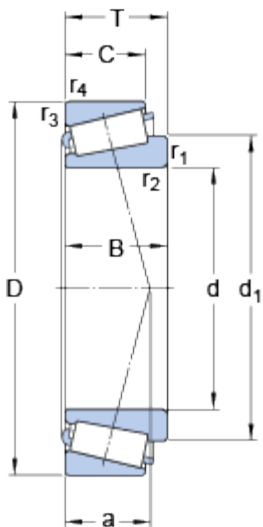


32928

 Oblíbená položka
 SKF Explorer

Rozměrové řady

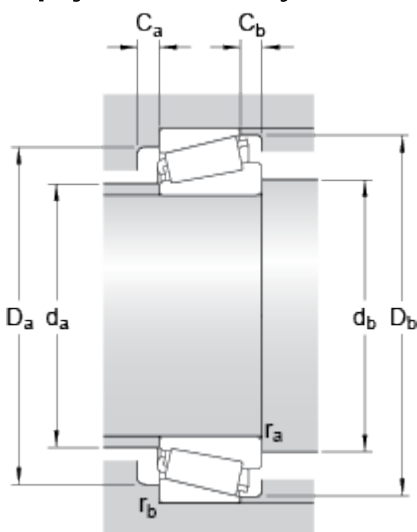
2CC

Rozměry


d	140	mm
D	190	mm
T	32	mm
d_1	≈ 164.25	mm
B	32	mm
C	25	mm
$r_{1,2}$	min. 2	mm
$r_{3,4}$	min. 1.5	mm

Dimensions

a	33.443	mm
---	--------	----

Připojovací rozměry


d_a	max. 151	mm
d_b	min. 152	mm
D_a	min. 177	mm
D_a	max. 180	mm
D_b	min. 184	mm
C_a	min. 6	mm
C_b	min. 7	mm
r_a	max. 2	mm
r_b	max. 1.5	mm

Data výpočtu

Základní dynamická únosnost	C	252	kN
Základní statická únosnost	C_0	390	kN
Mezní únavové zatížení	P_u	40	kN
Referenční otáčky		2600	r/min

Mezní otáčky		3000	r/min
Výpočtový součinitel	e	0.35	
Výpočtový součinitel	Y	1.7	
Výpočtový součinitel	Y ₀	0.9	

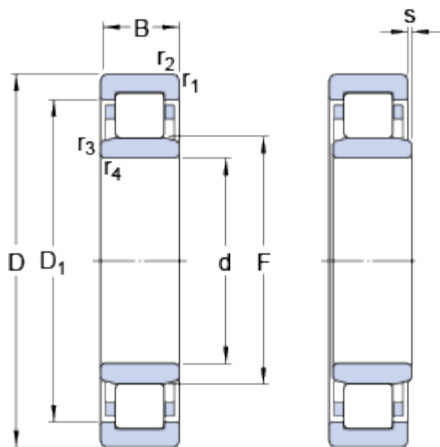
Hmotnost

Hmotnost ložiska		2.53	kg
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NU 1014 ECP

Oblíbená položka

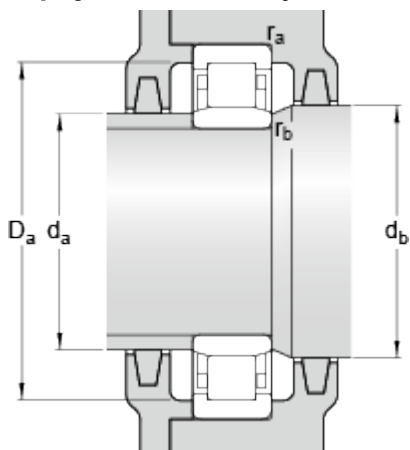
Rozměry



d	70	mm
D	110	mm
B	20	mm
D ₁	≈ 97.55	mm
F	79.5	mm
r _{1,2}	min. 1.1	mm
r _{3,4}	min. 1	mm
s	max. 1.3	mm

Dimensions

Připojovací rozměry



d _a	min. 74.6	mm
d _a	max. 78	mm
d _b	min. 82	mm
D _a	max. 104	mm
r _a	max. 1	mm
r _b	max. 1	mm

Data výpočtu

Základní dynamická únosnost	C	76.5	kN
Základní statická únosnost	C ₀	93	kN
Mezní únavové zatížení	P _u	12	kN
Referenční otáčky		7000	r/min
Mezní otáčky		7000	r/min
Výpočtový součinitel	k _r	0.1	

Calculation data

Výpočet zatížení: Mezní hodnota	e	0.2
Výpočet zatížení: Výpočtový součinitel	Y	0.6

