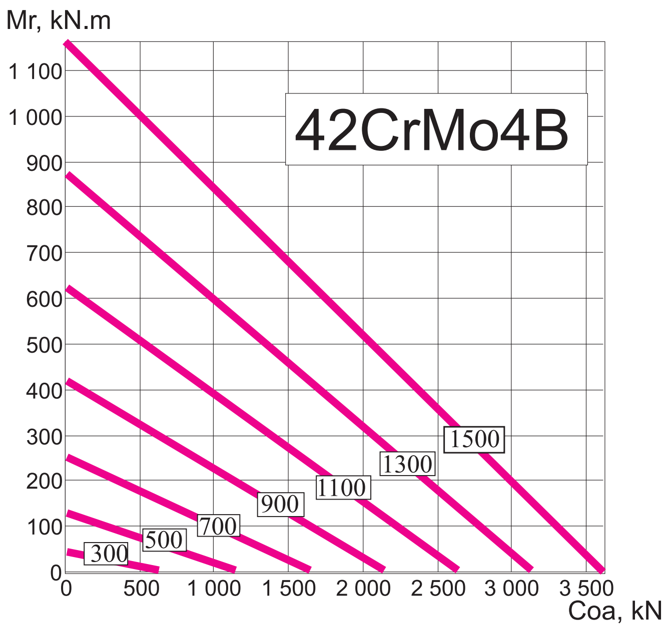


Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 20 mm









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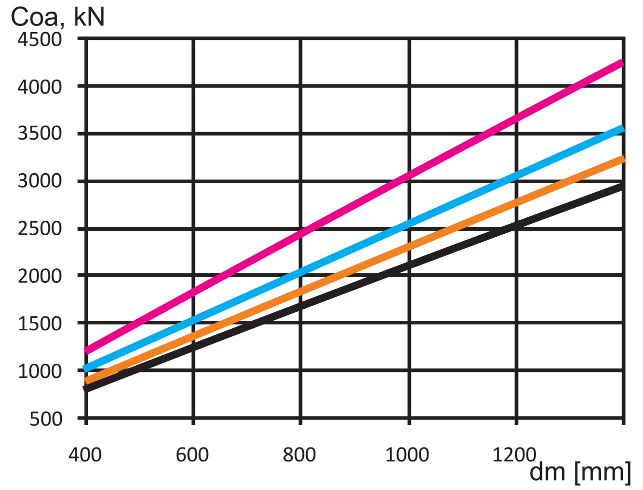
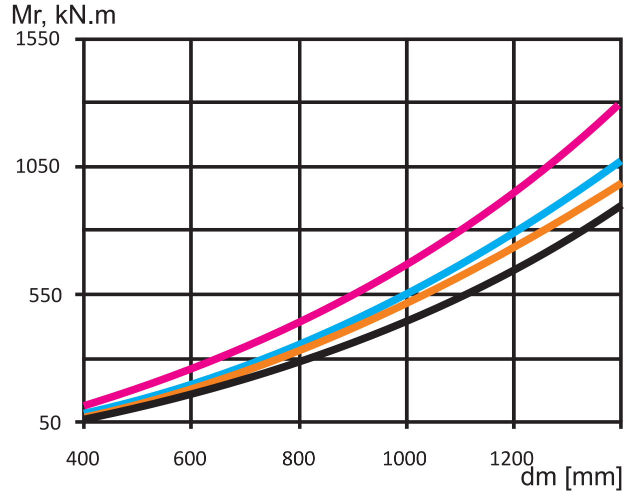
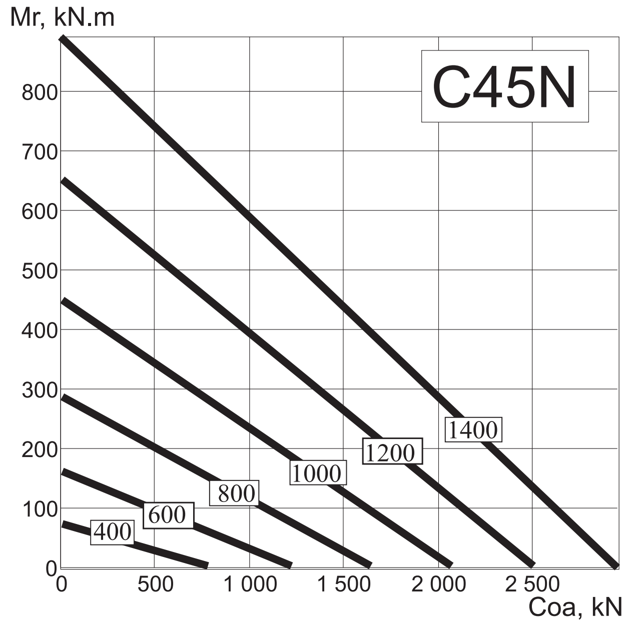
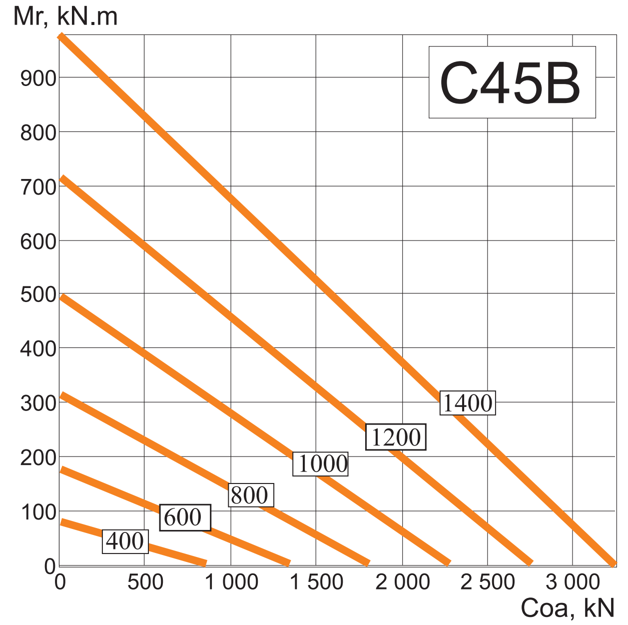
Load chart considering average diameter of slewing ring and bearing with Dw = 25 mm

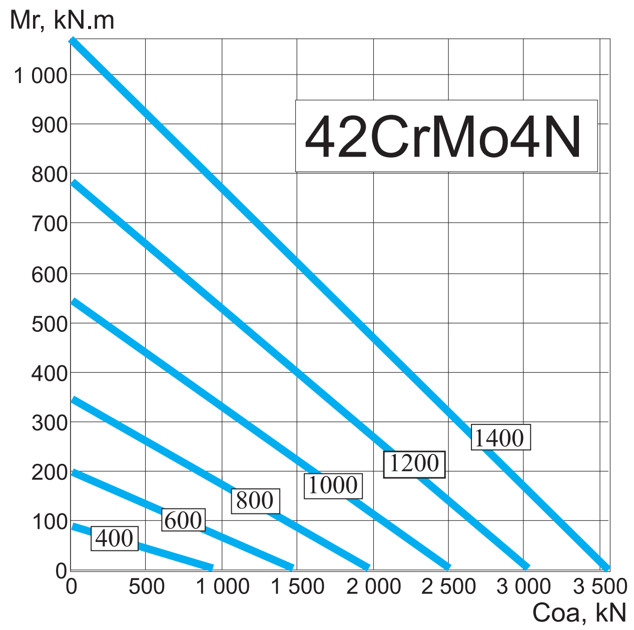


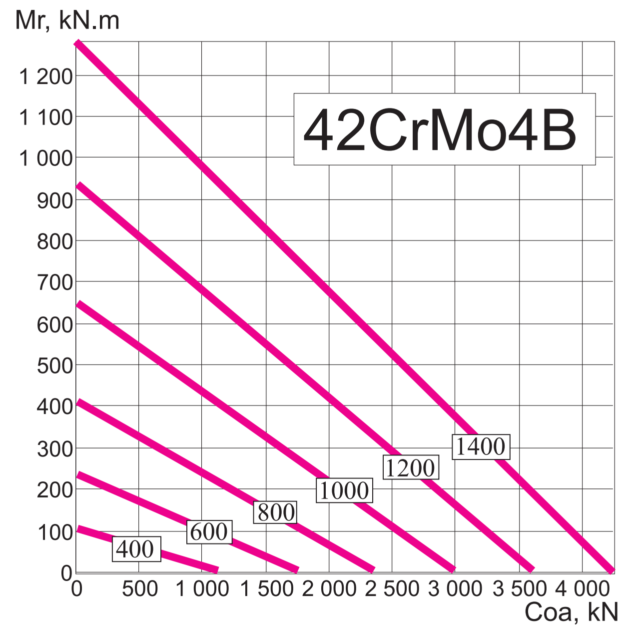


Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 25 mm









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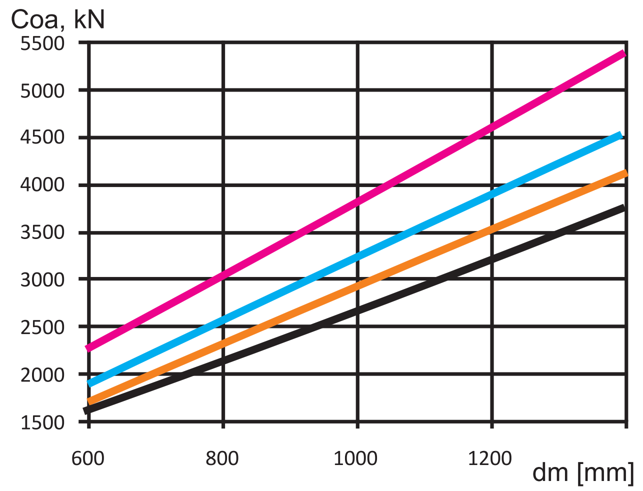
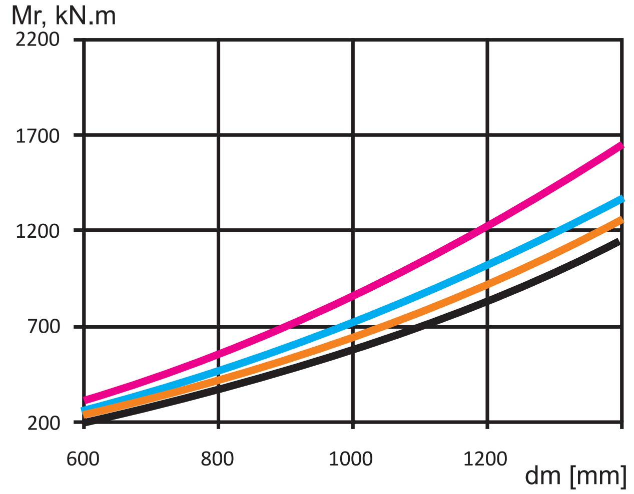
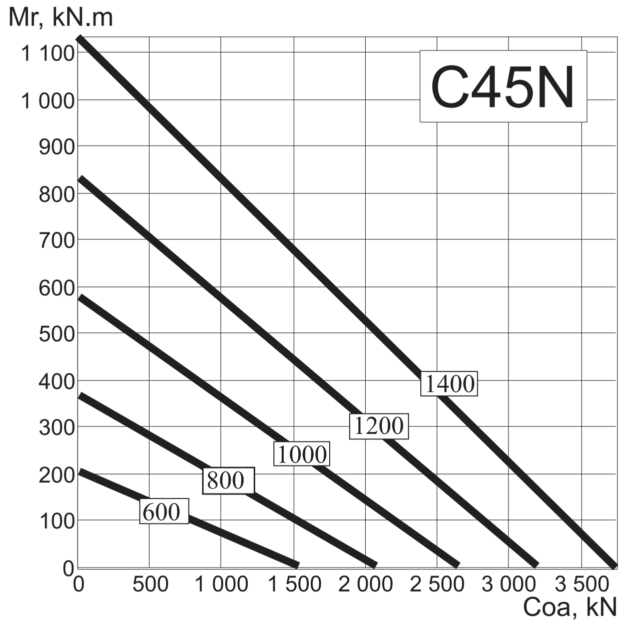
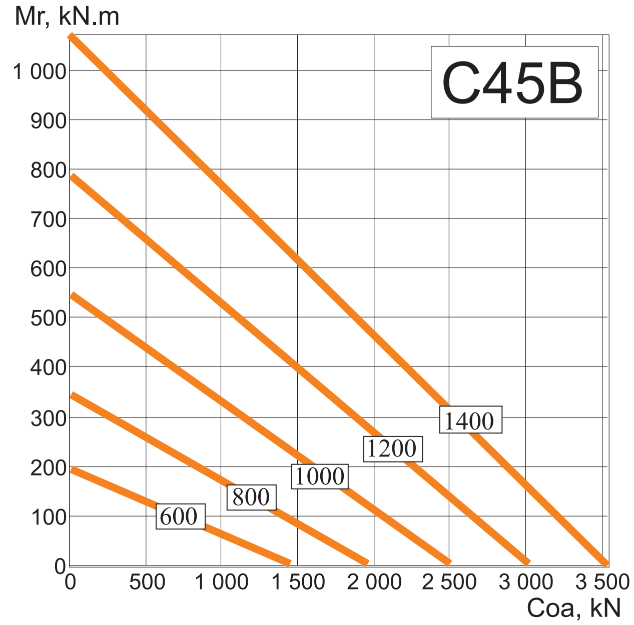
Load chart considering average diameter of slewing ring and bearing with Dw = 31.75 mm

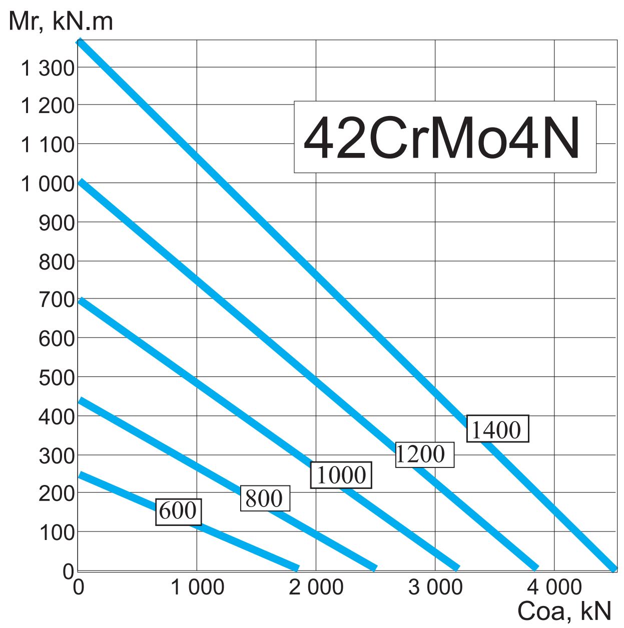


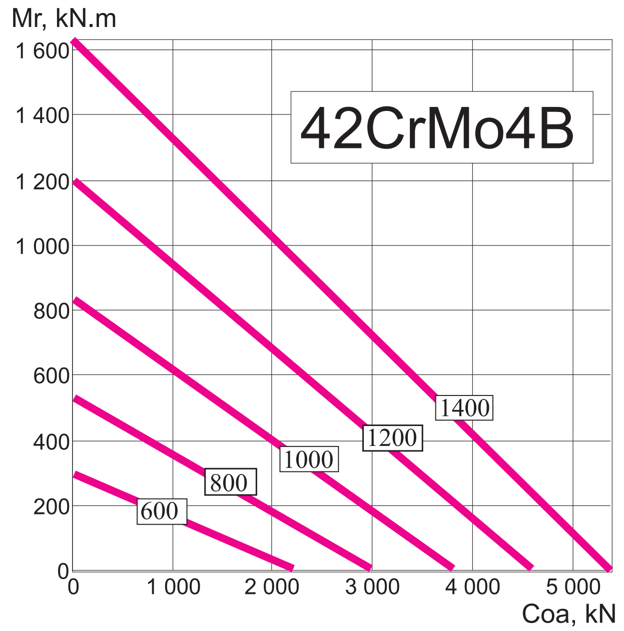


Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 31.75 mm









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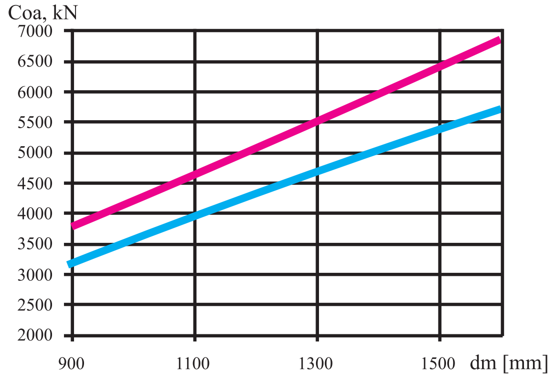
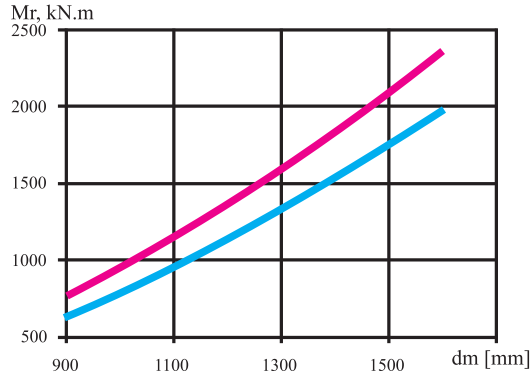
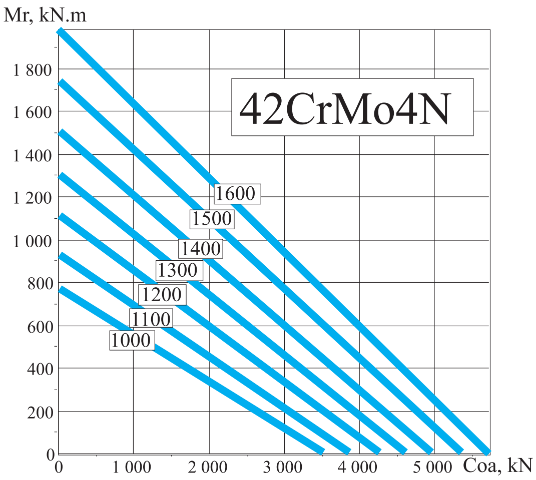
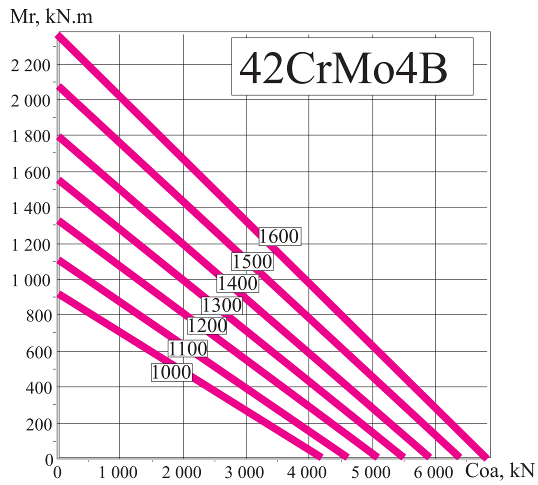
Load chart considering average diameter of slewing ring and bearing with Dw = 35 mm



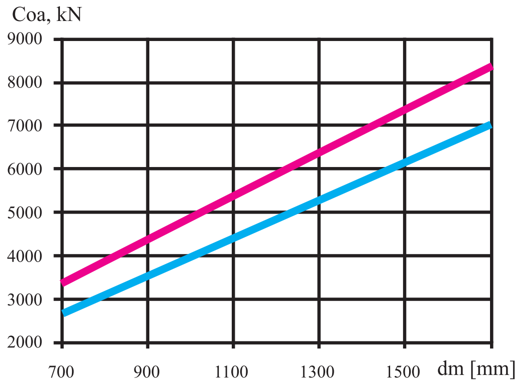


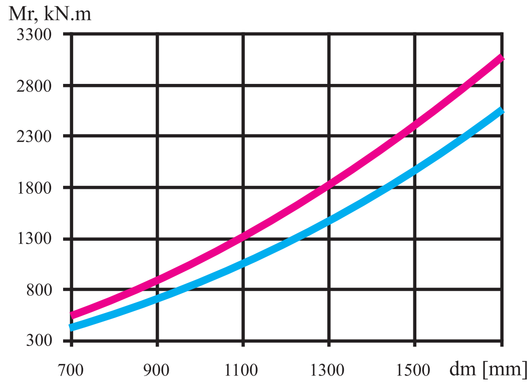
Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 35 mm



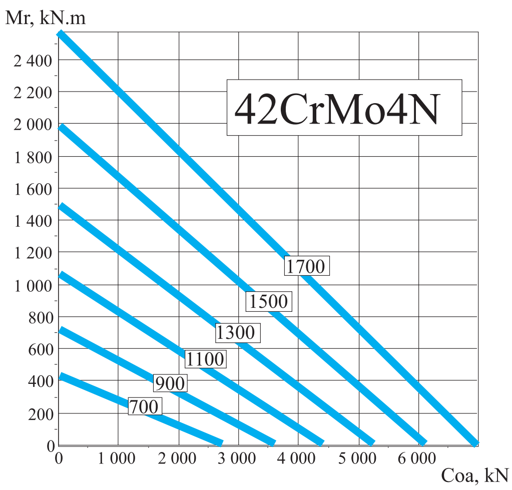


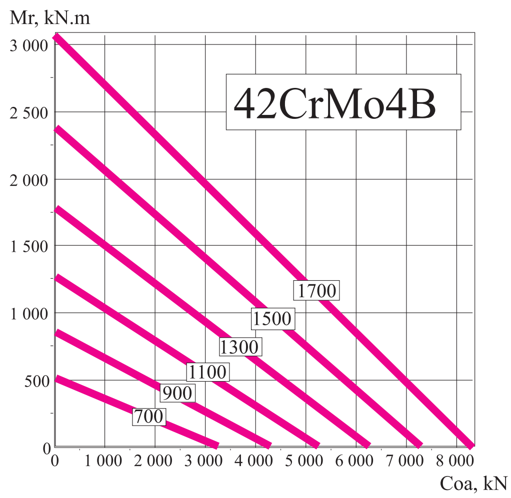
Load chart considering average diameter of slewing ring and bearing with Dw = 40 mm





Slewing ring chart example (Coa, Mr) based on raw material type with Dw = 40 mm





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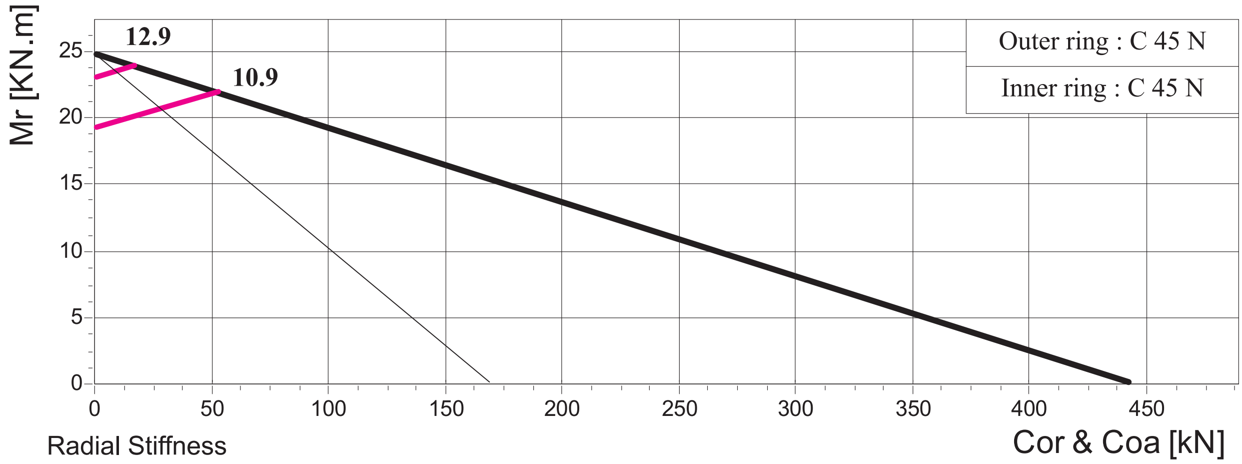
Technical Information

Date :......

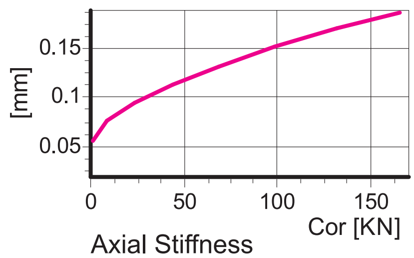
Bearing type: Working Conditions

2CS.033.00

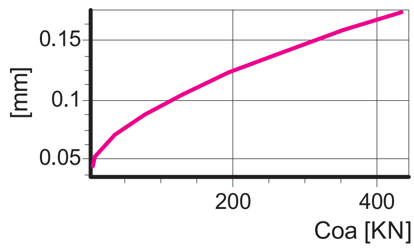
Limit load chart



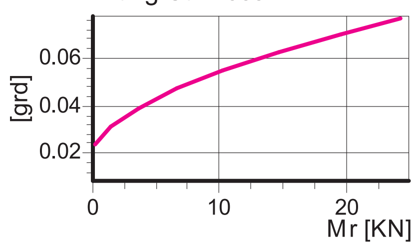
Radial Stiffness



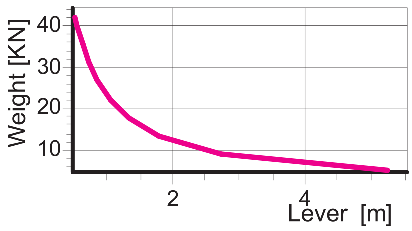
Axial Stiffness



Tilting Stiffness



Tilting moment chart

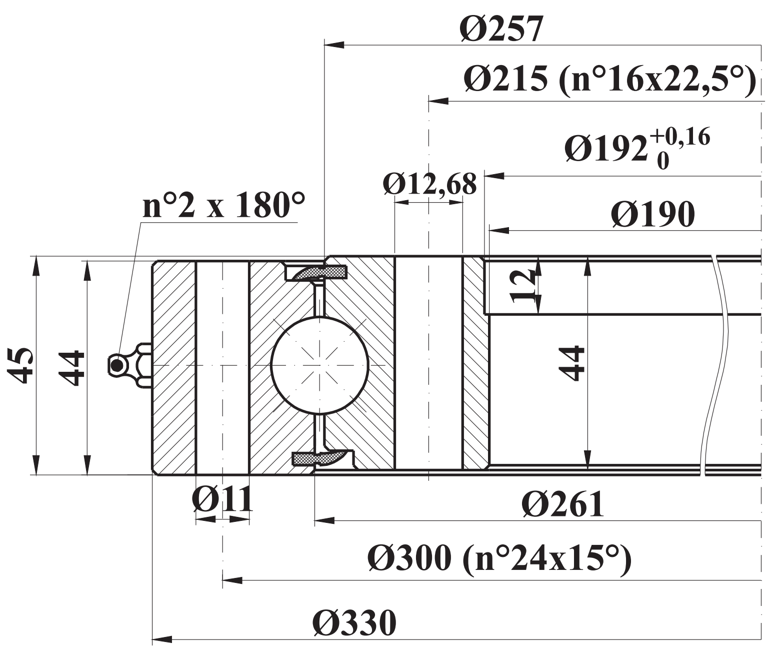


Static Load Capacity

Axial Load	Coa = 445 [kN]
Radial Load	Cor = 170 [kN]
Tilting Moment	Mr = 25 [kN.m]

Dynamic Load Capacity

Radial Load	CR = 100 [kN]
Axial Load	CA = 169 [kN]



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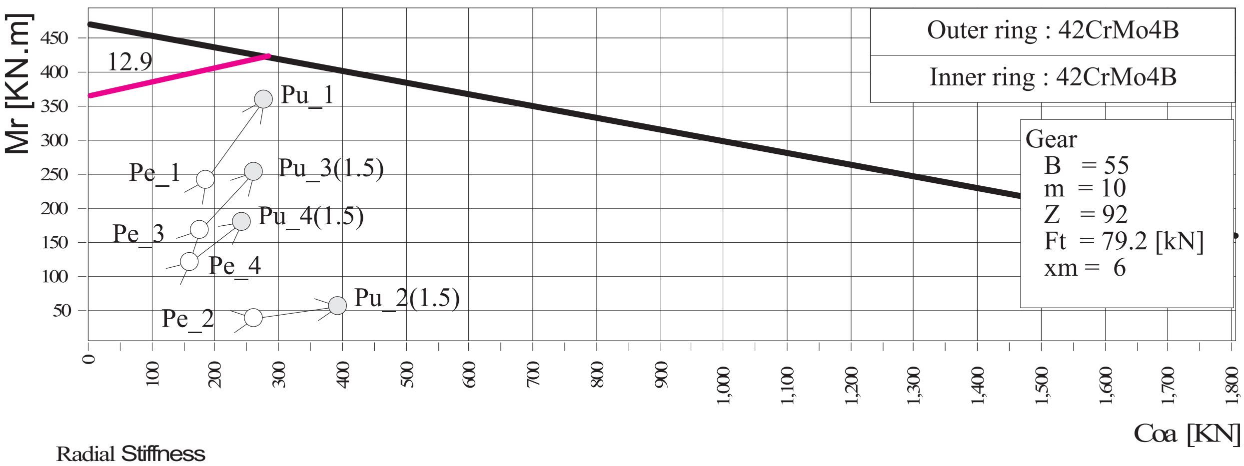
Customer: ....

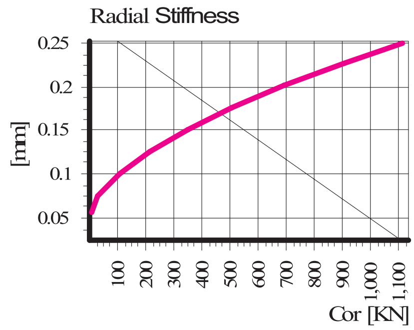
Date: ....

