

US
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TSCHAN 

Nor-Mex®

Elastomer Jaw Couplings



Partner for Performance
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POWER TRANSMISSION



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Today's RINGFEDER POWER TRANSMISSION GMBH was founded in 1922 in Krefeld, Germany as company for Friction Springs. Today we are a global supplier of top-quality products for the power transmission- and damping technology industries.

RINGFEDER POWER TRANSMISSION is one of the leading companies in selected market niches. Through our sustainable, organic growth, targeted acquisitions and attentive proximity to our customers, we are constantly supplementing and developing our range of products in cooperation with our customers and deliver service for the future. Beyond that, RINGFEDER POWER TRANSMISSION is one of the prime addresses in regard to technical know-how for our discerning customers.





Mars Rover:
Courtesy NASA/
JPL-Caltech



Our world-renowned German brands RINGFEDER, TSCHAN and GERWAH stand for customer-oriented solutions that fulfil the highest requirements and guarantee our customers a trouble-free system operation. Under the brand name ECOLOC we offer reliable products off the shelf.

The brand RINGFEDER is world's leading in the sector of locking devices and damping technology. The GERWAH brand stands for torsionally rigid, elastic couplings as well as safety couplings in the lower torque range, whereas TSCHAN stands for non-shiftable elastic, highly-elastic and torsionally rigid shaft couplings in the higher torque range. The ECOLOC brand includes cost-efficient alternatives from the premium range available for standard use.

Hence, the product portfolio comprises high-quality products with the best cost-benefit ratio, covering all aspects of power transmission.



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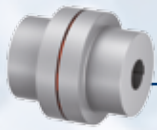
**46 Delivery Program
RINGFEDER POWER TRANSMISSION**

All technical details and information are non-binding and cannot be used as a basis for legal claims. The user is obligated to determine whether the represented products meet his requirements. We reserve the right at all times to carry out modifications

in the interests of technical progress. Upon the issue of this catalogue all previous brochures and questionnaires on the products displayed are no longer valid.



Series



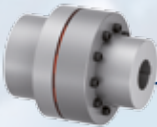
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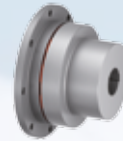
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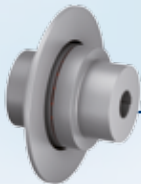
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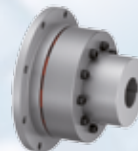
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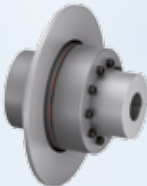
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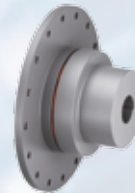
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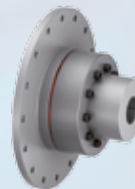
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Type EBT

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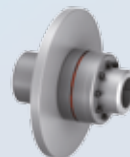
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Type GBT

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Introduction

The rotationally resilient coupling of the TSCHAN® Nor-Mex® series is flexible in all directions and therefore compensates for angular, parallel and axial shaft misalignments of the connected machines. Misalignments can be caused, for example, by inaccurate assembly, heat movements or settling phenomena.

Avoiding torsional vibration

By virtue of the rotational resilience of the coupling, dangerous torsional vibrations from the operational range of plant machinery can be transfer to rotational speed ranges in which no negative effects are to be expected. The elastic intermediate rings possess a high material damping capability which makes it possible for the couplings to keep the resonance enhancements within limits when passing through dangerous speed ranges, thereby protecting the coupled machines against damage. The couplings also mitigate torque shocks and cause a vibrating system that has been excited by an impact to come to rest very quickly due to the material damping qualities. The conduction of structure-borne noise is prevented.

Elastomer materials

Synthetic rubbers are used as base material for the elastic elements of the Nor-Mex® couplings. As a rule these are electrically conductive and therefore prevent undesirable static charges. For the elastic elements of the TSCHAN® Nor-Mex® coupling series, there are two different material hardnesses available as standard.

1. Perbunan (Pb 72) with nitrile rubber (NBR) as the basic material and a hardness of 72 Shore A.
2. Perbunan (Pb 82) with nitrile rubber (NBR) as the basic material and a hardness of 82 Shore A.

The resilience of the individual elastomer materials is designated by their shore hardness. From these values an indirect conclusion can be drawn with respect to the torques the coupling is able to transmit and its spring stiffness. For further details, please see the technical data sheet.

Environmental conditions

The employed elastomer materials operate reliably in ambient temperature ranges of -30 °C to +100 °C. Please contact RINGFEDER POWER TRANSMISSION if higher ambient temperatures are involved. The influence of the temperature on the coupling size selection is explained in more detail in the below-mentioned design directives. It is only allowed to operate the coupling in normal industrial air. Aggressive media may attack the coupling components, bolts and elastic elements and therefore present a danger to the operational safety of the coupling. The coupling can be certified in accordance with the European Directive 94/9/EC, also known as ATEX95. Please contact RINGFEDER POWER TRANSMISSION regarding the declaration of conformity according to 94/9/EC and the effects of aggressive ambient media.

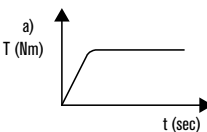
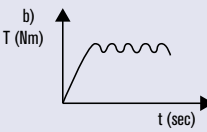
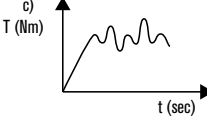
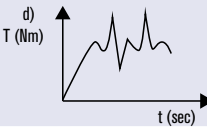
Ambient temperature range [°C]	Temperature factor S_{θ} for intermediate ring materials Pb72, Pb82 (NBR)
-30 < θ < +30	1
+30 < θ < +40	1
+40 < θ < +60	1
+60 < θ < +80	1,2
+80 < θ < +100	1,3
>100	On request

S_{θ} = Temperature factor depending on intermediate ring materials

Drive side	Minimum load factor S_A
E-Motor, turbine	1
Hydraulic motor	1,1
Combustion machine 4 and more cylinders, U-degrees $\leq$ 1:100	1,2 (DSR)*
Combustion machine 1 to 3 cylinders, U-degree > 1:100	1,4 (DSR)*

S_A = Load factor of drive side:

*We recommend for drivers with combustion machines to examine by a 'DSR' - torsional vibration calculation which coupling is suitable for the application!

Torque characteristics at operating point on outside	Torque characteristics	Minimum load factor S_L
Constant, uniform, without torque variation	a) 	1
Uniform with little variations, slight shocks	b) 	1,25
Non-uniform, also API-671, API-610, moderate shocks	c) 	1,5
Non-uniform, fluctuant, heavy shocks	d) 	1,75
Other torque characteristics		Own specification/ personal vibration calculation

S_L = Load factor of output side

Dimensioning of coupling - design directives

The dimensioning of the elastic TSCHAN® couplings is based on the nominal torque T_N and maximum impact torque T_{max} of the machines.

T_N = Nominal torque of machine [Nm]
 P_N = Machine power [kW]
 n_N = Operating speed [min^{-1}]

$$T_N = 9550 \cdot P_N / n_N \quad (1)$$

The following equation applies when subjected to the nominal torque:

$$T_{KN} > T_N \cdot S_\vartheta \cdot S_f \quad (2)$$

T_{KN} = Nominal torque of coupling [Nm] acc. to catalogue data
 T_N = Nominal torque of machine [Nm] acc. to equation (1)
 S_ϑ = Temperature factor [-] according to table
 S_f = Service factor [-] $S_A \cdot S_L$
 S_A = Load factor of drive side
 S_L = Load factor of output side

Verifying the maximum torque of the coupling:

The following equation applies for transient impact torques, which occur e.g. by starting an electric motor.

$$T_{Kmax} > T_{max} \cdot S_\vartheta \cdot S_Z \quad (3)$$

T_{Kmax} = Maximum torque of the coupling [Nm] according to catalogue
 T_{max} = Maximum impact torque of machine [Nm]
 (e.g. when starting an electric motor: $T_{max} = T_{Kipp}$
 T_{Kipp} = Tipping torque by starting with directly engaged asynchronous motor e.g. $T_{Kipp} \sim 2,5 \cdot T$; observe details of motor producer)

Start-ups per hour [1/h]	Start-up factor S_Z
< 120	1
120 - 140	1,3
>240	On request

S_Z = Start-up factor

Check selected coupling size

- Check whether the **hub bore** is able to accommodate the shaft diameters. The values of the maximum finish bores stated in the tables are applicable for keyed connections according to DIN 6885/1 and must not be exceeded.

- Check the power transmission capability of the **shaft-hub-connection**. The nominal torques stated in the tables will be reliably transmitted by the couplings. The introduction of the torque into the coupling hub has to be verified by the user of the coupling according to recognized rules of technology. If necessary, the second key is to be offset by 180°.

- Observe the **maximum permissible speed** of the coupling.

- Check whether **balancing** is necessary. We advise to balance the coupling parts or sub assemblies if the circumferential speed at the outer diameter exceeds 22 m/s. Balancing can only be performed on couplings with finish-bores. Unless otherwise specified, the half-key convention applies, so that the coupling hubs are balanced prior to producing the keyways. Required are balancing quality and balancing speed.

Dimensioning example

Example for dimensioning a coupling for a pump drive with electric motor type IEC 225 M; preselected type: TSCHAN® Nor-Mex® G

Input power P_N =	45 kW	
Operating speed n_N =	1480 min^{-1}	
Nominal torque T_N =	$9550 \cdot P_N / n = 9550 \cdot 45 / 1480 = 290 \text{ Nm}$	Acc. to equation (1)
Ambient temperatur ϑ =	65 °C	
→ Temperature factor S_ϑ =	1,2	Pb72
Load factor		
Drive motor	Directly engaged asynchronous motor (Δ -connection)	
→ Load factor of drive side S_A =	1	
Working machine	Centrifugal pump - torque characteristics uniform with little variations, skight shocks	Figure b)
→ Load factor of output side S_L =	1,25	
Required nominal torque of the coupling $T_{KN} >$	$T_N \cdot S_\vartheta \cdot S_f = 290 \text{ Nm} \cdot 1,2 \cdot 1,25 = 435 \text{ Nm}$	Acc. to equation (2)

S_Z = Start-up factor

The dimension of coupling G 168 Pb72 is OK for the performance data and a nominal torque of 630 Nm is selected. The operating speed of 1480 min^{-1} results in a circumferential speed of 13 m/s. Therefore it is not necessary to balance the coupling parts. If the shaft-hub connections are dimensioned sufficiently, this coupling can be used.

Technical installation instructions

Arrangement of the coupling parts

The coupling hubs have to be arranged on the shaft ends in accordance with the coupling type. In order to obtain a shaft-hub connection that is capable of carrying the load it is important to ensure that the hubs are pushed onto the shaft until the face of the hub is flush with the shaft end.

Finished bore

The stated values for the finished bore $d_{1f\max}/d_{2f\max}$ are valid for a keyway according to DIN 6885/1 and must not be exceeded. To ensure true running, select the bore fit in such a manner that, when mating it with the shaft tolerance, a tight fit or light interference fit, such as e.g. H7/m6 or tighter, results.

Fastening on a shaft

If not specified TSCHAN® couplings are usually supplied with keyways according to DIN 6885/1. In addition, the hub should be axially locked in position, for example by means of a set screw, or by means of distance rings in case of longer shaft ends. The key must be axially fixed in the shaft.

Observe restoring forces

The coupling compensates the permissible misalignments with low restoring forces. Please observe the alignment values specified in the assembly and operation manual. If highly loaded bearings are involved, the additional loads resulting from the restoring forces should be taken into consideration. In such cases, please contact RINGFEDER POWER TRANSMISSION for more detailed information.

Shaft end bearings

The shaft ends to be coupled should be supported by bearings which are directly fitted in front and after the coupling.

Attention!

In the interest of further development, we reserve the right to make changes which serve technological progress. Carefully observe the actually instructions given in the relevant installation and operation manual, which can be downloaded from our webpage www.ringfeder.com.

Data overview:

The technical data tables for the coupling types supplied in this catalogue include elastic elements that are available in two different shore hardness values (Pb72 and Pb82). The higher the hardness of the elastic elements, the higher the torque transmission capability of the coupling and as a result the higher is the spring stiffness. The rated torque T_{KN} listed in the tables is the torque that the cou-

pling is capable of transmitting continuously. The maximum torque T_{Kmax} is the torque that the coupling is able to transmit for short periods, e.g. during start-up.

When the hard elastic element of Pb82 is used for multi-part coupling designs, it has to be taken into account that the maximum transmittable torque (T_{KGmax}) is reduced. In these cases, T_{Kmax} is limited by the frictional engagement between the coupling hub and the claw ring.

Torsional vibration analyses (DSR) are performed by specialists to optimize the drive line. To this purpose, a detailed description of the oscillatory system is required, including the mechanical arrangement (spring-mass system) as well as the plant-related excitation functions. The specific coupling data such as stiffness, damping and mass moments of inertia will be supplied on request.