Hmotnost

Hmotnost ložiska

0.61

kg

Odpovídající výrobky

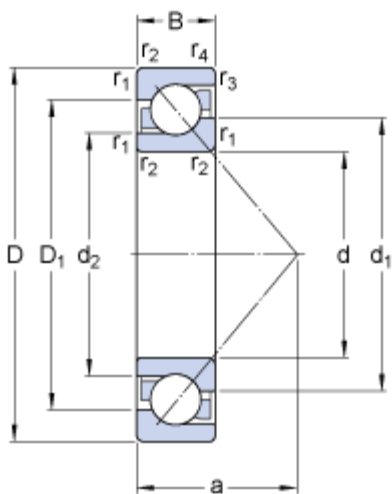
Úhlový kroužek

HJ 1014 EC

7214 BEGAP

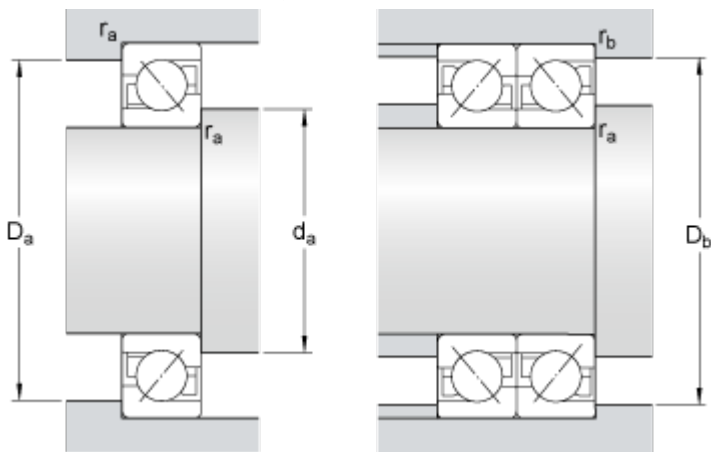
Oblíbená položka
SKF Explorer

Rozměry



d	70	mm
D	125	mm
B	24	mm
d ₁	≈ 91.5	mm
d ₂	≈ 80.25	mm
D ₁	≈ 104.75	mm
a	53	mm
r _{1,2}	min. 1.5	mm
r _{3,4}	min. 1	mm

Připojovací rozměry



d _a	min. 79	mm
D _a	max. 116	mm
D _b	max. 119	mm
r _a	max. 1.5	mm
r _b	max. 1	mm

Data výpočtu

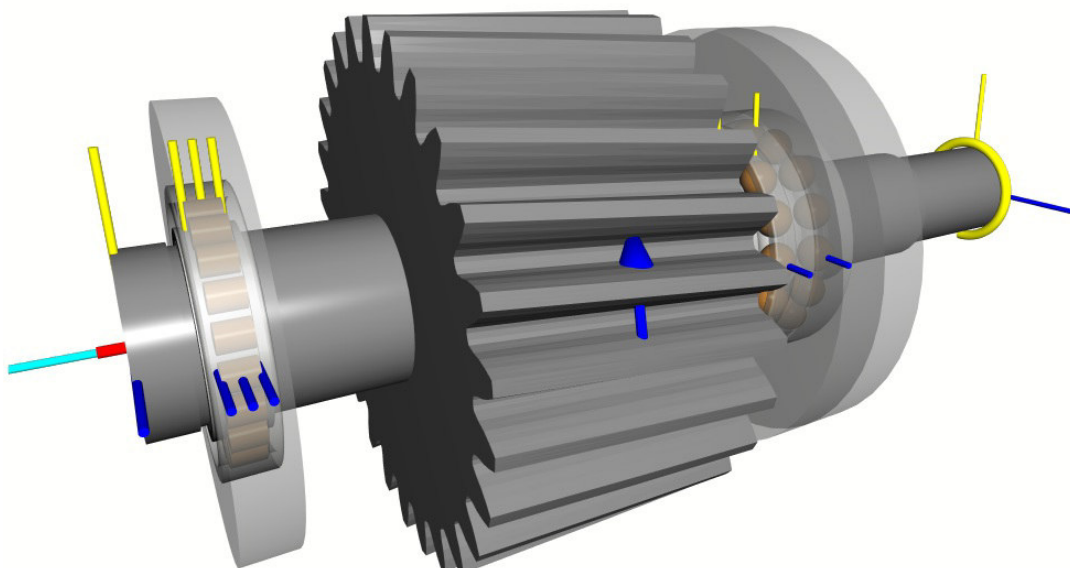
Základní dynamická únosnost	C	72	kN
Základní statická únosnost	C ₀	60	kN
Mezní únavové zatížení	P _u	2.55	kN
Referenční otáčky		6300	r/min
Mezní otáčky		6300	r/min
Výpočtový součinitel	A	0.0529	
Výpočtový součinitel	k _r	0.095	
Výpočtový součinitel	e	1.14	
Jednotlivé ložisko nebo dvojice ložisek uspořádaná do tandemu			
Výpočtový součinitel	X	0.35	

Výpočtový součinitel	Y_0	0.26
Výpočtový součinitel	Y_2	0.57
Dvojice ložisek uspořádaná zády k sobě (do „O“) nebo čely k sobě (do „X“)		
Výpočtový součinitel	X	0.57
Výpočtový součinitel	Y_0	0.52
Výpočtový součinitel	Y_1	0.55
Výpočtový součinitel	Y_2	0.93