Bearing type: Working Conditions

2IE.095.XX

Limit load chart



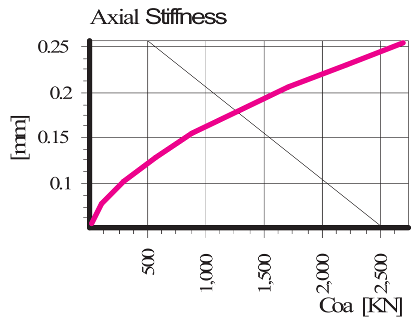


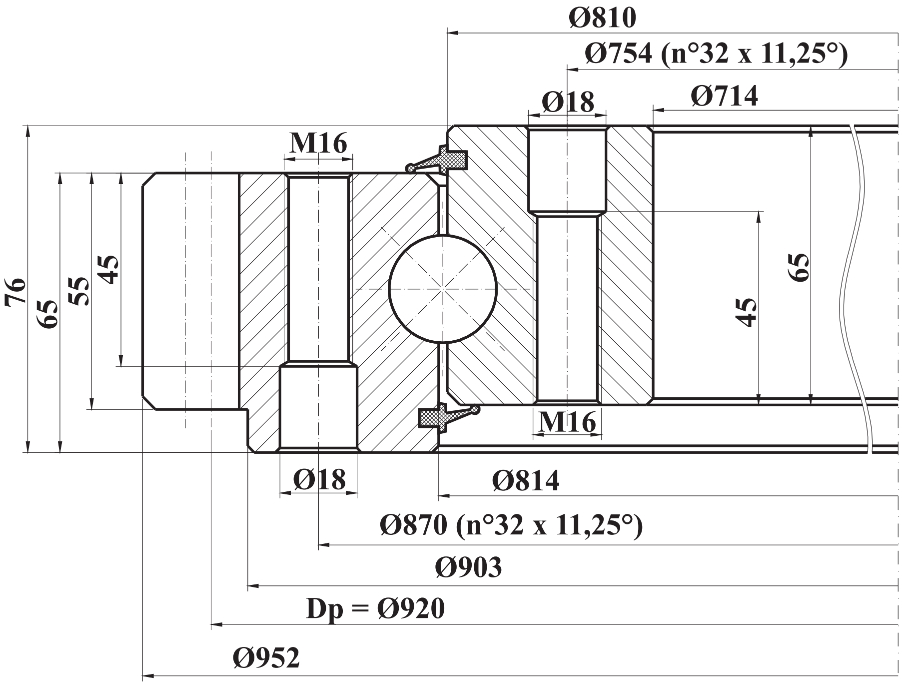
Static Load Capacity

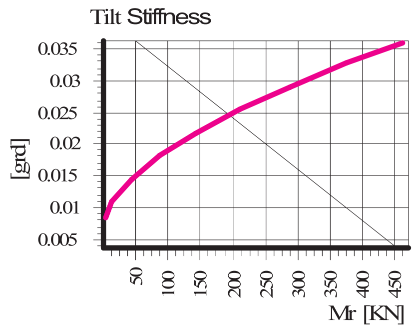
Axial Load	Coa =	2740 [kN]
Radial Load	Cor =	1140 [kN]
Tilting Moment	Mr =	471 [kN.m]

Dynamic Load Capacity

Radial Load	CR =	249 [kN]
Axial Load	CA =	375 [kN]







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Date :____________

4 point contact bearing technical questionaire

Company	
E-mail:	
Tel.	
Fax.	

Application

New application ?
◯ Yes ◯ No
Existent solution :

Usage typology *
◯ Aerial platform
◯ Excavator
◯ Crane
 ◯ with SR at the base
 ◯ with SR at the tower
◯ Solar tracker
◯ Wind turbine

Other application type

* for these applications a special form is needed

Rotational axle position
◯ Vertical ◯ Other
◯ Horizontal ___ °

Load type
◯ Axial Load - compression
◯ Axial Load - traction

Constant rotation
Number of working rotation (SR)
Number of working rotation (max)

Working temperature, °C
Minimum
Maximum

Lubrication type
◯ Oli
◯ Grease

Rotation with breack
Angular accelerations
Acceleration time

Gear:
◯ Without ◯ Internal ◯ External

	Whell	Pinion	Measure Unit
Module m			
Teeth number			
Teeth length			
Correction factor x			
Wheelbase			

Maximum tangential force Ft, KN

Other data
Are there vibrations or shocks ? ◯ Si ◯ No
Oscilating rotations ? ◯ Si ◯ No
Life time, in years :
Daily working hours :
Athmosferic parameters
 Wind speed, Km/h
 Humidity ◯ Si ◯ No
 Saline zones ◯ Si ◯ No

	Working load		Testing load	Other cases				
Load conditions	Normal	Maximum		Test 1	Test 2	Test 3	Test 4	Test 5
Axial Load Fa, KN								
Radial Load Fr, KN								
Tilting Moment, Mr								
Time percent, %								

Comments :

Sign: ____________

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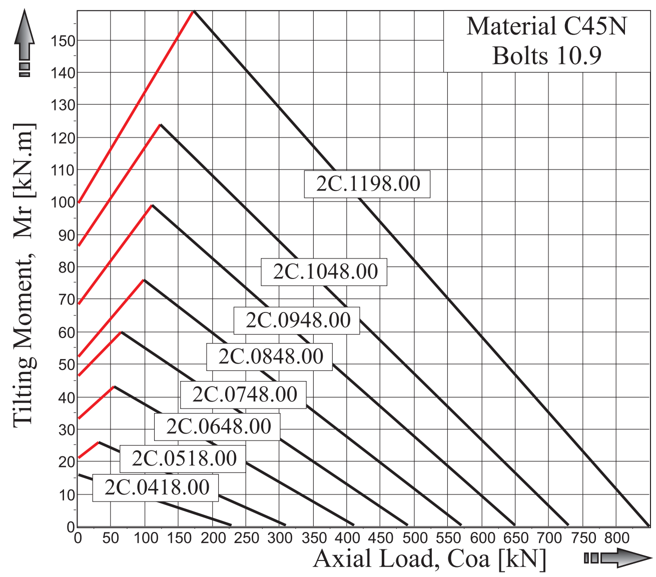
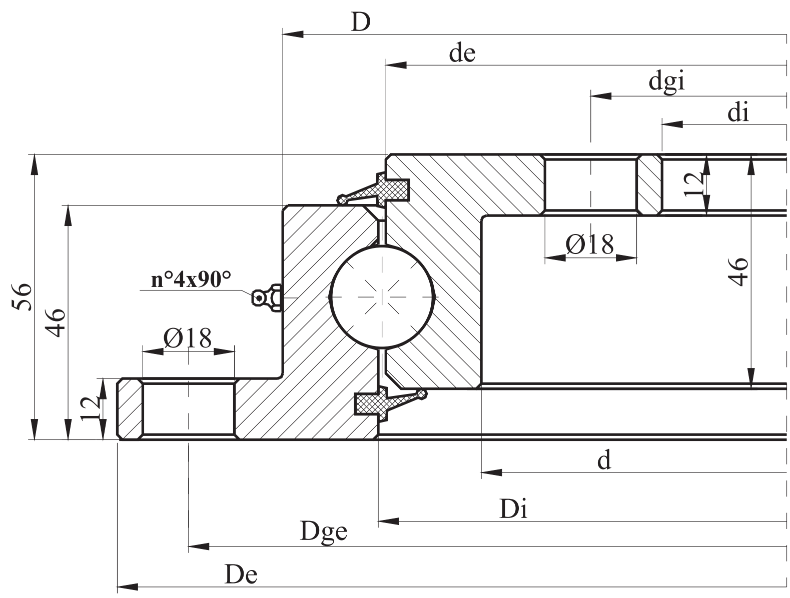


Serie C.ZT.



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2C.0518.00
2C.0648.00
2C.0748.00
2C.0848.00
2C.0948.00
2C.1048.00
2C.1198.00

Bearing type	Outer ring						Inner ring				Static		Dynamic		
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	d [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg
2C.0418.00	418	315.5	353	8	390	312.5	204	275	12	232	234	16	177	115	17
2C.0518.00	518	415.5	453	8	490	412.5	304	375	12	332	313	29	197	128	24
2C.0648.00	648	545.5	583	10	620	542.5	434	505	14	462	414	49	218	142	31
2C.0748.00	748	645.5	683	12	720	642.5	534	605	16	562	493	69	233	151	37
2C.0848.00	848	745.5	783	12	820	742.5	634	705	16	662	572	92	246	160	43
2C.0948.00	948	845.5	883	14	920	842.5	734	805	18	762	651	119	258	167	48
2C.1048.00	1048	945.5	983	16	1020	942.5	834	905	20	862	731	149	269	174	53
2C.1198.00	1198	1095.5	1133	16	1170	1092.5	984	1055	20	1012	849	200	284	184	62

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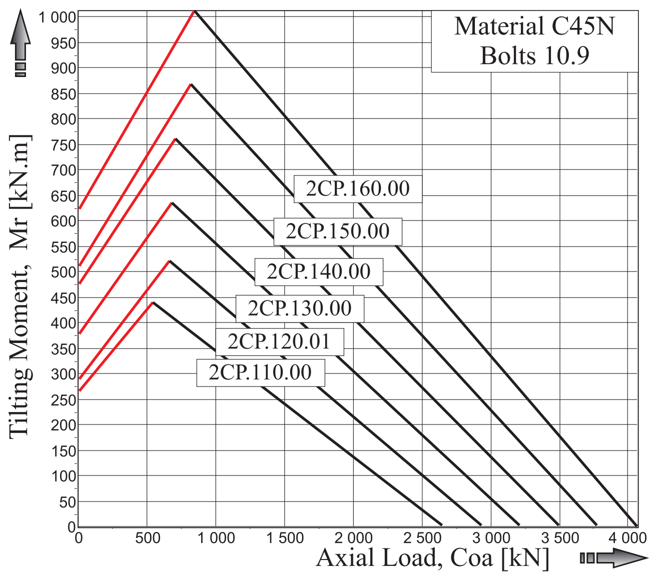

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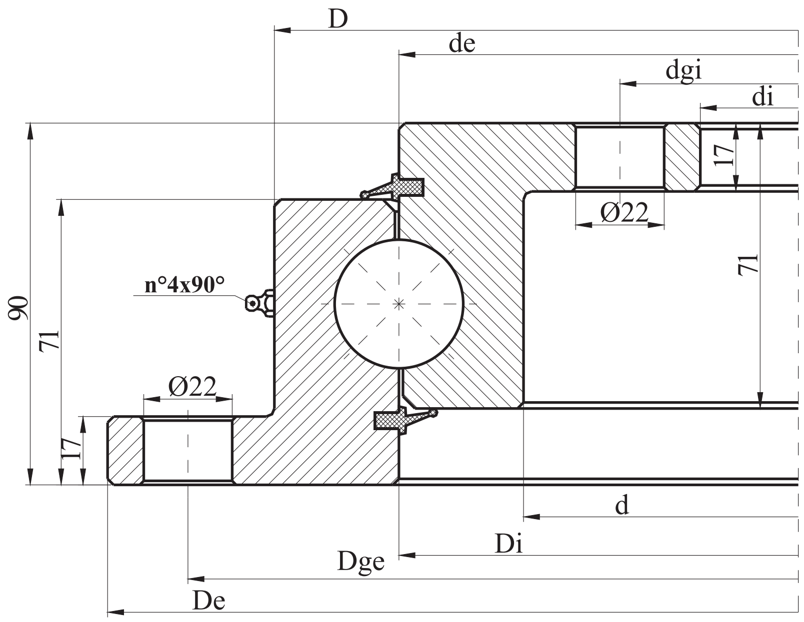

2CP.110.00
2CP.120.01
2CP.130.00
2CP.140.00
2CP.150.00

Bearing type	Outer ring						Inner ring				Static		Dynamic		
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	d [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg
2CP.110.00	1100	955	1017	30	1060	955	805	893	30	845	2660	553	538	349	127
2CP.120.01	1200	1055	1117	30	1160	1055	905	993	30	945	2941	674	557	362	140
2CP.130.00	1300	1155	1217	36	1260	1155	1005	1093	36	1045	3222	806	576	374	153
2CP.140.00	1400	1255	1317	42	1360	1255	1105	1193	42	1145	3503	951	593	385	165
2CP.150.00	1500	1355	1417	42	1460	1355	1205	1293	42	1245	3784	1107	610	396	178
2CP.160.00	1600	1455	1517	48	1560	1455	1305	1393	48	1345	4065	1276	626	406	191

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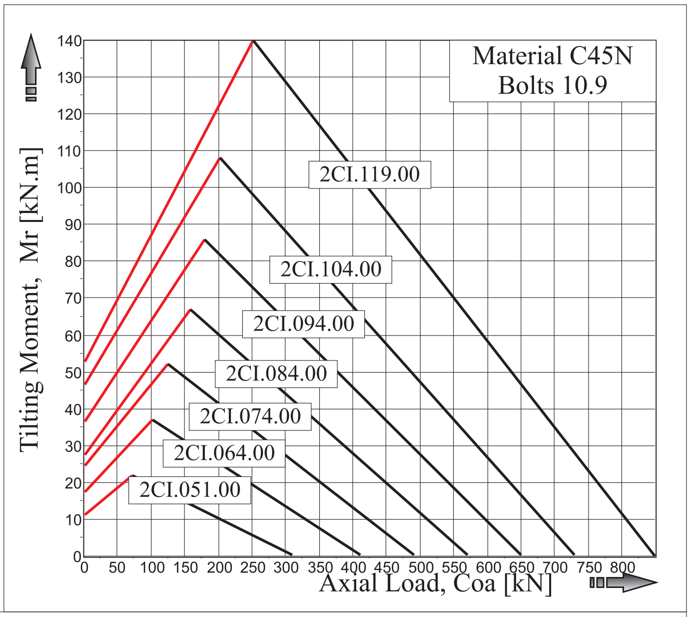
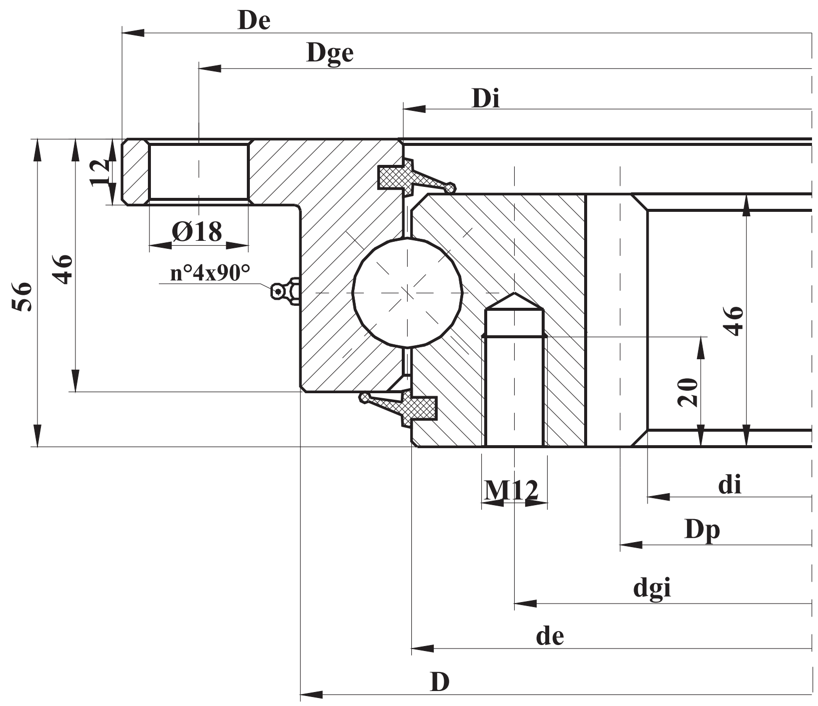


Serie C.DI.



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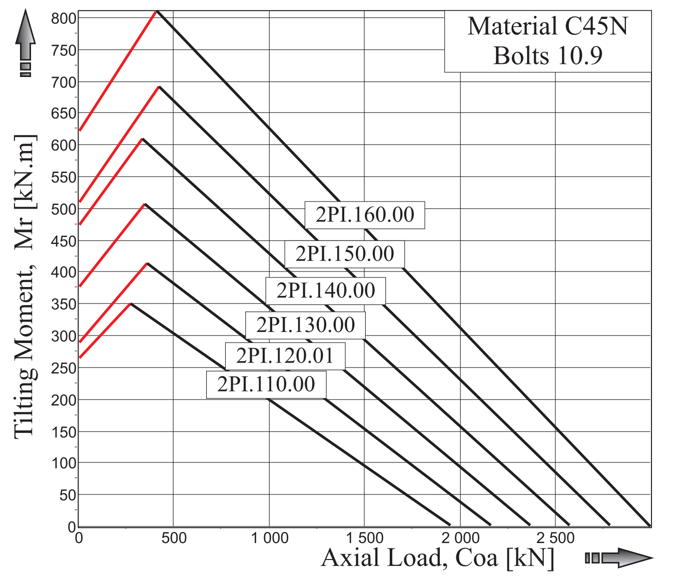
2CI.064.00
2CI.074.00
2CI.084.00
2CI.094.00
2CI.104.00
2CI.119.00

Bearing type	Outer ring					Inner ring				Static		Dynamic			Gear				
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg	Z	m [mm]	Dp [mm]	km	Ft [kN]
2CI.051.00	518	415.5	453	8	490	412.5	326.5	12	375	313	29	197	128	28	67	5	335	0.75	24
2CI.064.00	648	545.5	583	10	620	542.5	445.2	16	505	414	49	218	142	38	76	6	456	0.6	29
2CI.074.00	748	645.5	683	12	720	642.5	547.2	18	605	493	69	233	151	44	93	6	558	0.6	29
2CI.084.00	848	745.5	783	12	820	742.5	649.2	20	705	572	92	246	160	52	110	6	660	0.6	29
2CI.094.00	948	845.5	883	14	920	842.5	737.6	20	805	651	119	258	167	62	94	8	752	0.8	38
2CI.104.00	1048	945.5	983	16	1020	942.5	841.6	22	905	731	149	269	174	66	107	8	856	0.8	38
2CI.119.00	1198	1095.5	1133	16	1170	1092.5	985.6	24	1055	849	200	284	184	81	125	8	1184	0.8	38



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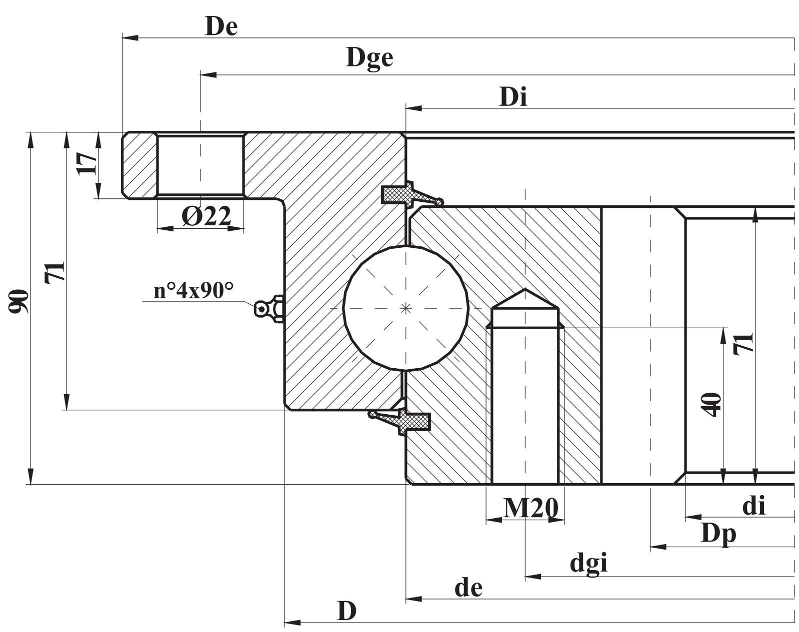

2PI.110.00
2PI.120.01
2PI.130.00
2PI.140.00
2PI.150.00
2PI.160.00

Bearing type	Outer ring					Inner ring				Static		Dynamic			Gear				
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg	Z	m [mm]	Dp [mm]	km	Ft [kN]
2PI.110.00	1100	955	1017	30	1060	955	812	30	894	2660	553	538	349	155	83	10	830	1	74
2PI.120.01	1200	1055	1117	30	1160	1055	912	30	994	2941	674	557	362	172	93	10	930	1	74
2PI.130.00	1300	1155	1217	36	1260	1115	1012	36	1094	3222	806	576	374	188	103	10	1030	1	74
2PI.140.00	1400	1255	1317	42	1360	1255	1112	42	1194	3503	951	593	385	204	118	10	1180	1	74
2PI.150.00	1500	1355	1417	42	1460	1355	1212	42	1294	3784	1107	610	396	222	123	10	1230	1	74
2PI.160.00	1600	1455	1517	48	1560	1455	1310	48	1394	4065	1276	626	406	239	133	10	1330	0	74

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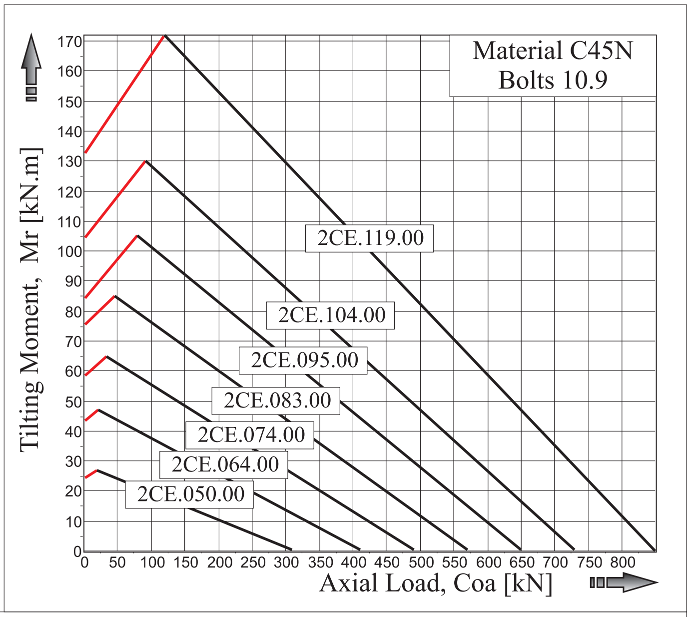
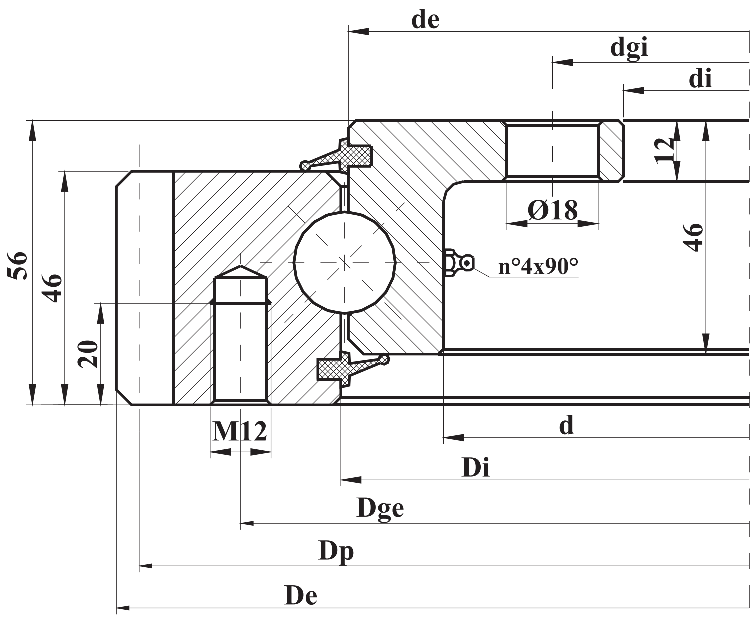
Start



Serie C.DE.



2CE.050.00
2CE.064.00
2CE.074.00
2CE.083.00
2CE.095.00
2CE.104.00
2CE.119.00

Bearing type	Outer ring					Inner ring				Static		Dynamic			Gear				
	De [mm]	Di [mm]	Ne	Dge [mm]	de [mm]	di [mm]	d [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg	Z	m [mm]	Dp [mm]	km	Ft [kN]
2CE.050.00	503.5	415.5	10	455	412.5	304	375	12	332	313	29	197	128	30	99	5	495	0.75	25
2CE.064.00	640.8	545.5	14	585	542.5	434	505	14	462	414	49	218	142	41	105	6	630	0.6	30
2CE.074.00	742.8	645.5	16	685	642.5	534	605	16	562	493	69	233	151	49	122	6	732	0.6	30
2CE.083.00	838.8	745.5	18	785	742.5	634	705	16	662	572	92	246	160	55	138	6	828	0.6	30
2CE.095.00	950.4	845.5	18	885	842.5	734	805	18	762	651	119	258	167	68	117	8	936	0.8	40
2CE.104.00	1046.4	945.5	20	985	942.5	834	905	20	862	731	149	269	174	71	129	8	1032	0.8	40
2CE.119.00	1198.4	1095.5	22	1135	1092.5	984	1055	20	1012	849	200	284	184	84	148	8	1184	0.8	40

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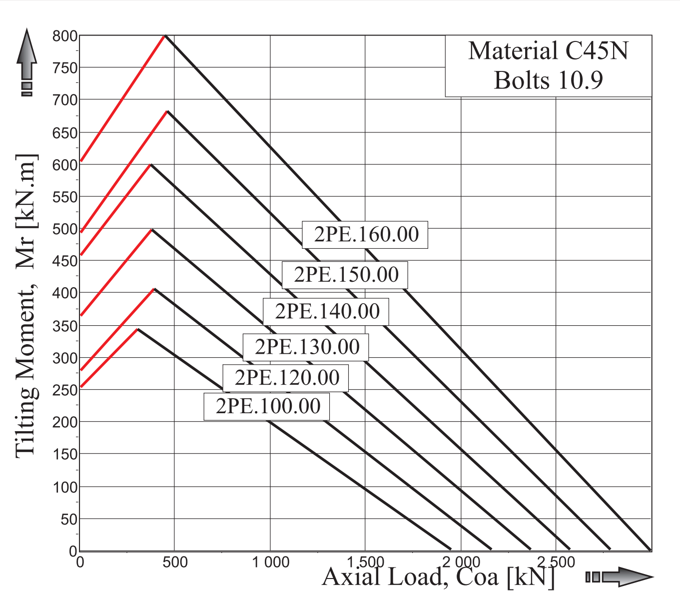
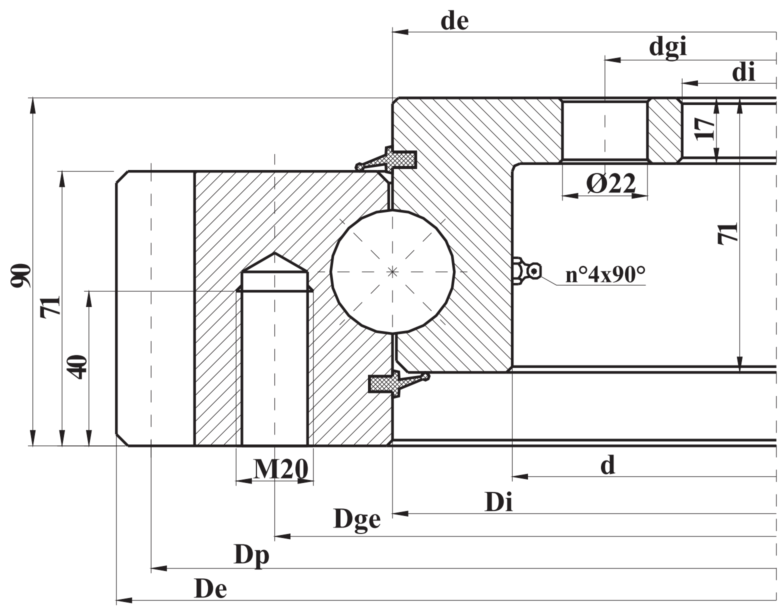


Serie C.PE.



2PE.100.00
2PE.120.00
2PE.130.00
2PE.140.00
2PE.150.00
2PE.160.00

Bearing type	Outer ring					Inner ring				Static		Dynamic			Gear				
	De [mm]	Di [mm]	Ne	Dge [mm]	de [mm]	di [mm]	d [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg	Z	m [mm]	Dp [mm]	km	Ft [kN]
2PE.100.00	1098	955	30	1016	955	805	893	30	845	2260	553	538	349	161	120	9	1080	0	69
2PE.120.00	1200	1055	30	1116	1055	905	993	30	945	2941	674	557	362	179	118	10	1180	0	77
2PE.130.00	1300	1155	36	1216	1155	1005	1093	36	1045	3222	806	576	374	196	128	10	1280	0	77
2PE.140.00	1400	1255	42	1316	1255	1105	1193	42	1145	3503	951	593	385	212	138	10	1380	0	77
2PE.150.00	1500	1355	42	1416	1355	1205	1293	42	1245	3784	1107	610	396	230	148	10	1480	0	77
2PE.160.00	1600	1455	48	1516	1455	1305	1393	48	1345	4065	1276	626	406	246	158	10	1580	0	77

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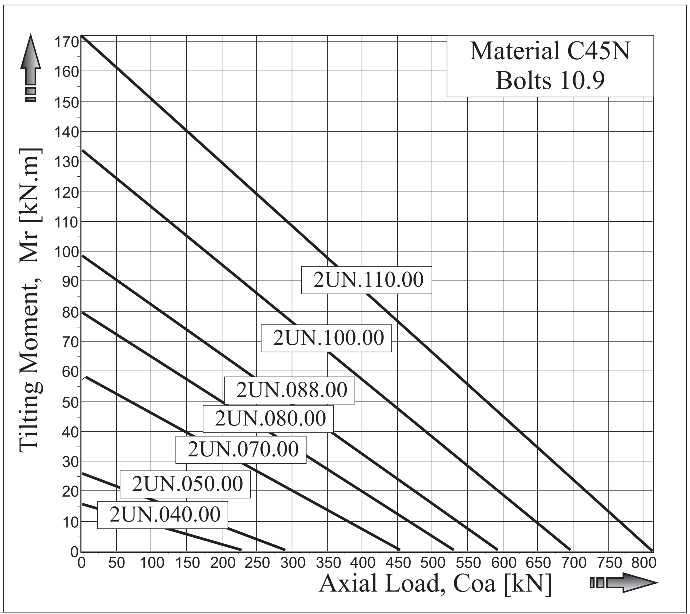
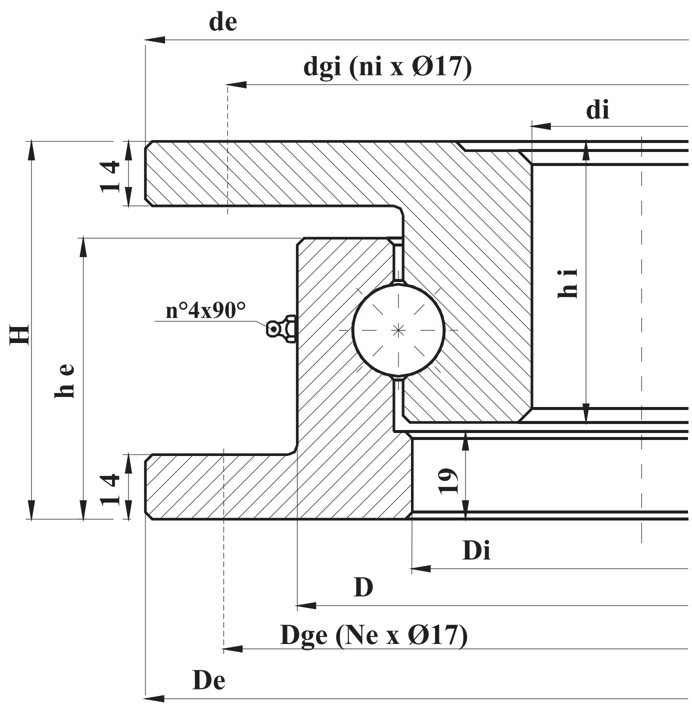


Serie U.ND.