Data overview

T_{KN} = Nominal torque of coupling

T_{Kmax} = Max. torque of the coupling by one part design

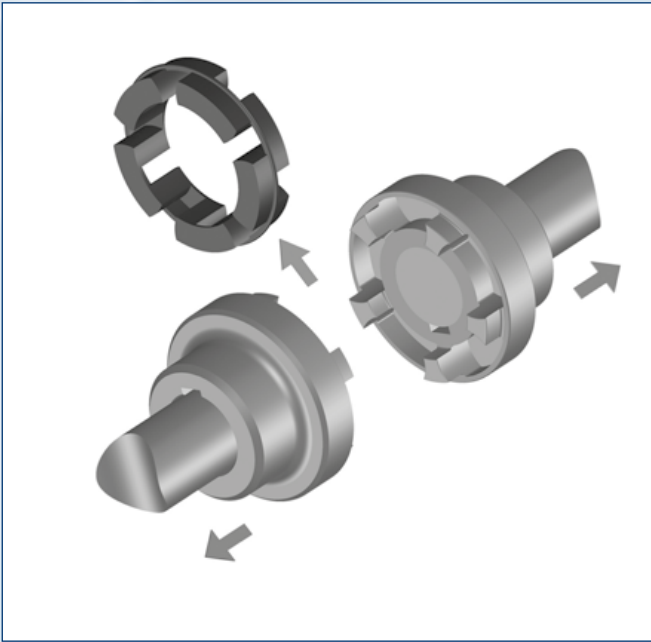
T_{KGmax} = Max. torque of the coupling by multi-part design

Size	Speed	Torque with intermediate ring				
		Pb72		Pb82		
	n_{max}	T_{KN}	T_{Kmax}	T_{KN}	T_{Kmax}	T_{KGmax}
	rpm	ft-lbs	ft-lbs	ft-lbs	ft-lbs	ft-lbs
50	5000	10	20	15	33	---
67	5000	16	33	26	55	---
82	5000	35	74	55	118	111
97	5000	71	148	111	251	155
112	5000	111	229	170	398	398
128	5000	184	369	280	634	479
148	4500	288	590	443	996	996
168	4000	465	959	723	1660	1328
194	3500	774	1475	1217	2677	1770
214	3000	1106	2286	1770	3983	3098
240	2750	1770	3540	2729	6380	4573
265	2500	2729	5532	4278	9957	6122
295	2250	3614	7376	5569	13276	7744
330	2000	4720	9588	7302	17259	10695
370	1750	6564	13424	10326	24155	14751
415	1500	9736	19914	15120	36141	19914
480	1400	13276	26553	20652	48680	48680
575	1200	19914	39829	30240	71913	71913

Basics

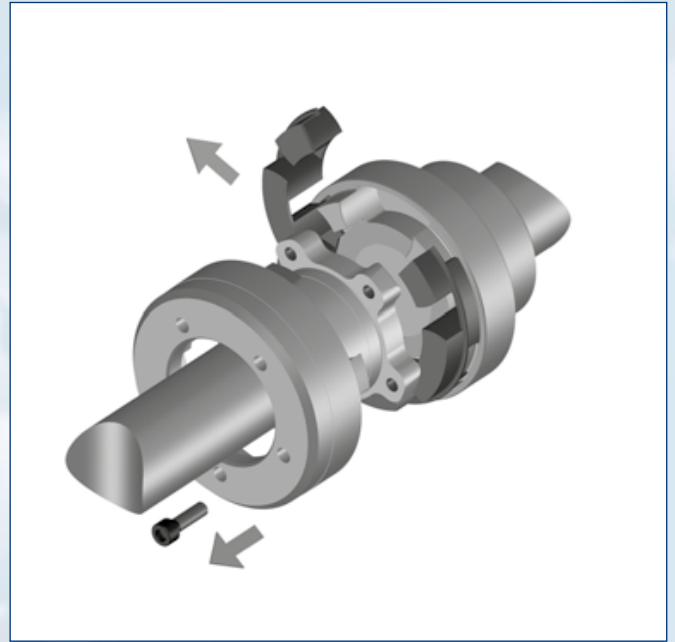
Principle of the one-part design

Elastic elements replacement requires extensive dismantling operations as the driving and driven machines have to be moved axially.



Principle of the multi-part design

Elastic elements replacement only requires a minimum of work and the driving and driven machines do not need to be axially displaced.



Classification of the Nor-Mex®-Couplings for IEC-Motors

Size	Motor	n=3.000 min ⁻¹	Coupling size	n=1.500 min ⁻¹	Coupling size	n=1.000 min ⁻¹	Coupling size	n=750 min ⁻¹	Coupling size	Cyl. shaft end d x L by rotary speed of	
		kW		kW		kW		kW		= 3000 min ⁻¹	≤ 3000 min ⁻¹
56	-	0,09	50	0,06	50	0,04	50	-	-	9x20	9x20
56	-	0,12	50	0,09	50	0,05	50	-	-	9x20	9x20
63	-	0,18	50	0,12	50	0,06	50	-	-	11x23	11x23
63	-	0,25	50	0,18	50	0,09	50	-	-	11x23	11x23
71	-	0,37	50	0,25	50	0,18	50	0,09	50	14x30	14x30
71	-	0,55	50	0,37	50	0,25	50	0,12	50	14x30	14x30
80	-	0,75	50	0,55	50	0,37	50	0,18	50	19x40	19x40
80	-	1,1	50	0,75	50	0,55	50	0,25	50	19x40	19x40
90	S	1,5	67	1,1	67	0,75	67	0,37	67	24x50	24x50
90	L	2,2	67	1,5	67	1,1	67	0,55	67	24x50	24x50
100	L	3	67	2,2	82	1,5	67	0,75	67	28x60	28x60
100	L	-	-	3	82	-	-	1,1	67	28x60	28x60
112	M	4	67	5	82	2,2	82	1,5	82	28x60	28x60
132	S	5,5	97	5,5	97	3	97	2,2	97	38x80	38x80
132	S	7,5	97	-	-	-	-	-	-	38x80	38x80
132	M	-	-	7,5	-	4	97	3	97	38x80	38x80
132	M	-	-	-	97	5,5	97	-	-	42x110	42x110
160	M	11	97	11	-	7,5	97	4	97	42x110	42x110
160	M	15	97	-	97	-	-	5,5	97	42x110	42x110
160	L	18,5	112	15	-	11	112	7,5	112	48x110	48x110
180	M	22	112	18,5	112	-	-	-	-	48x110	48x110
180	L	-	-	22	112	15	128	11	128	55x110	55x110
200	L	30	128	30	128	18,5	128	15	128	55x110	55x110
200	L	37	128	-	148	22	128	-	-	60x140	60x140
225	S	-	-	37	-	-	-	18,5	148	60x140	60x140
225	M	45	128	45	148	30	148	22	148	65x140	65x141
250	M	55	148	55	148	37	168	30	168	75x140	75x140
280	S	75	18	75	168	45	168	37	168	75x140	75x140
280	M	90	148	90	168	55	194	45	194	80x170	80x170
315	S	110	168	110	194	75	194	55	194	80x170	80x170
315	M	132	168	132	194	90	194	75	214	80x170	80x170
315	L	160	168	160	214	110	214	90	214	80x170	80x170
315	L	200	194	200	240	132	240	110	240	80x170	80x170
315	L	-	-	-	-	160	240	132	240	80x170	80x170
315	-	250	194	250	240	200	240	160	265	85x170	85x170
315	-	315	214	315	265	250	265	200	265	85x170	85x170
355	-	355	214	355	265	315	295	250	295	95x170	95x170
355	-	400	-	400	265	400	295	315	330	95x170	95x170
355	-	500	-	500	295	-	-	-	-	95x170	95x170
400	-	560	-	560	295	450	330	355	330	110x210	110x210
400	-	630	-	630	330	500	330	400	330	110x210	110x210
400	-	710	-	710	330	560	370	450	370	110x210	110x210
450	-	800	-	800	330	630	370	500	370	120x210	120x210
450	-	900	-	900	370	710	370	560	370	120x210	120x210
450	-	1000	-	1000	370	800	415	630	415	120x210	120x210

Pumps



One-part design with 2 identical coupling hubs

Coupling hub in grey cast iron, size 480 and 575 in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

- D₈** = Outer diameter
- T_{KNPb72}** = Coupling nominal torque using element Pb72
- T_{KNPb82}** = Coupling nominal torque using element Pb82
- n_{max}** = Max. rotation speed
- d_{1f max}** = Max. bore diameter d_{1f} with keyway or other form closure connection
- d_{2f max}** = Max. bore diameter d_{2f} with keyway or other form closure connection
- D₃** = Outer diameter hub



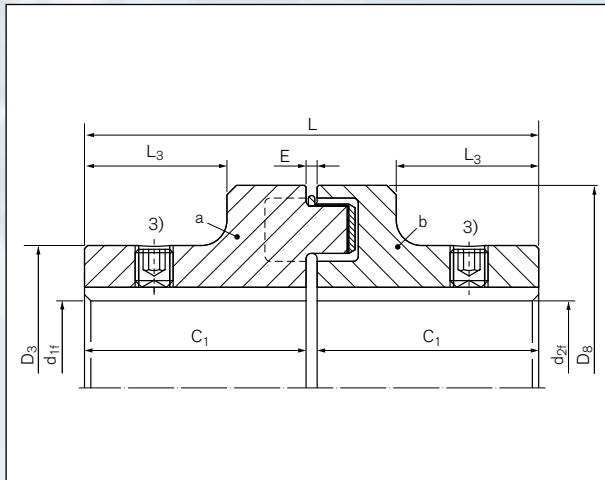
Dimensions

Identifier	Size D ₈	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{1f max}	d _{2f max}	D ₃	
	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	
WN0105	1.969	10	15	5000	0.748	0.748	1.299	
WN0106	2.638	16	26	5000	1.102	1.102	1.811	
WN0108	3.228	35	55	5000	1.260	1.260	2.087	
WN0109	3.819	71	111	5000	1.654	1.654	2.717	
WN0111	4.409	111	170	5000	1.890	1.890	3.110	
WN0112	5.039	184	280	5000	2.165	2.165	3.543	
WN0114	5.827	288	443	4500	2.559	2.559	4.213	
WN0116	6.614	465	723	4000	2.953	2.953	4.882	
WN0119	7.638	774	1,217	3500	3.346	3.346	5.512	
WN0121	8.425	1,106	1,770	3000	3.740	3.740	6.181	
WN0124	9.449	1,770	2,729	2750	4.331	4.331	7.047	
WN0126	10.433	2,729	4,278	2500	4.724	4.724	7.795	
WN0129	11.614	3,614	5,569	2250	5.118	5.118	8.425	
WN0133	12.992	4,720	7,302	2000	5.906	5.906	9.764	
WN0137	14.567	6,564	10,326	1750	6.693	6.693	10.945	
WN0141	16.339	9,736	15,120	1500	7.480	7.480	12.402	
WN0148	18.898	13,276	20,652	2100	8.268	8.268	12.402	
WN0157	22.638	19,914	30,240	1800	9.055	9.055	13.780	

Ordering example: Nor-Mex® E

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0119	82	2.953	2.756	*

²⁾ Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

- C₁** = Guided length in hub boring
- L** = Total length
- L₃** = Section length of hub
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- G_{wa}** = Weight of subassembly a
- G_{wub}** = Weight, unbored

Dimensions

	Identifier	C ₁	L	L ₃	E	F _E	G _{wa} ¹⁾	G _{wub}
		inch	inch	inch	inch	inch	lbs	lbs
	WN0105	0.984	2.047	0.512	0.079	+/- 0.020	0.44	0.88
	WN0106	1.181	2.461	0.591	0.098	+/- 0.020	1.10	2.20
	WN0108	1.575	3.268	0.945	0.118	+/- 0.039	1.98	3.97
	WN0109	1.969	4.055	1.181	0.118	+/- 0.039	3.75	7.50
	WN0111	2.362	4.862	1.496	0.138	+/- 0.039	5.73	11.68
	WN0112	2.756	5.650	1.772	0.138	+/- 0.039	9.04	18.08
	WN0114	3.150	6.437	2.047	0.138	+/- 0.039	13.89	28.00
	WN0116	3.543	7.224	2.205	0.138	+/- 0.059	21.16	42.55
	WN0119	3.937	8.012	2.441	0.138	+/- 0.059	30.42	61.51
	WN0121	4.331	8.819	2.677	0.157	+/- 0.079	42.11	84.22
	WN0124	4.724	9.606	2.953	0.157	+/- 0.079	58.86	117.73
	WN0126	5.512	11.240	3.543	0.217	+/- 0.098	82.67	165.35
	WN0129	5.906	12.126	3.858	0.315	+/- 0.098	105.60	210.98
	WN0133	6.299	12.913	4.094	0.315	+/- 0.098	146.61	292.99
	WN0137	7.087	14.488	4.646	0.315	+/- 0.098	207.01	413.81
	WN0141	7.874	16.063	5.315	0.315	+/- 0.098	285.94	571.66
	WN0148	8.661	17.638	5.906	0.315	+/- 0.098	362.44	724.66
	WN0157	9.449	19.213	6.693	0.315	+/- 0.098	514.78	1,029.56

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

Multi-part design, to change the intermediate ring without axial movement of the driven parts

Coupling hub and claw ring in grey cast iron, size 480 and 575 in nodular cast iron,

Flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₃	=	Outer diameter hub
D₄	=	Outer diameter hub
C₁	=	Guided length in hub boring



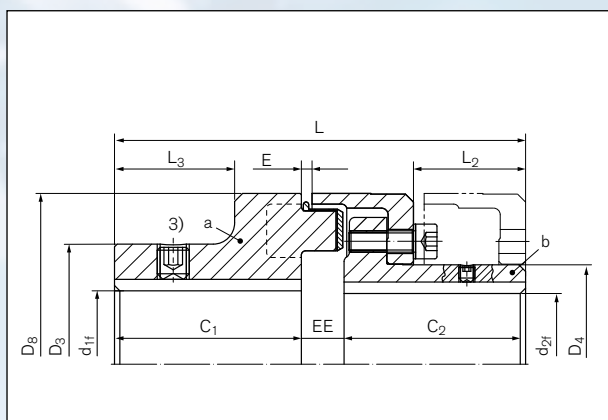
Dimensions

Identifier	Size D ₈	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{1f max}	d _{2f max}	D ₃	D ₄	C ₁	
	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	inch	
WN0208	3.228	35	55	5000	1.260	1.260	2.087	1.752	1.575	
WN0209	3.819	71	111	5000	1.654	1.535	2.717	2.146	1.969	
WN0211	4.409	111	170	5000	1.890	1.811	3.110	2.539	2.362	
WN0212	5.039	184	280	5000	2.165	2.087	3.543	2.933	2.756	
WN0214	5.827	288	443	4500	2.559	2.559	4.213	3.642	3.150	
WN0216	6.614	465	723	4000	2.953	2.953	4.882	4.114	3.543	
WN0219	7.638	774	1,217	3500	3.346	3.346	5.512	4.783	3.937	
WN0221	8.425	1,106	1,770	3000	3.740	3.740	6.181	5.335	4.331	
WN0224	9.449	1,770	2,729	2750	4.331	3.937	7.047	5.748	4.724	
WN0226	10.433	2,729	4,278	2500	4.724	4.528	7.795	6.457	5.512	
WN0229	11.614	3,614	5,569	2250	5.118	5.118	8.425	7.126	5.906	
WN0233	12.992	4,720	7,302	2000	5.906	5.315	9.764	8.189	6.299	
WN0237	14.567	6,564	10,326	1750	6.693	6.299	10.945	9.488	7.087	
WN0241	16.339	9,736	15,120	1500	7.480	7.087	12.402	10.827	7.874	
WN0248	18.898	13,276	20,652	1400	8.268	7.874	12.402	11.378	8.661	
WN0257	22.638	19,914	30,240	1200	9.055	11.024	13.780	14.488	9.449	