Hmotnost

Hmotnost ložiska	1.1	kg
------------------	-----	----

SKF SimPro Quick



Author: Your name
Department: Your department
Division: Your division
Project number:
Description:
Date: Mon Jan 13 09:34:29 2020
Version: SKF SimPro Quick (internal) 4.2

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1. Abstract

Bearing	Basic rating life (L10h) [h]	SKF load based method (SKF rating life, GBLM) [h]	SKF stress based method (AFC, GBLM) [h]	ISO/TS 16281:2008 (L10mrh) [h]	Static safety s0
SKF_bearing_1	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵	45.18
SKF_bearing_2	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵	35.55
SKF_bearing_2_1	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵	21.58

SKF load based life: SKF rating life (L10m) for steel-steel bearings; GBLM load based life (L10GM) for hybrid bearings
 SKF stress based life: SKF AFC life (L10AFC) for steel-steel bearings; GBLM stress based life (L10GMS) for hybrid bearings
 Life value '0' or 'N/A' is shown if the requirements on either minimum load, permissible misalignment or static safety factor is not met.

Bearing	Catalogue grease life [h]	Catalogue relubrication interval [h]	Grease relubrication quantity from the side [gr]
SKF_bearing_1	N/A	30000	11.0
SKF_bearing_2	N/A	N/A	N/A
SKF_bearing_2_1	N/A	N/A	N/A

Bearing	Frictional moment [Nmm]	Power loss [W]	Operating radial clearance [um]
SKF_bearing_1	203	2	7
SKF_bearing_2	486	5	-35
SKF_bearing_2_1	525	6	-35

Static safety factor (RBC) check

Message
All rules pass

Permissible misalignment check

Message
All rules pass

Note: 1 [min] is equal to 1/60 [degree]

Required minimum load check

Message
All rules pass

In the case of "Value not available", it means that the required data for calculating the minimum load is not complete. Contact SKF Application Engineering for support.

Reference speed check

Message
All rules pass

Analyses (and variants), objects and parameter are shown if the following rule is fulfilled:
Absolute value of bearing speed > reference speed

Limiting speed check

Message
All rules pass

Analyses (and variants), objects and parameter are shown if the following rule is fulfilled:
Absolute value of Bearing speed > limiting speed

Life model validity if kappa > 4

Message
All rules pass

Life model validity if kappa < 0.1

Message
All rules pass

Analyses (and variants), objects and parameter are shown if one of the following rules is fulfilled:
Kappa < 0.1
Kappa (ISO 281) < 0.1

Load based life method speed-load combination check

Message
All rules pass

2. Input

2.1. Bearing data

Bearing	Bearing designation	Bearing type	Bearing execution	Bore diameter (d) [mm]	Outer diameter (D) [mm]	Bearing width (B) [mm]
SKF_bearing_1	NU 1014 ECP	CRB	Standard	70.000	110.000	20.000
SKF_bearing_2	7214 BEGAP	ACBB	SKF EXPLORER	70.000	125.000	24.000
SKF_bearing_2_1	7214 BEGAP	ACBB	SKF EXPLORER	70.000	125.000	24.000

Bearing	Basic dynamic load rating (C) [kN]	Basic static load rating (C0) [kN]	Fatigue load limit (Pu) [kN]	Reference speed [rpm]	Limiting speed [rpm]
SKF_bearing_1	76.5	93.0	12.00	7000	7000
SKF_bearing_2	72.0	60.0	2.55	6300	6300
SKF_bearing_2_1	72.0	60.0	2.55	6300	6300

2.2. Lubricant data

Lubricant	Lubrication type	etaC selection method	Viscosity at 40 C [mm ² /s]	Viscosity at 100 C [mm ² /s]	Contains EP additives
LGHB 2	Grease	ISO 281 2007	425.00	26.50	Off
oil vg320	Oil without filtration	ISO 281 2007	320.00	24.65	On

2.3. Temperatures

Bearing	Shaft / Inner ring [C]	Outer ring / Housing [C]
SKF_bearing_1	60	55
SKF_bearing_2	60	55
SKF_bearing_2_1	60	55

The housing has same temperature as the OR and the shaft same as the IR. The maximum of the IR race and OR race temperatures is used as lubrication temperature.

2.4. Gear data

Gear	Tooth number	Normal module [mm]	Pitch diameter [mm]	Pressure angle [deg]	Helix angle [deg]
Helical_1	26	8	209.1	20	6

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2.5. Loads & speed

Gear force	Power [kW]	Torque [Nm]	Gear contact force vector (contact point, local) [N]		
			Radial	Tangential	Axial
Gear force_1	5.5	-500.2	-1750.6	4783.3	-502.7

Boundary	Rotation speed [rpm]
Rotation speed_1	105

3. Results

3.1. Bearing loads, static safety & C/P

Bearing	Bearing radial load [N]	Bearing axial load [N]	Forces [N]			Moments [Nm]		
			X	Y	Z	YZ	ZX	XY
SKF_bearing_1	2058	0	-524	1991	0	0	0	0
SKF_bearing_2	568	5400	-310	476	5400	17	12	0
SKF_bearing_2_1	2492	5903	-916	-2317	5903	-92	36	0