2UN.040.00
2UN.050.00
2UN.070.00
2UN.080.00
2UN.088.00
2UN.100.00
2UN.110.00

Bearing type	Outer ring						Inner ring					Static		Dynamic		
	De [mm]	Di [mm]	D [mm]	he [mm]	Ne	Dge [mm]	de [mm]	di [mm]	hi [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg
2UN.040.00	400	310	351	53	16	376	400	280	58	16	376	234	16	177	115	23
2UN.050.00	498	384	432	61	16	470	498	331	61	16	470	296	26	194	126	37
2UN.070.00	700	584	634	61	24	670	700	530	61	24	670	457	59	224	146	53
2UN.080.00	804	688	738	61	30	774	804	636	61	30	774	533	80	239	156	67
2UN.088.00	880	764	814	61	36	850	880	708	61	36	850	595	99	250	162	75
2UN.100.00	1000	884	934	61	36	970	1000	828	61	36	970	699	134	262	170	87
2UN.110.00	1095	979	1029	61	36	1065	1095	924	61	36	1065	812	172	273	177	96

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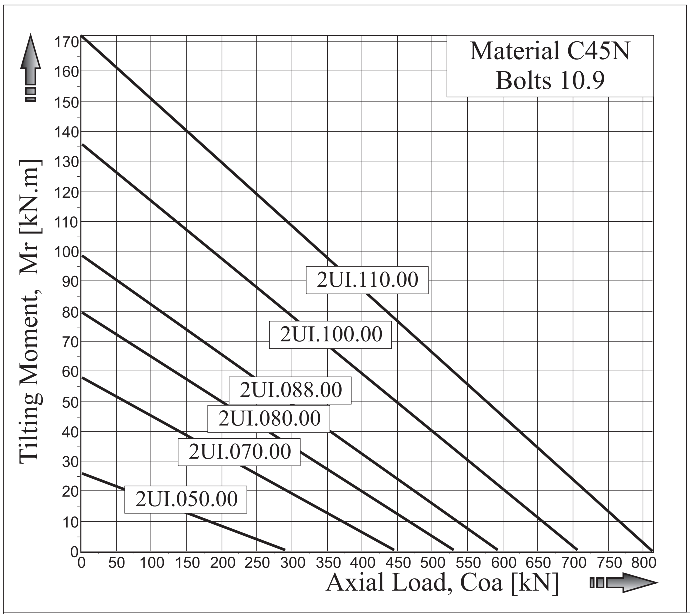
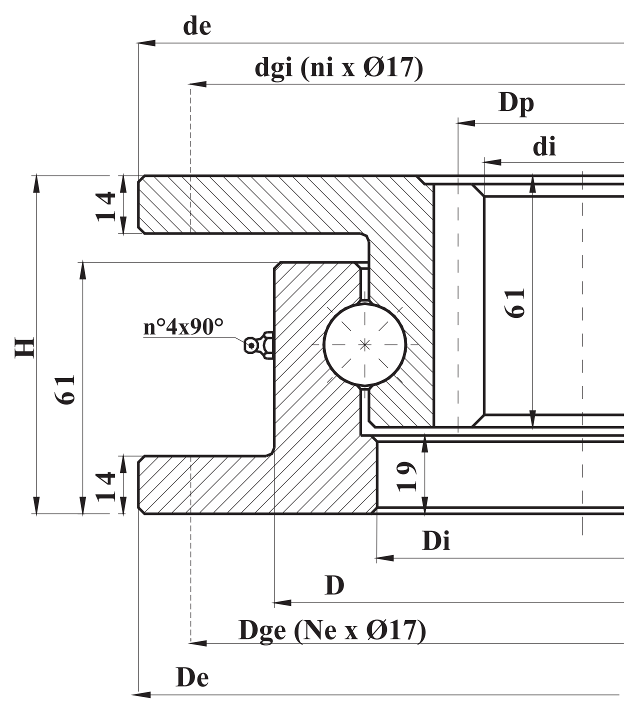
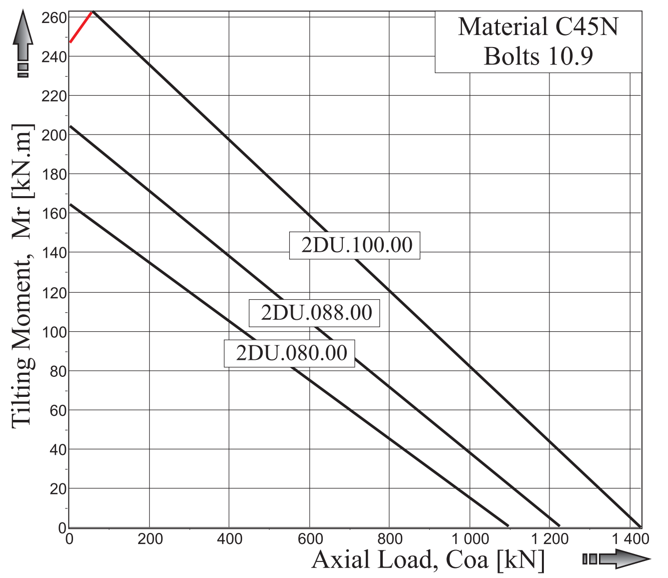


Serie U.DI.

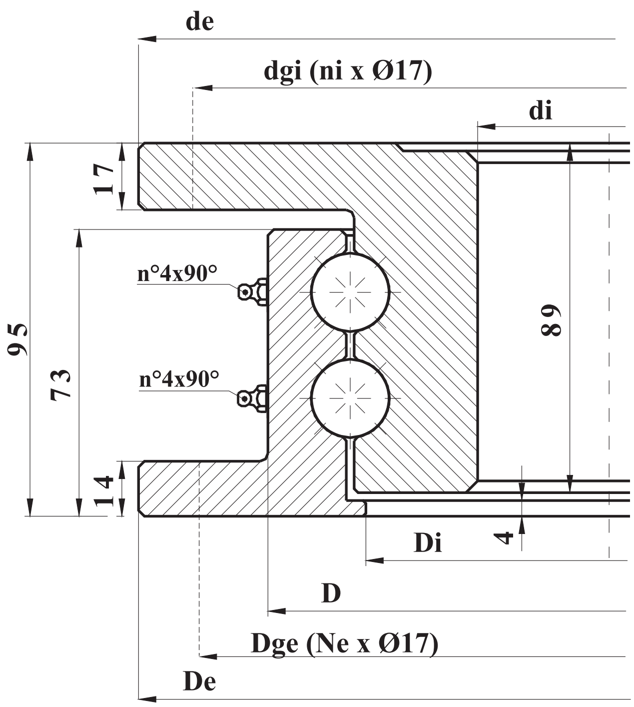


2UI.050.00
2UI.070.00
2UI.080.00
2UI.088.00
2UI.100.00
2UI.110.00

Bearing type	Outer ring					Inner ring				Static		Dynamic			Gear				
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg	Z	m [mm]	Dp [mm]	km	Ft [kN]
2UI.050.00	498	384	432	16	470	498	331	16	470	296	26	194	126	39	68	5	340	0.5	32
2UI.070.00	700	584	634	24	670	700	530	24	670	448	58	224	146	62	108	5	540	0	32
2UI.080.00	804	688	738	30	774	804	636	30	774	533	80	239	156	69	108	6	648	0	37
2UI.088.00	880	764	814	36	850	880	708	36	850	595	99	250	162	77	120	6	720	0	38
2UI.100.00	1000	884	934	36	970	1000	828	36	970	708	136	262	170	89	140	6	840	0	38
2UI.110.00	1095	979	1029	36	1065	1095	924	36	1065	813	172	273	177	98	156	6	936	0	38



Serie 2U.ND.



2DU.080.00
2DU.088.00
2DU.100.00

Bearing type	Outer ring					Inner ring				Static		Dynamic		
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]	kg
2DU.080.00	805	689	739	42	774	805	636	42	774	1101	165	389	253	85
2DU.088.00	880	764	814	48	850	880	708	48	850	1229	205	405	263	92
2DU.100.00	1000	884	934	48	970	1000	831	48	970	1428	275	428	278	103

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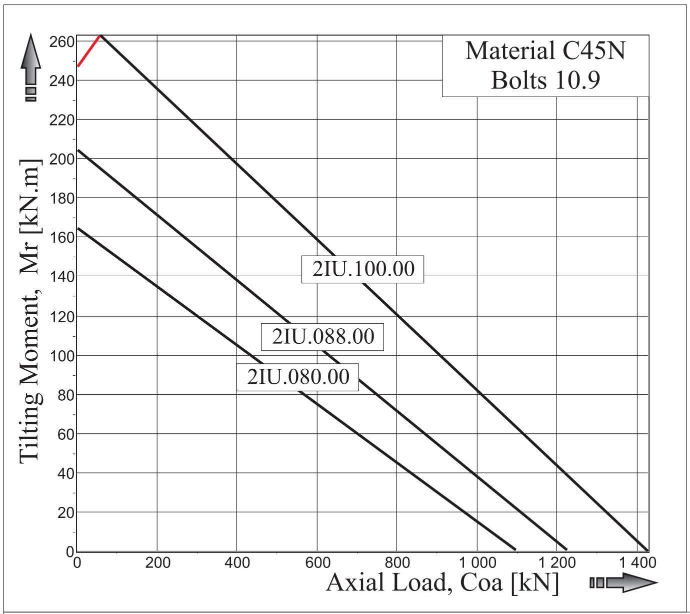
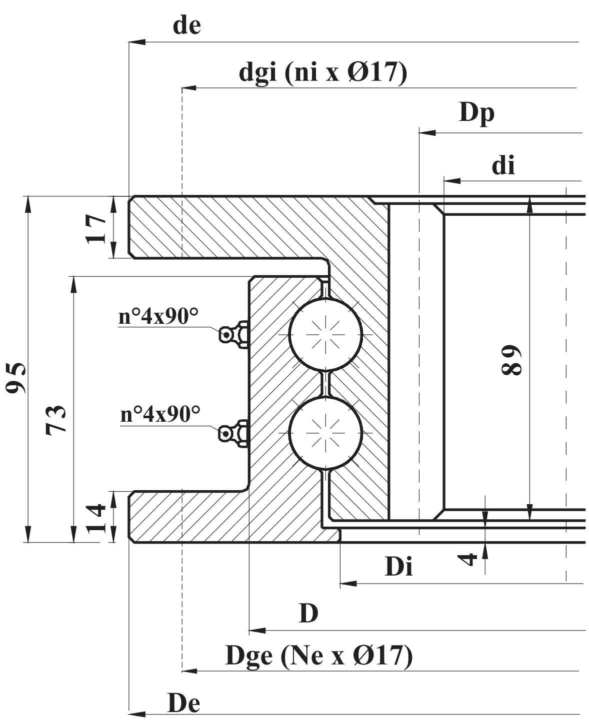


Serie 2U.DI.

2IU.080.00
2IU.088.00
2IU.100.00



Bearing type	Outer ring					Inner ring				Static		Dynamic		kg	Gear				
	De [mm]	Di [mm]	D [mm]	Ne	Dge [mm]	de [mm]	di [mm]	ni	dgi [mm]	Coa [kN]	Mr [kN.m]	Ca [kN]	Cr [kN]		Z	m [mm]	Dp [mm]	km	Ft [kN]
2IU.080.00	805	689	739	42	774	805	636	42	774	1101	165	389	253	83	108	6	648	0	56
2IU.088.00	880	764	814	48	850	880	708	48	850	1229	205	405	263	89	120	6	720	0	56
2IU.100.00	1000	884	934	48	970	1000	831	48	970	1428	1428	428	278	99	140	6	840	1.5	56

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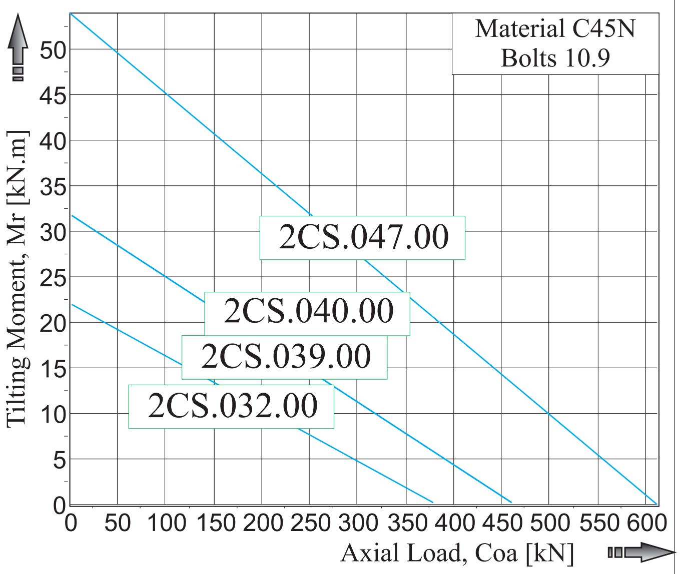
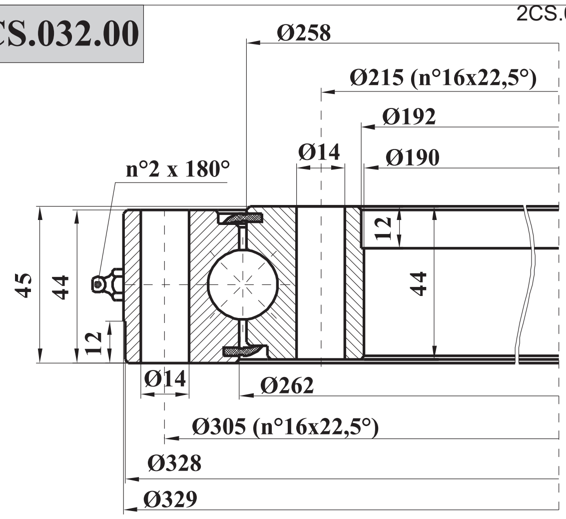
Serie C.SD. 20



2CS.032.00

2CS.032.00



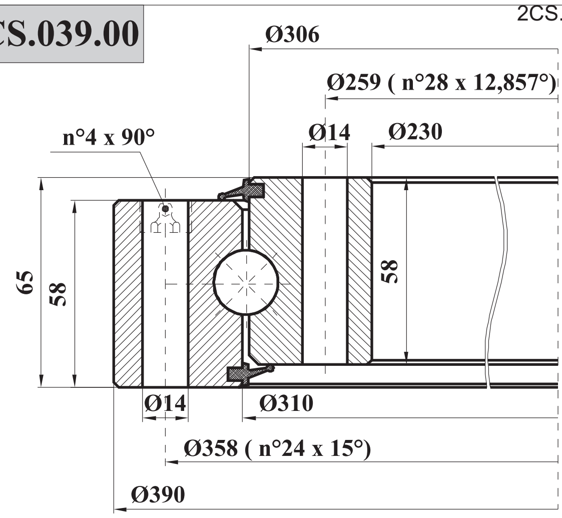
Features

Coa= 383 kN Cr= 106 kN
Cor= 144 kN Mr= 22 kN.m
Ca = 163 kN

kg 17

2CS.039.00

2CS.039.00



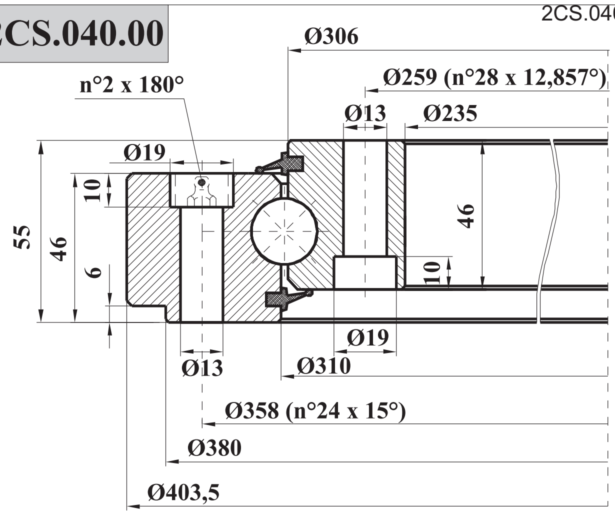
Features

Coa= 463 kN Cr= 114 kN
Cor= 174 kN Mr= 32 kN.m
Ca = 176 kN

kg 28

2CS.040.00

2CS.040.00



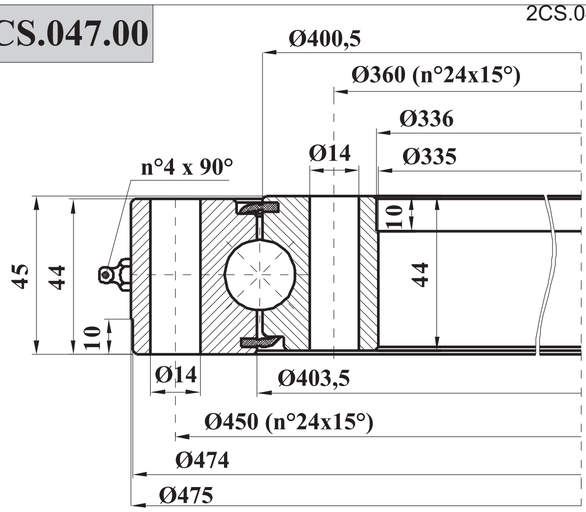
Features

Coa= 463 kN Cr =114 kN
Cor= 174 kN Mr= 32 kN.m
Ca = 176 kN

kg 26

2CS.047.00

2CS.047.00



Features

Coa= 612 kN Cr= 127 kN
Cor= 229 kN Mr= 54 kN.m
Ca = 194 kN

kg 28

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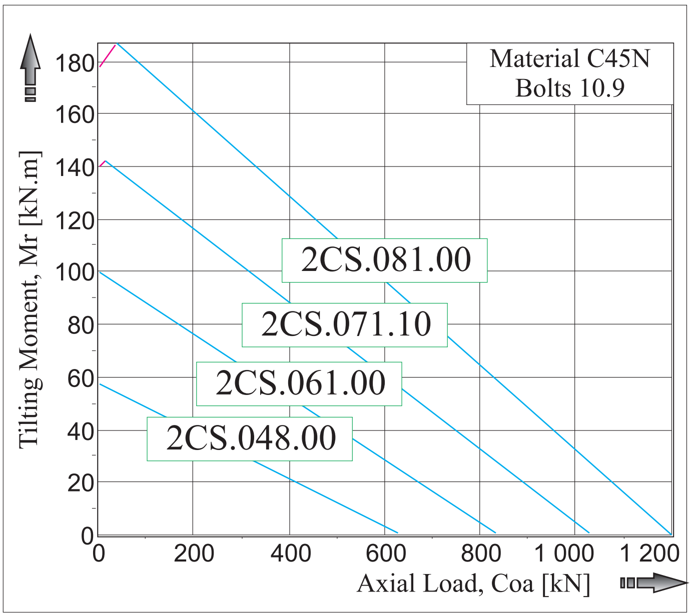
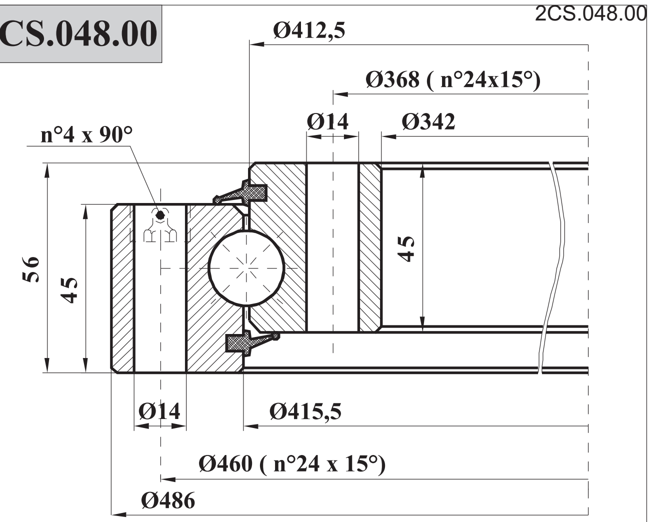


Serie C.SD. 20

2CS.048.00

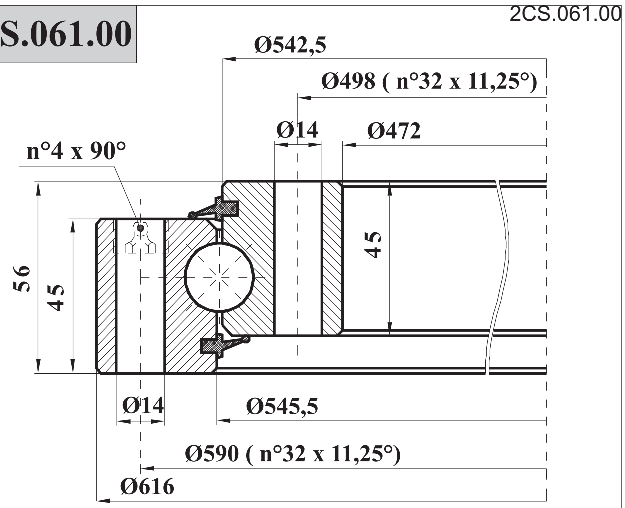


Features

Coa= 635 kN	Cr= 128 kN
Cor= 238 kN	Mr= 58 kN.m
Ca = 197 kN	

kg 29

2CS.061.00

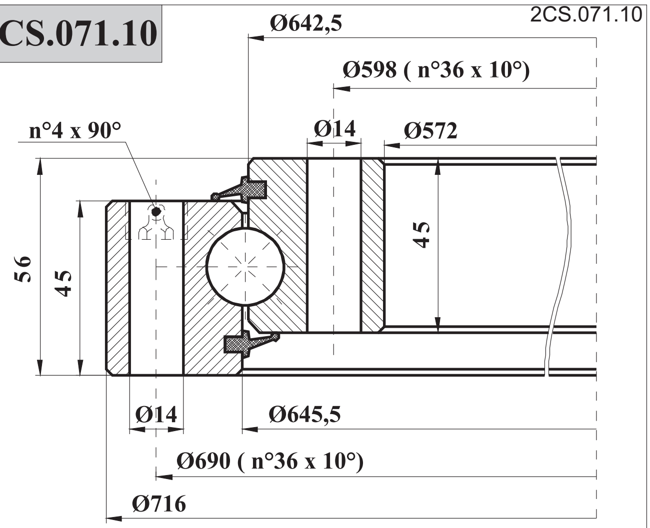


Features

Coa= 841 kN	Cr= 142 kN
Cor= 315 kN	Mr=100 kN.m
Ca = 219 kN	

kg 36

2CS.071.10

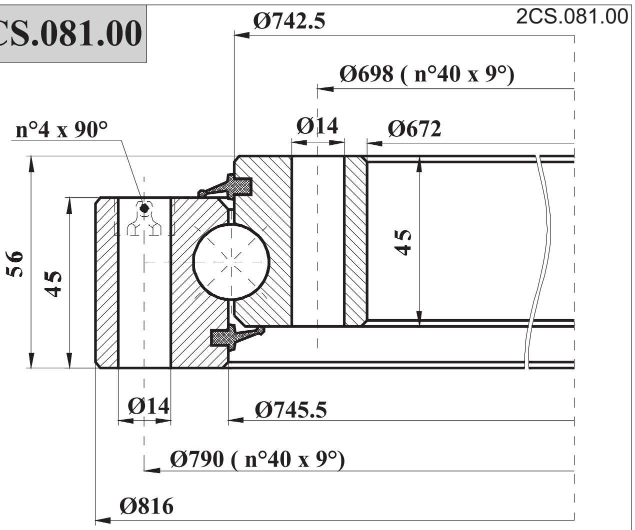


Features

Coa= 1035 kN	Cr= 151 kN
Cor= 357 kN	Mr=145 kN.m
Ca = 233 kN	

kg 44

2CS.081.00



Features

Coa= 1201 kN	Cr= 160 kN
Cor= 414 kN	Mr=193 kN.m
Ca = 246 kN	

kg 53

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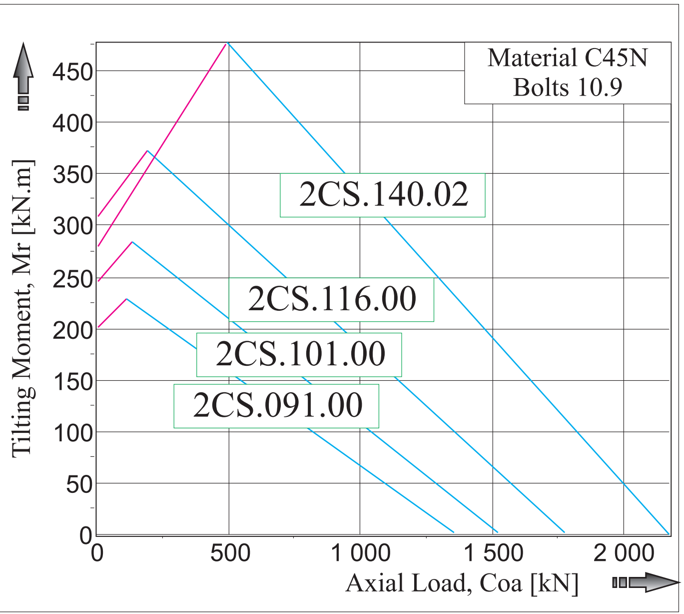
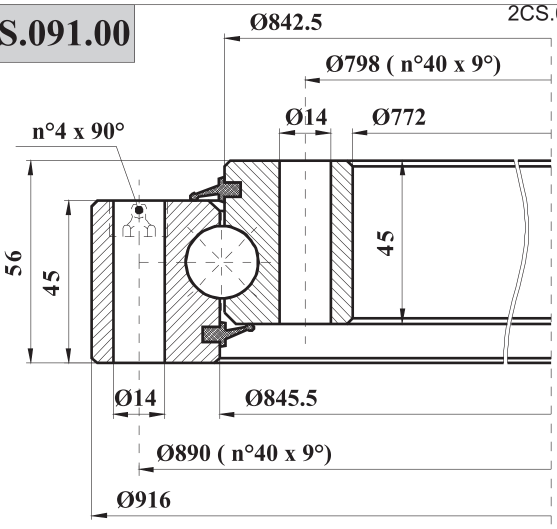
Serie C.SD. 20



2CS.091.00

2CS.091.00



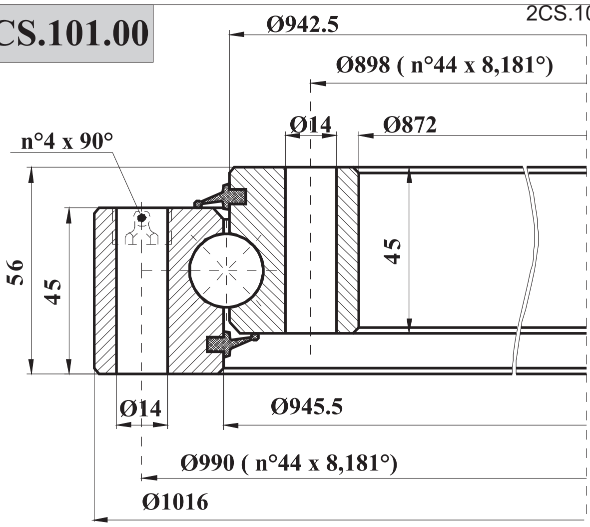
Features

Coa= 1366 kN	Cr= 167 kN
Cor= 472 kN	Mr=249 kN.m
Ca = 258 kN	

kg 60

2CS.101.00

2CS.101.00



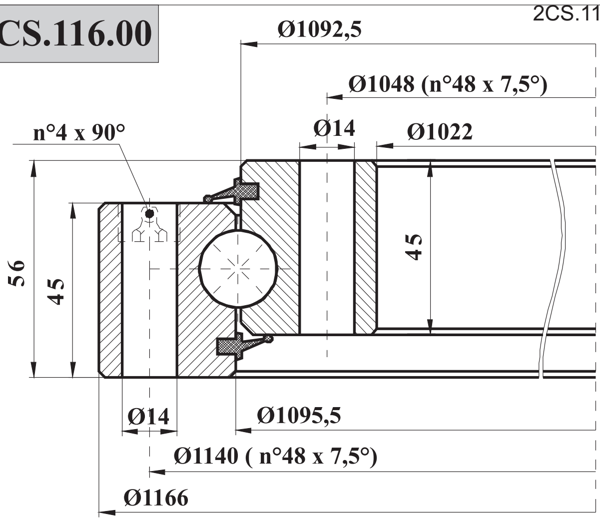
Features

Coa= 1632 kN	Cr= 174 kN
Cor= 529 kN	Mr=311 kN.m
Ca = 269 kN	

kg 68

2CS.116.00

2CS.116.00



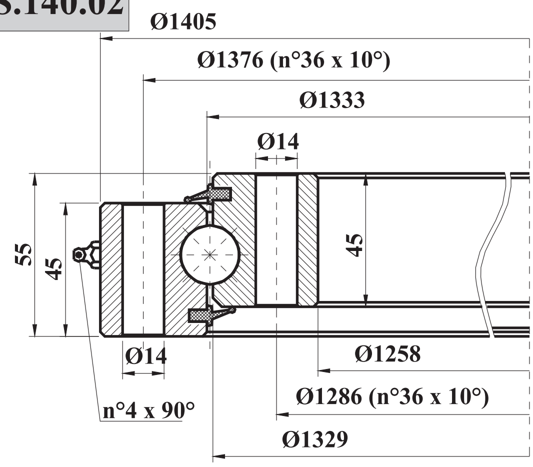
Features

Coa= 1781 kN	Cr= 184 kN
Cor= 615 kN	Mr=418 kN.m
Ca = 284 kN	

kg 76

2CS.140.02

2CS.140.02



Features

Coa= 2172 kN	Cr= 198 kN
Cor= 750 kN	Mr=620 kN.m
Ca = 305 kN	

kg 104

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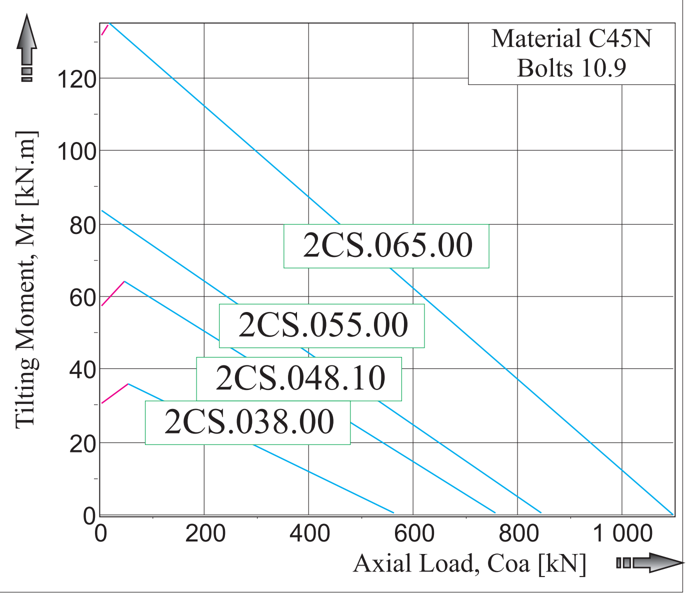
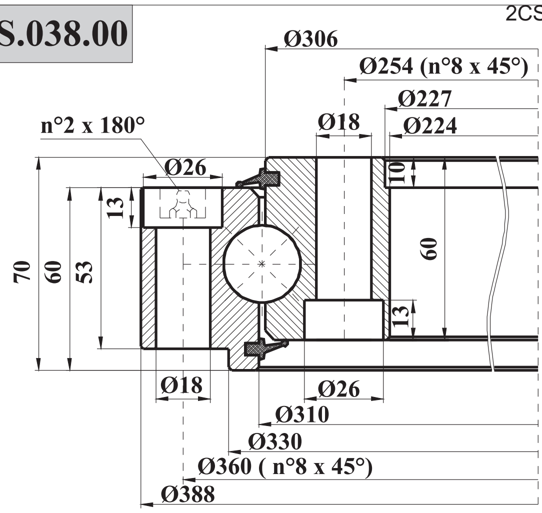