Ordering example: Nor-Mex® G

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0219	72	3.150	2.441	*

²⁾ Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

C₂	=	Guided length in hub boring d ₂
L	=	Total length
L₂	=	Length of the hub
L₃	=	Section length of hub
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
F_{EE}	=	Tolerance of the hub distance
G_{wa}	=	Weight of subassembly a
G_{wub}	=	Weight, unbored

Dimensions

	Identifier	C ₂	L	L ₂	L ₃	E	F _E	EE	F _{EE}	G _{wa} ¹⁾	G _{wub}
		inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0208	1.575	3.622	0.787	0.945	0.118	+/- 0.039	0.472	+/- 0.039	1.98	4.41
	WN0209	1.929	4.449	1.201	1.181	0.118	+/- 0.039	0.551	+/- 0.039	3.75	7.50
	WN0211	2.283	5.236	1.280	1.496	0.138	+/- 0.039	0.591	+/- 0.039	5.73	12.13
	WN0212	2.677	6.063	1.654	1.772	0.138	+/- 0.039	0.630	+/- 0.039	9.04	18.30
	WN0214	3.071	6.929	1.850	2.047	0.138	+/- 0.039	0.709	+/- 0.039	13.89	28.88
	WN0216	3.425	7.795	2.067	2.205	0.138	+/- 0.059	0.827	+/- 0.059	21.16	42.77
	WN0219	3.819	8.701	2.362	2.441	0.138	+/- 0.059	0.945	+/- 0.059	30.42	63.05
	WN0221	4.213	9.567	2.618	2.677	0.157	+/- 0.079	1.024	+/- 0.079	42.11	85.54
	WN0224	4.606	10.512	2.972	2.953	0.157	+/- 0.079	1.181	+/- 0.079	58.86	115.52
	WN0226	5.394	12.205	3.465	3.543	0.217	+/- 0.079	1.299	+/- 0.098	82.67	166.01
	WN0229	5.787	13.150	3.780	3.858	0.315	+/- 0.098	1.457	+/- 0.098	105.60	214.51
	WN0233	6.142	14.016	3.996	4.094	0.315	+/- 0.098	1.575	+/- 0.098	146.61	286.60
	WN0237	6.929	15.709	4.606	4.646	0.315	+/- 0.098	1.693	+/- 0.098	207.01	404.77
	WN0241	7.717	17.362	5.157	5.315	0.315	+/- 0.098	1.772	+/- 0.098	285.94	569.23
	WN0248	8.661	19.094	5.866	5.906	0.315	+/- 0.098	1.772	+/- 0.098	362.44	763.90
	WN0257	9.449	20.669	6.614	6.693	0.315	+/- 0.098	1.772	+/- 0.098	514.78	1,165.81

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

One part design with brake disc in nodular cast iron

Coupling hubs in grey cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₃	=	Outer diameter hub
D₇	=	Outer diameter hub



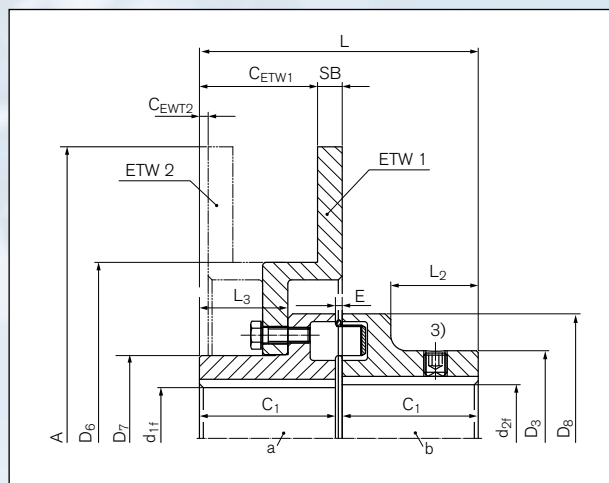
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} 2)	T _{KNPb82} 2)	T _{BR} 4)	n _{max}	d _{1f max}	d _{2f max}	D ₃	D ₇
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch
WN0311-250	4.409	9.843	0.500	111	170	332	4580	1.654	1.890	3.110	2.677
WN0311-300	4.409	11.811	0.500	111	170	332	3820	1.654	1.890	3.110	2.677
WN0312-300	5.039	11.811	0.500	184	280	406	3820	2.047	2.165	3.543	3.346
WN0314-300	5.827	11.811	0.500	288	443	738	3820	2.283	2.559	4.213	3.701
WN0316-356	6.614	14.016	0.500	465	723	1,180	3225	2.835	2.953	4.882	4.646
WN0316-406	6.614	15.984	0.500	465	723	1,180	2825	2.835	2.953	4.882	4.646
WN0319-406	7.638	15.984	0.500	774	1,217	2,028	2825	3.346	3.346	5.512	5.433
WN0319-457	7.638	17.992	0.500	774	1,217	2,028	2510	3.346	3.346	5.512	5.433
WN0321-406	8.425	15.984	0.500	1,106	1,770	2,471	2825	3.622	3.740	6.181	6.024
WN0321-514	8.425	20.236	0.500	1,106	1,770	2,471	2510	3.622	3.740	6.181	6.024
WN0324-457	9.449	17.992	0.500	1,770	2,729	3,098	2510	4.016	4.331	7.047	6.614
WN0324-514	9.449	20.236	0.500	1,770	2,729	3,098	2230	4.016	4.331	7.047	6.614

Ordering example: Nor-Mex® ETW

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0319-406	72	3.150	2.441	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

C₁	=	Guided length in hub boring
L	=	Total length
L₂	=	Length of the hub
L₃	=	Section length of hub
C_{ETW1}	=	Distance when using brake disc assembly ETW1
C_{ETW2}	=	Distance when using brake disc assembly ETW2
D₆	=	Diameter
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
GW_{BS}	=	Weight of part with brake disc, unbored
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	C ₁	L	L ₂	L ₃	C _{ETW1} ¹⁾	C _{ETW2} ¹⁾	D ₆	E	F _E	GW _{BS}	GW _{ub}
		inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0311-250	2.362	4.862	1.496	1.516	2.197	0.098	5.039	0.138	+/- 0.039	13.45	19.40
	WN0311-300	2.362	4.862	1.496	1.516	2.118	-0.098	7.126	0.138	+/- 0.039	20.06	25.79
	WN0312-300	2.756	5.650	1.772	1.791	2.394	0.177	7.126	0.138	+/- 0.039	23.15	32.19
	WN0314-300	3.150	6.437	2.047	2.067	2.669	0.453	7.126	0.138	+/- 0.039	26.68	40.57
	WN0316-356	3.543	7.224	2.205	2.224	3.220	0.098	8.268	0.138	+/- 0.059	40.57	61.73
	WN0316-406	3.543	7.224	2.205	2.224	3.339	0.098	10.236	0.138	+/- 0.059	46.96	68.34
	WN0319-406	3.937	8.012	2.441	2.461	3.575	0.335	10.236	0.138	+/- 0.059	55.56	86.20
	WN0319-457	3.937	8.012	2.441	2.461	3.457	0.335	12.244	0.138	+/- 0.059	66.36	97.00
	WN0321-406	4.331	8.819	2.677	2.697	3.811	0.571	10.236	0.157	+/- 0.079	65.48	107.59
	WN0321-514	4.331	8.819	2.677	2.697	3.693	0.571	12.244	0.157	+/- 0.079	76.06	118.17
	WN0324-457	4.724	8.819	2.953	2.972	3.968	0.846	12.244	0.157	+/- 0.079	89.07	147.71
	WN0324-514	4.724	8.819	2.953	2.972	3.968	0.846	14.488	0.157	+/- 0.079	100.09	158.73

To continue see next page

¹⁾ Assembly of brake disc optionally, standard combination ETW1, otherwise ETW2
²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8
³⁾ Set screw on demand
⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

One part design with brake disc in nodular cast iron

Coupling hubs in grey cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₃	=	Outer diameter hub
D₇	=	Outer diameter hub



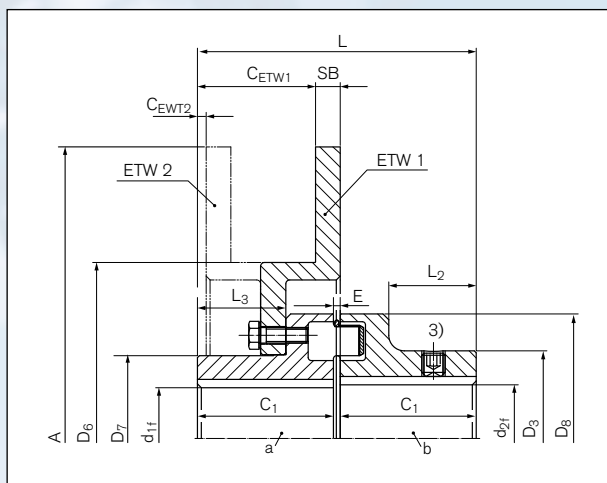
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	T _{BR} ⁴⁾	n _{max}	d _{1f max}	d _{2f max}	D ₃	D ₇
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch
WN0326-457	10.433	17.992	0.500	2,729	4,278	6,417	2510	4.724	4.724	7.677	7.795
WN0326-514	10.433	20.236	0.500	2,729	4,278	6,417	2230	4.724	4.724	7.677	7.795
WN0329-514	11.614	20.236	0.500	3,614	5,569	7,228	2230	5.118	5.118	8.425	8.425
WN0329-610	11.614	24.016	0.500	3,614	5,569	7,228	1880	5.118	5.118	8.425	8.425
WN0333-514	12.992	20.236	0.500	4,720	7,302	7,818	2230	5.906	5.906	9.764	9.764
WN0333-610	12.992	24.016	0.500	4,720	7,302	7,818	1880	5.906	5.906	9.764	9.764
WN0337-610	14.567	24.016	0.500	6,564	10,326	9,957	1880	6.693	6.693	10.945	10.945
WN0337-711	14.567	27.992	0.500	6,564	10,326	9,957	1615	6.693	6.693	10.945	10.945
WN0341-610	16.339	24.016	0.500	9,736	15,120	11,801	1880	7.283	7.480	12.402	12.126
WN0341-711	16.339	27.992	0.500	9,736	15,120	11,801	1615	7.283	7.480	12.402	12.126
WN0341-812	16.339	31.968	0.500	9,736	15,120	11,801	1410	7.283	7.480	12.402	12.126
WN0341-915	16.339	36.024	0.500	9,736	15,120	11,801	1255	7.283	7.480	12.402	12.126

Ordering example: Nor-Mex® ETW

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0333-610	72	4.724	3.937	*

²⁾ Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

- C₁** = Guided length in hub boring
- L** = Total length
- L₂** = Length of the hub
- L₃** = Section length of hub
- C_{ETW1}** = Distance when using brake disc assembly ETW1
- C_{ETW2}** = Distance when using brake disc assembly ETW2
- D₆** = Diameter
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- GW_{BS}** = Weight of part with brake disc, unbored
- GW_{ub}** = Weight, unbored

Dimensions

	Identifier	C ₁	L	L ₂	L ₃	C _{ETW1} ¹⁾	C _{ETW2} ¹⁾	D ₆	E	F _E	GW _{BS}	GW _{ub}
		inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0326-457	5.512	11.240	3.543	3.563	4.559	1.437	12.244	0.217	+/- 0.098	114.42	197.09
	WN0326-514	5.512	11.240	3.543	3.563	4.559	1.437	14.488	0.217	+/- 0.098	125.00	207.68
	WN0329-514	5.906	12.126	3.858	3.878	4.874	1.752	14.488	0.315	+/- 0.098	144.84	250.22
	WN0329-610	5.906	12.126	3.858	3.878	4.874	1.752	18.268	0.315	+/- 0.098	169.09	274.48
	WN0333-514	6.299	12.913	4.094	4.114	5.110	1.988	14.488	0.315	+/- 0.098	182.54	329.15
	WN0333-610	6.299	12.913	4.094	4.114	5.110	1.988	18.268	0.315	+/- 0.098	206.79	353.40
	WN0337-610	7.087	14.488	4.646	4.665	5.661	2.539	18.268	0.315	+/- 0.098	261.91	468.92
	WN0337-711	7.087	14.488	4.646	4.665	5.543	2.539	22.244	0.315	+/- 0.098	295.64	502.43
	WN0341-610	7.874	16.063	5.315	5.335	6.331	3.209	18.268	0.315	+/- 0.098	330.25	616.19
	WN0341-711	7.874	16.063	5.315	5.335	6.213	3.209	22.244	0.315	+/- 0.098	363.10	648.82
	WN0341-812	7.874	16.063	5.315	5.335	5.976	3.209	25.984	0.315	+/- 0.098	433.87	719.59
	WN0341-915	7.874	16.063	5.315	5.335	5.976	3.209	29.921	0.315	+/- 0.098	500.89	786.61

1) Assembly of brake disc optionally, standard combination ETW1, otherwise ETW2
2) Attention on peak load - take into account maximum torque notified in data overview page 8
3) Set screw on demand
4) Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

Multi-part design, to change the intermediate ring without axial movement of the driven parts with brake disc in nodular cast iron

Coupling hub and claw ring in grey cast iron, flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₄	=	Outer diameter hub
D₇	=	Outer diameter hub