Bearing	Equivalent static bearing load (P ₀) [N]	Static safety factor s ₀	Equivalent dynamic bearing load (P) [N]	C/P
SKF_bearing_1	2058	45.2	2058	37.2
SKF_bearing_2	1688	35.5	3277	22.0
SKF_bearing_2_1	2781	21.6	4237	17.0

3.2. Bearing contact data

Bearing	Max pressure (IR) [N/mm ²]	Max pressure (OR) [N/mm ²]
SKF_bearing_1	785	708
SKF_bearing_2	1236	1214
SKF_bearing_2_1	1447	1422

3.3. Bearing clearance

Bearing	Internal radial clearance before mounting [μm]	Operating radial clearance [μm]	Internal axial clearance before mounting [μm]	Operating axial clearance [μm]
SKF_bearing_1	58	7	N/A	N/A
SKF_bearing_2	0	-35	N/A	N/A
SKF_bearing_2_1	0	-35	N/A	N/A

The elongation of the shaft and housing are not taken into account.

3.4. Relubrication interval & grease life

Bearing	Lubricant	Catalogue relubrication	Catalogue grease life [h]	Grease relubrication quantity from the	Grease relubrication quantity through

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		interval [h]		side [gr]	lubrication holes [gr]
SKF_bearing_1	LGHB 2	30000	N/A	11.0	N/A
SKF_bearing_2	oil vg320	N/A	N/A	N/A	N/A
SKF_bearing_2_1	oil vg320	N/A	N/A	N/A	N/A

3.5. Lubrication conditions

Bearing	Lubricant	Bearing speed [rpm]	ndm factor [mm/min]	Lub. temperature [C]	Actual viscosity [mm ² /s]	Kappa	etaC
SKF_bearing_1	LGHB 2	105	9502	60	132.1	1.52	0.51
SKF_bearing_2	oil vg320	105	10237	60	109.7	1.31	0.058
SKF_bearing_2_1	oil vg320	105	10237	60	109.7	1.31	0.058

3.6. Bearing rating life

Bearing	Life factor aSKF	Basic rating life (L10h) [h]	SKF load based method (SKF rating life, GBLM) [h]	SKF stress based method (AFC, GBLM) [h]	ISO/TS 16281:2008 (L10m rh) [h]
SKF_bearing_1	50.00	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵
SKF_bearing_2	1.36	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵
SKF_bearing_2_1	1.07	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵

SKF load based life: SKF rating life (L10m) for steel-steel bearings; GBLM load based life (L10GM) for hybrid bearings
 SKF stress based life: SKF AFC life (L10AFC) for steel-steel bearings; GBLM stress based life (L10GMS) for hybrid bearings
 Life value '0' or 'N/A' is shown if the requirements on either minimum load, permissible misalignment or static safety factor is not met.

3.7. Bearing frictional moment & power loss

Bearing	Total frictional moment [Nmm]	Starting torque [Nmm]	Friction torque sources [Nmm]				Power loss [W]
			1) Rolling resistance	2) Sliding	3) Seal	4) Drag	
SKF_bearing_1	203	42	192	10	0	0	2
SKF_bearing_2	486	573	155	254	0	77	5
SKF_bearing_2_1	525	670	151	296	0	77	6

Based on the mean bearing raceway temperature (average of inner ring and outer ring).

3.8. Bearing & shaft displacement

Bearing	Displacement [um]			Misalignment [min]			Total misalignment [min]
	X	Y	Z	YZ	ZX	XY	
SKF_bearing_1	-2	8	0	0	0	0	0
SKF_bearing_2	-2	4	-2	0	0	1	0
SKF_bearing_2_1	-2	-5	-1	0	0	-1	0

- Bearing displacement and misalignment of inner ring relative to outer ring
- The displacements and misalignments are displayed in the local coordinate system of the bearing

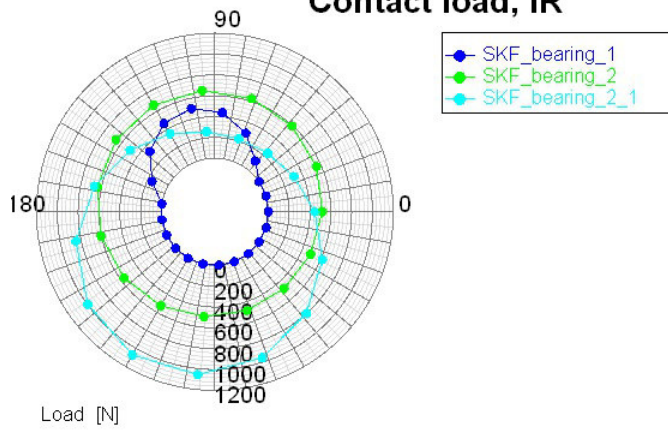
Shaft displacement & misalignment (at interfaces)