Serie C.SD. 25

2CS.038.00

2CS.038.00



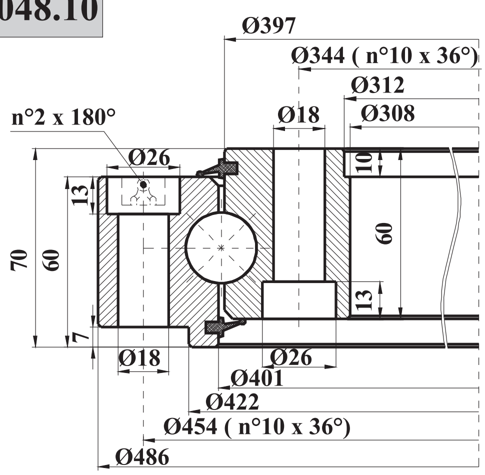
Features

Coa= 571 kN	Cr= 158 kN
Cor= 221 kN	Mr= 40 kN.m
Ca = 243 kN	

kg 34

2CS.048.10

2CS.048.01



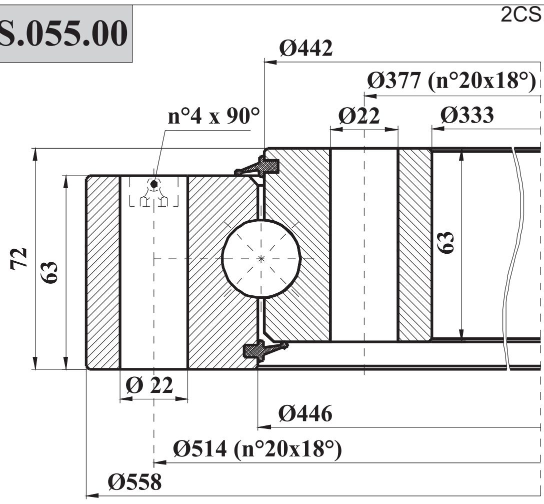
Features

Coa= 765 kN	Cr= 177 kN
Cor= 296 kN	Mr= 68 kN.m
Ca = 272 kN	

kg 47

2CS.055.00

2CS.055.00



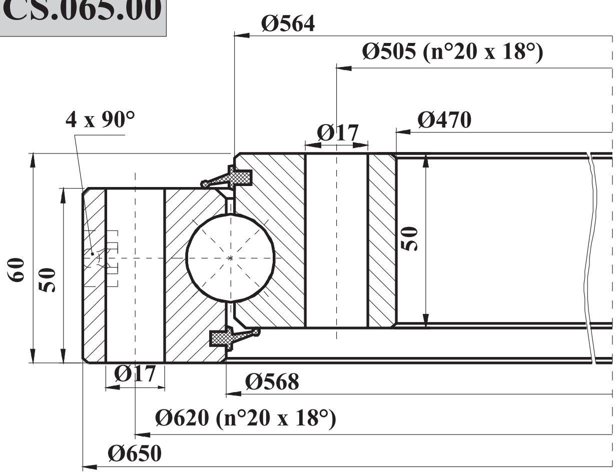
Features

Coa= 853 kN	Cr= 184 kN
Cor= 331 kN	Mr= 84 kN.m
Ca = 283 kN	

kg 66

2CS.065.00

2CS.065.00



Features

Coa= 1100 kN	Cr= 202 kN
Cor= 426 kN	Mr=137 kN.m
Ca = 310 kN	

kg 58

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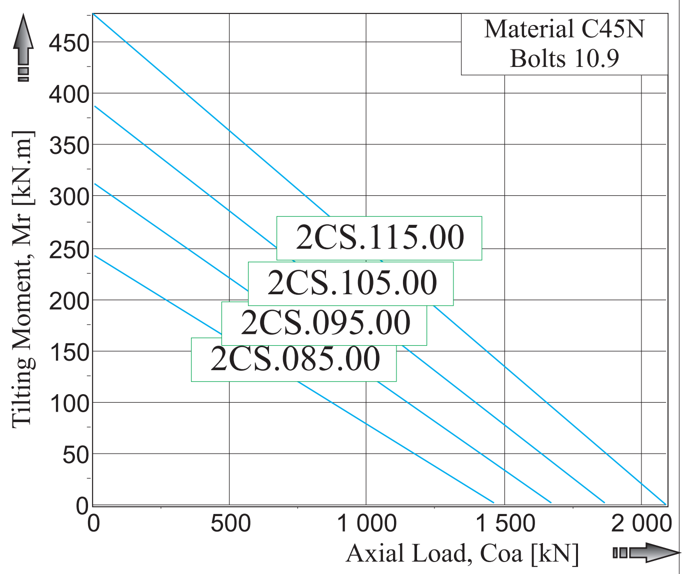
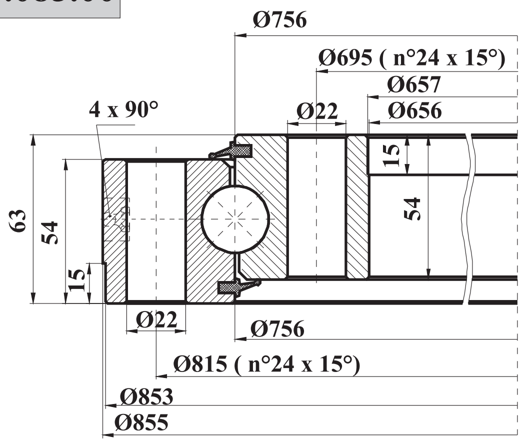


Serie C.SD. 25

2CS.085.00

2CS.085.00



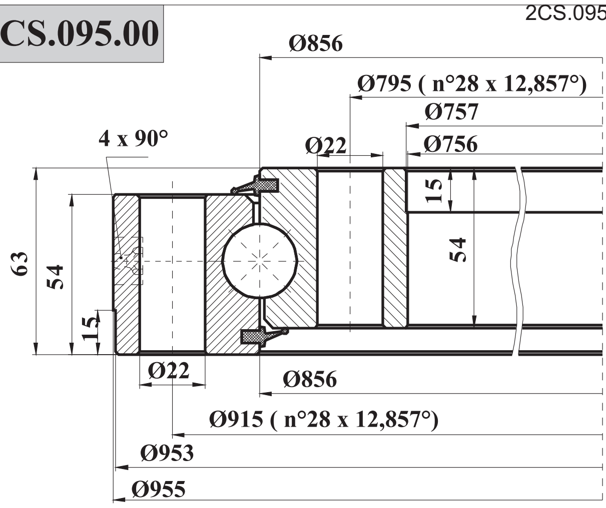
Features

Coa= 1472 kN **Cr= 223 kN**
Cor= 570 kN **Mr=243 kN.m**
Ca = 344 kN

kg **90**

2CS.095.00

2CS.095.00



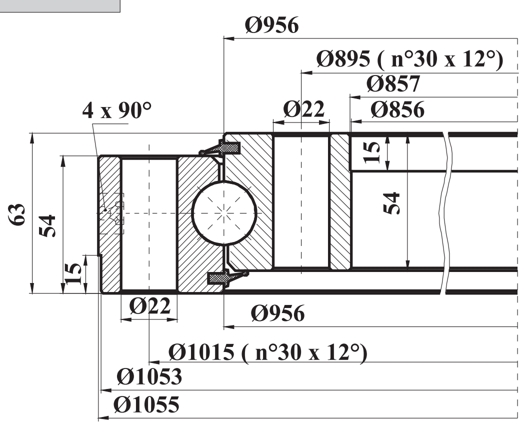
Features

Coa= 1683 kN **Cr= 235 kN**
Cor= 652 kN **Mr=313 kN.m**
Ca = 362 kN

kg **101**

2CS.105.00

2CS.105.00



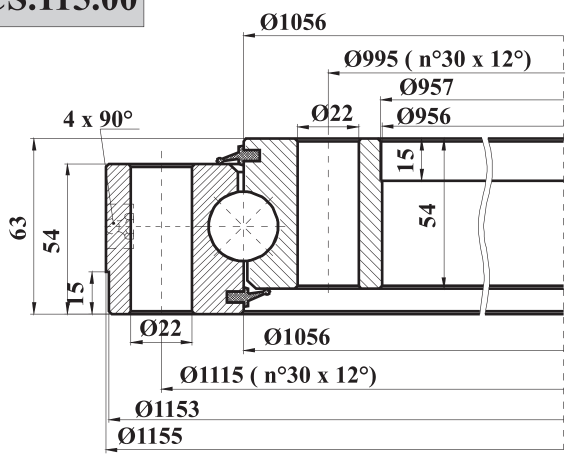
Features

Coa= 1878 kN **Cr= 244 kN**
Cor= 728 kN **Mr=390 kN.m**
Ca = 376 kN

kg **115**

2CS.115.00

2CS.115.00



Features

Coa= 2090 kN **Cr= 254 kN**
Cor= 810 kN **Mr=478 kN.m**
Ca = 391 kN

kg **128**

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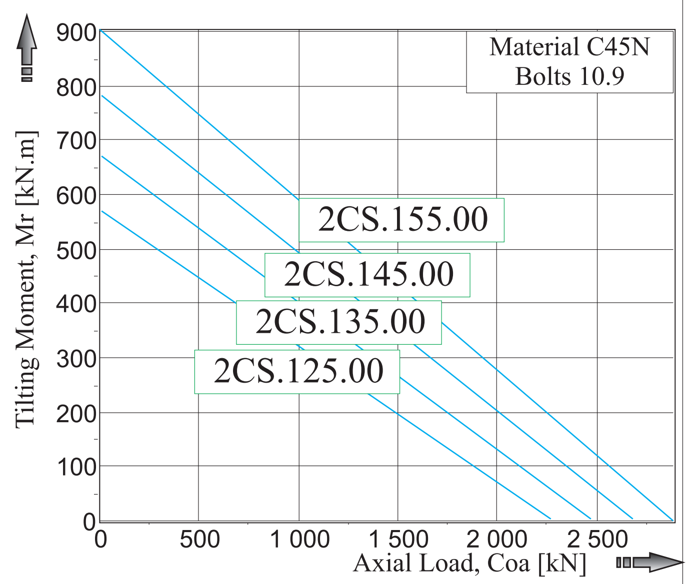
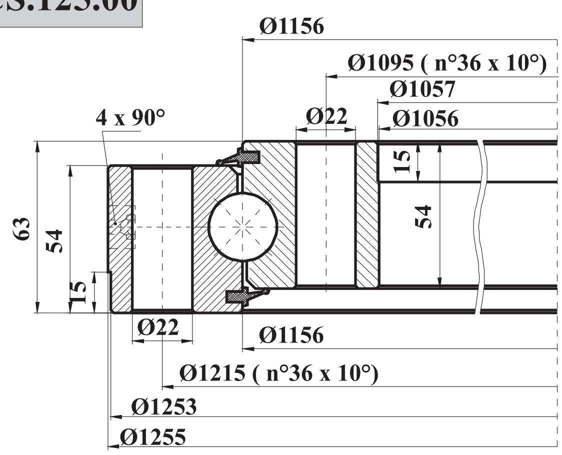


Serie C.SD. 25

2CS.125.00

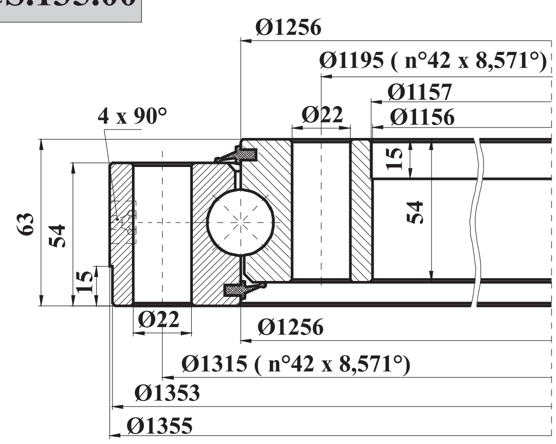


Features

Coa= 2284 kN Cr= 262 kN
Cor= 885 kN Mr=571 kN.m
Ca = 404 kN

kg 141

2CS.135.00

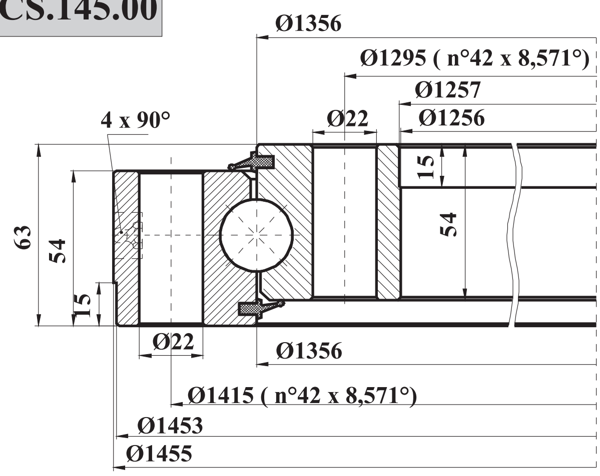


Features

Coa= 2479 kN Cr= 270 kN
Cor= 960 kN Mr=672 kN.m
Ca = 416 kN

kg 154

2CS.145.00

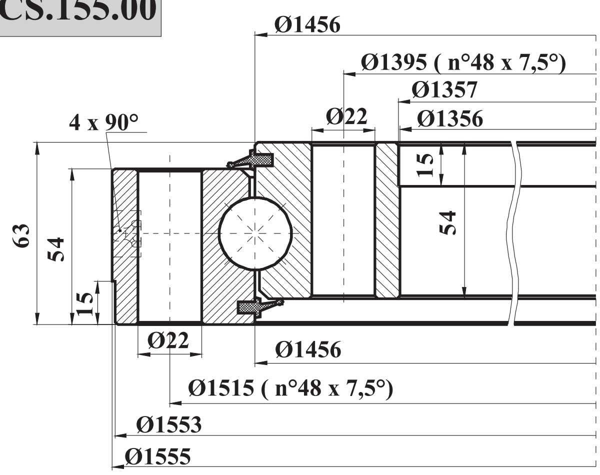


Features

Coa= 2690 kN Cr= 278 kN
Cor= 1042 kN Mr=786 kN.m
Ca = 429 kN

kg 167

2CS.155.00

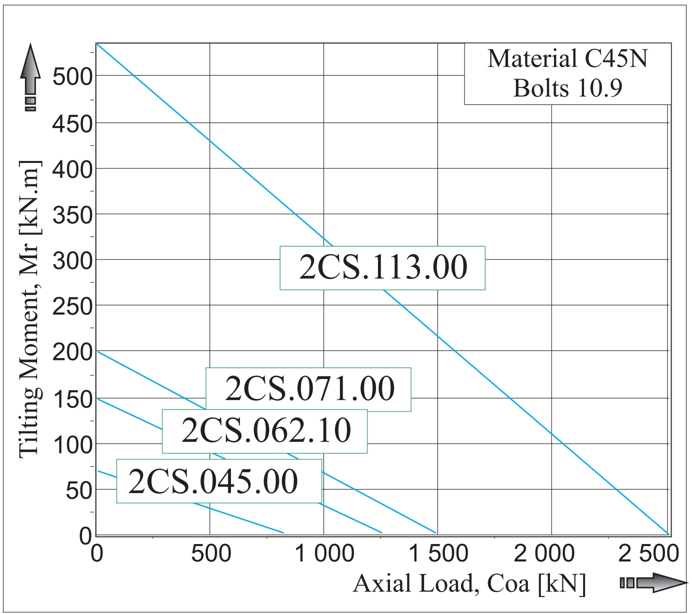


Features

Coa= 2885 kN Cr= 285 kN
Cor= 1186 kN Mr=904 kN.m
Ca = 440 kN

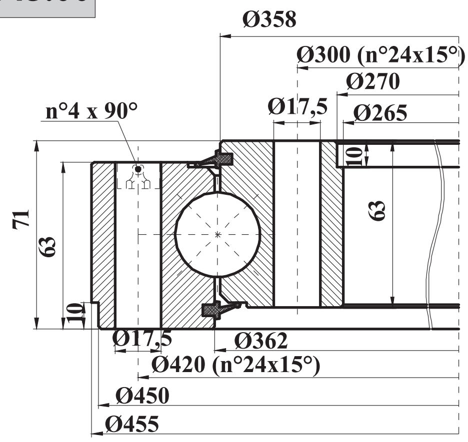
kg 180

Serie C.SD. 32



2CS.045.00

2CS.045.00



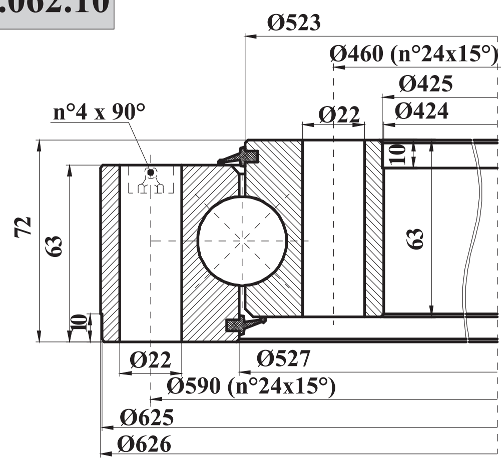
Features

Coa= 852 kN Cr= 239 kN
Cor= 340 kN Mr= 70 kN.m
Ca = 367 kN

kg 45

2CS.062.10

2CS.62.10



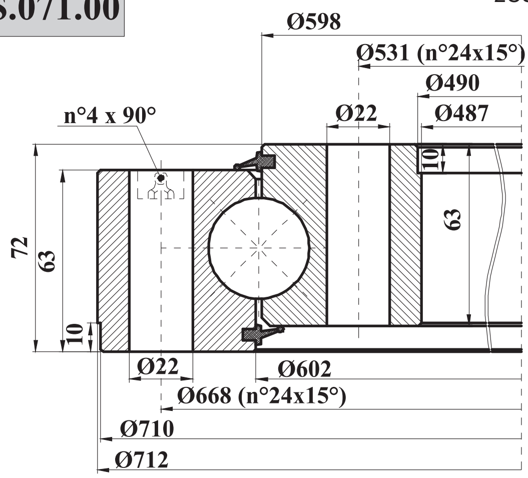
Features

Coa= 1274 kN Cr= 277 kN
Cor= 508 kN Mr=150 kN.m
Ca = 426 kN

kg 70

2CS.071.00

2CS.071.00



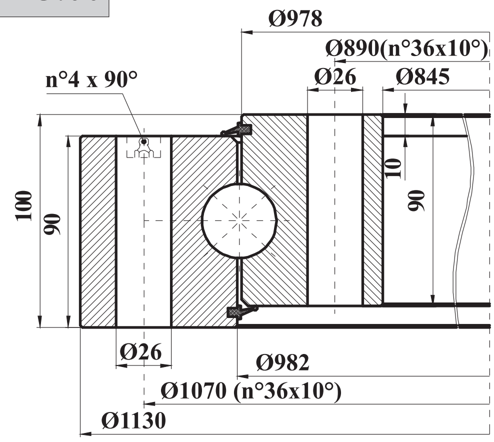
Features

Coa= 1505 kN Cr= 292 kN
Cor= 569 kN Mr=200 kN.m
Ca = 449 kN

kg 91

2CS.113.00

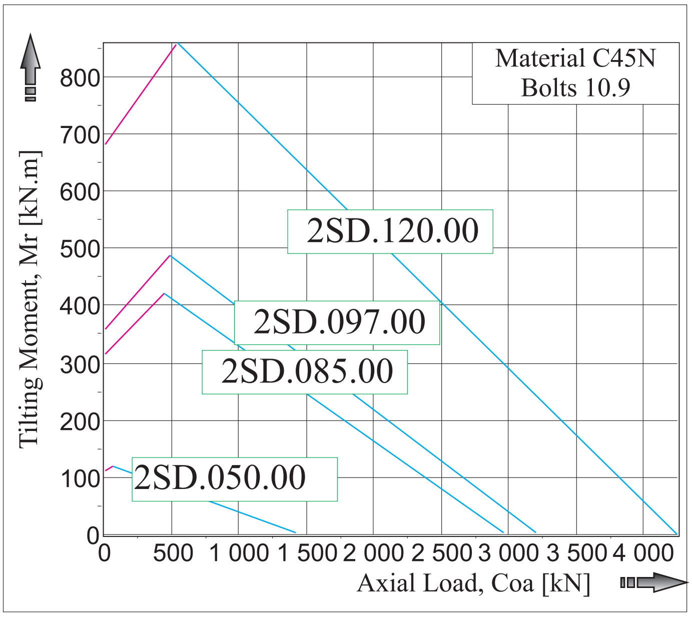
2CS.113.00



Features

Coa= 2512 kN Cr= 352 kN
Cor= 950 kN Mr=536 kN.m
Ca = 542 kN

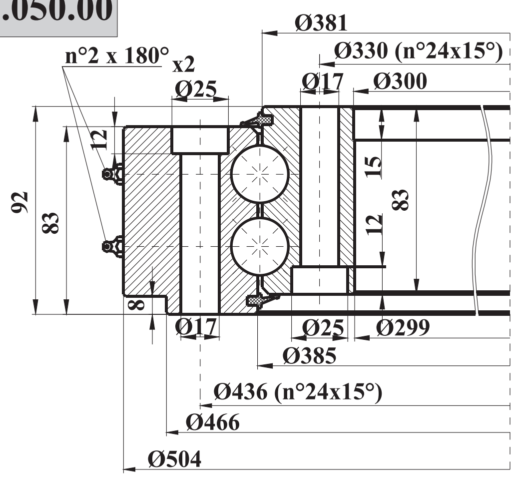
kg 271



Serie 2SD. 25

2SD.050.00

2SD.050.00



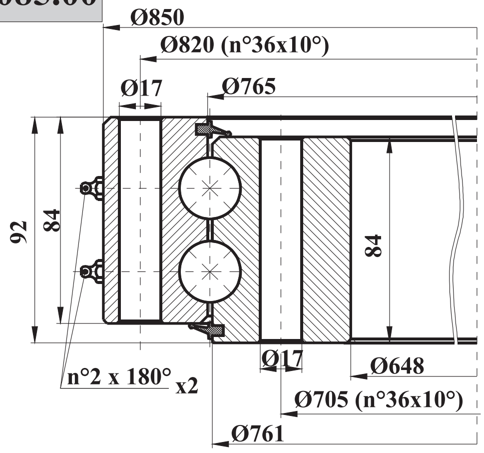
Features

Coa= 1459 kN Cr= 282 kN
Cor= 565 kN Mr=125 kN.m
Ca = 433 kN

kg 69

2SD.085.00

2SD.085.00



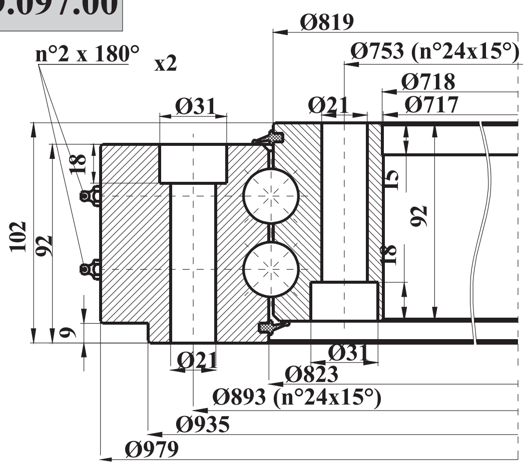
Features

Coa= 2979 kN Cr= 365 kN
Cor= 1154 kN Mr=496 kN.m
Ca = 561 kN

kg 140

2SD.097.00

2SD.097.00



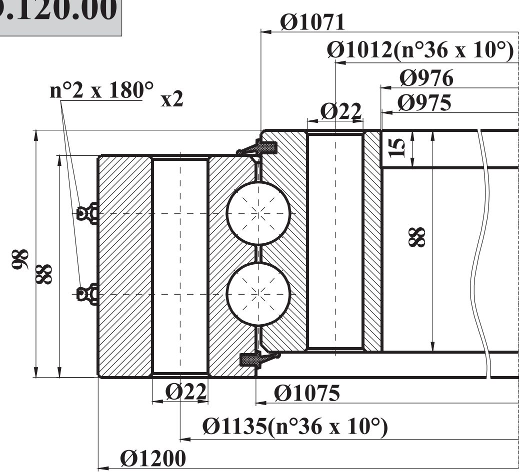
Features

Coa= 3226 kN Cr= 376 kN
Cor= 1250 kN Mr=577 kN.m
Ca = 579 kN

kg 222

2SD.120.00

2SD.120.00



Features

Coa= 4250 kN Cr= 415 kN
Cor= 1647 kN Mr= 987 kN.m
Ca = 640 kN

kg 234

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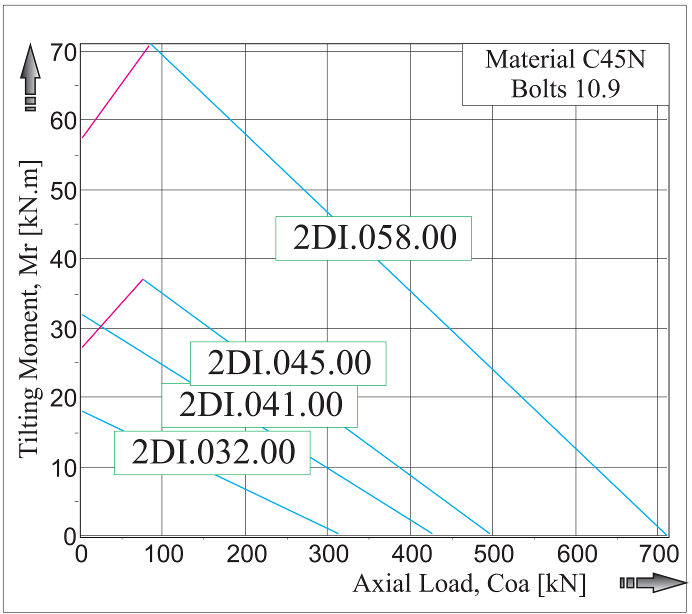
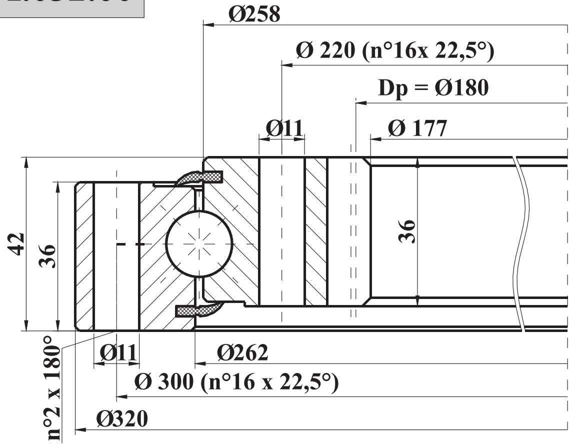
Serie I.DI. 16



2DI.032.00

2DI.032.00

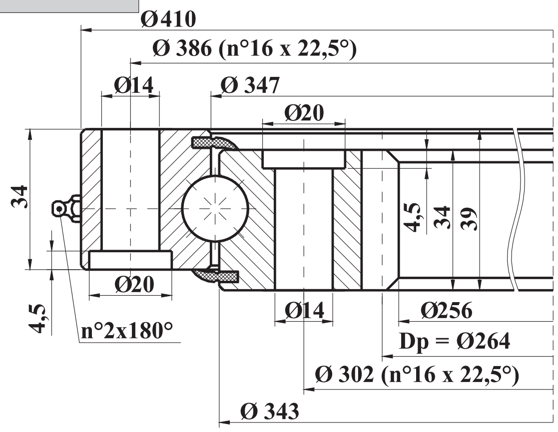


Features

Coa= 317 kN	Cr= 75 kN	Z= 45	xm= 2
Cor= 103 kN	Mr=18 kN.m	m= 4	km= 0.5
Ca = 116 kN		Ft= 15 kN	kg 13