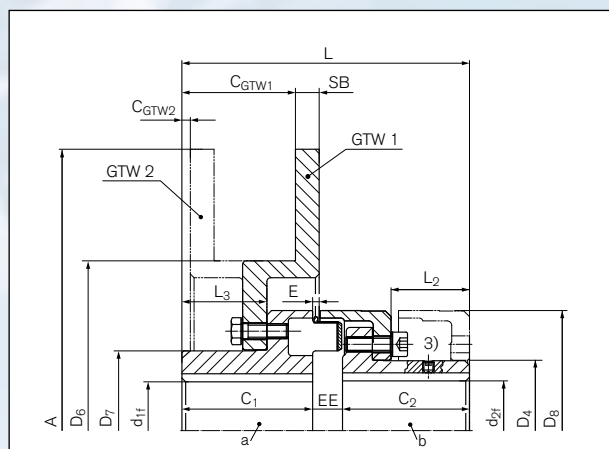
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} 2)	T _{KNPb82} 2)	T _{BR} 4)	n _{max}	d _{1f max}	d _{2f max}	D ₄	D ₇	
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	
WN0411-250	4.409	9.843	0.500	111	170	332	4580	1.654	1.811	2.539	2.677	
WN0411-300	4.409	11.811	0.500	111	170	332	3820	1.654	1.811	2.539	2.677	
WN0412-300	5.039	11.811	0.500	184	280	406	3820	2.047	2.087	2.933	3.346	
WN0414-300	5.827	11.811	0.500	288	443	738	3820	2.283	2.559	3.642	3.701	
WN0416-356	6.614	14.016	0.500	465	723	1,180	3225	2.835	2.953	4.114	4.646	
WN0416-406	6.614	15.984	0.500	465	723	1,180	2825	2.835	2.953	4.114	4.646	
WN0419-406	7.638	15.984	0.500	774	1,217	2,028	2825	3.346	3.346	4.783	5.433	
WN0419-457	7.638	17.992	0.500	774	1,217	2,028	2510	3.346	3.346	4.783	5.433	
WN0421-406	8.425	15.984	0.500	1,106	1,770	2,471	2825	3.622	3.740	5.335	6.024	
WN0421-514	8.425	20.236	0.500	1,106	1,770	2,471	2510	3.622	3.740	5.335	6.024	
WN0424-457	9.449	17.992	0.500	1,770	2,729	3,098	2510	4.016	3.937	5.748	6.614	
WN0424-514	9.449	20.236	0.500	1,770	2,729	3,098	2230	4.016	3.937	5.748	6.614	

Ordering example: Nor-Mex® GTW

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0419-406	72	3.145	2.441	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

C₁	=	Guided length in hub boring
C₂	=	Guided length in hub boring d ₂
L	=	Total length
L₂	=	Length of the hub
L₃	=	Section length of hub
C_{GTW1}	=	Distance, when using brake disc assembly GTW1
C_{GTW2}	=	Distance, when using brake disc assembly GTW2
D₆	=	Diameter
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
F_{EE}	=	Tolerance of the hub distance
GW_{BS}	=	Weight of part with brake disc, unbored
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	C ₁	C ₂	L	L ₂	L ₃	C _{GTW1} ¹⁾	C _{GTW2} ¹⁾	D ₆	E	F _E	EE	F _{EE}	GW _{BS}	GW _{ub}
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0411-250	2.362	2.283	5.236	1.280	1.516	2.197	0.098	5.039	0.138	+/- 0.039	0.591	+/- 0.039	13.45	19.40
	WN0411-300	2.362	2.283	5.236	1.280	1.516	2.118	-0.098	7.126	0.138	+/- 0.039	0.591	+/- 0.039	20.06	25.79
	WN0412-300	2.756	2.677	6.063	1.654	1.791	2.394	0.177	7.126	0.138	+/- 0.039	0.630	+/- 0.039	23.15	32.19
	WN0414-300	3.150	3.071	6.929	1.850	2.067	2.669	0.453	7.126	0.138	+/- 0.039	0.709	+/- 0.039	26.68	40.57
	WN0416-356	3.543	3.425	7.795	2.067	2.224	3.220	0.098	8.268	0.138	+/- 0.059	0.827	+/- 0.059	40.57	61.73
	WN0416-406	3.543	3.425	7.795	2.067	2.224	3.339	0.098	10.236	0.138	+/- 0.059	0.827	+/- 0.059	46.96	68.34
	WN0419-406	3.937	3.819	8.701	2.362	2.461	3.575	0.335	10.236	0.138	+/- 0.059	0.945	+/- 0.059	55.56	86.20
	WN0419-457	3.937	3.819	8.701	2.362	2.461	3.457	0.335	12.244	0.138	+/- 0.059	0.945	+/- 0.059	66.36	97.00
	WN0421-406	4.331	4.213	9.567	2.618	2.697	3.811	0.571	10.236	0.157	+/- 0.079	1.024	+/- 0.079	65.48	107.59
	WN0421-514	4.331	4.213	9.567	2.618	2.697	3.693	0.571	12.244	0.157	+/- 0.079	1.024	+/- 0.079	76.06	118.17
	WN0424-457	4.724	4.606	10.512	2.972	2.972	3.968	0.846	12.244	0.157	+/- 0.079	1.181	+/- 0.079	89.07	147.71
	WN0424-514	4.724	4.606	10.512	2.972	2.972	3.968	0.846	14.488	0.157	+/- 0.079	1.181	+/- 0.079	100.09	158.73

To continue see next page

¹⁾ Assembly of brake disc optionally, standard combination GTW1, otherwise GTW2
²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8
³⁾ Set screw on demand
⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

Multi-part design, to change the intermediate ring without axial movement of the driven parts with brake disc in nodular cast iron

Coupling hub and claw ring in grey cast iron, flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₄	=	Outer diameter hub
D₇	=	Outer diameter hub



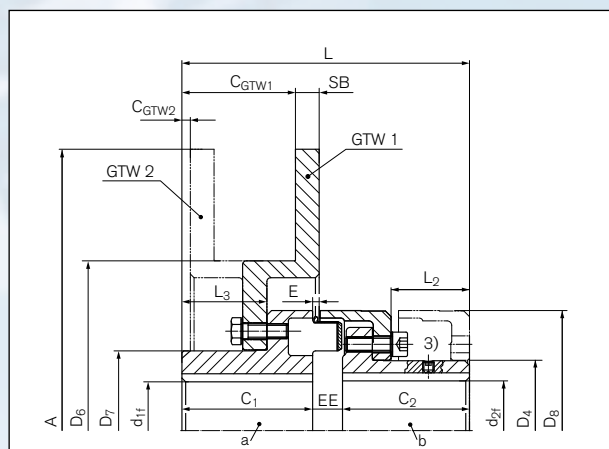
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} 2)	T _{KNPb82} 2)	T _{BR} 4)	n _{max}	d _{1f max}	d _{2f max}	D ₄	D ₇
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch
WN0426-457	10.433	17.992	0.500	2,729	4,278	6,417	2510	4.724	4.528	6.457	7.677
WN0426-514	10.433	20.236	0.500	2,729	4,278	6,417	2230	4.724	4.528	6.457	7.677
WN0429-514	11.614	20.236	0.500	3,614	5,569	7,228	2230	5.118	5.118	7.126	8.425
WN0429-610	11.614	24.016	0.500	3,614	5,569	7,228	1880	5.118	5.118	7.126	8.425
WN0433-514	12.992	20.236	0.500	4,720	7,302	7,818	2230	5.906	5.315	8.189	9.764
WN0433-610	12.992	24.016	0.500	4,720	7,302	7,818	1880	5.906	5.315	8.189	9.764
WN0437-610	14.567	24.016	0.500	6,564	10,326	9,957	1880	6.693	6.299	9.488	10.945
WN0437-711	14.567	27.992	0.500	6,564	10,326	9,957	1615	6.693	6.299	9.488	10.945
WN0441-610	16.339	24.016	0.500	9,736	15,120	11,801	1880	7.283	7.087	10.827	12.126
WN0441-711	16.339	27.992	0.500	9,736	15,120	11,801	1615	7.283	7.087	10.827	12.126
WN0441-812	16.339	31.968	0.500	9,736	15,120	11,801	1410	7.283	7.087	10.827	12.126
WN0441-915	16.339	36.024	0.500	9,736	15,120	11,801	1255	7.283	7.087	10.827	12.126

Ordering example: Nor-Mex® GTW

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0433-610	72	4.724	3.937	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

C₁	=	Guided length in hub boring
C₂	=	Guided length in hub boring d ₂
L	=	Total length
L₂	=	Length of the hub
L₃	=	Section length of hub
C_{GTW1}	=	Distance, when using brake disc assembly GTW1
C_{GTW2}	=	Distance, when using brake disc assembly GTW2
D₆	=	Diameter
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
F_{EE}	=	Tolerance of the hub distance
GW_{BS}	=	Weight of part with brake disc, unbored
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	C ₁	C ₂	L	L ₂	L ₃	C _{GTW1} ¹⁾	C _{GTW2} ¹⁾	D ₆	E	F _E	EE	F _{EE}	GW _{BS}	GW _{ub}
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0426-457	5.512	5.394	12.205	3.465	3.563	4.559	1.437	12.244	0.217	+/- 0.098	1.299	+/- 0.098	114.42	197.09
	WN0426-514	5.512	5.394	12.205	3.465	3.563	4.559	1.437	14.488	0.217	+/- 0.098	1.299	+/- 0.098	125.00	207.68
	WN0429-514	5.906	5.787	13.150	3.780	3.878	4.874	1.752	14.488	0.315	+/- 0.098	1.457	+/- 0.098	144.84	250.22
	WN0429-610	5.906	5.787	13.150	3.780	3.878	4.874	1.752	18.268	0.315	+/- 0.098	1.457	+/- 0.098	169.09	274.48
	WN0433-514	6.299	6.142	14.016	3.996	4.114	5.110	1.988	14.488	0.315	+/- 0.098	1.575	+/- 0.098	182.54	329.15
	WN0433-610	6.299	6.142	14.016	3.996	4.114	5.110	1.988	18.268	0.315	+/- 0.098	1.575	+/- 0.098	206.79	353.40
	WN0437-610	7.087	6.929	15.709	4.606	4.665	5.661	2.539	18.268	0.315	+/- 0.098	1.693	+/- 0.098	261.91	468.92
	WN0437-711	7.087	6.929	15.709	4.606	4.665	5.543	2.539	22.244	0.315	+/- 0.098	1.693	+/- 0.098	295.64	502.43
	WN0441-610	7.874	7.717	17.362	5.157	5.335	6.331	3.209	18.268	0.315	+/- 0.098	1.772	+/- 0.098	330.25	616.19
	WN0441-711	7.874	7.717	17.362	5.157	5.335	6.213	3.209	22.244	0.315	+/- 0.098	1.772	+/- 0.098	363.10	648.82
	WN0441-812	7.874	7.717	17.362	5.157	5.335	5.976	3.209	25.984	0.315	+/- 0.098	1.772	+/- 0.098	433.87	719.59
	WN0441-915	7.874	7.717	17.362	5.157	5.335	5.976	3.209	29.921	0.315	+/- 0.098	1.772	+/- 0.098	500.89	786.61

¹⁾ Assembly of brake disc optionally, standard combination GTW1, otherwise GTW2

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

One part design with brake drum acc. to DIN 15431

Coupling hubs in grey cast iron

Brake drum in nodular cast iron, other materials on request

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₃	=	Outer diameter hub



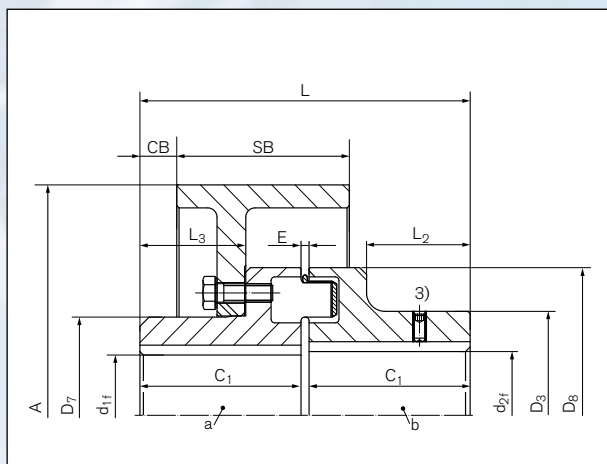
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} 2)	T _{KNPb82} 2)	T _{BR} 4)	n _{max}	d _{1f max}	d _{2f max}	D ₃
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch
WN0511-200	4.409	7.874	2.953	111	170	332	4200	1.654	1.890	3.110
WN0512-200	5.039	7.874	2.953	184	280	406	4200	2.047	2.165	3.543
WN0514-250	5.827	9.843	3.740	288	443	738	3400	2.283	2.559	4.213
WN0516-250	6.614	9.843	3.740	465	723	1,180	3400	2.835	2.953	4.882
WN0516-315	6.614	12.402	4.646	465	723	1,180	2700	2.835	2.953	4.882
WN0519-315	7.638	12.402	4.646	774	1,217	2,028	2700	3.346	3.346	5.512
WN0521-315	8.425	12.402	4.646	1,106	1,770	2,471	2700	3.622	3.740	6.181
WN0521-400	8.425	15.748	5.906	1,106	1,770	2,471	2100	3.543	3.740	6.181
WN0524-400	9.449	15.748	5.906	1,770	2,729	3,098	2100	4.016	4.331	7.047
WN0524-500	9.449	19.685	7.480	1,770	2,729	3,098	1700	4.016	4.331	7.047
WN0526-500	10.433	19.685	7.480	2,729	4,278	6,417	1700	4.724	4.724	7.795
WN0529-500	11.614	19.685	7.480	3,614	5,569	7,228	1700	5.118	5.118	8.425
WN0529-630	11.614	24.803	9.291	3,614	5,569	7,228	1360	5.118	5.118	8.425
WN0533-630	12.992	24.803	9.291	4,720	7,302	7,818	1360	5.906	5.906	9.764
WN0533-710	12.992	27.953	10.433	4,720	7,302	7,818	1200	5.906	5.906	9.764
WN0537-710	14.567	27.953	10.433	6,564	10,326	9,957	1200	6.693	6.693	10.945
WN0541-710	16.339	27.953	10.433	9,736	15,120	11,801	1200	7.283	7.480	12.402

Ordering example: Nor-Mex® EBT

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0519-315	72	3.150	2.441	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