Shaft position	Displacement [um]			Misalignment [min]		
	X	Y	Z	YZ	ZX	XY
intf_Helical_1_1	-4	12	0	-0.1	0.0	1.3
intf_Rotation speed_1_1	2	-7	0	-0.2	-0.1	1.3
intf_SKF_bearing_1_1	-2	8	0	0.1	0.1	0.3
intf_SKF_bearing_2_1	-2	4	0	-0.2	-0.1	1.3
intf_SKF_bearing_2_1_1	-2	5	0	-0.2	-0.1	1.3
intf_Torque reaction_1_1	-2	7	0	0.1	0.1	0.0

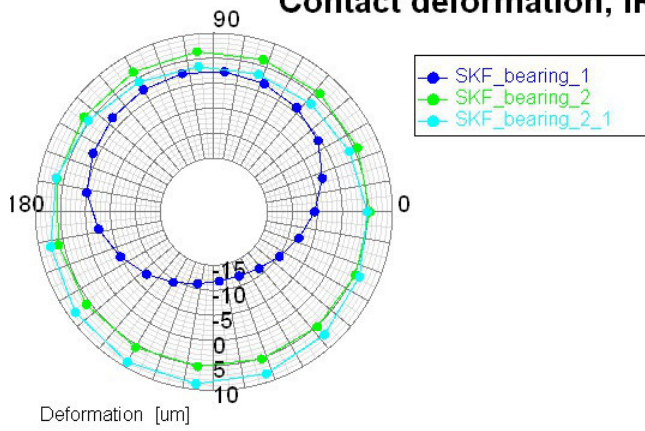
Shaft displacement & misalignment (at positions)

Shaft	Node	Axial position [mm]	Displacement [um]			Misalignment [min]		
			X	Y	Z	YZ	ZX	XY
Shaft	1	0.00	2	-7	0	-0.2	-0.1	1.3
	2	2.00	2	-7	0	-0.2	-0.1	1.3
	3	28.00	1	-5	0	-0.2	-0.1	1.3
	4	54.00	1	-4	0	-0.2	-0.1	1.3
	5	80.00	0	-2	0	-0.2	-0.1	1.3
	6	110.00	0	0	0	-0.2	-0.1	1.3
	7	140.00	-1	1	0	-0.2	-0.1	1.3
	8	160.50	-1	3	0	-0.2	-0.1	1.3
	9	181.00	-2	4	0	-0.2	-0.1	1.3
	10	205.00	-2	5	0	-0.2	-0.1	1.3
	11	232.00	-3	7	0	-0.2	-0.1	1.3
	12	259.00	-3	9	0	-0.2	-0.1	1.3
	13	286.00	-4	11	0	-0.1	0.0	1.3
	14	313.00	-4	12	0	-0.1	0.0	1.3
	15	347.10	-4	12	0	0.0	0.0	1.0
	16	381.20	-3	11	0	0.1	0.1	0.7
	17	415.30	-3	9	0	0.1	0.1	0.4
	18	433.00	-2	8	0	0.1	0.1	0.3
	19	443.00	-2	8	0	0.1	0.1	0.2
	20	446.00	-2	8	0	0.1	0.1	0.1
	21	461.88	-2	7	0	0.1	0.1	0.0
	22	463.00	-2	7	0	0.1	0.1	0.0