2DI.041.00

2DI.041.00

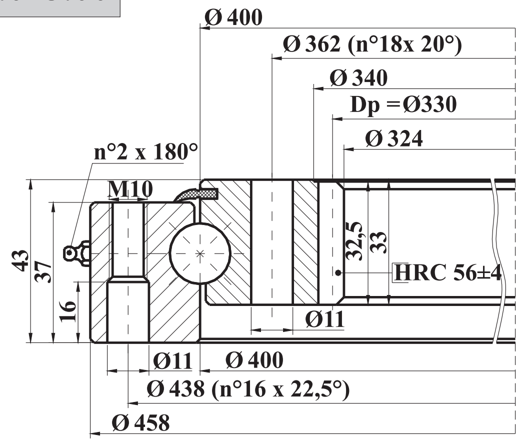


Features

Coa= 431 kN	Cr= 84 kN	Z= 66	xm= 0
Cor= 140 kN	Mr=32 kN.m	m= 4	km= 0
Ca = 130 kN		Ft= 14 kN	kg 24

2DI.045.00

2DI.045.00

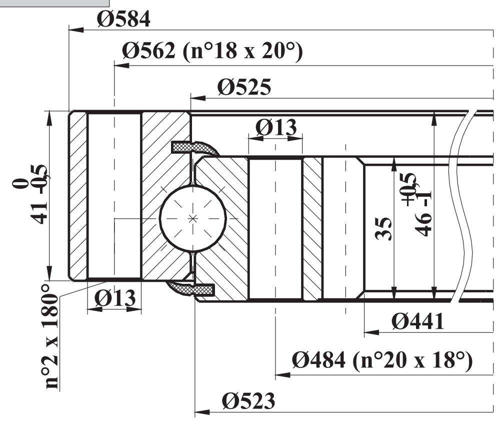


Features

Coa= 500 kN	Cr= 89 kN	Z= 110	xm= 0
Cor= 162 kN	Mr=44 kN.m	m= 3	km= 0
Ca = 137 kN		Ft = 10 kN	kg 19

2DI.058.00

2DI.058.00



Features

Coa= 711 kN	Cr= 99 kN	Z= 128	xm= 0
Cor= 187 kN	Mr=80 kN.m	m= 3.5	km= 0
Ca = 153 kN		Ft= 13 kN	kg 32

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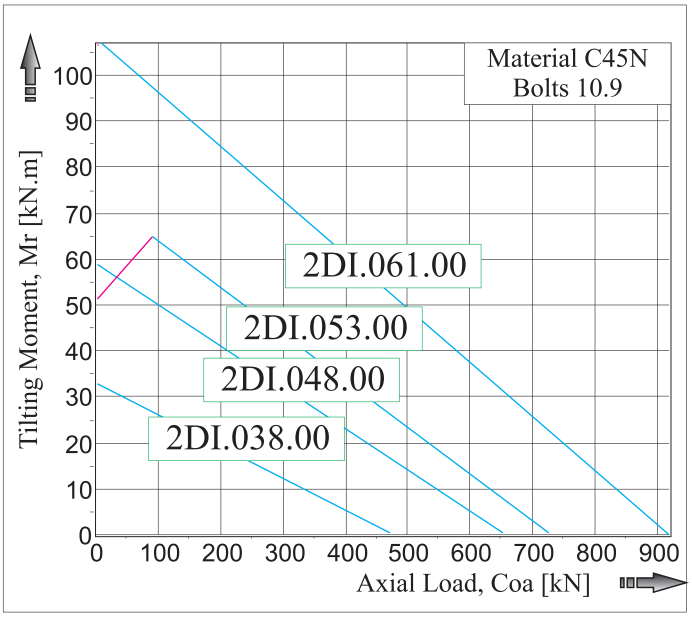
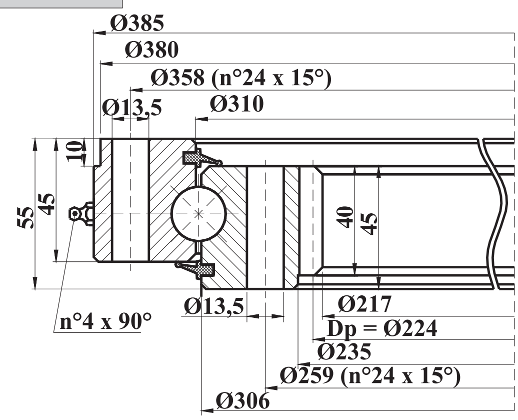


Serie I.DI. 20

2DI.038.00

2DI.038.00

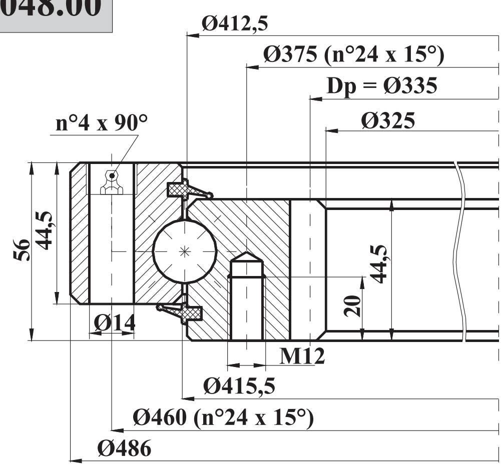


Features

Coa= 487 kN	Cr= 114 kN	Z= 56	xm= 0
Cor= 165 kN	Mr= 33 kN.m	m= 4	km= 0.5
Ca = 176 kN		Ft= 19 kN	kg 24

2DI.048.00

2DI.048.00

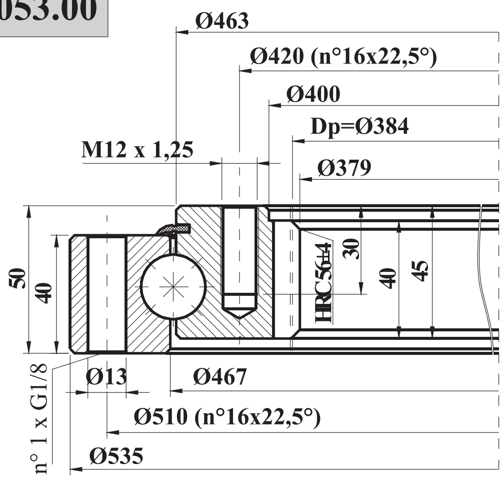


Features

Coa= 656 kN	Cr= 128 kN	Z= 67	xm= 0
Cor= 226 kN	Mr= 59 kN.m	m= 5	km= 0
Ca = 197 kN		Ft= 23 kN	kg 31

2DI.053.00

2DI.053.00

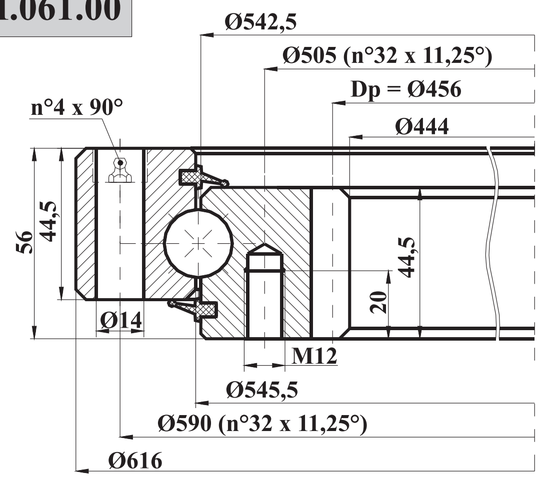


Features

Coa= 730 kN	Cr= 143 kN	Z= 96	xm= 1.5
Cor= 260 kN	Mr= 74 kN.m	m= 4	km= 0
Ca = 206 kN		Ft= 17 kN	kg 31

2DI.061.00

2DI.061.00



Features

Coa= 918 kN	Cr= 142 kN	Z= 76	xm= 0
Cor= 269 kN	Mr=108 kN.m	m= 8	km= 0
Ca = 218 kN		Ft= 37 kN	kg 43

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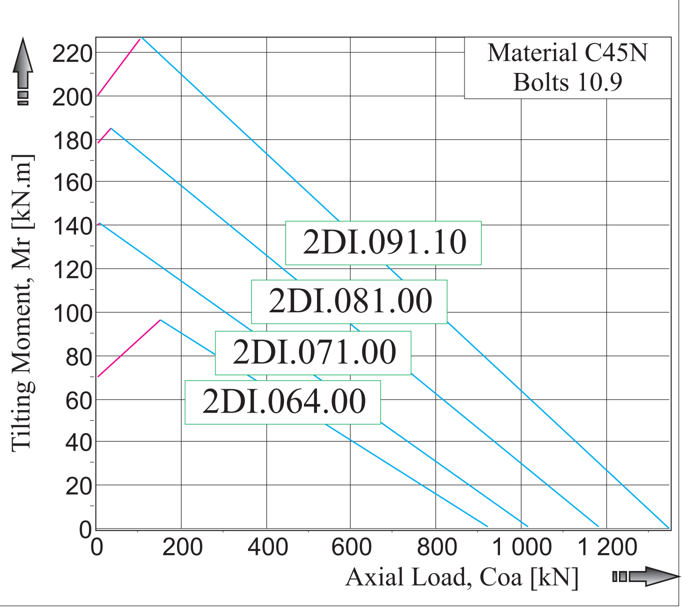
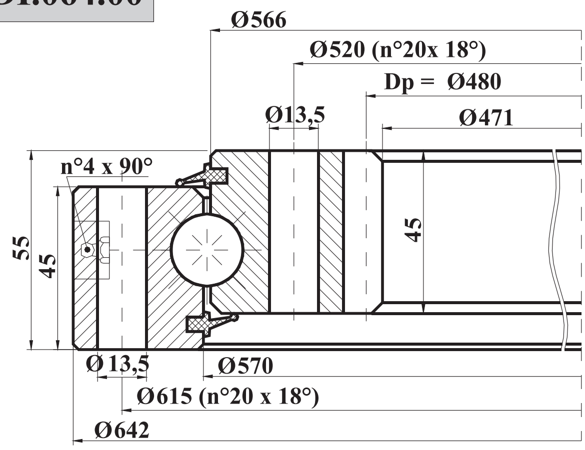
Start

Serie I.DI. 20



2DI.064.00

2DI.064.00

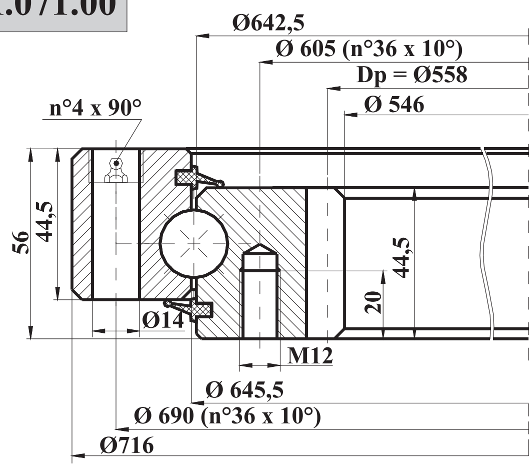


Features

Coa= 931 kN	Cr= 144 kN	Z= 96	xm= 0
Cor= 296 kN	Mr=115 kN.m	m= 5	km= 0.5
Ca = 221 kN		Ft= 23 kN	kg 47

2DI.071.00

2DI.071.00

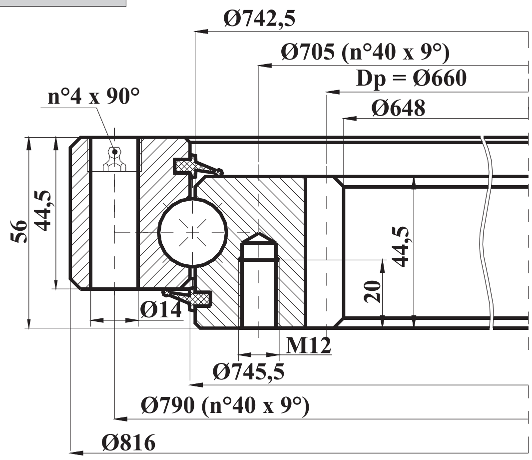


Features

Coa= 1022 kN	Cr= 151 kN	Z= 93	xm= 0
Cor= 364 kN	Mr=143 kN.m	m= 6	km= 0
Ca = 233 kN		F = 28 kN	kg 50

2DI.081.00

2DI.081.00

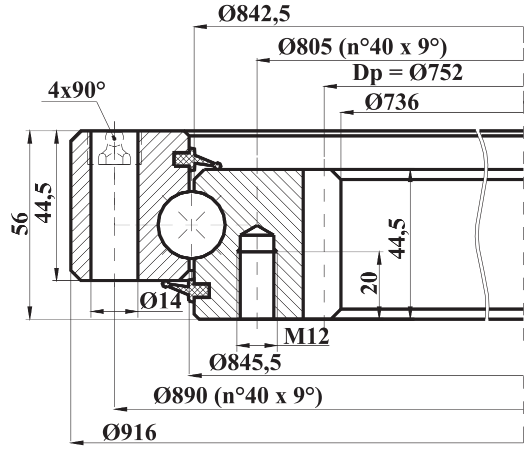


Features

Coa= 1186 kN	Cr= 160 kN	Z= 110	xm= 0
Cor= 423 kN	Mr=191 kN.m	m= 6	km= 0
Ca = 246 kN		Ft= 28 kN	kg 59

2DI.091.10

2DI.091.10



Features

Coa= 1349 kN	Cr= 167 kN	Z= 94	xm= 0
Cor= 481 kN	Mr=246 kN.m	m= 8	km= 0
Ca = 258 kN		Ft= 37 kN	kg 69

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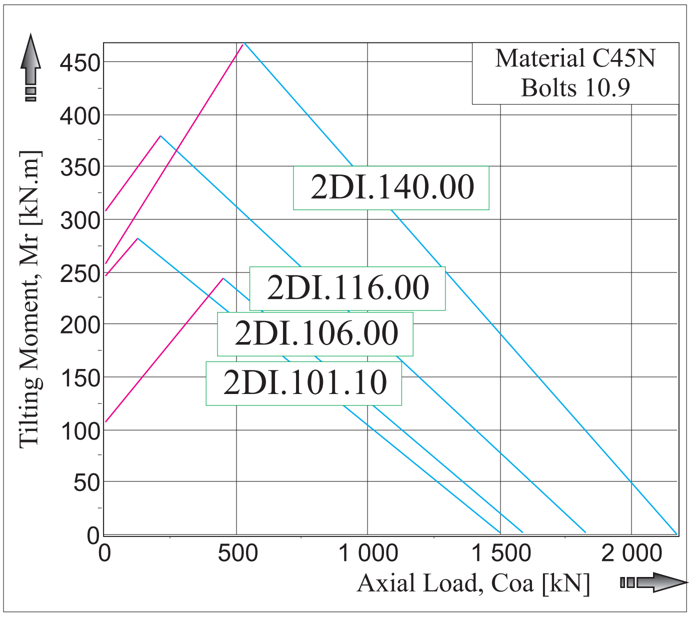
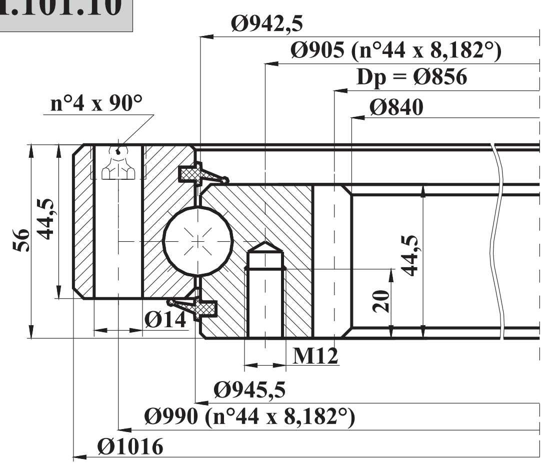


Serie I.DI. 20

2DI.101.10

2DI.101.10

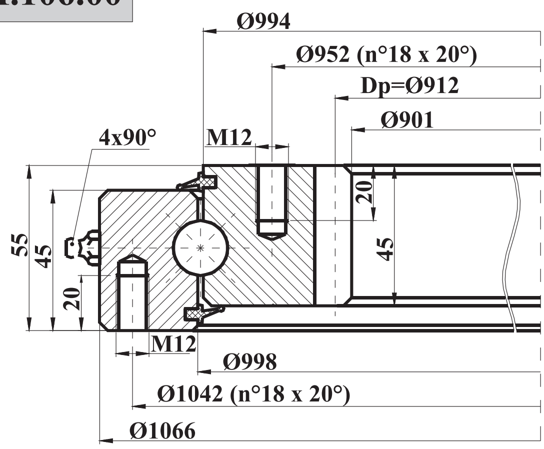


Features

Coa= 1513 kN	Cr= 174 kN	Z= 107	xm= 0
Cor= 540 kN	Mr=308 kN.m	m= 8	km= 0
Ca = 269 kN		Ft= 37 kN	kg 77

2DI.106.00

2DI.106.00

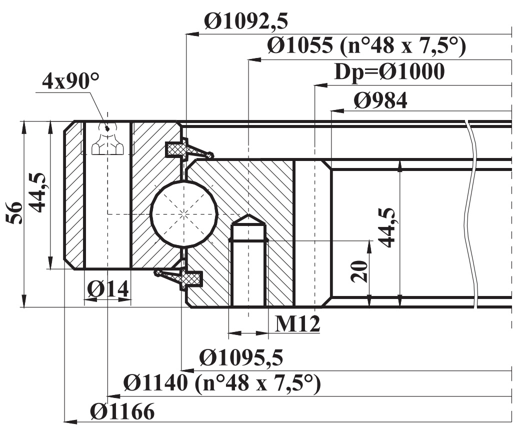


Features

Coa= 1595 kN	Cr= 178 kN	Z= 152	xm= 0
Cor= 569 kN	Mr=342 kN.m	m= 6	km= 0.5
Ca = 274 kN		Ft= 28 kN	kg 82

2DI.116.00

2DI.116.00

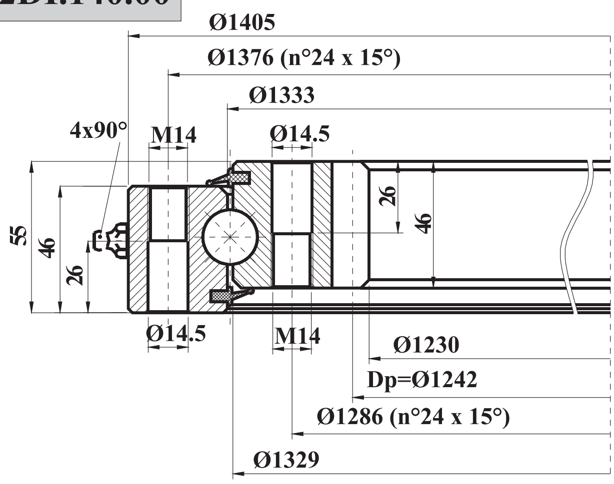


Features

Coa= 1834 kN	Cr= 184 kN	Z= 125	xm= 0
Cor= 583 kN	Mr=431 kN.m	m= 8	km= 0
Ca = 284 kN		Ft= 37 kN	kg 91

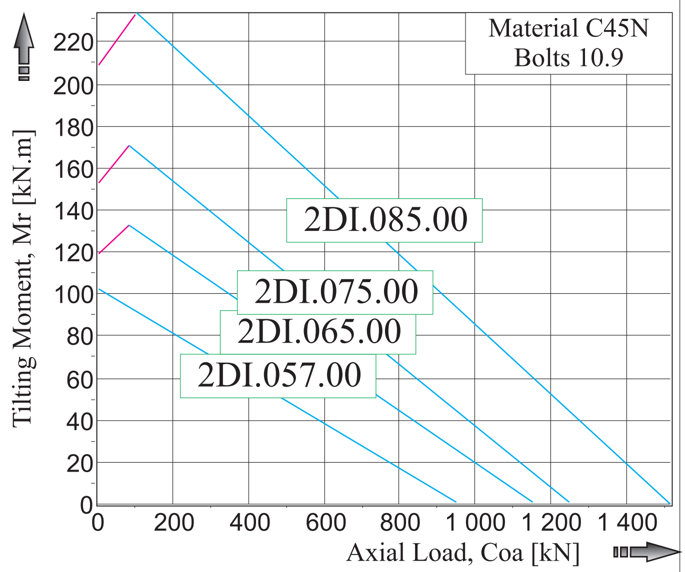
2DI.140.00

2DI.140.00



Features

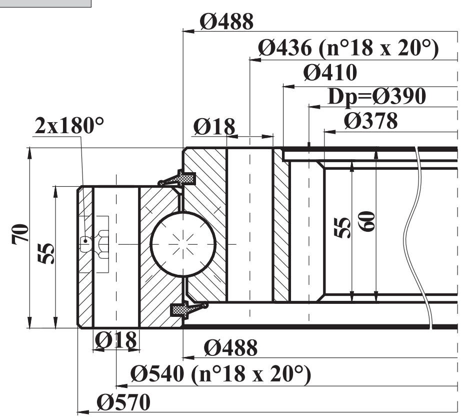
Coa= 2172 kN	Cr= 198 kN	Z= 207	xm= 0
Cor= 750 kN	Mr=620 kN.m	m= 6	km= 0
Ca = 305 kN		Ft= 29 kN	kg 104



Serie I.DI. 25

2DI.057.00

2DI.057.00

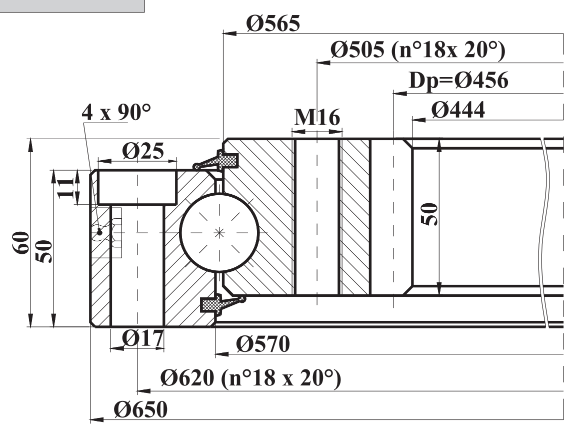


Features

Coa= 958 kN	Cr= 191 kN	Z= 65	xm= 0
Cor= 356 kN	Mr=103 kN.m	m= 6	km= 0
Ca = 293 kN		Ft= 34 kN	kg 54

2DI.065.00

2DI.065.00

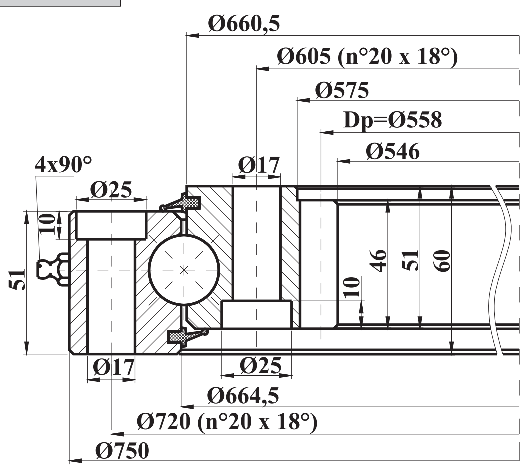


Features

Coa= 1160 kN	Cr= 202 kN	Z= 76	xm= 0
Cor= 394 kN	Mr=144 kN.m	m= 6	km= 0
Ca = 310 kN		Ft= 31 kN	kg 51

2DI.075.00

2DI.075.00

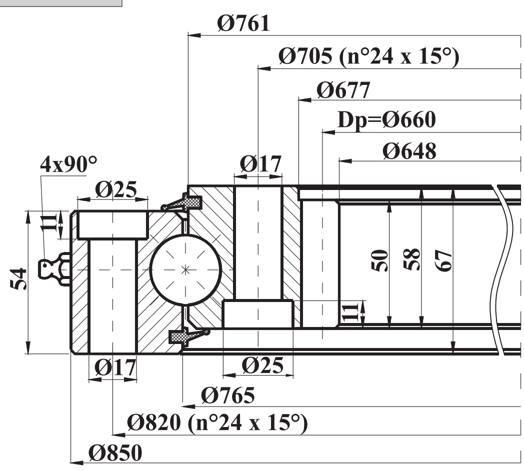


Features

Coa= 1256 kN	Cr= 214 kN	Z= 93	xm= 0
Cor= 531 kN	Mr=183 kN.m	m= 6	km= 0
Ca = 329 kN		Ft= 29 kN	kg 68

2DI.085.00

2DI.085.00



Features

Coa= 1515 kN	Cr= 224 kN	Z= 110	xm= 0
Cor= 564 kN	Mr=252 kN.m	m= 6	km= 0
Ca = 346 kN		Ft= 31 kN	kg 85

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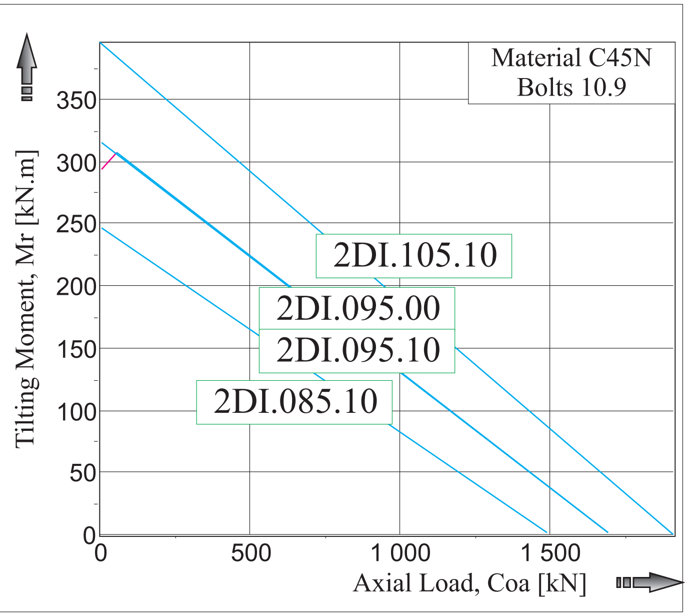
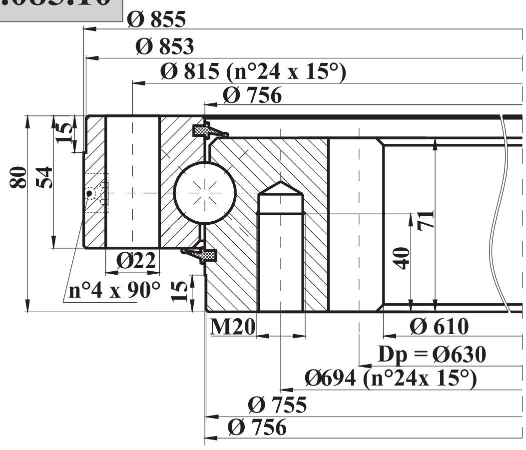


Serie I.DI. 25

2DI.085.10

2DI.085.10

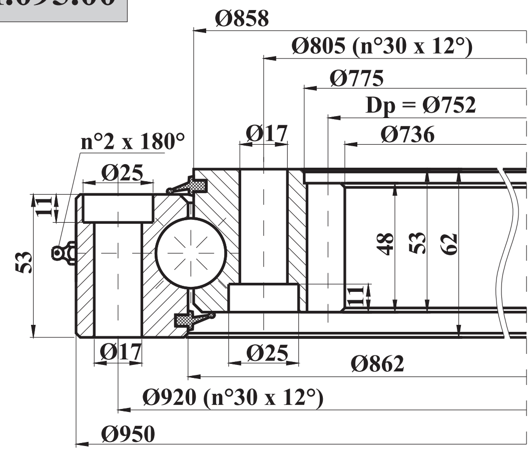


Features

Coa= 1497 kN	Cr= 223 kN	Z= 63	xm= 0
Cor= 557 kN	Mr=247 kN.m	m= 10	km= 0
Ca = 344 kN		Ft= 74 kN	kg 119

2DI.095.00

2DI.095.00

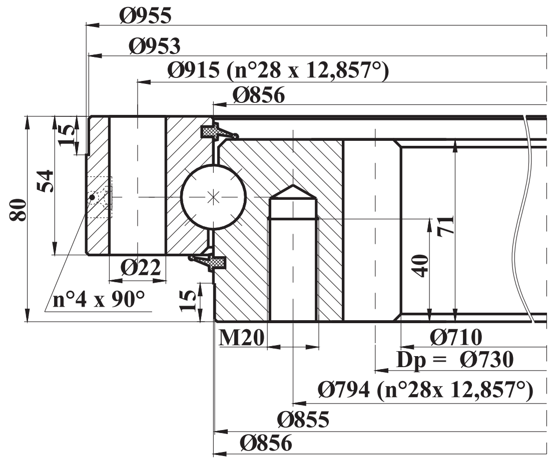


Features

Coa= 1703 kN	Cr= 235 kN	Z= 94	xm= 0
Cor= 642 kN	Mr=318 kN.m	m= 8	km= 0
Ca = 361 kN		Ft= 40 kN	kg 95

2DI.095.10

2DI.095.10

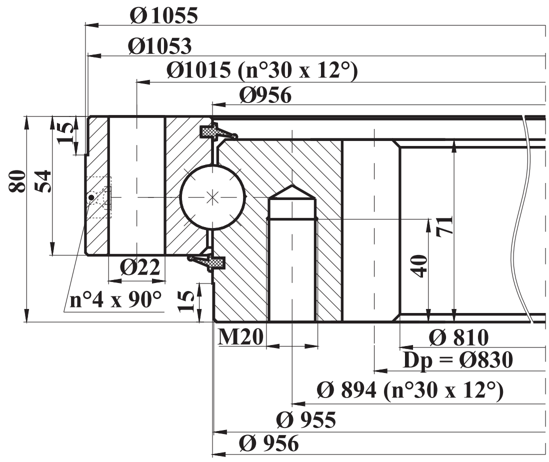


Features

Coa= 1703 kN	Cr= 235 kN	Z= 73	xm= 0
Cor= 642 kN	Mr=317 kN.m	m= 10	km= 0
Ca = 362 kN		Ft= 74 kN	kg 137

2DI.105.10

2DI.105.10



Features

Coa= 1910 kN	Cr= 244 kN	Z= 83	xm= 0
Cor= 711 kN	Mr=396 kN.m	m= 10	km= 0
Ca = 376 kN		Ft= 74 kN	kg 149