- D₇** = Outer diameter hub
- C₁** = Guided length in hub boring
- L** = Total length
- L₂** = Length of the hub
- L₃** = Section length of hub
- C_B** = Brake disc distance
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- G_{WBS}** = Weight of part with brake disc, unbored
- G_{Wub}** = Weight, unbored

Dimensions

	Identifier	D ₇	C ₁	L	L ₂	L ₃	C _B	E	F _E	G _{WBS} ¹⁾	G _{Wub}
		inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0511-200	2.677	2.362	4.862	1.496	1.516	0.433	0.138	+/- 0.039	16.09	21.83
	WN0512-200	3.346	2.756	5.650	1.772	1.791	0.630	0.138	+/- 0.039	19.62	28.66
	WN0514-250	3.701	3.150	6.437	2.047	2.067	0.630	0.138	+/- 0.039	32.63	46.52
	WN0516-250	4.646	3.543	7.224	2.205	2.224	0.748	0.138	+/- 0.059	39.90	61.07
	WN0516-315	4.646	3.543	7.224	2.205	2.224	0.315	0.138	+/- 0.059	59.97	81.35
	WN0519-315	5.433	3.937	8.012	2.441	2.461	0.650	0.138	+/- 0.059	67.90	98.55
	WN0521-315	6.024	4.331	8.819	2.677	2.697	0.748	0.157	+/- 0.079	79.37	121.25
	WN0521-400	6.024	4.331	8.819	2.677	2.697	0.492	0.157	+/- 0.079	113.98	156.09
	WN0524-400	6.614	4.724	9.606	2.953	2.972	0.709	0.157	+/- 0.079	127.21	186.07
	WN0524-500	6.614	4.724	9.606	2.953	2.972	0.354	0.157	+/- 0.079	186.29	245.60
	WN0526-500	7.795	5.512	11.240	3.543	3.563	0.866	0.217	+/- 0.098	212.97	295.64
	WN0529-500	8.425	5.906	12.126	3.858	3.878	1.181	0.315	+/- 0.098	233.69	339.29
	WN0529-630	8.425	5.906	12.126	3.858	3.878	0.197	0.315	+/- 0.098	352.08	457.46
	WN0533-630	9.764	6.299	12.913	4.094	4.114	0.433	0.315	+/- 0.098	389.56	535.94
	WN0533-710	9.764	6.299	12.913	4.094	4.114	0.000	0.315	+/- 0.098	473.77	620.16
	WN0537-710	10.945	7.087	14.528	4.646	4.665	0.591	0.315	+/- 0.098	534.18	807.33
	WN0541-710	12.126	7.874	16.063	5.315	5.335	0.984	0.315	+/- 0.098	630.08	915.80

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

Multi-part design, to change the intermediate ring without axial movement of the driven parts with brake drum acc. to DIN 15431

Brake drum in nodular cast iron, other materials on request, coupling hub and claw ring in grey cast iron

Flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron,

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
D₄	=	Outer diameter hub
D₇	=	Outer diameter hub



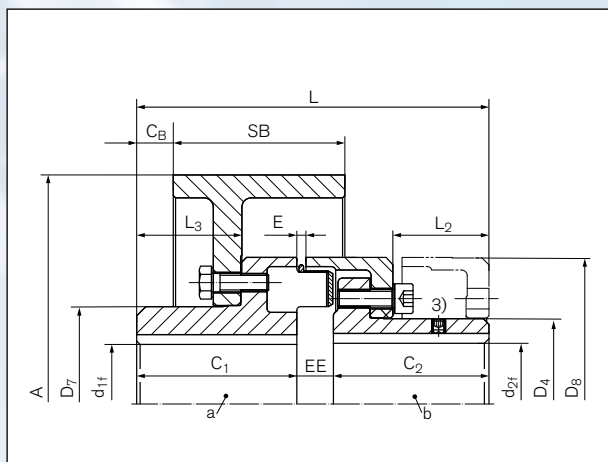
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	T _{BR} ⁴⁾	n _{max}	d _{1f max}	d _{2f max}	D ₄	D ₇
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch
WN0611-200	4.409	7.874	2.953	111	170	332	4200	1.654	1.811	2.539	2.677
WN0612-200	5.039	7.874	2.953	184	280	406	4200	2.047	2.087	2.933	3.346
WN0614-250	5.827	9.843	3.740	288	443	738	3400	2.283	2.559	3.642	3.701
WN0616-250	6.614	9.843	3.740	465	723	1,180	3400	2.835	2.953	4.114	4.646
WN0616-315	6.614	12.402	4.646	465	723	1,180	2700	2.835	2.953	4.114	4.646
WN0619-315	7.638	12.402	4.646	774	1,217	2,028	2700	3.346	3.346	4.783	5.433
WN0621-315	8.425	12.402	4.646	1,106	1,770	2,471	2700	3.622	3.740	5.335	6.024
WN0621-400	8.425	15.748	5.906	1,106	1,770	2,471	2100	3.622	3.740	5.335	6.024
WN0624-400	9.449	15.748	5.906	1,770	2,729	3,098	2100	4.016	3.937	5.748	6.614
WN0624-500	9.449	19.685	7.480	1,770	2,729	3,098	1700	4.016	3.937	5.748	6.614
WN0626-500	10.433	19.685	7.480	2,729	4,278	6,417	1700	4.724	4.528	6.457	7.795
WN0629-500	11.614	19.685	7.480	3,614	5,569	7,228	1700	5.118	5.118	7.126	8.425
WN0629-630	11.614	24.803	9.291	3,614	5,569	7,228	1360	5.118	5.118	7.126	8.425
WN0633-630	12.992	24.803	9.291	4,720	7,302	7,818	1360	5.906	5.315	8.189	9.764
WN0633-710	12.992	27.953	10.433	4,720	7,302	7,818	1200	5.906	5.315	8.189	9.764
WN0637-710	14.567	27.953	10.433	6,564	10,326	9,957	1200	6.693	6.299	9.488	10.945
WN0641-710	16.339	27.953	10.433	9,736	15,120	11,801	1200	7.283	7.087	10.827	12.126

Ordering example: Nor-Mex® GBT

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0619-315	72	3.150	2.441	*

²⁾ Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

Dimensions

- C₁** = Guided length in hub boring
- C₂** = Guided length in hub boring d₂
- L** = Total length
- L₂** = Length of the hub
- L₃** = Section length of hub
- C_B** = Brake disc distance
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- EE** = Distance of the hubs
- F_{EE}** = Tolerance of the hub distance
- GW_{BS}** = Weight of part with brake disc, unbored
- GW_{ub}** = Weight, unbored

	Identifier	C ₁	C ₂	L	L ₂	L ₃	C _B	E	F _E	EE	F _{EE}	GW _{BS} ¹⁾	GW _{ub}
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0611-200	2.362	2.283	5.236	1.280	1.516	0.433	0.138	+/- 0.039	0.591	+/- 0.039	16.09	22.49
	WN0612-200	2.756	2.677	6.063	1.654	1.791	0.630	0.138	+/- 0.039	0.630	+/- 0.039	19.62	28.66
	WN0614-250	3.150	3.071	6.929	1.850	2.067	0.630	0.138	+/- 0.039	0.709	+/- 0.039	32.63	47.40
	WN0616-250	3.543	3.425	7.795	2.067	2.224	0.748	0.138	+/- 0.059	0.827	+/- 0.059	39.90	39.24
	WN0616-315	3.543	3.425	7.795	2.067	2.224	0.315	0.138	+/- 0.059	0.827	+/- 0.059	59.97	81.57
	WN0619-315	3.937	3.819	8.701	2.362	2.461	0.650	0.138	+/- 0.059	0.945	+/- 0.059	67.90	100.09
	WN0621-315	4.331	4.213	9.567	2.618	2.697	0.748	0.157	+/- 0.079	1.024	+/- 0.079	79.37	122.58
	WN0621-400	4.331	4.213	9.567	2.618	2.697	0.492	0.157	+/- 0.079	1.024	+/- 0.079	113.98	157.41
	WN0624-400	4.724	4.606	10.512	2.972	2.972	0.709	0.157	+/- 0.079	1.181	+/- 0.079	127.21	184.09
	WN0624-500	4.724	4.606	10.512	2.972	2.972	0.354	0.157	+/- 0.079	1.181	+/- 0.079	186.29	243.61
	WN0626-500	5.512	5.394	12.205	3.465	3.563	0.866	0.217	+/- 0.098	1.299	+/- 0.098	212.97	296.30
	WN0629-500	5.906	5.787	13.150	3.780	3.878	1.181	0.315	+/- 0.098	1.457	+/- 0.098	233.69	342.82
	WN0629-630	5.906	5.787	13.150	3.780	3.878	0.197	0.315	+/- 0.098	1.457	+/- 0.098	352.08	460.99
	WN0633-630	6.299	6.142	14.016	3.996	4.114	0.433	0.315	+/- 0.098	1.575	+/- 0.098	389.56	529.55
	WN0633-710	6.299	6.142	14.016	3.996	4.114	0.000	0.315	+/- 0.098	1.575	+/- 0.098	473.77	613.55
	WN0637-710	7.087	6.929	15.709	4.606	4.665	0.591	0.315	+/- 0.098	1.693	+/- 0.098	534.18	731.94
	WN0641-710	7.874	7.717	17.362	5.157	5.335	0.984	0.315	+/- 0.098	1.772	+/- 0.098	630.08	913.38

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring.

Multi-part design, to remove the intermediate spacer. Disassembly of the pump impeller without axial movement of the driven parts

Intermediate spacer in grey cast iron

Flange hub in steel, from size 148 up in grey cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Dimensions

- D₈** = Outer diameter hub
- T_{KNPb72}** = Coupling nominal torque using element Pb72
- T_{KNPb82}** = Coupling nominal torque using element Pb82
- n_{max}** = Max. rotation speed
- d_{1f max}** = Max. bore diameter d_{1f} with keyway or other form closure connection
- d_{2f max}** = Max. bore diameter d_{2f} with keyway or other form closure connection
- D₃** = Outer diameter hub
- C₂** = Guided length in hub boring d₂



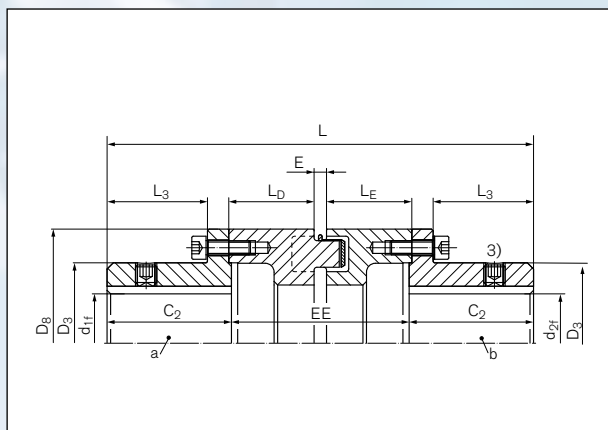
Dimensions

Identifier	Size D ₈	T _{KNPb72} 2)	T _{KNPb82} 2)	n _{max}	d _{1f max}	d _{2f max}	D ₃	C ₂	
	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	
WN0706-100	2.638	16	26	5000	1.181	1.181	1.772	1.181	
WN0706-120	2.638	16	26	5000	1.181	1.181	1.772	1.181	
WN0706-140	2.638	16	26	5000	1.181	1.181	1.772	1.181	
WN0708-120	3.228	35	55	5000	1.378	1.378	2.087	1.575	
WN0708-140	3.228	35	55	5000	1.378	1.378	2.087	1.575	
WN0708-100	3.228	35	55	5000	1.378	1.378	2.087	1.575	
WN0709-100	3.819	71	111	5000	1.772	1.772	2.598	1.969	
WN0709-140	3.819	71	111	5000	1.772	1.772	2.598	1.969	
WN0709-120	3.819	71	111	5000	1.772	1.772	2.598	1.969	
WN0711-140	4.409	111	170	5000	1.969	1.969	3.110	2.362	
WN0711-100	4.409	111	170	5000	1.969	1.969	3.110	2.362	
WN0711-120	4.409	111	170	5000	1.969	1.969	3.110	2.362	
WN0712-140	5.039	184	280	5000	2.362	2.362	3.543	2.756	
WN0712-120	5.039	184	280	5000	2.362	2.362	3.543	2.756	
WN0712-100	5.039	184	280	5000	2.362	2.362	3.543	2.756	
WN0712-180	5.039	184	280	5000	2.362	2.362	3.543	2.756	
WN0714-140	5.827	288	443	4500	2.559	2.559	4.213	3.150	
WN0714-100	5.827	288	443	4500	2.559	2.559	4.213	3.150	
WN0714-180	5.827	288	443	4500	2.559	2.559	4.213	3.150	
WN0716-180	6.614	465	723	4000	2.953	2.953	4.882	3.543	
WN0716-100	6.614	465	723	4000	2.953	2.953	4.882	3.543	
WN0716-140	6.614	465	723	4000	2.953	2.953	4.882	3.543	

Ordering example: Nor-Mex® H

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0714-180	72	2.559	1.969	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

Dimensions

- L** = Total length
- L₃** = Section length of hub
- L_D** = Spacer length
- L_E** = Spacer length
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- EE** = Distance of the hubs
- GWZW** = Spacer weight
- GWub** = Weight, unbored