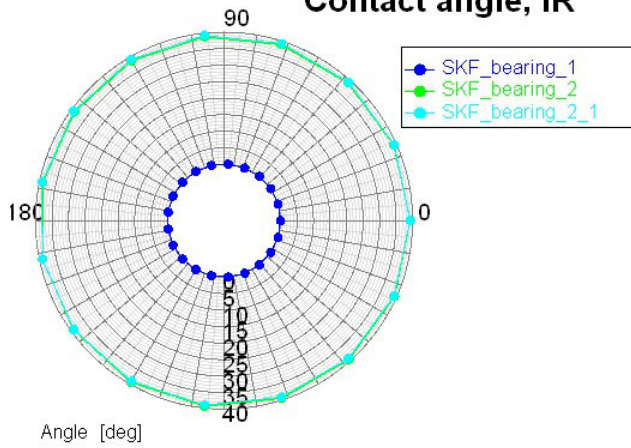
Contact load, IR



Contact deformation, IR

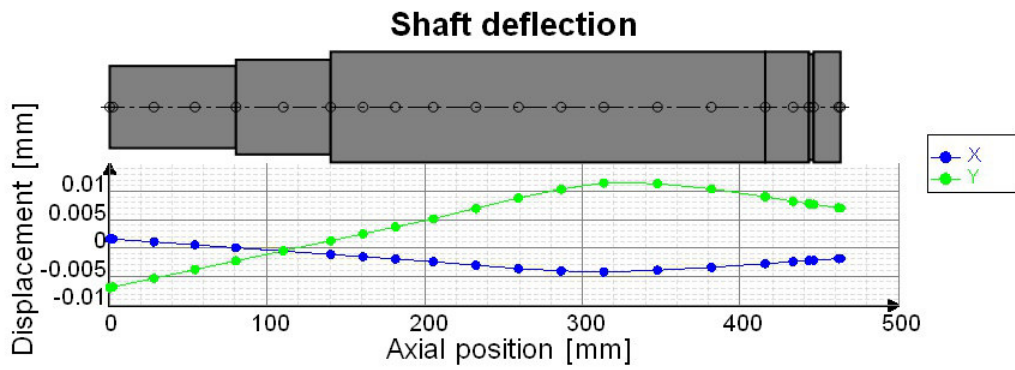


Contact angle, IR



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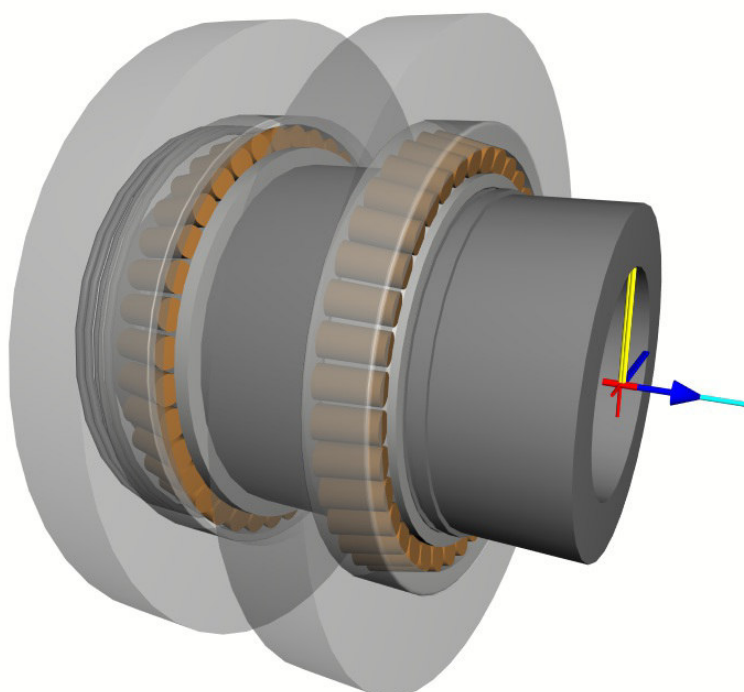
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Návrh planetové míchačky betonu - ložiska hlavního hřídele



Author: Jan Kličman
Date: 14.12.2019
Version: SKF SimPro Quick (internal) 4.2

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1. Abstract

Bearing	Basic rating life (L10h) [h]	SKF load based method (SKF rating life, GBLM) [h]	SKF stress based method (AFC, GBLM) [h]	ISO/TS 16281:2008 (L10m rh) [h]	Static safety s0
SKF_bearing_1	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵	83.29
SKF_bearing_1_1	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵	32.32

SKF load based life: SKF rating life (L10m) for steel-steel bearings; GBLM load based life (L10GM) for hybrid bearings
 SKF stress based life: SKF AFC life (L10AFC) for steel-steel bearings; GBLM stress based life (L10GMS) for hybrid bearings
 Life value '0' or 'N/A' is shown if the requirements on either minimum load, permissible misalignment or static safety factor is not met.

Bearing	Frictional moment [Nmm]	Power loss [W]	Operating radial clearance [um]
SKF_bearing_1	4591	20	-63
SKF_bearing_1_1	6307	28	-63

2. Input

2.1. Bearing data

Bearing	Bearing designation	Bearing type	Bearing execution	Bore diameter (d) [mm]	Outer diameter (D) [mm]	Bearing width (B) [mm]
SKF_bearing_1	32928	TRB	SKF EXPLORER	140.000	190.000	32.000
SKF_bearing_1_1	32928	TRB	SKF EXPLORER	140.000	190.000	32.000

Bearing	Basic dynamic load rating (C) [kN]	Basic static load rating (C0) [kN]	Fatigue load limit (Pu) [kN]	Reference speed [rpm]	Limiting speed [rpm]
SKF_bearing_1	252.0	390.0	40.00	2600	3000
SKF_bearing_1_1	252.0	390.0	40.00	2600	3000

2.2. Lubricant data

Lubricant	Lubrication type	etaC selection method	Viscosity at 40 C [mm ² /s]	Viscosity at 100 C [mm ² /s]	Contains EP additives
oil VG320	Oil without filtration	ISO 281 2007	320.00	24.65	On

2.3. Temperatures

Bearing	Shaft / Inner ring [C]	Outer ring / Housing [C]
SKF_bearing_1	50	45
SKF_bearing_1_1	50	45

The housing has same temperature as the OR and the shaft same as the IR. The maximum of the IR race and OR race temperatures is used as lubrication temperature.