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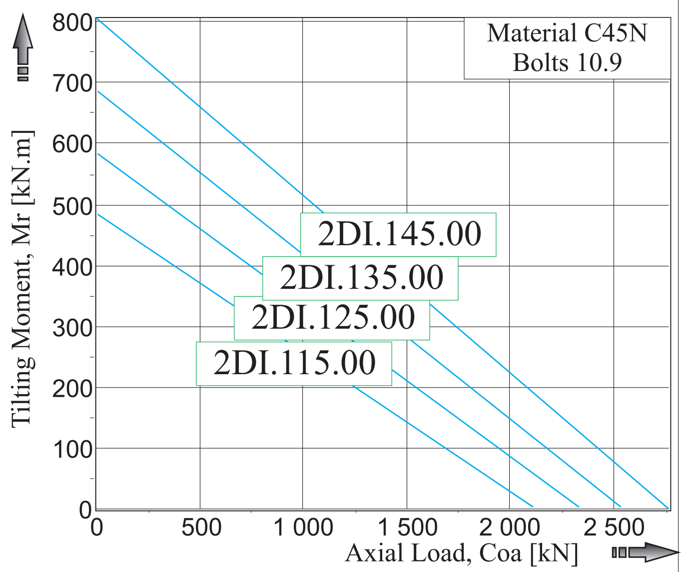
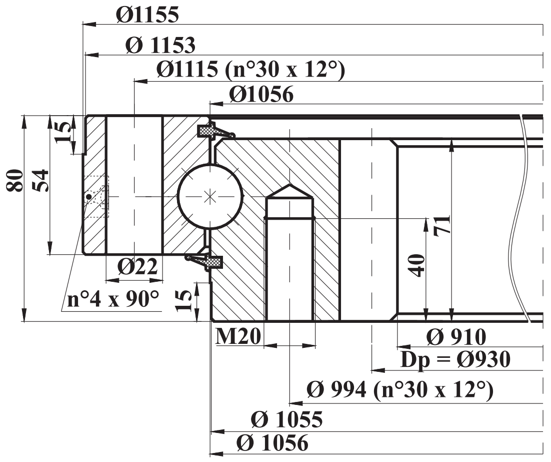
Serie I.DI. 25



2DI.115.00

2DI.115.00

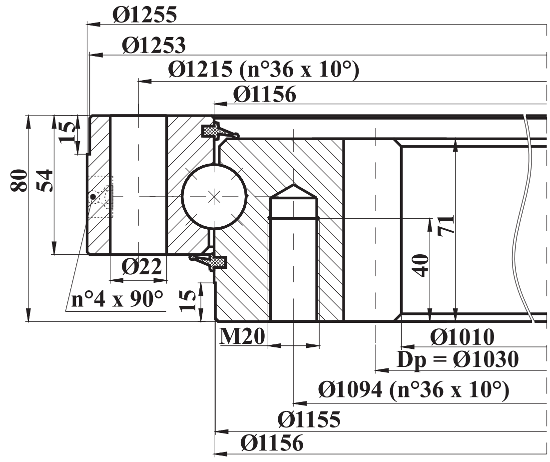


Features

Coa= 2125 kN	Cr= 254 kN	Z= 93	xm= 0
Cor= 791 kN	Mr=485 kN.m	m= 10	km= 0
Ca = 391 kN		Ft= 74 kN	kg 165

2DI.125.00

2DI.125.00

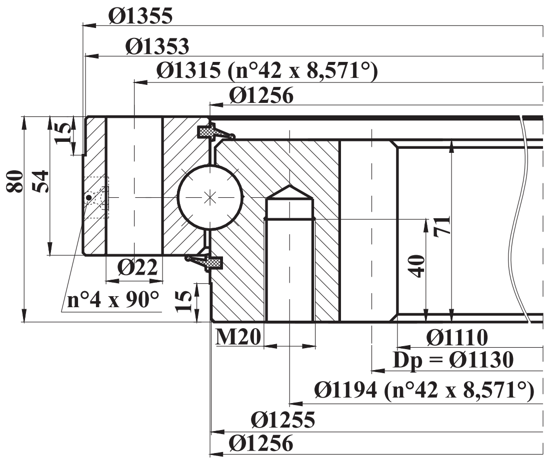


Features

Coa= 2348 kN	Cr= 262 kN	Z= 103	xm= 0
Cor= 851 kN	Mr=586 kN.m	m= 10	km= 0
Ca = 404 kN		Ft= 74 kN	kg 180

2DI.135.00

2DI.135.00

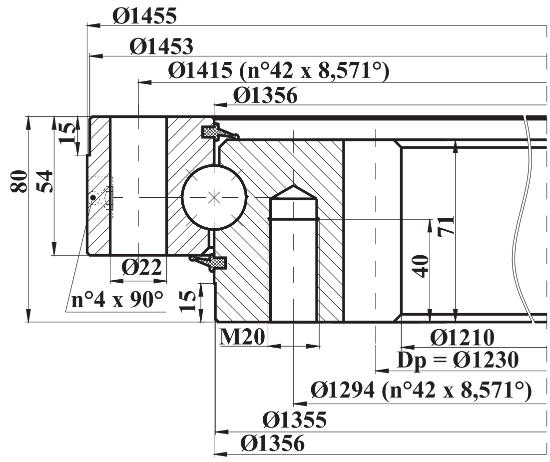


Features

Coa= 2548 kN	Cr= 270 kN	Z= 113	xm= 0
Cor= 924 kN	Mr=690 kN.m	m= 10	km= 0
Ca = 416 kN		Ft= 74 kN	kg 197

2DI.145.00

2DI.145.00



Features

Coa= 2766 kN	Cr= 278 kN	Z= 123	xm= 0
Cor= 1003 kN	Mr=807 kN.m	m= 10	km= 0
Ca = 429 kN		Ft= 74 kN	kg 214

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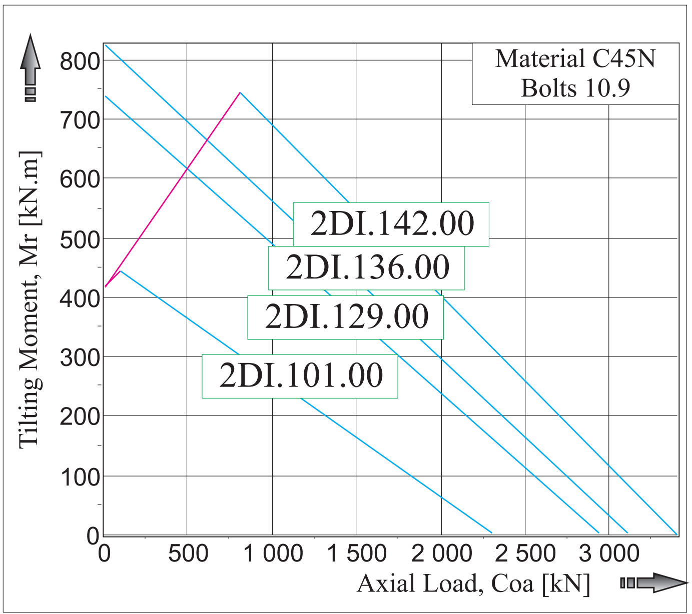
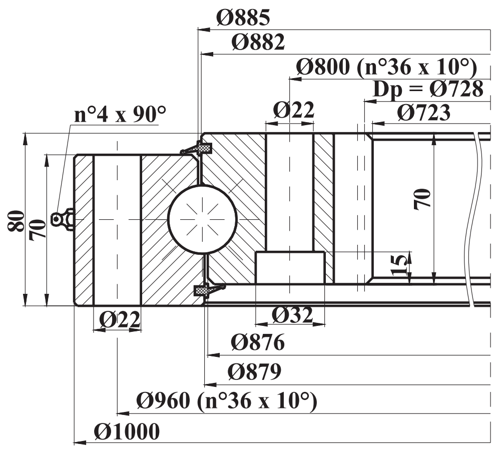


Serie I.DI. 32

2DI.101.00

2DI.101.00

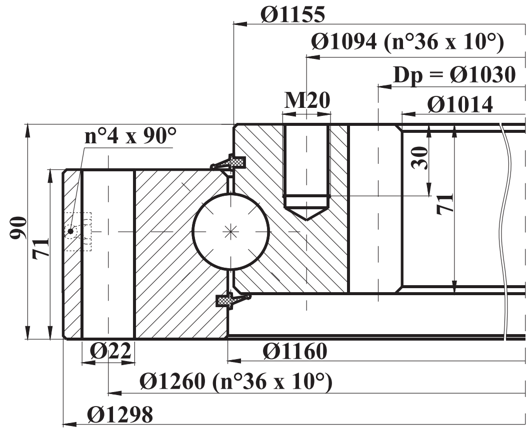


Features

Coa= 2319 kN	Cr= 342 kN	Z= 99	xm= 4
Cor= 895 kN	Mr=466 kN.m	m= 8	km= 1.5
Ca = 527 kN		Ft= 51 kN	kg 180

2DI.129.00

2DI.129.00

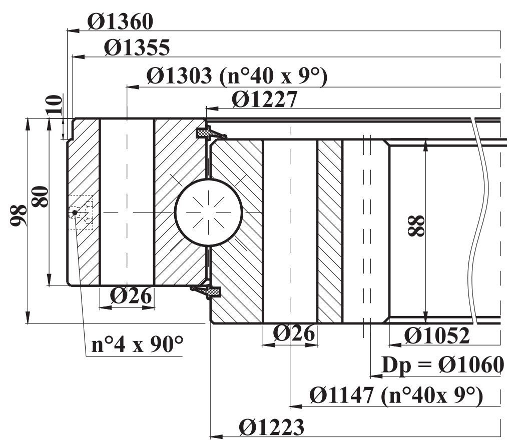


Features

Coa= 2946 kN	Cr= 374 kN	Z= 103	xm= 0
Cor= 1138 kN	Mr=741 kN.m	m= 10	km= 2
Ca = 575 kN		Ft= 74 kN	kg 256

2DI.136.00

2DI.136.00

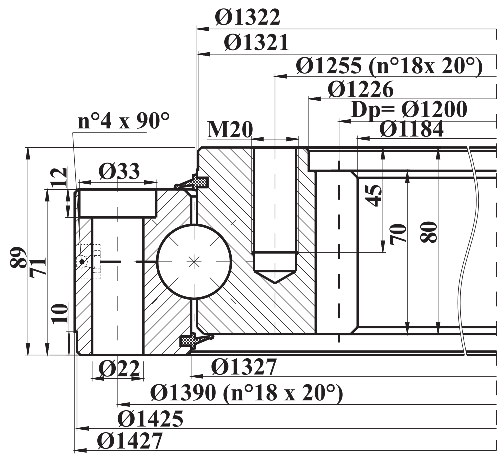


Features

Coa= 3117 kN	Cr= 381 kN	Z= 106	xm= 5
Cor= 1204 kN	Mr=828 kN.m	m= 10	km= 2
Ca = 587 kN		Ft= 92 kN	kg 321

2DI.142.00

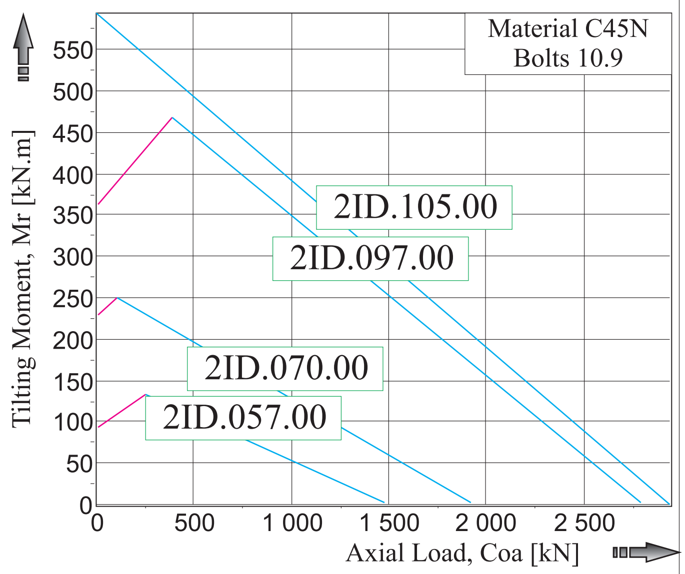
2DI.142.00



Features

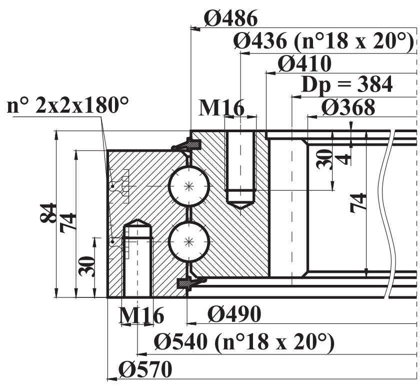
Coa= 3402 kN	Cr= 394 kN	Z= 150	xm= 0
Cor= 1314 kN	Mr= 976 kN.m	m= 8	km= 0
Ca = 607 kN		Ft= 58 kN	kg 260

Serie 2I.DI. 20



2ID.057.00

2ID.057.00

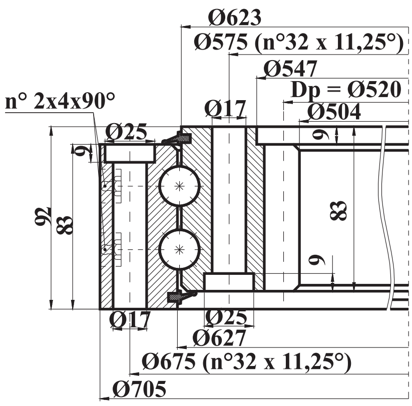


Features

Coa= 1499 kN	Cr= 221 kN	Z= 48	xm= 0
Cor= 562 kN	Mr=160 kN.m	m= 8	km= 0
Ca = 340 kN		Ft= 58 kN	77

2ID.070.00

2ID.070.00

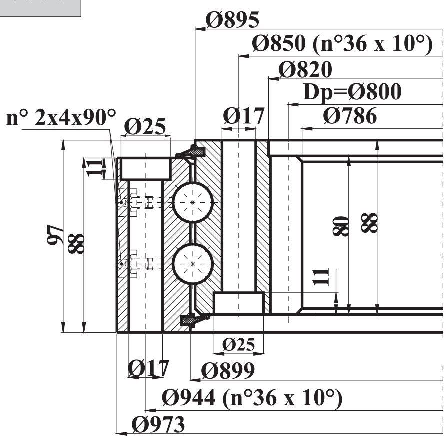


Features

Coa= 1935 kN	Cr= 242 kN	Z= 65	xm= 0
Cor= 725 kN	Mr=263 kN.m	m= 8	km= 0
Ca = 373 kN		Ft= 60 kN	96

2ID.097.00

2ID.097.00

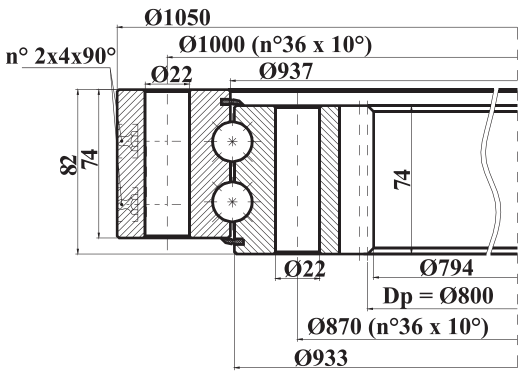


Features

Coa= 2806 kN	Cr= 277 kN	Z= 100	xm= 0
Cor= 1052 kN	Mr=544 kN.m	m= 8	km= 1
Ca = 427 kN		Ft= 67 kN	141

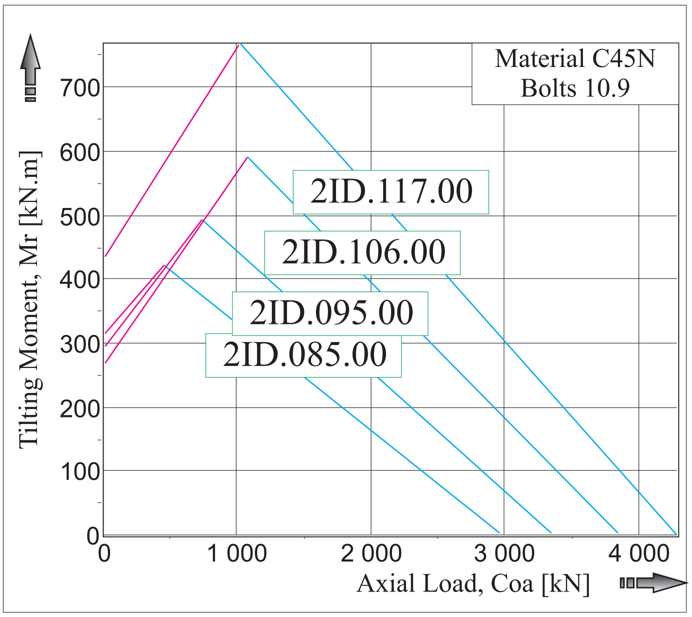
2ID.105.00

2ID.105.00



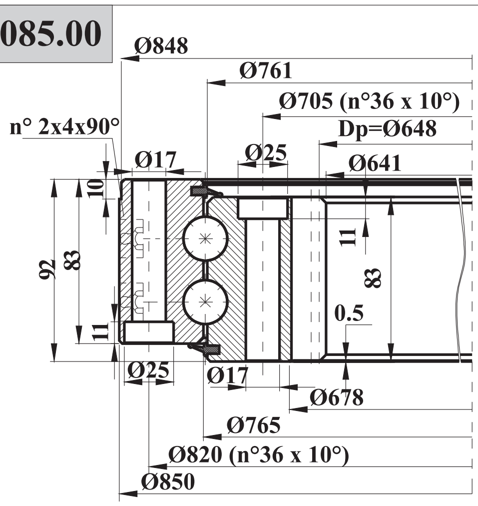
Features

Coa= 2943 kN	Cr= 283 kN	Z= 100	xm= 4
Cor= 1103 kN	Mr=694 kN.m	m= 8	km= 1
Ca = 436 kN		Ft= 62 kN	168



Serie 2I.DI. 25

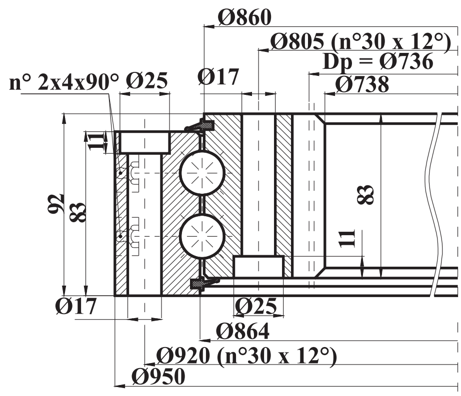
2ID.085.00



Features

Coa= 2979 kN	Cr= 356 kN	Z= 108	xm= 4
Cor= 1154 kN	Mr=496 kN.m	m= 6	km= 0.5
Ca = 561 kN		Ft= 52 kN	kg 128

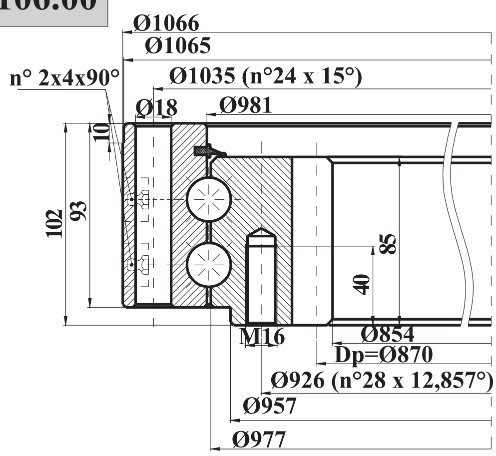
2ID.095.00



Features

Coa= 3386 kN	Cr= 381 kN	Z= 92	xm= 8
Cor= 1305 kN	Mr=631 kN.m	m= 8	km= 1
Ca = 586 kN		Ft= 69 kN	kg 158

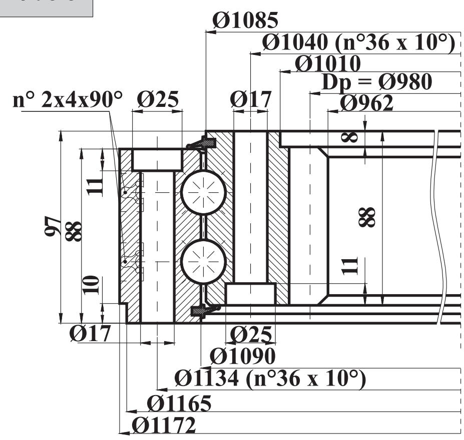
2ID.106.00



Features

Coa= 3862 kN	Cr= 401 kN	Z= 87	xm= 0
Cor= 1496 kN	Mr=820 kN.m	m= 10	km= 2
Ca = 618 kN		Ft= 88 kN	kg 206

2ID.117.00



Features

Coa= 4286 kN	Cr= 416 kN	Z= 98	xm= 0
Cor= 1660 kN	Mr=1008 kN.m	m= 10	km= 1
Ca = 641 kN		Ft= 83 kN	kg 193

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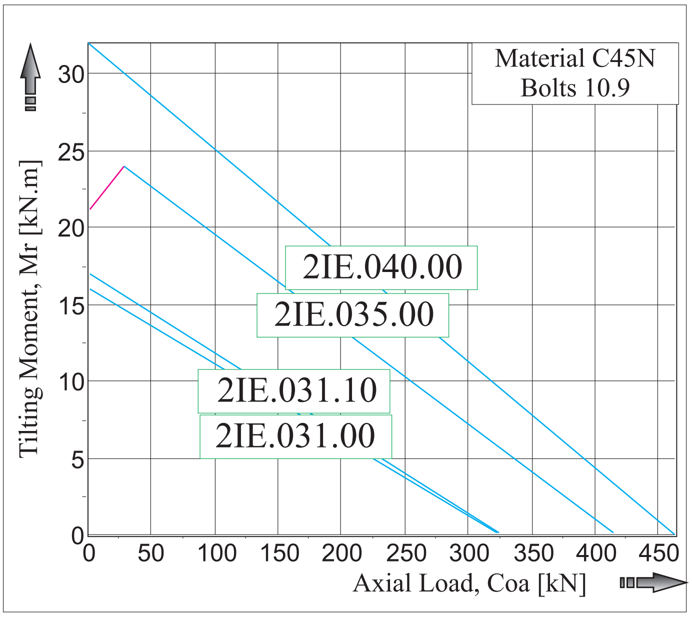
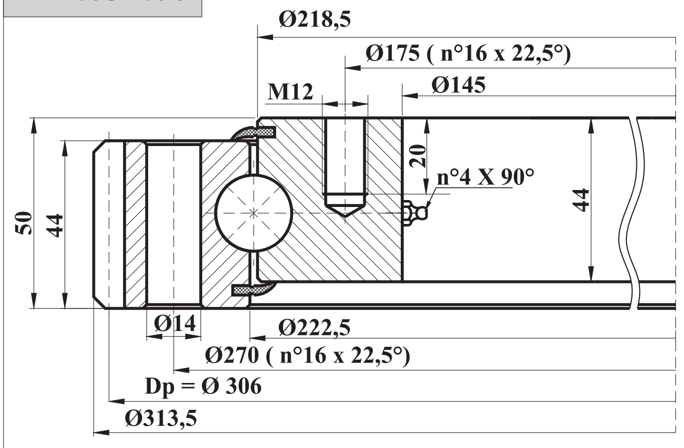


Serie I.DE. 20

2IE.031.00

2IE.031.00

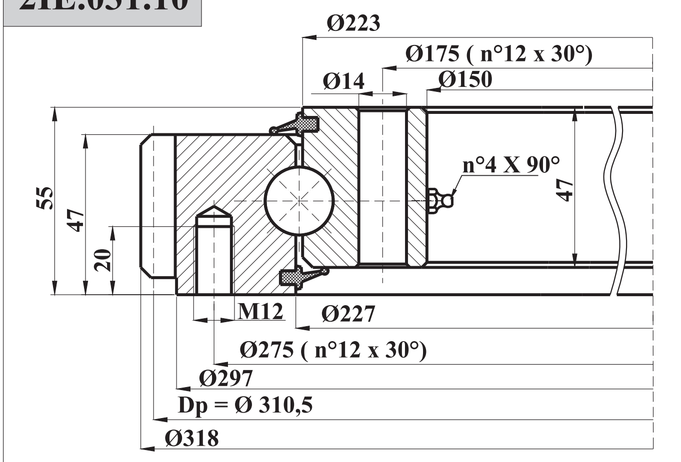


Features

Coa= 325 kN	Cr= 101 kN	Z= 68	xm= 0
Cor= 122 kN	Mr= 16 kN.m	m= 4.5	km= 0.75
Ca = 154 kN		Ft= 21 kN	kg 18

2IE.031.10

2IE.031.10

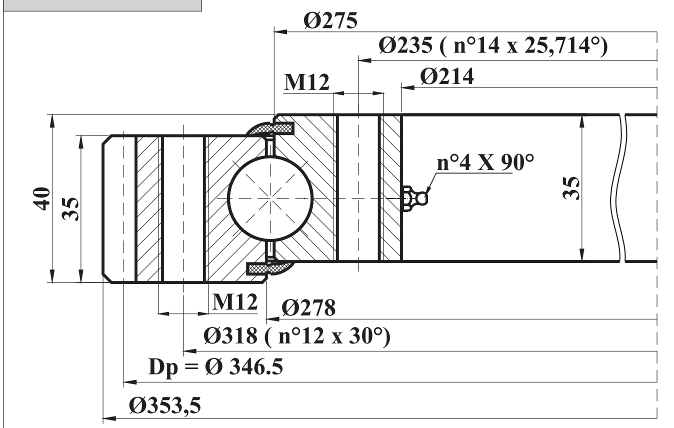


Features

Coa= 362 kN	Cr= 100 kN	Z= 69	xm= 0
Cor= 122 kN	Mr= 17 kN.m	m= 4.5	km= 0.75
Ca = 153 kN		Ft= 20 kN	kg 20

2IE.035.00

2IE.035.00

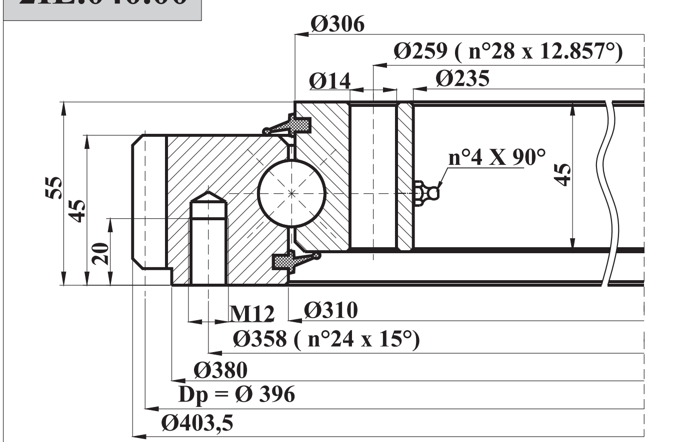


Features

Coa= 417 kN	Cr= 110 kN	Z= 99	xm= 0
Cor= 166 kN	Mr= 26 kN.m	m= 3.5	km= 0
Ca = 169 kN		Ft= 13 kN	kg 21

2IE.040.00

2IE.040.00



Features

Coa= 463 kN	Cr= 114 kN	Z= 88	xm= 0
Cor= 174 kN	Mr= 32 kN.m	m= 4.5	km= 0.75
Ca = 176 kN		Ft= 20 kN	kg 23

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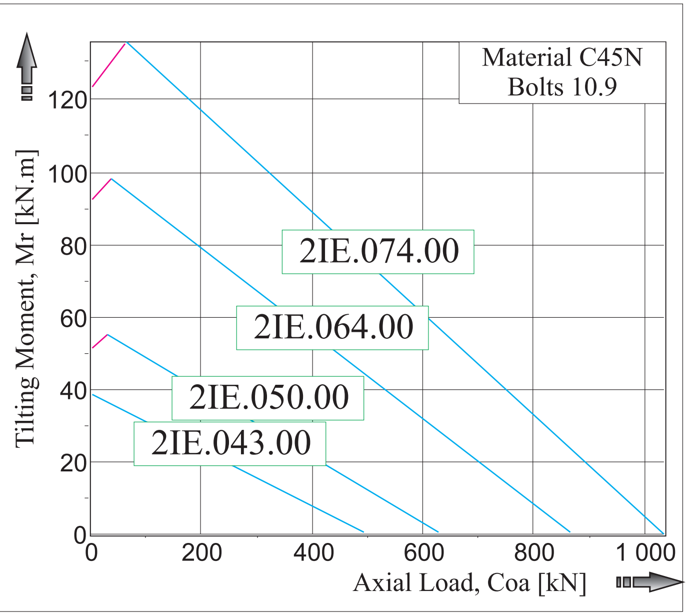
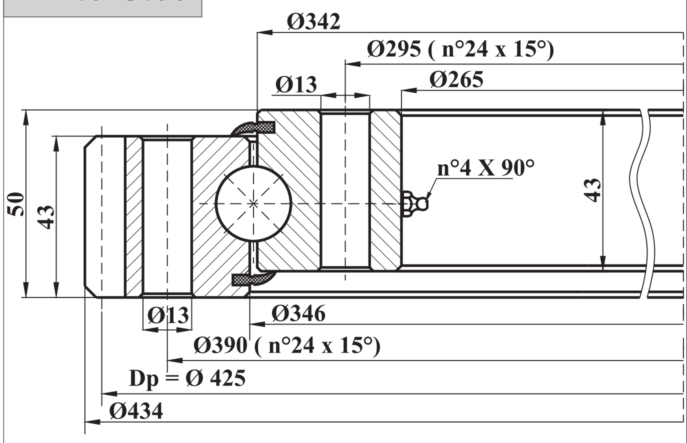


Serie I.DE. 20

2IE.043.00

2IE.043.00

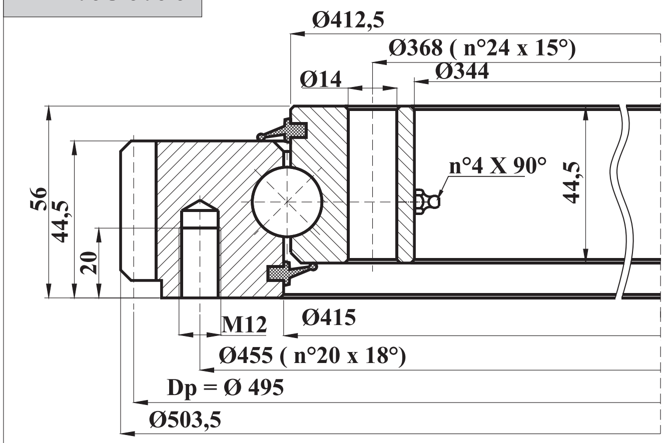


Features

Coa= 503 kN	Cr= 119 kN	Z= 85	xm= 0
Cor= 204 kN	Mr= 39 kN.m	m= 5	km= 0.5
Ca = 183 kN		Ft= 23 kN	kg 30