Identifier	L	L ₃	L _D	L _E	E	F _E	EE	GWZW ¹⁾	GWub
	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
WN0706-100	6.299	0.787	1.909	1.909	0.197	+/- 0.020	3.937	3.09	5.51
WN0706-120	7.087	0.787	1.909	2.697	0.197	+/- 0.020	4.724	3.75	6.17
WN0706-140	7.874	0.787	2.697	2.697	0.197	+/- 0.020	5.512	4.41	6.83
WN0708-120	7.874	1.102	1.909	2.697	0.197	+/- 0.039	4.724	5.29	8.82
WN0708-140	8.661	1.102	2.697	2.697	0.197	+/- 0.039	5.512	6.17	10.80
WN0708-100	7.087	1.102	1.909	1.909	0.197	+/- 0.039	3.937	4.41	8.82
WN0709-100	7.874	1.457	1.909	1.909	0.197	+/- 0.039	3.937	6.17	14.11
WN0709-140	9.449	1.457	2.697	2.697	0.197	+/- 0.039	5.512	9.04	16.98
WN0709-120	8.661	1.457	1.909	2.697	0.197	+/- 0.039	4.724	7.72	15.43
WN0711-140	10.236	1.831	2.677	2.677	0.276	+/- 0.039	5.512	11.90	24.47
WN0711-100	8.661	1.831	1.890	1.890	0.276	+/- 0.039	3.937	8.38	20.94
WN0711-120	9.449	1.831	1.890	2.677	0.276	+/- 0.039	4.724	10.14	22.71
WN0712-140	11.024	2.224	2.677	2.677	0.276	+/- 0.039	5.512	14.77	33.29
WN0712-120	10.236	2.224	1.890	2.677	0.276	+/- 0.039	4.724	12.79	31.31
WN0712-100	9.449	2.224	1.890	1.890	0.276	+/- 0.039	3.937	10.58	29.10
WN0712-180	12.598	2.224	3.465	3.465	0.276	+/- 0.039	7.087	18.96	37.48
WN0714-140	11.811	2.539	1.890	3.465	0.276	+/- 0.039	5.512	18.52	45.86
WN0714-100	10.236	2.539	1.890	1.890	0.276	+/- 0.039	3.937	13.23	40.57
WN0714-180	13.386	2.539	3.465	3.465	0.276	+/- 0.039	7.087	23.81	51.37
WN0716-180	14.173	2.894	3.465	3.465	0.276	+/- 0.059	7.087	29.32	70.11
WN0716-100	11.024	2.894	1.890	1.890	0.276	+/- 0.059	3.937	16.76	57.32
WN0716-140	12.598	2.894	1.890	3.465	0.276	+/- 0.059	5.512	23.15	63.71

To continue see next page

¹⁾ Mass information for unbored coupling parts

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

Multi-part design, to remove the intermediate spacer. Disassembly of the pump impeller without axial movement of the driven parts

Intermediate spacer in grey cast iron

Flange hub in steel, from size 148 up in grey cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Dimensions

- D₈** = Outer diameter hub
- T_{KNPb72}** = Coupling nominal torque using element Pb72
- T_{KNPb82}** = Coupling nominal torque using element Pb82
- n_{max}** = Max. rotation speed
- d_{1f max}** = Max. bore diameter d_{1f} with keyway or other form closure connection
- d_{2f max}** = Max. bore diameter d_{2f} with keyway or other form closure connection
- D₃** = Outer diameter hub
- C₂** = Guided length in hub boring d₂



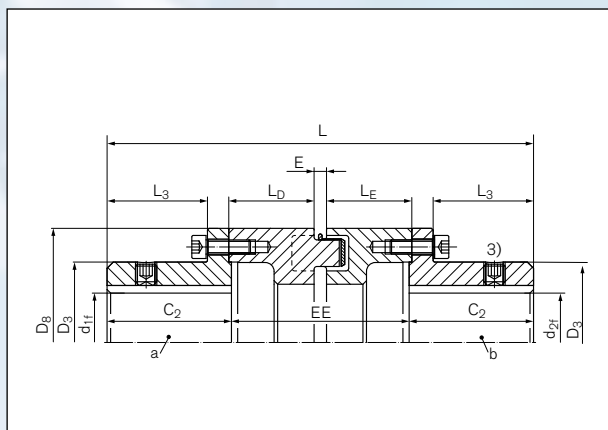
Dimensions

Identifier	Size D ₈	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{1f max}	d _{2f max}	D ₃	C ₂	
	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	
WN0719-100	7.638	774	1,217	3500	3.346	3.346	5.512	3.937	
WN0719-250	7.638	774	1,217	3500	3.346	3.346	5.512	3.937	
WN0719-140	7.638	774	1,217	3500	3.346	3.346	5.512	3.937	
WN0719-180	7.638	774	1,217	3500	3.346	3.346	5.512	3.937	
WN0721-100	8.425	1,106	1,770	3000	3.740	3.740	6.181	4.331	
WN0721-180	8.425	1,106	1,770	3000	3.740	3.740	6.181	4.331	
WN0721-250	8.425	1,106	1,770	3000	3.740	3.740	6.181	4.331	
WN0721-140	8.425	1,106	1,770	3000	3.740	3.740	6.181	4.331	
WN0724-140	9.449	1,770	2,729	2750	4.331	4.331	7.047	4.724	
WN0724-250	9.449	1,770	2,729	2750	4.331	4.331	7.047	4.724	
WN0724-180	9.449	1,770	2,729	2750	4.331	4.331	7.047	4.724	
WN0724-100	9.449	1,770	2,729	2750	4.331	4.331	7.047	4.724	
WN0726-250	10.433	2,729	4,278	2500	4.724	4.724	7.795	5.512	
WN0726-140	10.433	2,729	4,278	2500	4.724	4.724	7.795	5.512	
WN0726-100	10.433	2,729	4,278	2500	4.724	4.724	7.795	5.512	
WN0726-180	10.433	2,729	4,278	2500	4.724	4.724	7.795	5.512	
WN0729-140	11.614	3,614	5,569	2250	5.118	5.118	8.425	5.906	
WN0729-180	11.614	3,614	5,569	2250	5.118	5.118	8.425	5.906	
WN0729-250	11.614	3,614	5,569	2250	5.118	5.118	8.425	5.906	
WN0733-140	12.992	4,720	7,302	2000	5.906	5.906	9.764	6.299	
WN0733-180	12.992	4,720	7,302	2000	5.906	5.906	9.764	6.299	
WN0733-250	12.992	4,720	7,302	2000	5.906	5.906	9.764	6.299	

Ordering example: Nor-Mex® H

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN0719-180	72	3.150	2.441	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

Dimensions

- L** = Total length
- L₃** = Section length of hub
- L_D** = Spacer length
- L_E** = Spacer length
- E** = Gap width between left and right component
- F_E** = Tolerance of the gap width E
- EE** = Distance of the hubs
- GW_{ZW}** = Spacer weight
- GW_{ub}** = Weight, unbored

Identifier	L	L ₃	L _D	L _E	E	F _E	EE	GW _{ZW} ¹⁾	GW _{ub}
	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
WN0719-100	11.811	3.248	1.890	1.890	0.276	+/- 0.059	3.937	20.72	78.71
WN0719-250	17.717	3.248	4.843	4.843	0.276	+/- 0.059	9.843	49.38	107.37
WN0719-140	13.386	3.248	1.890	3.465	0.276	+/- 0.059	5.512	28.44	86.20
WN0719-180	14.961	3.248	3.465	3.465	0.276	+/- 0.059	7.087	35.94	93.92
WN0721-100	12.598	3.563	1.890	1.890	0.276	+/- 0.059	3.937	25.35	104.94
WN0721-180	15.748	3.563	3.465	3.465	0.276	+/- 0.059	7.087	43.87	123.46
WN0721-250	18.504	3.563	4.843	4.843	0.276	+/- 0.059	9.843	59.97	139.55
WN0721-140	14.173	3.563	1.890	3.465	0.276	+/- 0.059	5.512	34.61	114.20
WN0724-140	14.961	3.858	1.890	3.465	0.315	+/- 0.059	5.512	43.87	155.65
WN0724-250	19.291	3.858	4.843	4.843	0.315	+/- 0.059	9.843	70.11	181.88
WN0724-180	16.535	3.858	3.465	3.465	0.315	+/- 0.059	7.087	52.91	164.69
WN0724-100	13.386	3.858	1.890	1.890	0.315	+/- 0.059	3.937	34.83	146.61
WN0726-250	20.866	4.606	4.843	4.843	0.315	+/- 0.059	9.843	83.78	241.41
WN0726-140	16.535	4.606	1.890	3.465	0.315	+/- 0.059	5.512	52.03	209.66
WN0726-100	14.961	4.606	1.890	1.890	0.315	+/- 0.059	3.937	43.21	200.84
WN0726-180	18.110	4.606	3.465	3.465	0.315	+/- 0.059	7.087	60.85	218.48
WN0729-140	17.323	4.803	2.638	2.638	0.394	+/- 0.098	5.512	68.78	272.27
WN0729-180	18.898	4.803	3.425	3.425	0.394	+/- 0.098	7.087	83.56	287.04
WN0729-250	21.654	4.803	4.803	4.803	0.394	+/- 0.098	9.843	105.60	309.09
WN0733-140	18.110	5.039	2.638	2.638	0.394	+/- 0.098	5.512	90.17	378.53
WN0733-180	19.685	5.039	3.425	3.425	0.394	+/- 0.098	7.087	109.57	397.93
WN0733-250	22.441	5.039	4.803	4.803	0.394	+/- 0.098	9.843	142.20	430.56

¹⁾ Mass information for unbored coupling parts

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

One part design with flange, externally centred

Coupling in grey cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

- D₈** = Outer diameter
- A** = Max. outer diameter
- T_{KNPb72}** = Coupling nominal torque using element Pb72
- T_{KNPb82}** = Coupling nominal torque using element Pb82
- n_{max}** = Max. rotation speed
- d_{2f max}** = Max. bore diameter d_{2f} with keyway or other form closure connection
- d₁** = Inner diameter
- D₃** = Outer diameter hub
- D_{PC7}** = Pitch circle diameter of bore holes d₇



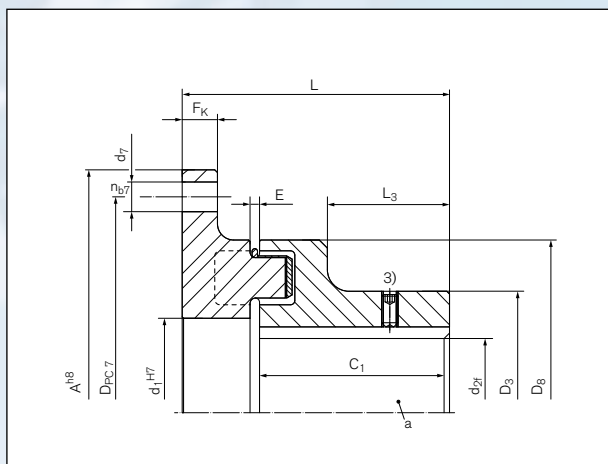
Dimensions

Identifier	Size D ₈	A ⁴⁾	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{2f max}	d ₁	D ₃	D _{PC7}	
	inch	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	
WN0806-106	2.638	4.173	16	26	5000	1.102	1.181	1.811	3.701	
WN0808-120	3.228	4.724	35	55	5000	1.260	1.575	2.087	4.252	
WN0809-144	3.819	5.669	71	111	5000	1.654	1.969	2.717	5.039	
WN0811-158	4.409	6.220	111	170	5000	1.890	2.362	3.110	5.591	
WN0812-180	5.039	7.087	184	280	5000	2.165	2.756	3.543	6.299	
WN0814-200	5.827	7.874	288	443	4500	2.559	3.543	4.213	7.087	
WN0816-220	6.614	8.661	465	723	4000	2.953	3.937	4.882	7.874	
WN0819-248	7.638	9.764	774	1,217	3500	3.346	4.528	5.512	8.819	
WN0821-274	8.425	10.787	1,106	1,770	3000	3.740	5.118	6.181	9.843	
WN0824-314	9.449	12.362	1,770	2,729	2750	4.331	5.709	7.047	11.102	
WN0826-344	10.433	13.543	2,729	4,278	2500	4.724	6.299	7.795	12.283	
WN0829-380	11.614	14.961	3,614	5,569	2250	5.118	6.693	8.425	13.701	
WN0833-430	12.992	16.929	4,720	7,302	2000	5.906	7.874	9.764	15.354	
WN0837-480	14.567	18.898	6,564	10,326	1750	6.693	9.252	10.945	17.323	
WN0841-575	16.339	22.638	9,736	15,120	1500	7.480	10.630	12.402	20.787	
WN0848-615	18.898	24.213	13,276	20,652	1400	8.268	12.598	12.402	22.362	
WN0857-692	22.638	27.244	19,914	30,240	1200	9.055	15.748	13.780	25.394	

Ordering example: Nor-Mex® LE

Identifier	Pb	d _{2f}	Further details*)
WN0819-248	72	3.150	*

^{*)} Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

d₇	=	Bore diameter
n_{b7}	=	Quantity of bore d ₇
C₁	=	Guided length in hub boring
L	=	Total length
L₃	=	Section length of hub
FK	=	Flange thickness
E	=	Gap width between left and right component
FE	=	Tolerance of the gap width E
GW_{FL}	=	Weight flange side
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	d ₇	n _{b7}	C ₁	L	L ₃	FK	E	FE	GW _{FL} ¹⁾	GW _{ub}
		inch	pcs.	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN0806-106	0.260	6	1.181	1.870	0.591	0.315	0.098	+/- 0.020	1.10	2.20
	WN0808-120	0.260	6	1.575	2.323	0.945	0.315	0.118	+/- 0.039	1.54	5.73
	WN0809-144	0.354	6	1.969	2.874	1.181	0.394	0.118	+/- 0.039	2.65	6.39
	WN0811-158	0.354	6	2.362	3.366	1.496	0.394	0.138	+/- 0.039	3.53	9.26
	WN0812-180	0.433	6	2.756	3.878	1.772	0.512	0.138	+/- 0.039	5.51	14.55
	WN0814-200	0.433	7	3.150	4.390	2.047	0.512	0.138	+/- 0.039	6.83	20.72
	WN0816-220	0.433	8	3.543	5.020	2.205	0.512	0.138	+/- 0.059	9.48	30.64
	WN0819-248	0.551	8	3.937	5.571	2.441	0.630	0.138	+/- 0.059	13.89	44.75
	WN0821-274	0.551	8	4.331	6.142	2.677	0.630	0.157	+/- 0.079	18.08	61.51
	WN0824-314	0.709	8	4.724	6.654	2.953	0.787	0.157	+/- 0.079	26.01	84.88
	WN0826-344	0.709	8	5.512	7.697	3.543	0.787	0.217	+/- 0.098	34.39	117.07
	WN0829-380	0.709	9	5.906	8.268	3.858	0.866	0.315	+/- 0.098	45.64	151.24
	WN0833-430	0.866	9	6.299	8.819	4.094	0.984	0.315	+/- 0.098	61.95	208.56
	WN0837-480	0.866	10	7.087	9.843	4.646	0.984	0.315	+/- 0.098	79.81	286.82
	WN0841-575	1.024	10	7.874	10.748	5.315	1.181	0.315	+/- 0.098	122.14	408.08
	WN0848-615	1.024	10	8.661	11.535	5.906	1.181	0.315	+/- 0.098	137.57	500.01
	WN0857-692	1.024	10	9.449	12.323	6.693	1.181	0.315	+/- 0.098	164.69	679.47