2.4. Spring data

Spring	Axial stiffness [N/mm]	Preload force [N]
Bearing spring_1	1000	5000

2.5. Loads & speed

Force	Force [N]			
	X	Y	Z	magnitude
Hmotnost	0	0	7200	7200
Síla_od_ozubeni	0	0	1004	1004

Boundary	Rotation speed [rpm]
Rotation speed_1	42

3. Results

3.1. Bearing loads, static safety & C/P

Bearing	Bearing radial load [N]	Bearing axial load [N]	Forces [N]			Moments [Nm]		
			X	Y	Z	YZ	ZX	XY
SKF_bearing_1	0	5203	0	0	5203	0	0	0
SKF_bearing_1_1	0	13407	0	0	13407	0	0	0

Bearing	Equivalent static bearing load (P0) [N]	Static safety factor s0	Equivalent dynamic bearing load (P) [N]	C/P
SKF_bearing_1	4682	83.3	8845	28.5
SKF_bearing_1_1	12066	32.3	22791	11.1

3.2. Bearing contact data

Bearing	Max pressure (IR) [N/mm ²]	Max pressure (OR) [N/mm ²]
SKF_bearing_1	647	663
SKF_bearing_1_1	919	910

3.3. Bearing clearance

Bearing	Internal radial clearance before mounting [um]	Operating radial clearance [um]	Internal axial clearance before mounting [um]	Operating axial clearance [um]
SKF_bearing_1	0	-63	N/A	N/A
SKF_bearing_1_1	0	-63	N/A	N/A

The elongation of the shaft and housing are not taken into account.

3.4. Lubrication conditions

Bearing	Lubricant	Bearing speed [rpm]	ndm factor [mm/min]	Lub. temperature [C]	Actual viscosity [mm ² /s]	Kappa	etaC
SKF_bearing_1	oil VG320	42	6936	50	180.9	1.28	0.092
SKF_bearing_1_1	oil VG320	42	6936	50	180.9	1.28	0.092

3.5. Bearing rating life

Bearing	Life factor aSKF	Basic rating life (L10h) [h]	SKF load based method (SKF rating life, GBLM) [h]	SKF stress based method (AFC, GBLM) [h]	ISO/TS 16281:2008 (L10m rh) [h]
SKF_bearing_1	2.39	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵
SKF_bearing_1_1	0.78	> 10 ⁵	> 10 ⁵	N/A	> 10 ⁵

SKF load based life: SKF rating life (L10m) for steel-steel bearings; GBLM load based life (L10GM) for hybrid bearings
 SKF stress based life: SKF AFC life (L10AFC) for steel-steel bearings; GBLM stress based life (L10GMS) for hybrid bearings
 Life value '0' or 'N/A' is shown if the requirements on either minimum load, permissible misalignment or static safety factor is not met.

3.6. Bearing frictional moment & power loss

Bearing	Total frictional moment [Nmm]	Starting torque [Nmm]	Friction torque sources [Nmm]				Power loss [W]
			1) Rolling resistance	2) Sliding	3) Seal	4) Drag	
SKF_bearing_1	4591	1572	3532	324	0	735	20
SKF_bearing_1_1	6307	4050	4737	835	0	735	28

Based on the mean bearing raceway temperature (average of inner ring and outer ring).

3.7. Bearing & shaft displacement

Bearing	Displacement [um]			Misalignment [min]			Total misalignment [min]
	X	Y	Z	YZ	ZX	XY	
SKF_bearing_1	0	0	-111	0	0	0	0
SKF_bearing_1_1	0	0	-93	0	0	0	0

- Bearing displacement and misalignment of inner ring relative to outer ring
- The displacements and misalignments are displayed in the local coordinate system of the bearing

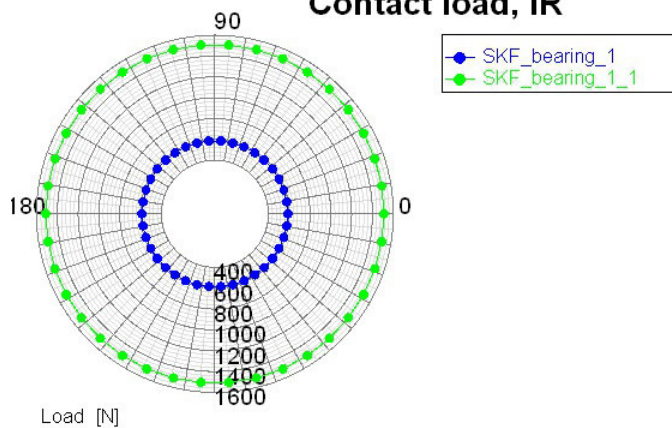
Shaft displacement & misalignment (at interfaces)

Shaft position	Displacement [um]			Misalignment [min]		
	X	Y	Z	YZ	ZX	XY
intf_Force_1_1	0	0	-92	0.0	0.0	0.0
intf_Force_2_1	0	0	-92	0.0	0.0	0.0
intf_Rotation speed_1_1	0	0	-92	0.0	0.0	0.0
intf_SKF_bearing_1_1	0	0	-92	0.0	0.0	0.0
intf_SKF_bearing_1_1_1	0	0	-92	0.0	0.0	0.0
intf_Torque reaction_1_1	0	0	-92	0.0	0.0	0.0