2IE.050.00

2IE.050.00

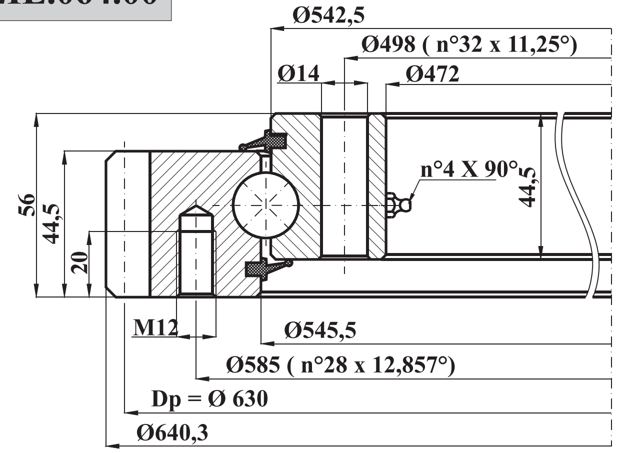


Features

Coa= 635 kN	Cr= 128 kN	Z= 99	xm= 0
Cor= 238 kN	Mr= 58 kN.m	m= 5	km= 0.85
Ca = 197 kN		Ft= 22 kN	kg 31

2IE.064.00

2IE.064.00

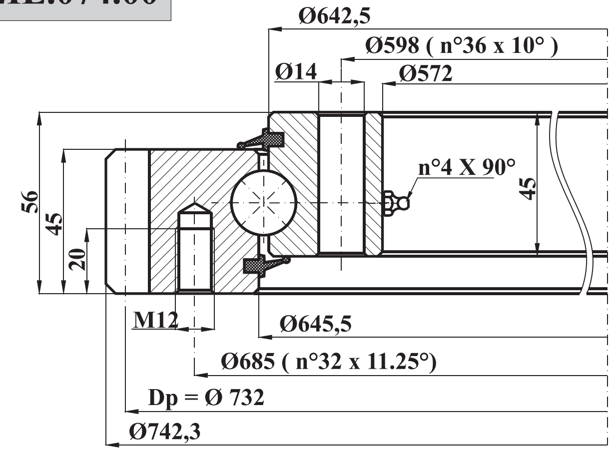


Features

Coa= 869 kN	Cr= 142 kN	Z= 105	xm= 0
Cor= 300 kN	Mr=103 kN.m	m= 6	km= 0.85
Ca = 218 kN		Ft= 29 kN	kg 42

2IE.074.00

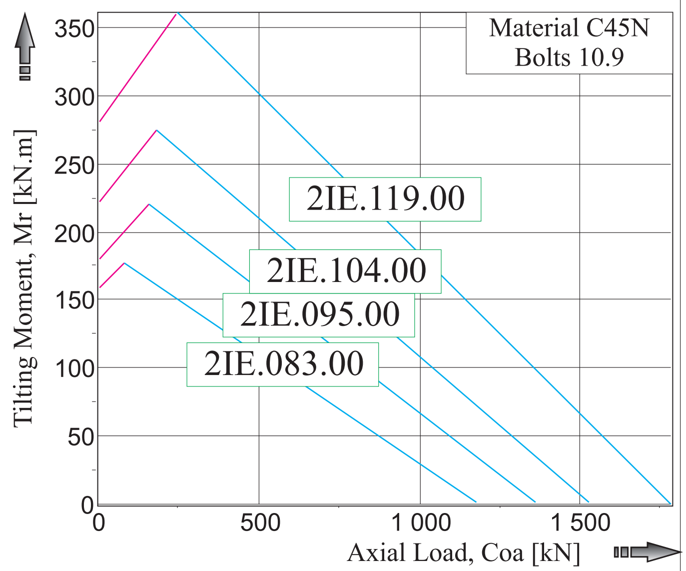
2IE.074.00



Features

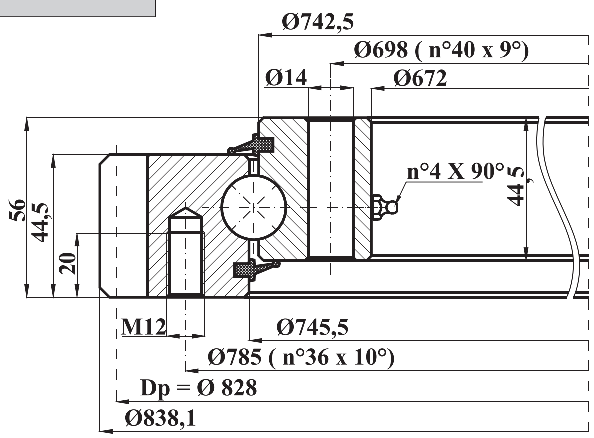
Coa= 1035 kN	Cr= 151 kN	Z= 122	xm= 0
Cor= 357 kN	Mr=145 kN.m	m= 6	km= 0.85
Ca = 233 kN		Ft= 29 kN	kg 52

Serie I.DE. 20



2IE.083.00

2IE.083.00

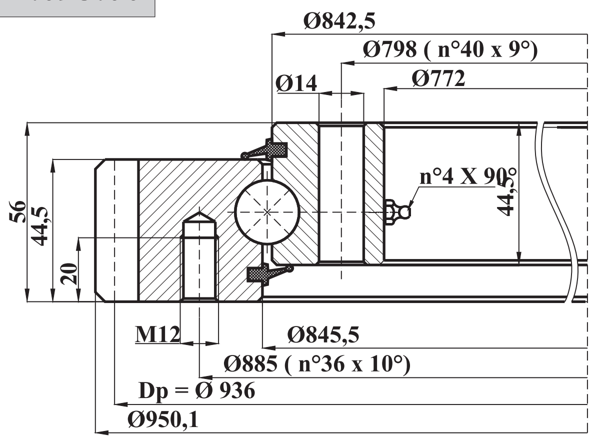


Features

Coa= 1186 kN	Cr= 160 kN	Z= 138	xm= 0
Cor= 423 kN	Mr=191 kN.m	m= 6	km= 0.95
Ca = 246 kN		F = 29 kN	kg 60

2IE.095.00

2IE.095.00

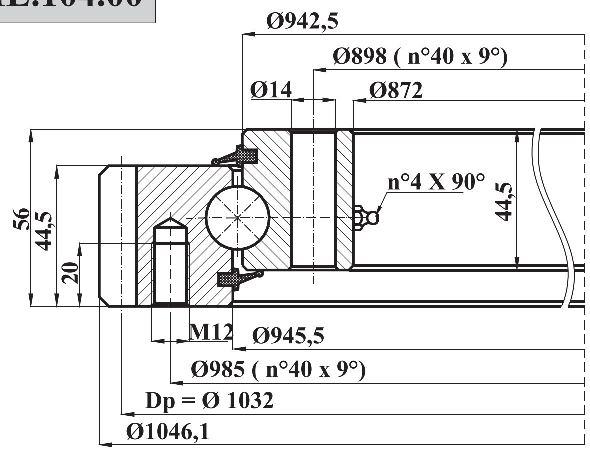


Features

Coa= 1366 kN	Cr= 167 kN	Z= 117	xm= 0
Cor= 472 kN	Mr=249 kN.m	m= 8	km= 0.95
Ca = 258 kN		Ft= 39 kN	kg 72

2IE.104.00

2IE.104.00

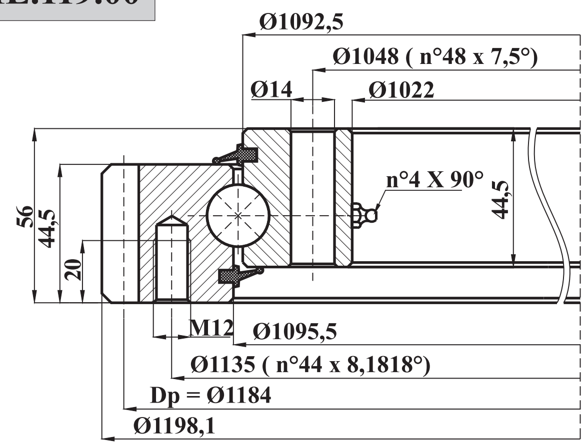


Features

Coa= 1532 kN	Cr= 174 kN	Z= 129	xm= 0
Cor= 529 kN	Mr=312 kN.m	m= 8	km= 0.95
Ca = 269 kN		Ft= 39 kN	kg 80

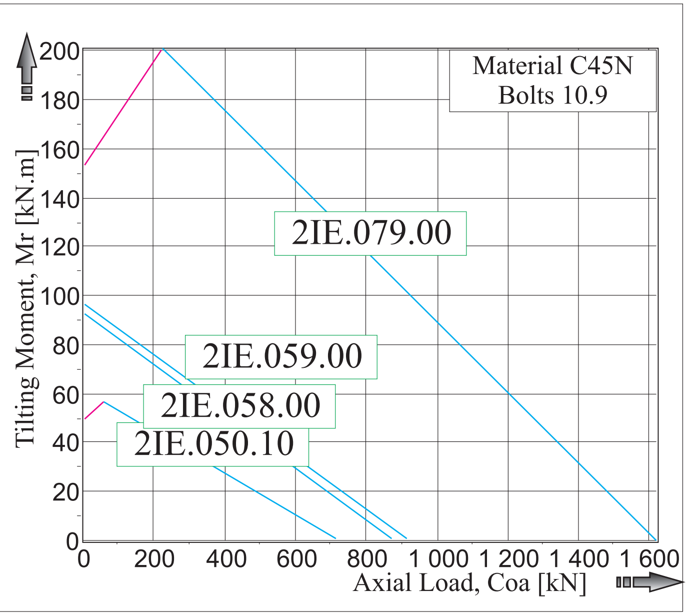
2IE.119.00

2IE.119.00



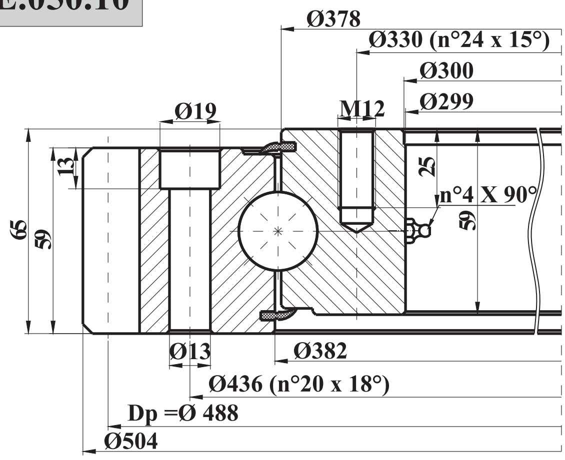
Features

Coa= 1781 kN	Cr= 184 kN	Z= 148	xm= 0
Cor= 615 kN	Mr=418 kN.m	m= 8	km= 0.95
Ca = 284 kN		Ft= 39 kN	kg 94



Serie I.DE. 25

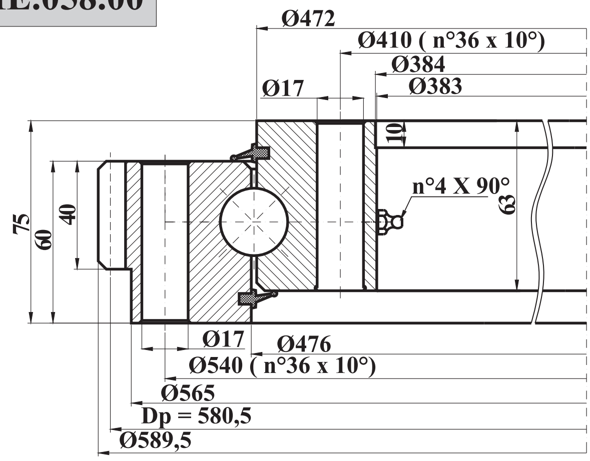
2IE.050.10



Features

Coa= 725 kN	Cr= 171 kN	Z= 61	xm= 0
Cor= 270 kN	Mr= 62 kN.m	m= 8	km= 0
Ca = 263 kN		Ft= 51 kN	kg 49

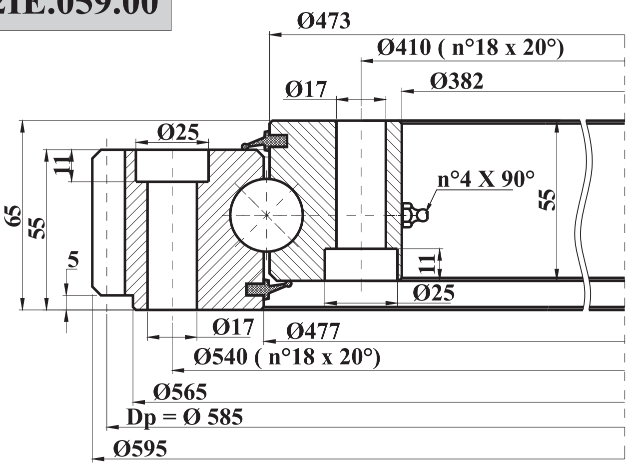
2IE.058.00



Features

Coa= 879 kN	Cr= 188 kN	Z= 129	xm= 0
Cor= 365 kN	Mr= 93 kN.m	m= 4.5	km= 0
Ca = 288 kN		Ft= 20 kN	kg 62

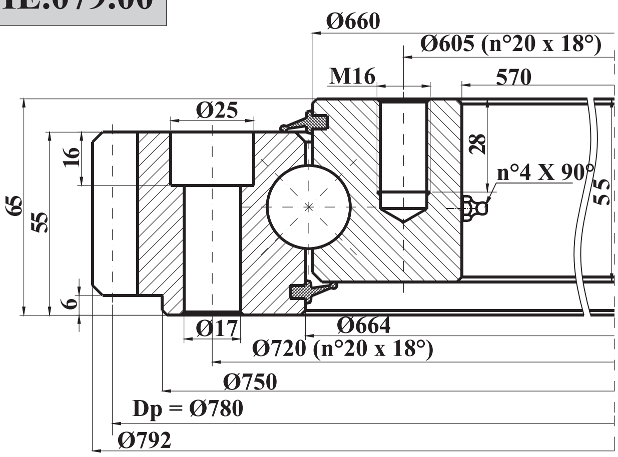
2IE.059.00



Features

Coa= 922 kN	Cr= 187 kN	Z= 117	xm= 0
Cor= 343 kN	Mr= 97 kN.m	m= 5	km= 0
Ca = 288 kN		Ft= 27 kN	kg 58

2IE.079.00



Features

Coa= 1619 kN	Cr= 240 kN	Z= 130	xm= 0
Cor= 569 kN	Mr= 234 kN.m	m= 6	km= 0
Ca = 369 kN		Ft= 32 kN	kg 92

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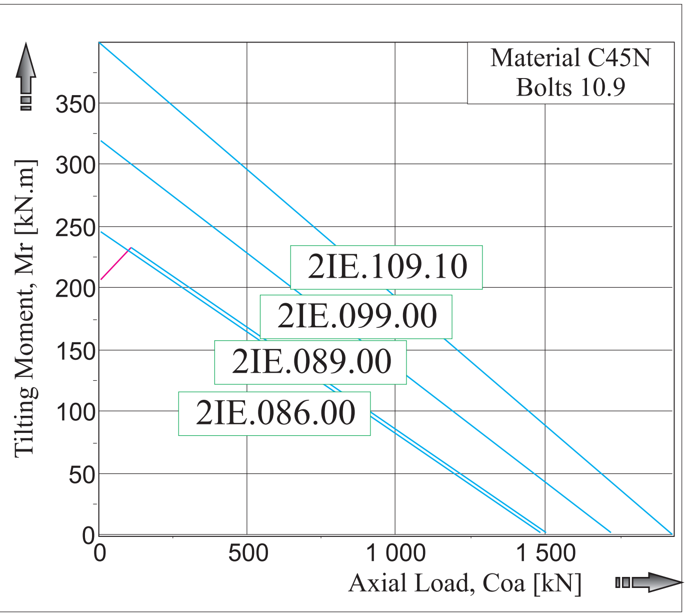
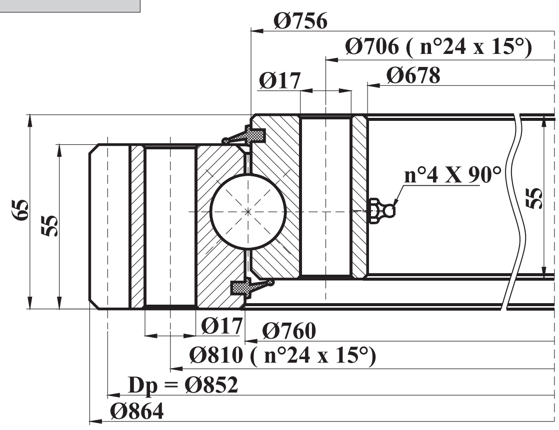
Start



Serie I.DE. 25

2IE.086.00

2IE.086.00

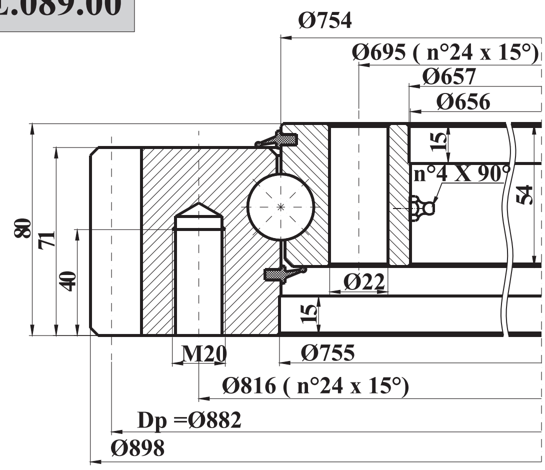


Features

Coa= 1514 kN	Cr= 225 kN	Z= 142	xm= 0
Cor= 564 kN	Mr=250 kN.m	m= 6	km= 0
Ca = 346 kN		Ft= 36 kN	kg 84

2IE.089.00

2IE.089.00

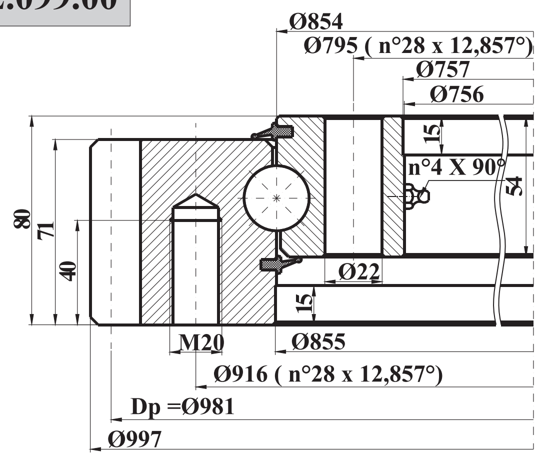


Features

Coa= 1497 kN	Cr= 223 kN	Z= 98	xm= 0
Cor= 557 kN	Mr=246 kN.m	m= 9	km= 1
Ca = 344 kN		Ft= 69 kN	kg 128

2IE.099.00

2IE.099.00

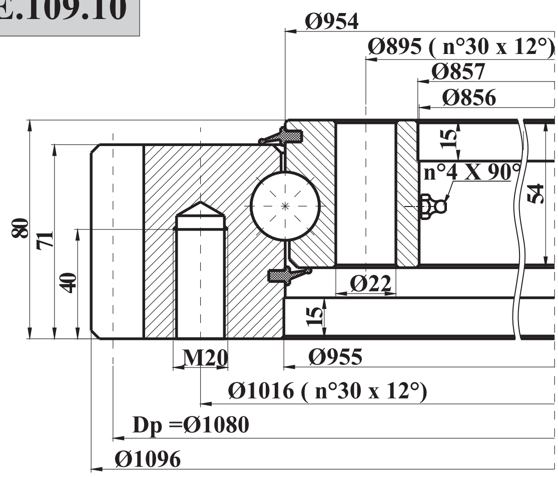


Features

Coa= 1730 kN	Cr= 235 kN	Z= 109	xm= 0
Cor= 627 kN	Mr=321 kN.m	m= 9	km= 1
Ca = 362 kN		Ft= 69 kN	kg 69

2IE.109.10

2IE.109.10



Features

Coa= 1930 kN	Cr= 244 kN	Z= 120	xm= 0
Cor= 700 kN	Mr=399 kN.m	m= 9	km= 1
Ca = 376 kN		Ft= 69 kN	kg 155

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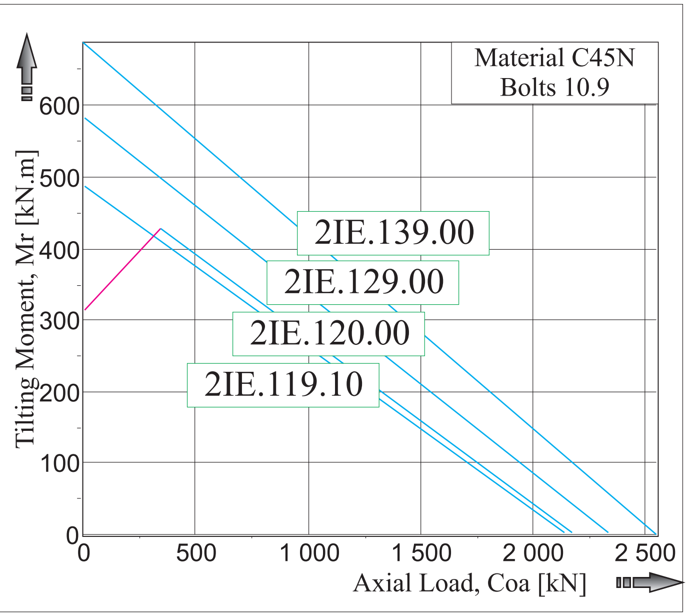
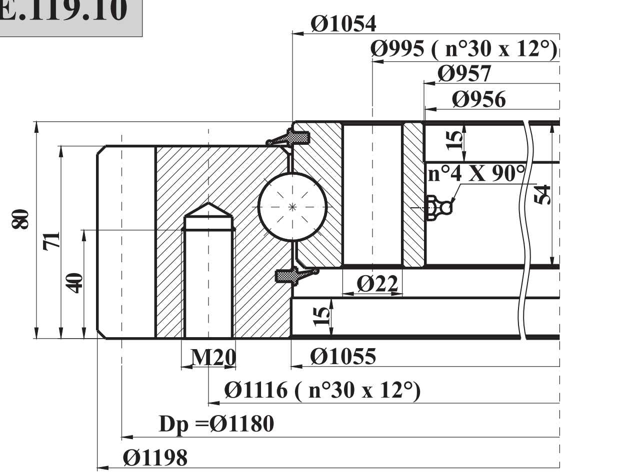


Serie I.DE. 25

2IE.119.10

2IE.119.10

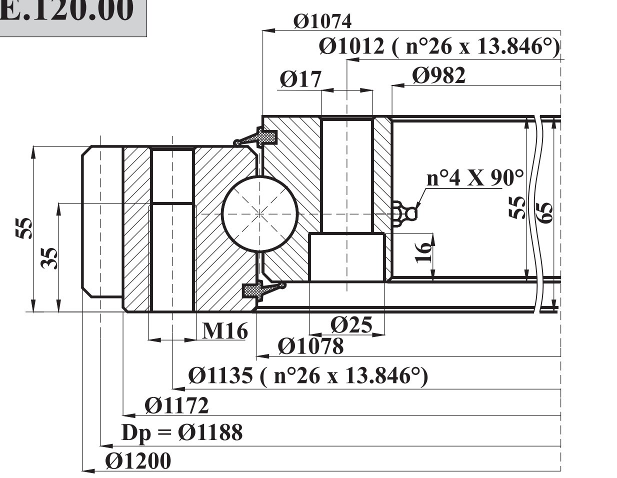


Features

Coa= 2148 kN	Cr= 254 kN	Z= 118	xm= 0
Cor= 779 kN	Mr=490 kN.m	m= 10	km= 1
Ca = 392 kN		Ft= 77 kN	kg 171

2IE.120.00

2IE.120.00

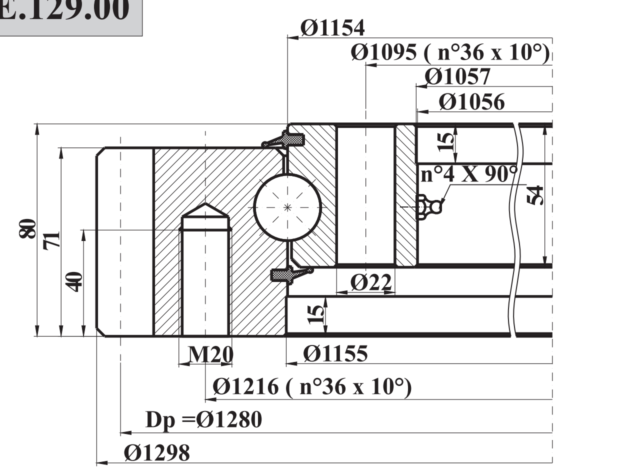


Features

Coa= 2185 kN	Cr= 256 kN	Z= 198	xm= 0
Cor= 792 kN	Mr=508 kN.m	m= 6	km= 0
Ca = 394 kN		Ft= 32 kN	kg 150

2IE.129.00

2IE.129.00

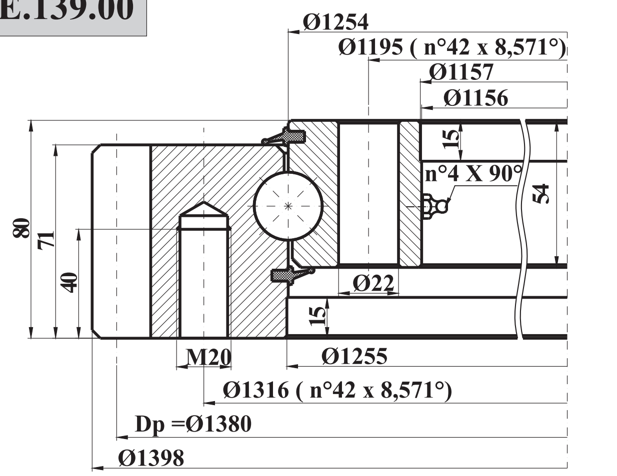


Features

Coa= 2384 kN	Cr= 262 kN	Z= 128	xm= 0
Cor= 851 kN	Mr=585 kN.m	m= 10	km= 1
Ca = 404 kN		Ft= 77 kN	kg 191

2IE.139.00

2IE.139.00



Features

Coa= 2548 kN	Cr= 270 kN	Z= 138	xm= 0
Cor= 924 kN	Mr=689 kN.m	m= 10	km= 1
Ca = 416 kN		Ft= 77 kN	kg 207

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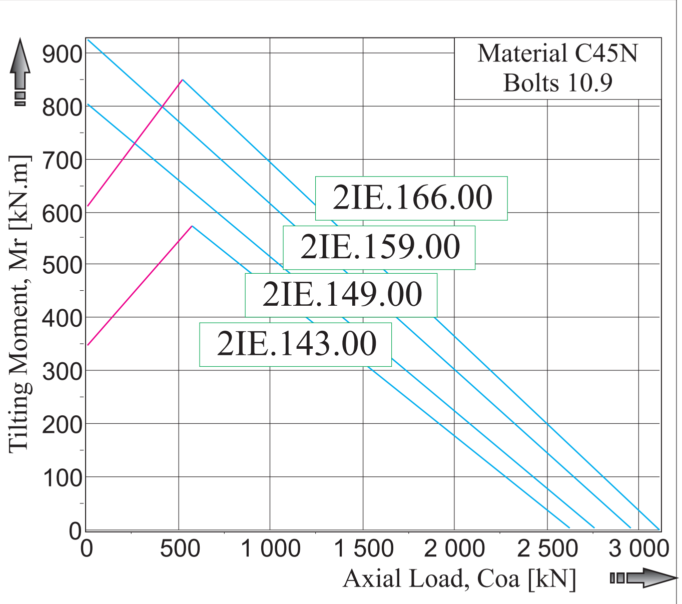
Start

Serie I.DE. 25



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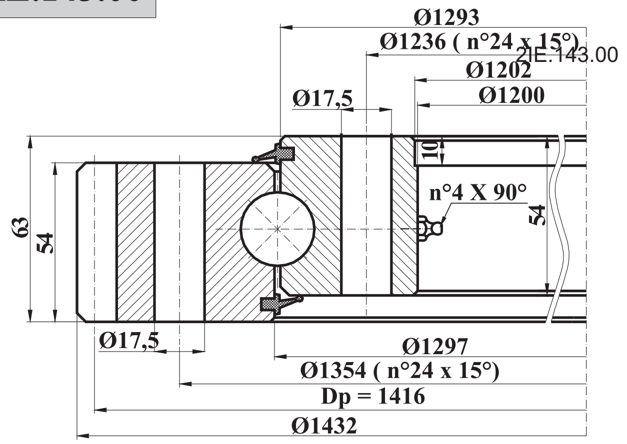
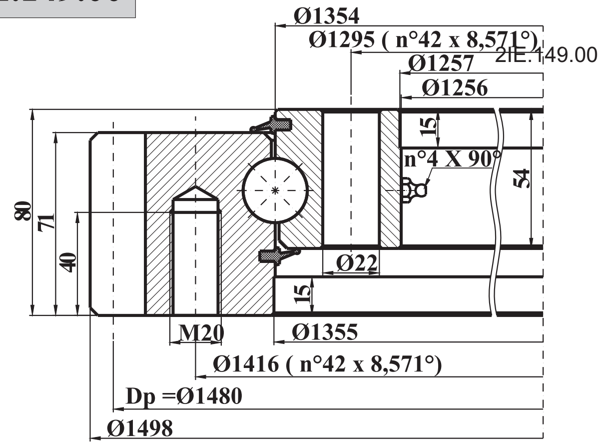


Features

Coa= 2638 kN	Cr= 274 kN	Z= 177	xm= 0
Cor= 957 kN	Mr=736 kN.m	m= 8	km= 0
Ca = 422 kN		Ft= 47 kN	kg 175