Nor-Mex® with SAE flange on request

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Other flange dimensions on request

Multi-part design, to change the intermediate ring without axial movement of the driven parts with flange, externally centred

Flange and claw ring in grey cast iron, Flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
n_{max}	=	Max. rotation speed
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
d₁	=	Inner diameter
D₃	=	Outer diameter hub
D_{PC7}	=	Pitch circle diameter of bore holes d ₇
d₇	=	Bore diameter



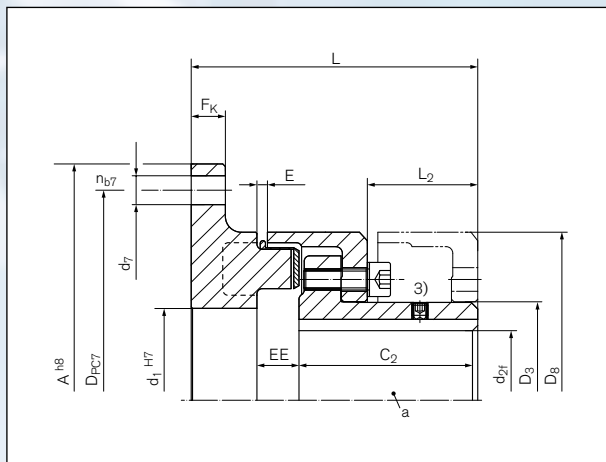
Dimensions

Identifier	Size D ₈	A ⁴⁾	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{2f max}	d ₁	D ₃	D _{PC7}	d ₇
	inch	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	inch
WN0908-120	3.228	4.724	35	55	5000	1.260	1.575	1.752	4.252	0.260
WN0909-144	3.819	5.669	71	111	5000	1.535	1.969	2.146	5.039	0.354
WN0911-158	4.409	6.220	111	170	5000	1.811	2.362	2.539	5.591	0.354
WN0912-180	5.039	7.087	184	280	5000	2.087	2.756	2.933	6.299	0.433
WN0914-200	5.827	7.874	288	443	4500	2.559	3.543	3.642	7.087	0.433
WN0916-220	6.614	8.661	465	723	4000	2.953	3.937	4.114	7.874	0.433
WN0919-248	7.638	9.764	774	1,217	3500	3.346	4.528	4.783	8.819	0.551
WN0921-274	8.425	10.787	1,106	1,770	3000	3.740	5.118	5.335	9.843	0.551
WN0924-314	9.449	12.362	1,770	2,729	2750	3.937	5.709	5.748	11.102	0.709
WN0926-344	10.433	13.543	2,729	4,278	2500	4.528	6.299	6.457	12.283	0.709
WN0929-380	11.614	14.961	3,614	5,569	2250	5.118	6.693	7.126	13.701	0.709
WN0933-430	12.992	16.929	4,720	7,302	2000	5.315	7.874	8.189	15.354	0.866
WN0937-480	14.567	18.898	6,564	10,326	1750	6.299	9.252	9.488	17.323	0.866
WN0941-575	16.339	22.638	9,736	15,120	1500	7.087	10.630	10.827	20.787	1.024
WN0948-615	18.898	24.213	13,276	20,652	1400	7.874	12.598	11.378	22.362	1.024
WN0957-692	22.638	27.244	19,914	30,240	1200	10.236	15.748	14.488	25.394	1.024

Ordering example: Nor-Mex® LG

Identifier	Pb	d _{2f}	Further details*)
WN0919-248	72	3.150	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

n_{b7}	=	Quantity of bore d_7
C_1	=	Guided length in hub boring
L	=	Total length
L_2	=	Length of the hub
F_K	=	Flange thickness
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
F_{EE}	=	Tolerance of the hub distance
GW_{FL}	=	Weight flange side
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	n_{b7}	C_1	L	L_2	F_K	E	F_E	EE	F_{EE}	$GW_{FL}^{1)}$	GW_{ub}
		pcs.	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WNO908-120	6	1.575	2.677	0.787	0.315	0.118	+/- 0.039	0.472	+/- 0.039	1.54	3.97
	WNO909-144	6	1.929	3.268	1.201	0.394	0.118	+/- 0.039	0.551	+/- 0.039	2.65	6.39
	WNO911-158	6	2.283	3.740	1.280	0.394	0.138	+/- 0.039	0.591	+/- 0.039	3.53	9.70
	WNO912-180	6	2.677	4.291	1.654	0.512	0.138	+/- 0.039	0.630	+/- 0.039	5.51	14.77
	WNO914-200	7	3.071	4.882	1.850	0.512	0.138	+/- 0.039	0.709	+/- 0.039	6.83	21.61
	WNO916-220	8	3.425	5.591	2.067	0.512	0.138	+/- 0.059	0.827	+/- 0.059	9.48	30.86
	WNO919-248	8	3.819	6.260	2.362	0.630	0.138	+/- 0.059	0.945	+/- 0.059	13.89	46.30
	WNO921-274	8	4.213	6.890	2.618	0.630	0.157	+/- 0.079	1.024	+/- 0.079	18.08	61.51
	WNO924-314	8	4.606	7.559	2.972	0.787	0.157	+/- 0.079	1.181	+/- 0.079	26.01	82.89
	WNO926-344	8	5.394	8.661	3.465	0.787	0.217	+/- 0.098	1.299	+/- 0.098	34.39	117.73
	WNO929-380	9	5.787	9.291	3.780	0.866	0.315	+/- 0.098	1.457	+/- 0.098	45.64	154.76
	WNO933-430	9	6.142	9.921	3.996	0.984	0.315	+/- 0.098	1.575	+/- 0.098	61.95	202.16
	WNO937-480	10	6.929	11.063	4.606	0.984	0.315	+/- 0.098	1.693	+/- 0.098	79.81	277.78
	WNO941-575	10	7.717	12.047	5.157	1.181	0.315	+/- 0.098	1.772	+/- 0.098	122.14	405.43
	WNO948-615	10	8.661	12.992	5.866	1.181	0.315	+/- 0.098	1.772	+/- 0.098	137.57	539.47
	WNO957-682	10	9.449	13.780	6.614	1.181	0.315	+/- 0.098	1.772	+/- 0.098	164.69	815.93

Nor-Mex® with SAE flange on request

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Other flange dimensions on request

One part design with flange, internally centred

Coupling parts in grey cast iron, elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
n_{max}	=	Max. rotation speed
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
d₁	=	Inner diameter
d_F	=	Center diameter
D₃	=	Outer diameter hub
D_{PC7}	=	Pitch circle diameter of bore holes d ₇



Dimensions

Identifier	Size	D ₈	A ⁴⁾	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{2f max}	d ₁	d _F	D ₃	D _{PC7}	
	D ₈											
	inch	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	inch	inch	
WN1016-254	6.614	10.000	465	723	4000	2.953	3.917	7.677	4.882	8.976		
WN1019-290	7.638	11.417	774	1,217	3500	3.346	4.528	8.661	5.512	10.433		
WN1021-334	8.425	13.150	1,106	1,770	3000	3.740	5.118	10.433	6.181	12.205		
WN1024-390	9.449	15.354	1,770	2,729	2750	4.331	5.689	12.402	7.047	14.173		
WN1026-470	10.433	18.504	2,729	4,278	2500	4.724	6.280	14.173	7.795	16.535		

Ordering example: Nor-Mex® KE

Identifier	Pb	d _{2f}	Further details*)
WN1019-290	72	3.150	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7

d₇	=	Bore diameter
n_{b7}	=	Quantity of bore d ₇
C₁	=	Guided length in hub boring
L	=	Total length
L₃	=	Section length of hub
F_K	=	Flange thickness
Z	=	Depth of center value
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
Gw_{FL}	=	Weight flange side
Gw_{ub}	=	Weight, unbored

Identifier	d ₇	n _{b7}	C ₁	L	L ₃	F _K	Z	E	F _E	GW _{FL} ¹⁾	GW _{ub}
	inch	pcs.	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
WN1016-254	0.512	8	3.543	5.020	2.205	0.512	0.138	0.138	+/- 0.059	10.80	31.97
WN1019-290	0.531	8	3.937	5.571	2.441	0.630	0.157	0.138	+/- 0.059	16.53	47.18
WN1021-334	0.531	12	4.331	6.142	2.677	0.630	0.138	0.157	+/- 0.079	22.93	65.04
WN1024-390	0.551	16	4.724	6.654	2.953	0.787	0.138	0.157	+/- 0.079	35.71	94.58
WN1026-470	0.709	16	5.512	7.697	3.543	0.787	0.138	0.217	+/- 0.098	55.12	137.79

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Multi-part design, to change the intermediate ring without axial movement of the driven parts with flange, internally centred

Flange and claw ring in grey cast iron, flange hub in steel, sizes 330, 370 and 415, however in nodular cast iron

Elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82

Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
n_{max}	=	Max. rotation speed
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
d₁	=	Inner diameter
d_F	=	Center diameter
D₃	=	Outer diameter hub
D_{PC7}	=	Pitch circle diameter of bore holes d ₇
d₇	=	Bore diameter



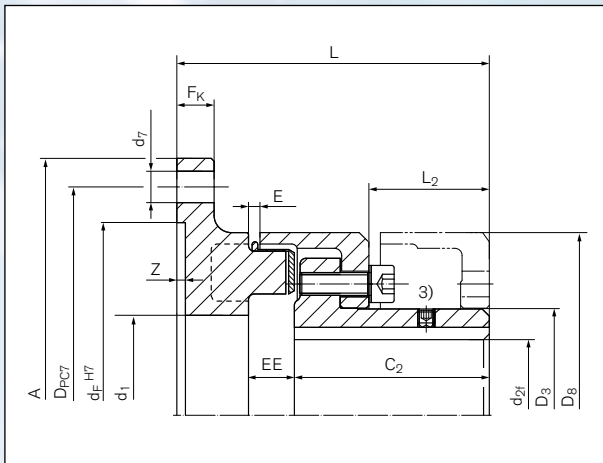
Dimensions

Identifier	Size D ₈	A ⁴⁾	T _{KNPb72} ²⁾	T _{KNPb82} ²⁾	n _{max}	d _{2f max}	d ₁	d _F	D ₃	D _{PC7}	d ₇	
	inch	inch	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch	inch	inch	
WN1116-254	6.614	10.000	465	723	4000	2.953	3.917	7.677	4.114	8.976	0.531	
WN1119-290	7.638	11.417	774	1,217	3500	3.346	4.528	8.661	4.783	10.433	0.531	
WN1121-334	8.425	13.150	1,106	1,770	3000	3.740	5.118	10.433	5.335	12.205	0.531	
WN1124-390	9.449	15.354	1,770	2,729	2750	3.937	5.689	12.402	5.748	14.173	0.551	
WN1126-470	10.433	18.504	2,729	4,278	2500	4.528	6.280	14.173	6.457	16.535	0.709	

Ordering example: Nor-Mex® KG

Identifier	Pb	d _{2f}	Further details*)
WN1119-290	72	3.150	*

²⁾ Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

n_{b7}	=	Quantity of bore d ₇
C₂	=	Guided length in hub boring d ₂
L	=	Total length
L₂	=	Length of the hub
F_K	=	Flange thickness
Z	=	Depth of center value
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
F_{EE}	=	Tolerance of the hub distance
GW_{FL}	=	Weight flange side
GW_{ub}	=	Weight, unbored

Dimensions

	Identifier	n _{b7}	C ₂	L	L ₂	F _K	Z	E	F _E	EE	F _{EE}	GW _{FL} ¹⁾	GW _{ub}
		pcs.	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN1116-254	8	3.425	5.591	2.067	0.512	0.138	0.138	+/- 0.059	0.827	+/- 0.059	10.80	32.19
	WN1119-290	8	3.819	6.260	2.362	0.630	0.157	0.138	+/- 0.059	0.945	+/- 0.059	16.53	48.72
	WN1121-334	12	4.213	6.890	2.618	0.630	0.138	0.157	+/- 0.079	1.024	+/- 0.079	22.93	66.36
	WN1124-390	16	4.606	7.559	2.972	0.787	0.138	0.157	+/- 0.079	1.181	+/- 0.079	35.71	92.37
	WN1126-470	16	5.394	8.661	3.465	0.787	0.138	0.217	+/- 0.098	1.299	+/- 0.098	55.12	138.23

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Other flange dimensions on request

With brake disc in steel, multi-part design, to change the intermediate ring and the brake disc without axial movement of the driven parts

Claw rings in grey cast iron, hubs in steel, elastic intermediate ring in different hardnesses: standard Pb72, hard Pb82
Mass information for unbored coupling hubs

Dimensions

D₈	=	Outer diameter
A	=	Max. outer diameter
SB	=	Disc width
T_{KNPb72}	=	Coupling nominal torque using element Pb72
T_{KNPb82}	=	Coupling nominal torque using element Pb82
T_{BR}	=	Brake torque
n_{max}	=	Max. rotation speed
d_{1f max}	=	Max. bore diameter d _{1f} with keyway or other form closure connection
d_{2f max}	=	Max. bore diameter d _{2f} with keyway or other form closure connection
C_B	=	Brake disc distance
D₃	=	Outer diameter hub