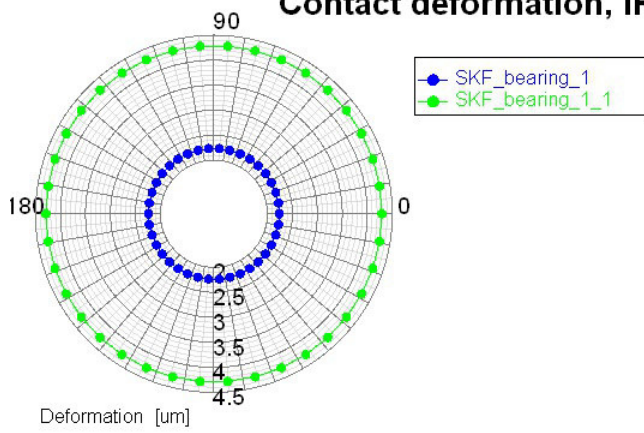
Shaft displacement & misalignment (at positions)

Shaft	Node	Axial position [mm]	Displacement [um]			Misalignment [min]		
			X	Y	Z	YZ	ZX	XY
Shaft	1	0.00	0	0	-92	0.0	0.0	0.0
	2	2.00	0	0	-92	0.0	0.0	0.0
	3	25.00	0	0	-92	0.0	0.0	0.0
	4	41.00	0	0	-92	0.0	0.0	0.0
	5	57.00	0	0	-92	0.0	0.0	0.0
	6	85.00	0	0	-92	0.0	0.0	0.0
	7	107.00	0	0	-92	0.0	0.0	0.0
	8	123.00	0	0	-92	0.0	0.0	0.0
	9	139.00	0	0	-92	0.0	0.0	0.0
	10	142.00	0	0	-92	0.0	0.0	0.0
	11	147.00	0	0	-92	0.0	0.0	0.0
	12	195.88	0	0	-92	0.0	0.0	0.0
	13	197.00	0	0	-92	0.0	0.0	0.0

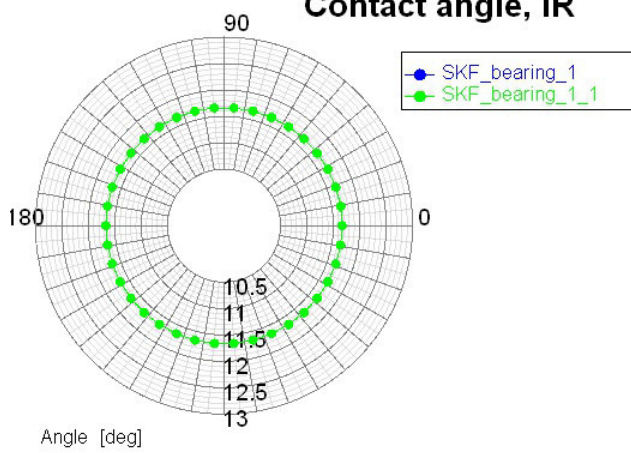
Contact load, IR



Contact deformation, IR

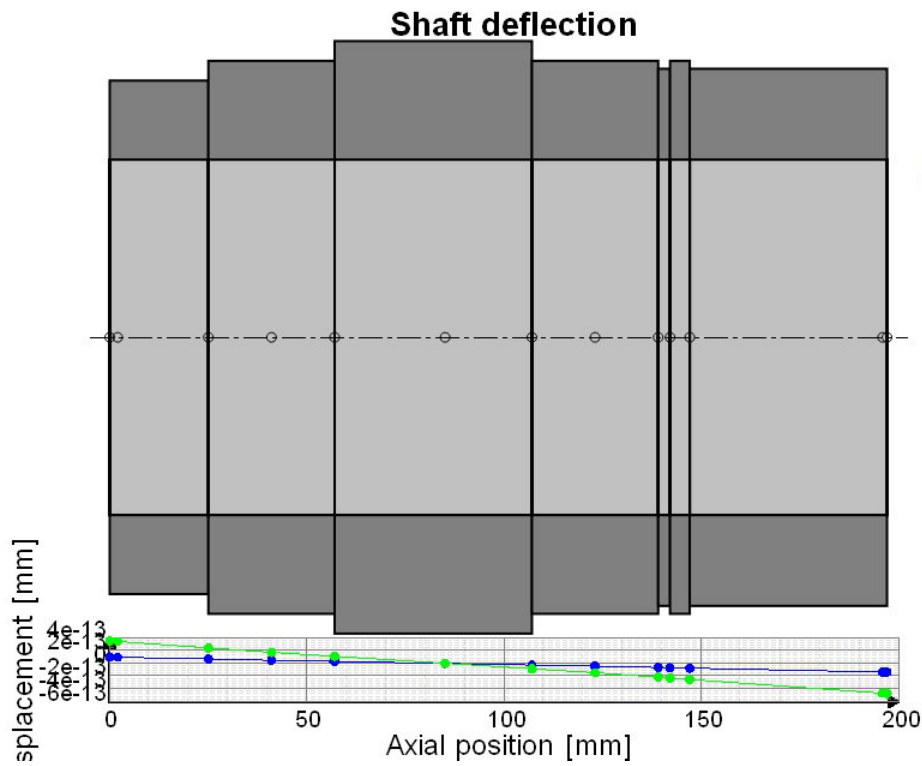


Contact angle, IR



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