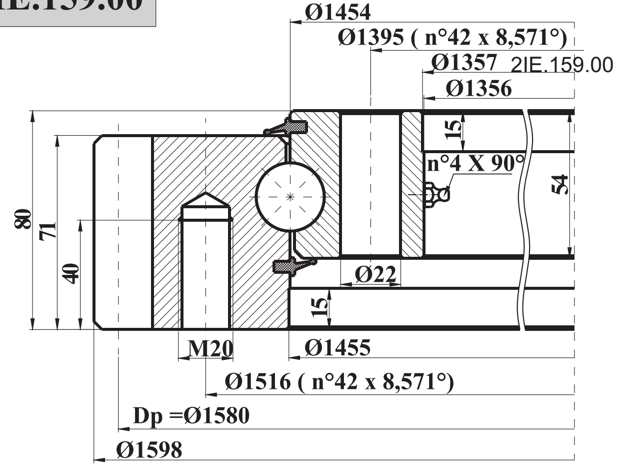
2IE.149.00



Features

Coa= 2766 kN	Cr= 278 kN	Z= 148	xm= 0
Cor= 1003 kN	Mr=807 kN.m	m= 10	km= 1
Ca = 429 kN		Ft= 77 kN	kg 223

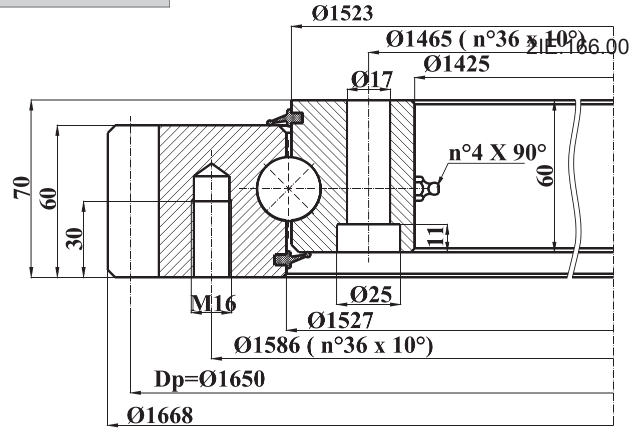
2IE.159.00



Features

Coa= 2965 kN	Cr= 285 kN	Z= 158	xm= 0
Cor= 1075 kN	Mr=928 kN.m	m= 10	km= 1
Ca = 440 kN		Ft= 77 kN	kg 245

2IE.166.00



Features

Coa= 3111 kN	Cr= 290 kN	Z= 165	xm= 0
Cor= 1128 kN	Mr= 1019 kN.m	m= 10	km= 1
Ca = 448 kN		Ft= 65 kN	kg 241

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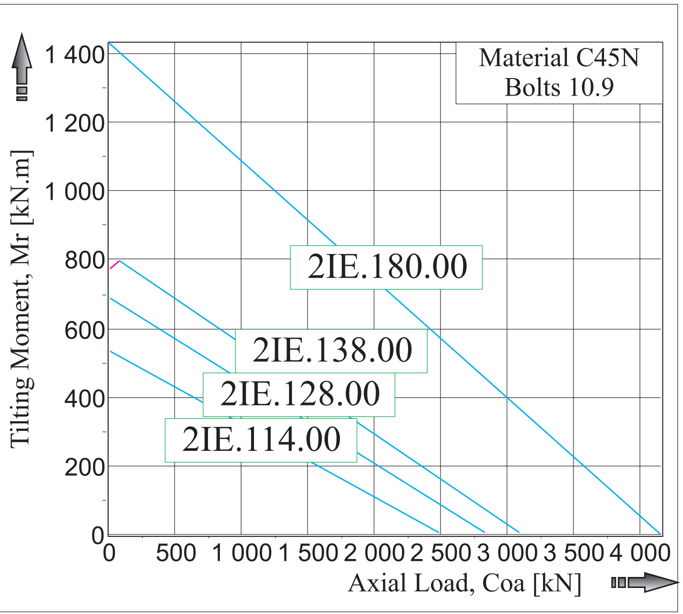
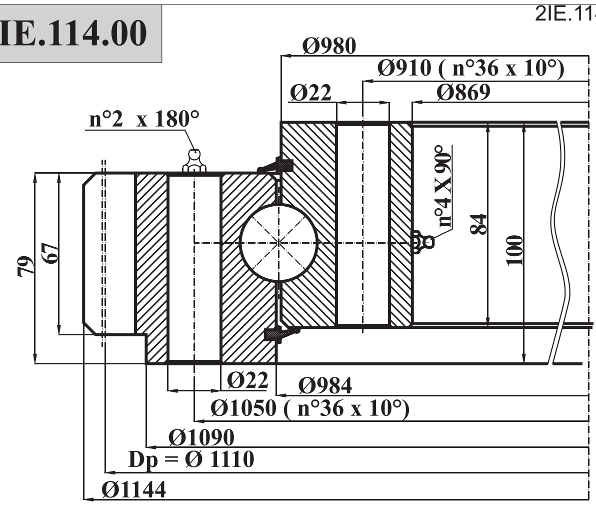


Serie I.DE. 32

2IE.114.00

2IE.114.00

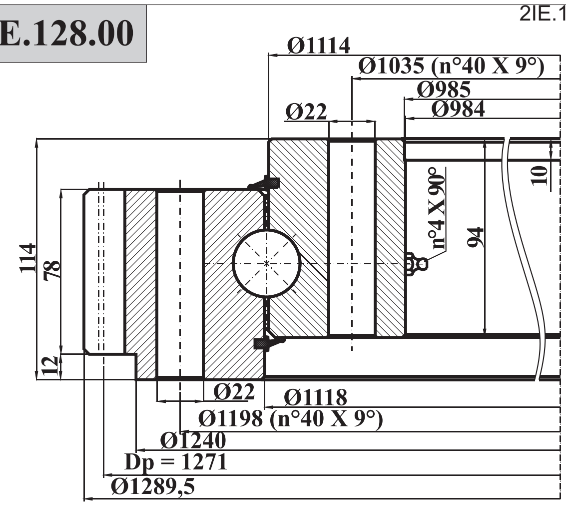


Features

Coa= 2512 kN	Cr= 352 kN	Z= 111	xm= 8
Cor= 950 kN	Mr=537 kN.m	m= 10	km= 1
Ca = 541 kN		Ft= 73 kN	kg 214

2IE.128.00

2IE.128.00

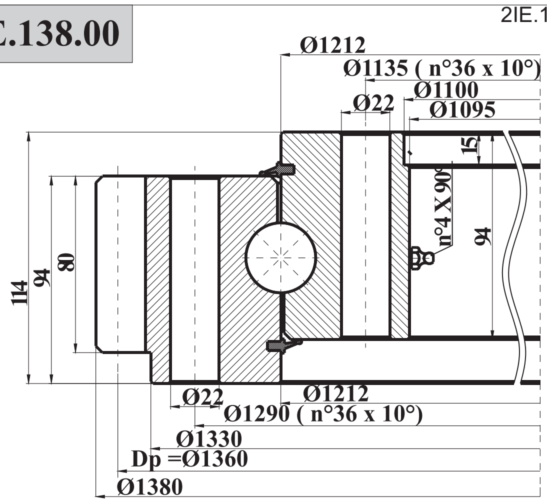


Features

Coa= 2857 kN	Cr= 368 kN	Z= 125	xm= 10.5
Cor= 1081 kN	Mr=693 kN.m	m= 10	km= 0.75
Ca = 567 kN		Ft= 84 kN	kg 225

2IE.138.00

2IE.138.00

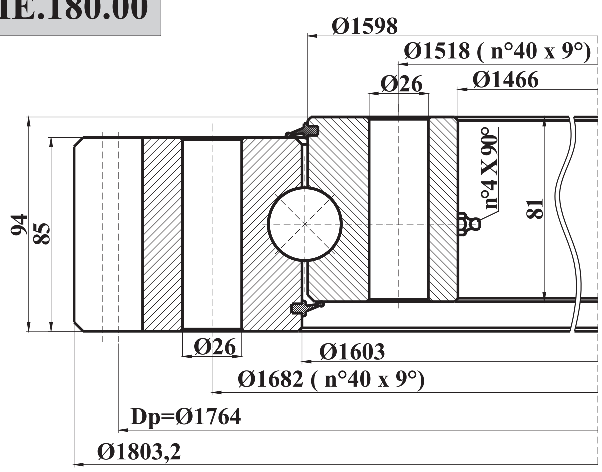


Features

Coa= 3116 kN	Cr= 380 kN	Z= 136	xm= 0
Cor= 1179 kN	Mr=819 kN.m	m= 10	km= 0
Ca = 585 kN		Ft= 87 kN	kg 350

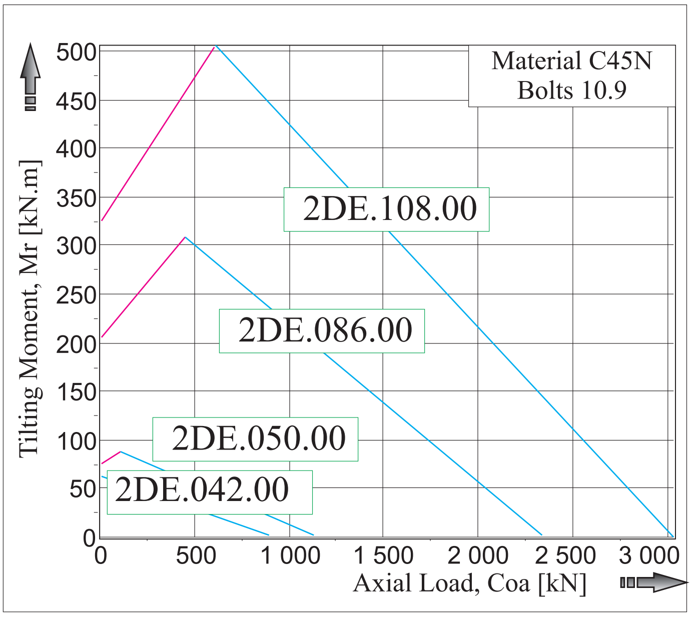
2IE.180.00

2IE.180.00



Features

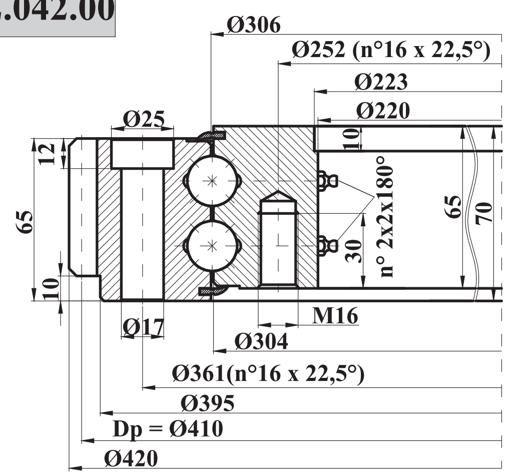
Coa= 4152 kN	Cr= 422 kN	Z= 126	xm= 7
Cor= 1570 kN	Mr=1433 kN.m	m= 14	km= 1.4
Ca = 651 kN		Ft= 129 kN	kg 479



Serie 2I.DE. 20

2DE.042.00

2DE.042.00

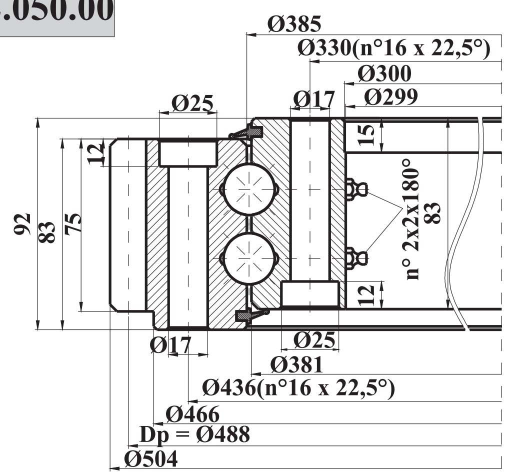


Features

Coa= 952 kN	Cr= 186 kN	Z= 82	xm= 0
Cor= 347 kN	Mr= 63 kN.m	m= 5	km= 0
Ca = 286 kN		Ft= 30 kN	kg 48

2DE.050.00

2DE.050.00

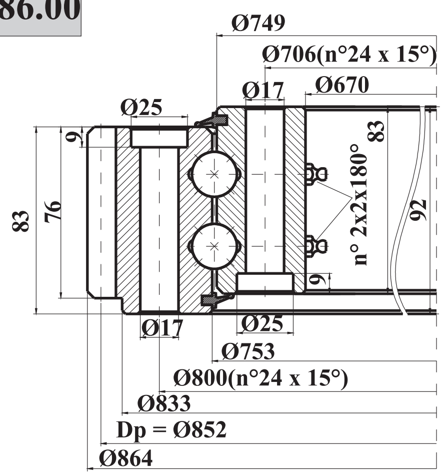


Features

Coa= 1156 kN	Cr= 201 kN	Z= 61	xm= 0
Cor= 460 kN	Mr= 98 kN.m	m= 8	km= 0
Ca = 309 kN		Ft= 65 kN	kg 64

2DE.086.00

2DE.086.00

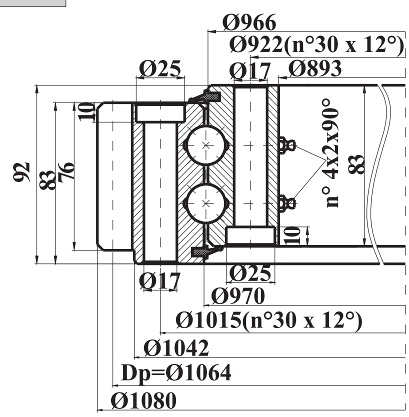


Features

Coa= 2347 kN	Cr= 260 kN	Z= 142	xm= 0
Cor= 880 kN	Mr=382 kN.m	m= 6	km= 0
Ca = 401 kN		Ft= 49 kN	kg 110

2DE.108.00

2DD.108.00



Features

Coa= 3035 kN	Cr= 285 kN	Z= 133	xm= 0
Cor= 1137 kN	Mr=634 kN.m	m= 8	km= 0
Ca = 440 kN		Ft= 66 kN	kg 157

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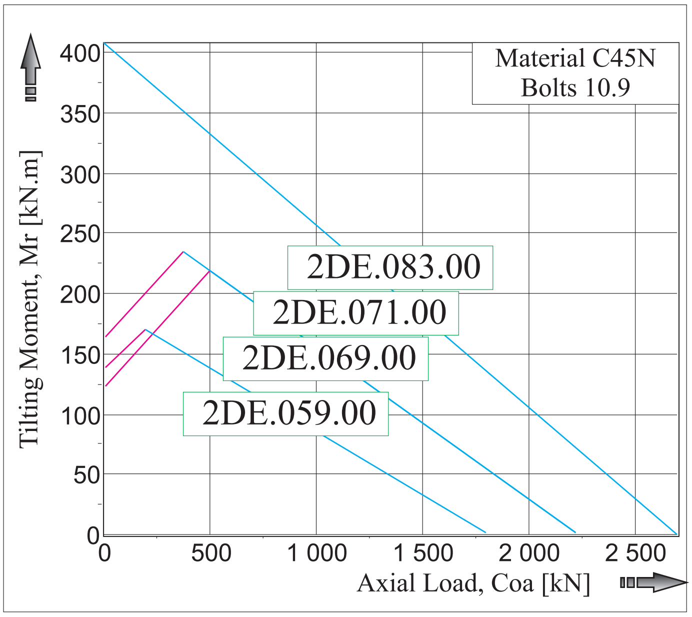
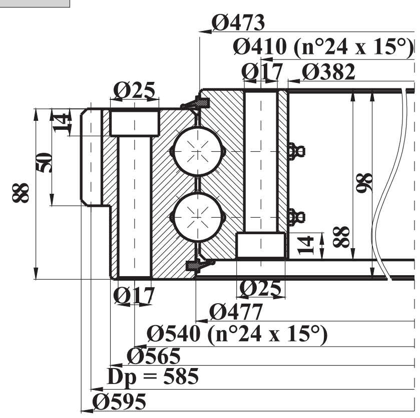


Serie 2I.DE. 25

2DE.059.00

2DE.059.00

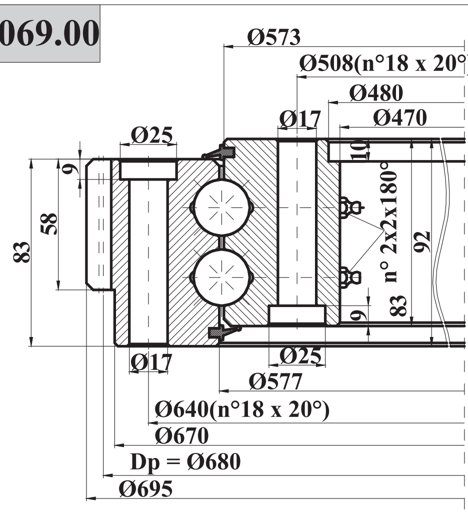


Features

Coa= 1813 kN	Cr= 304 kN	Z= 117	xm= 0
Cor= 703 kN	Mr=191 kN.m	m= 5	km= 0
Ca = 468 kN		Ft= 27 kN	kg 85

2DE.069.00

2DE.069.00

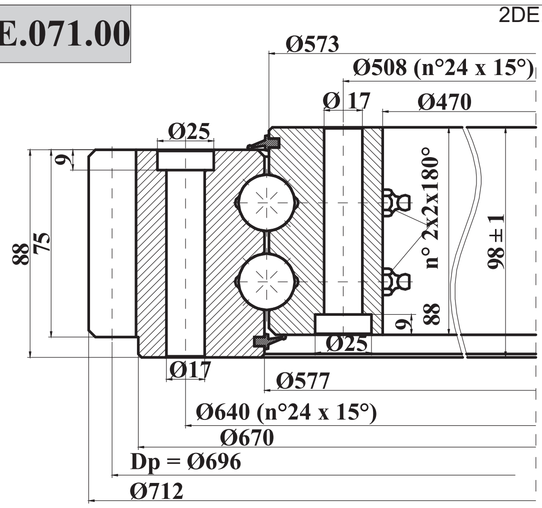


Features

Coa= 2236 kN	Cr= 329 kN	Z= 136	xm= 2.5
Cor= 866 kN	Mr=283 kN.m	m= 5	km= 0
Ca = 507 kN		Ft = 31 kN	kg 110

2DE.071.00

2DE.071.00

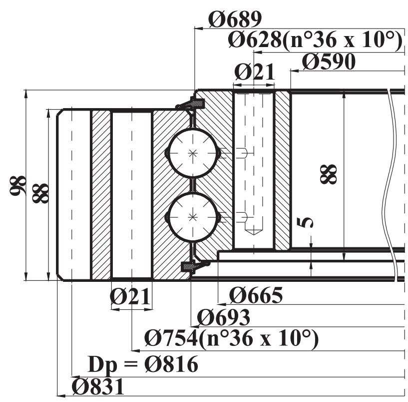


Features

Coa= 2326 kN	Cr= 329 kN	Z= 87	xm= 0
Cor= 866 kN	Mr=283 kN.m	m= 8	km= 0
Ca = 507 kN		Ft= 65 kN	kg 123

2DE.083.00

2DE.083.00



Features

Coa= 2696 kN	Cr= 352 kN	Z= 102	xm= 0
Cor= 1045 kN	Mr=408 kN.m	m= 8	km= 0.5
Ca = 541 kN		Ft= 76 kN	kg 124

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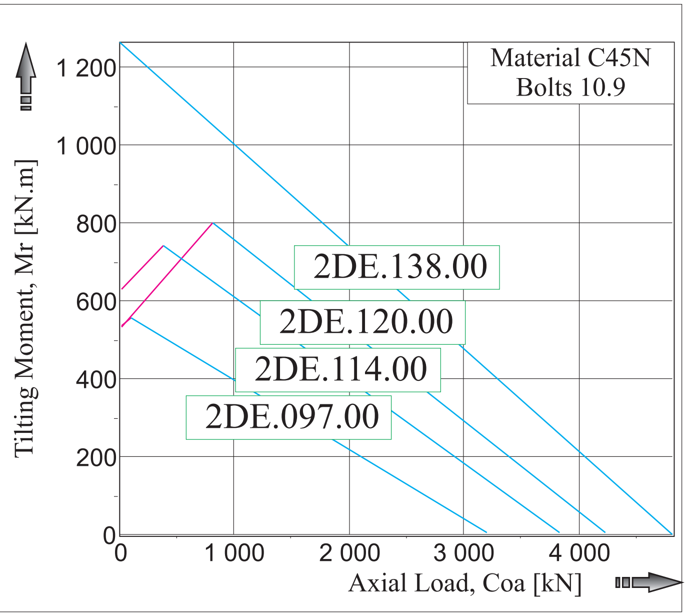
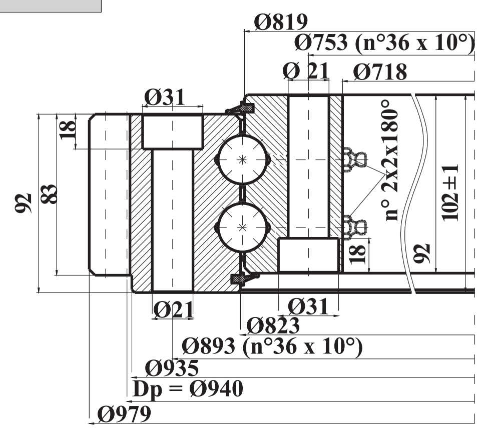
Serie 2I.DE. 25



2DE.097.00

2DE.097.00

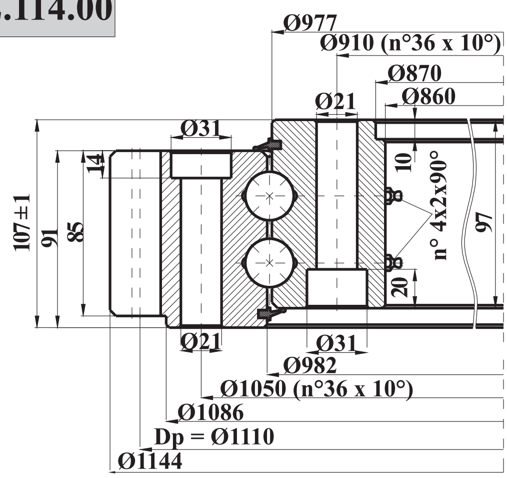


Features

Coa= 3226 kN	Cr= 376 kN	Z= 94	xm= 11
Cor= 1250 kN	Mr=577 kN.m	m= 10	km= 1.5
Ca = 579 kN		Ft= 90 kN	kg 198

2DE.114.00

2DE.114.00

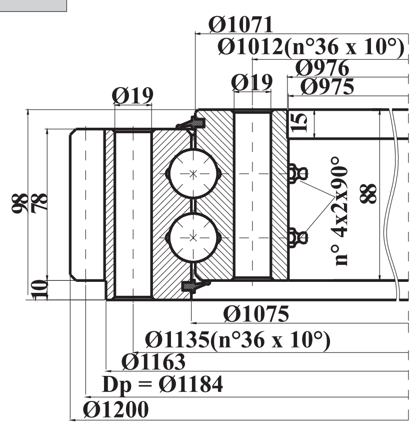


Features

Coa= 3862 kN	Cr= 401 kN	Z= 111	xm= 8
Cor= 1496 kN	Mr=820 kN.m	m= 10	km= 1
Ca = 618 kN		Ft= 92 kN	kg 266

2DE.120.00

2DE.120.00

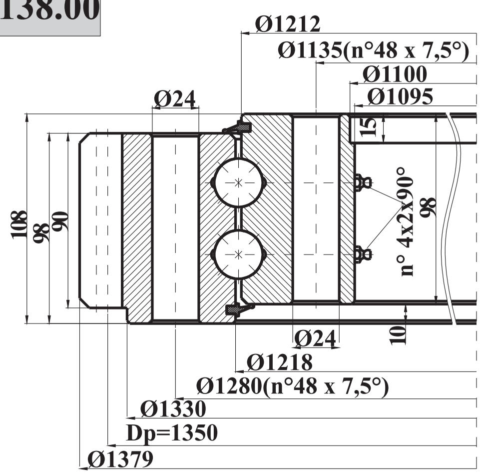


Features

Coa= 4250 kN	Cr= 415 kN	Z= 148	xm= 0
Cor= 1647 kN	Mr= 987 kN.m	m= 8	km= 0
Ca = 640 kN		Ft= 68 kN	kg 210

2DE.138.00

2DE.138.00



Features

Coa= 4815 kN	Cr= 434 kN	Z= 135	xm= 5
Cor= 1866 kN	Mr=1263 kN.m	m= 10	km= 0.5
Ca = 669 kN		Ft= 98 kN	kg 335

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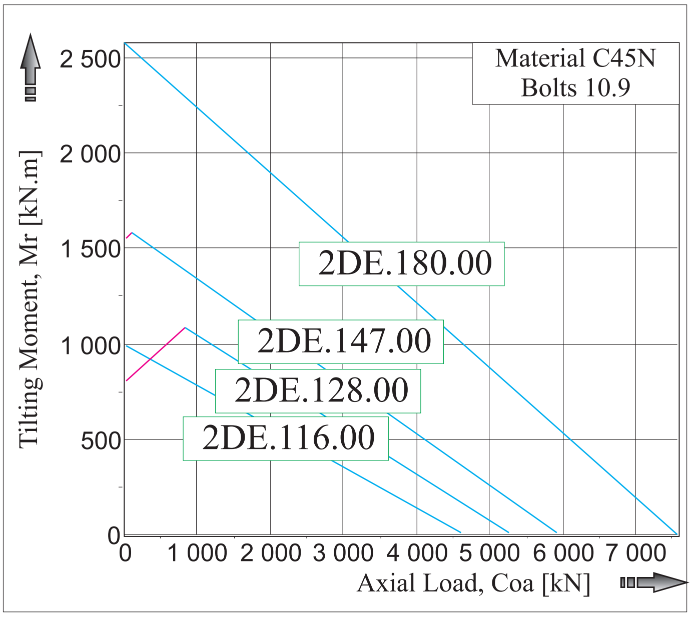
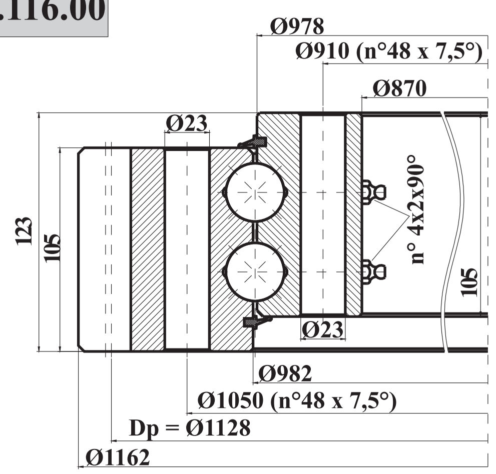


Serie 2I.DE. 30

2DE.116.00

2DE.116.00

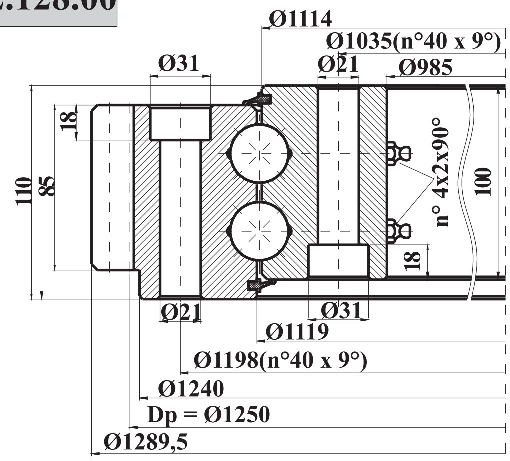


Features

Coa= 4648 kN	Cr= 526 kN	Z= 94	xm= 6
Cor= 1842 kN	Mr= 993 kN.m	m= 12	km= 1
Ca = 810 kN		Ft= 136 kN	kg 345

2DE.128.00

2DE.128.00

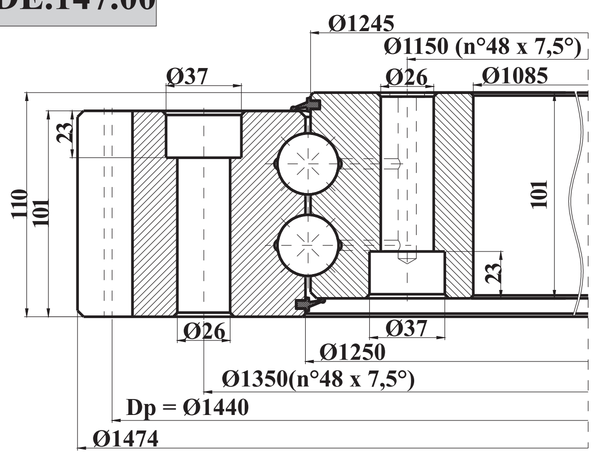


Features

Coa= 5303 kN	Cr= 552 kN	Z= 125	xm= 10.5
Cor= 2101 kN	Mr=1287 kN.m	m= 10	km= 0.75
Ca = 849 kN		Ft= 92 kN	kg 340

2DE.147.00

2DE.147.00

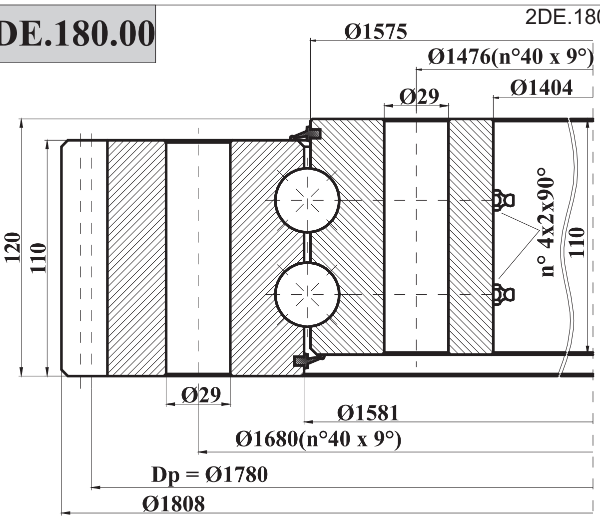


Features

Coa= 5957 kN	Cr= 576 kN	Z= 120	xm= 6
Cor= 2360 kN	Mr=1610 kN.m	m= 12	km= 1
Ca = 887 kN		Ft= 131 kN	kg 501

2DE.180.00

2DE.180.00



Features

Coa= 7570 kN	Cr= 628 kN	Z= 178	xm= 5
Cor= 2999 kN	Mr=2579 kN.m	m= 10	km= 1
Ca = 968 kN		Ft= 119 kN	kg 754