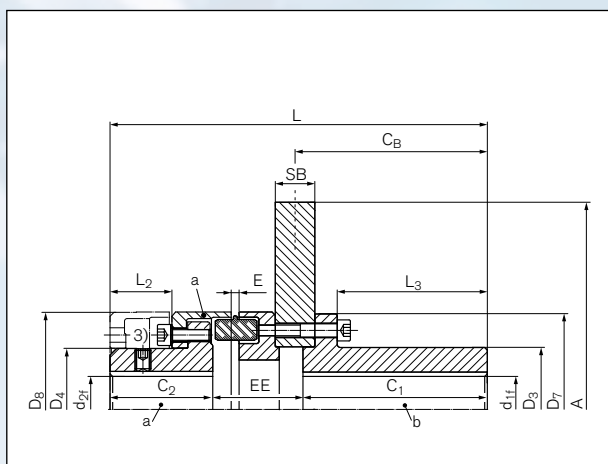
Dimensions

Identifier	Size D ₈	A	SB	T _{KNPb72} 2)	T _{KNPb82} 2)	T _{BR} 4)	n _{max}	d _{1f max}	d _{2f max}	C _B	D ₃
	inch	inch	inch	ft-lbs	ft-lbs	ft-lbs	rpm	inch	inch	inch	inch
WN1514-315	5.827	12.402	1.181	288	443	738	4500	2.559	2.559	5.157	3.701
WN1516-355	6.614	13.976	1.181	465	723	1,180	4000	3.150	2.953	5.157	4.528
WN1516-400	6.614	15.748	1.181	465	723	1,180	4000	3.150	2.953	5.157	4.528
WN1516-450	6.614	17.717	1.181	465	723	1,180	3750	3.150	2.953	5.157	4.528
WN1519-400	7.638	15.748	1.181	774	1,217	2,028	3500	3.740	3.346	5.157	5.315
WN1519-560	7.638	22.047	1.181	774	1,217	2,028	3000	3.740	3.346	5.157	5.315
WN1524-630	9.449	14.173	1.181	1,770	2,729	3,098	2750	4.724	3.937	5.157	6.496
WN1524-450	9.449	17.717	1.181	1,770	2,729	3,098	2750	4.724	3.937	5.157	6.496
WN1524-560	9.449	22.047	1.181	1,770	2,729	3,098	2750	4.724	3.937	5.157	6.496
WN1526-500	10.433	19.685	1.181	2,729	4,278	6,417	2500	5.315	4.724	5.157	7.677
WN1526-560	10.433	22.047	1.181	2,729	4,278	6,417	2500	5.315	4.724	5.157	7.677
WN1526-710	10.433	27.953	1.181	2,729	4,278	6,417	2400	5.315	4.724	5.157	7.677
WN1529-630	11.614	24.803	1.181	3,614	5,569	7,228	2250	6.024	5.118	5.157	8.465
WN1529-710	11.614	27.953	1.181	3,614	5,569	7,228	2250	6.024	5.118	5.157	8.465

Ordering example: Nor-Mex® GHBS

Identifier	Pb	d _{1f}	d _{2f}	Further details*)
WN1519-560	72	3.150	2.441	*

*) Without any other specification, we deliver as a standard: with set screws and keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7



Sectional view

Dimensions

D₄	=	Outer diameter hub
D₇	=	Outer diameter hub
C₁	=	Guided length in hub boring
C₂	=	Guided length in hub boring d ₂
L	=	Total length
L₂	=	Length of the hub
L₃	=	Section length of hub
E	=	Gap width between left and right component
F_E	=	Tolerance of the gap width E
EE	=	Distance of the hubs
Gwa	=	Weight of subassembly a
GwubX	=	Weight, unbored

Dimensions

	Identifier	D ₄	D ₇	C ₁	C ₂	L	L ₂	L ₃	E	F _E	EE	Gwa ¹⁾	GwubX
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
	WN1514-315	3.642	5.709	5.512	3.071	11.280	1.850	4.685	0.236	+/- 0.039	2.697	14.77	74.96
	WN1516-355	4.114	6.614	5.512	3.425	11.988	2.067	4.567	0.236	+/- 0.059	3.051	21.38	101.41
	WN1516-400	4.114	6.614	5.512	3.425	11.988	2.067	4.567	0.236	+/- 0.059	3.051	21.38	114.64
	WN1516-450	4.114	6.614	5.512	3.425	11.988	2.067	4.567	0.236	+/- 0.059	3.051	21.38	132.28
	WN1519-400	4.783	7.638	5.512	3.819	12.657	2.362	4.409	0.236	+/- 0.059	3.327	32.19	138.89
	WN1519-560	4.783	7.638	5.512	3.819	12.657	2.362	4.409	0.236	+/- 0.059	3.327	32.19	200.62
	WN1524-630	5.748	8.858	5.512	4.606	13.937	2.972	4.311	0.256	+/- 0.079	3.819	56.66	282.19
	WN1524-450	5.748	8.858	5.512	4.606	13.937	2.972	4.311	0.256	+/- 0.079	3.819	56.66	202.83
	WN1524-560	5.748	8.858	5.512	4.606	13.937	2.972	4.311	0.256	+/- 0.079	3.819	56.66	249.12
	WN1526-500	6.457	10.433	5.512	5.394	15.020	3.465	4.213	0.276	+/- 0.079	4.114	83.33	275.58
	WN1526-560	6.457	10.433	5.512	5.394	15.020	3.465	4.213	0.276	+/- 0.079	4.114	83.33	302.03
	WN1526-710	6.457	10.433	5.512	5.394	15.020	3.465	4.213	0.276	+/- 0.079	4.114	83.33	379.20
	WN1529-630	7.126	11.614	5.512	5.787	15.610	3.780	4.173	0.315	+/- 0.079	4.311	108.69	385.81
	WN1529-710	7.126	11.614	5.512	5.787	15.610	3.780	4.173	0.315	+/- 0.079	4.311	108.69	427.70

¹⁾ Weight inclusive the half share of the intermediate ring

²⁾ Attention on peak load - take into account maximum torque notified in data overview page 8

³⁾ Set screw on demand

⁴⁾ Choose brake disc assembly in a way, that brake torque does not affect intermediate ring

Notes

Notes

Online Service

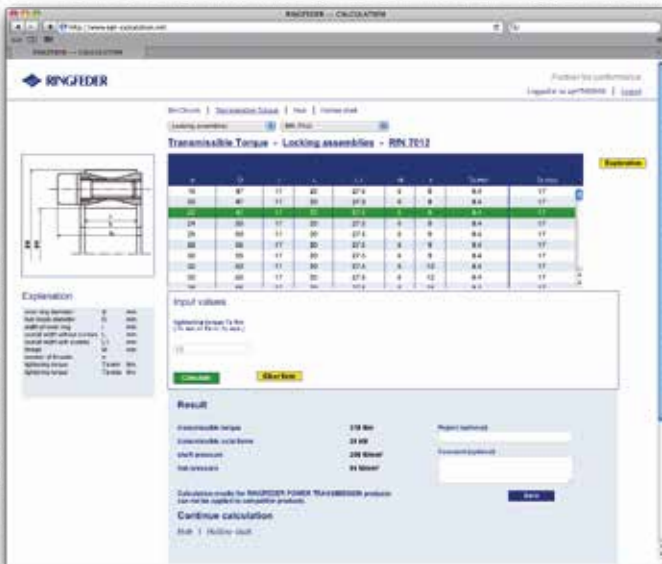
Calculation program for Locking Assemblies and Locking Elements

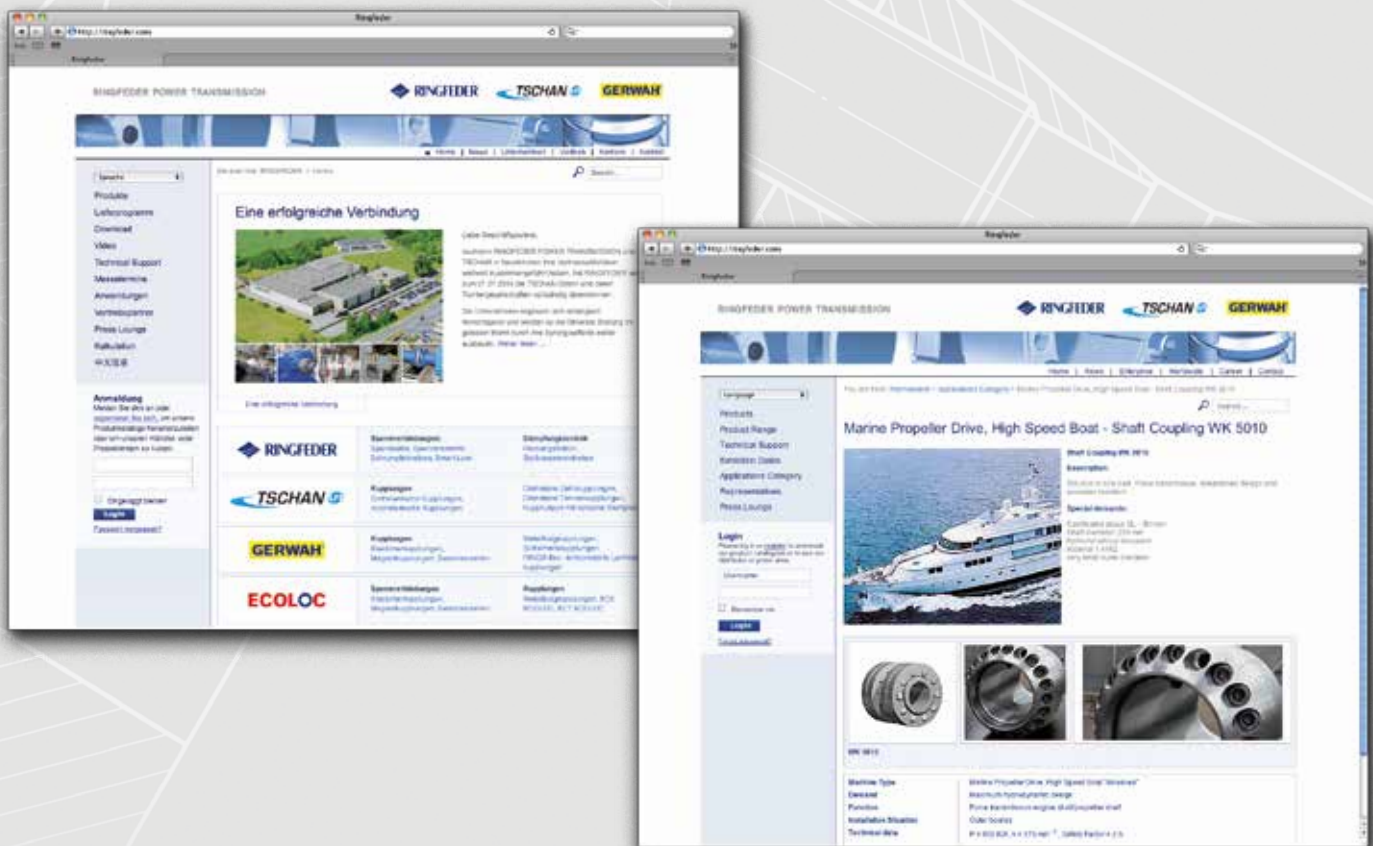
In order to meet the complex requirements on the correct design and selection of RINGFEDER products under practise-relevant demands, RINGFEDER POWER TRANSMISSION has developed a calculation program.

This calculation program offers the engineer a valuable aid in his or her daily work and simplifies the calculation of a wide range of tasks.

Once a product and the desired product size have been selected the program carries out the calculation, taking into account additional user input e.g. **transmissible torque and axial forces, resulting hub and shaft pressure, the outer diameter of the hub, the inner diameter of the hollow shaft** and for special tasks even the **forces and loads under bending moment loads**.

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Available Instructions for Installation, Removal and Maintaining



Locking Devices



Locking Assemblies



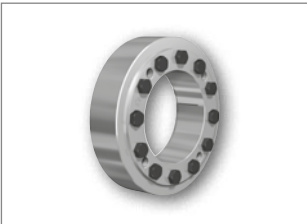
Locking Assemblies for bending moments



Locking Assemblies – Stainless steel



Locking Elements



Shrink Discs



Flange Couplings

Damping Technology



Friction Springs



DEFORM plus®



DEFORM plus® R

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Shaft Couplings



Couplings



Torsionally Flexible Couplings



Torsionally Flexible Couplings



Torsionally Flexible Couplings



Torsionally Rigid Gear Couplings



Torsionally Rigid Barrel Coupling



Couplings with variable Stiffness



Couplings



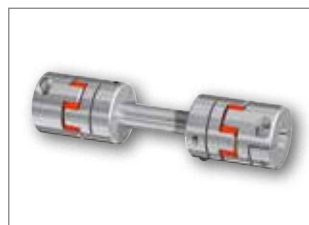
Metal Bellows Couplings



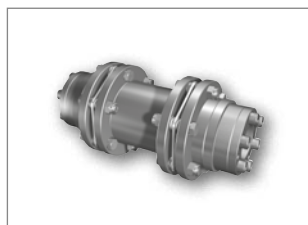
Servo-Insert Couplings



Safety Couplings



Line Shafts



Torsionally Rigid Disc Couplings



RINGFEDER POWER TRANSMISSION GMBH

Werner-Heisenberg-Straße 18, D-64823 Groß-Umstadt, Germany · Phone: +49 (0) 6078 9385-0 · Fax: +49 (0) 6078 9385-100
E-mail: sales.international@ringfeder.com

RINGFEDER POWER TRANSMISSION TSCHAN GMBH

Zweibrücker Strasse 104, D-66538 Neunkirchen, Germany · Phone: +49 (0) 6821 866-0 · Fax: +49 (0) 6821 866-4111
E-mail: sales.tschan@ringfeder.com

RINGFEDER POWER TRANSMISSION USA CORPORATION

165 Carver Avenue, Westwood, NJ 07675, USA · Toll Free: +1 888 746-4333 · Phone: +1 201 666 3320
Fax: +1 201 664 6053 · E-mail: sales.usa@ringfeder.com

RINGFEDER POWER TRANSMISSION INDIA PRIVATE LIMITED

Plot No. 4, Door No. 220, Mount - Poonamallee Road, Kattupakkam, Chennai – 600 056, India
Phone: +91 (0) 44-2679-1411 · Fax: +91 (0) 44-2679-1422 · E-mail: sales.india@ringfeder.com

KUNSHAN RINGFEDER POWER TRANSMISSION COMPANY LIMITED

No. 10 Dexin Road, Zhangpu Town 215321, Kunshan, China
Phone: +86 (0) 512-5745-3960 · Fax: +86 (0) 512-5745-3961 · E-mail: sales.china@ringfeder.com

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www.ringfeder.com