

Elastomer Jaw Couplings RINGFEDER® TNB

RINGFEDER® TNB jaw couplings are puncture-proof, elastic heavy load couplings. They are often used on the output shaft of the gearbox in order to damp process-related impacts and to absorb the dynamic effects of the acceleration of heavy masses. Used in drives for ore production and processing in mining and construction engineering, in cement works, in material handling and also in offshore technology.

Characteristics · Advantages

- Torsionally flexible and damping of torsional vibrations
- High breakage resistance through stable jaw design
- Many variations with modular design
- Radially accessible individual buffers reduce assembly and maintenance work
- Nom. torques: 1000–260000 Nm

Basic informationen

The technical data tables for the couplings types supplied in this catalogue include for one part design hubs hard V_{kW} buffer and for multi-part design hubs middle hard V_{kR} buffers. The soft Pb82 buffers can be used in each type considering the lower torque capability.

The higher the hardness of the elastic buffers, the higher the torque transmission capability of the coupling and, as a result, the higher is the torsion spring stiffness. The rated torque T_{KN} listed in the tables is the torque that the coupling is capable of transmitting

continuously. The maximum torque T_{Kmax} is the torque that the coupling is able to transmit for a short time up to 10⁵ times, e.g. during start-up.

Torsional vibration analyses (TVA) 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.

Size	Speed min ⁻¹ n _{max}	Nm		Torque with following buffer Nm			Nm	
		Pb82		V _{kR}		V _{kW}		
		T _{KN}	T _{Kmax}	T _{KN}	T _{Kmax}	T _{KN}	T _{Kmax}	
240	4100	1000	3000	2500	7500	-	-	
300	3300	2000	6000	6000	18000	8600	25800	
350	2800	3400	10200	10500	31500	15000	45000	
400	2450	5050	15150	16000	48000	23000	69000	
450	2200	6850	20550	21000	63000	31000	93000	
500	2000	10300	30900	28500	85500	41200	123600	
550	1800	13200	39600	45000	135000	66000	198000	
600	1650	16500	49500	55000	165000	80000	240000	
650	1500	19700	59100	65000	195000	94000	282000	
700	1400	26700	80100	90000	270000	130000	390000	
800	1200	39000	117000	125000	375000	180000	540000	
900	1100	54000	162000	180000	540000	260000	780000	

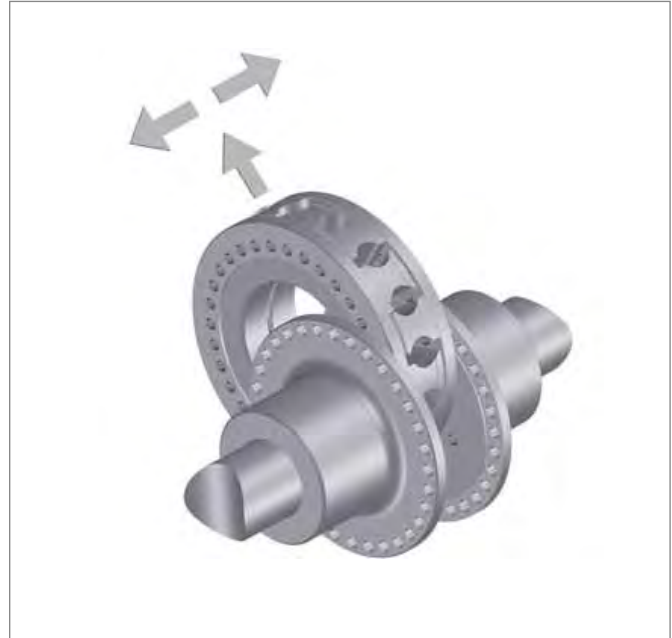
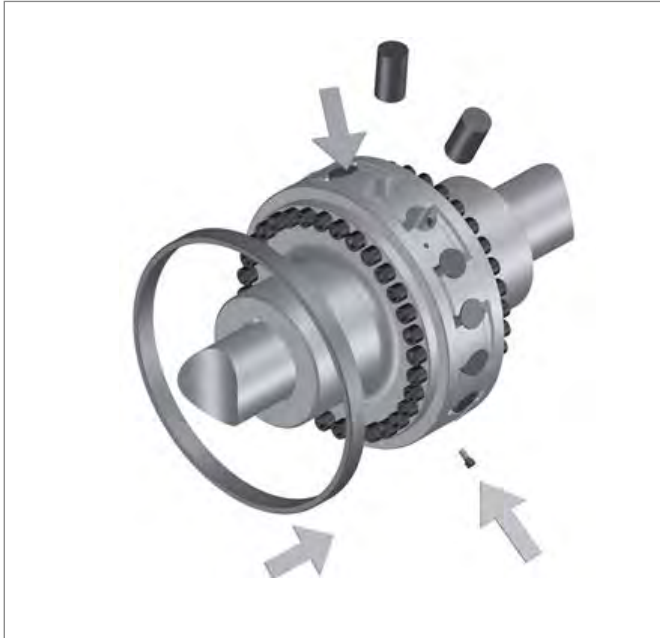
T_{KN} = Nominal torque of coupling

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



Replacement of elastic buffers without axial movement of the coupled machines. After removing the cheese head screws the retaining ring can axial shift and the buffers are free changeable each by each.

The central section can be radially removed as required or can be released on one side. As a result the facilitates assembly of heavy weight drive components. As well the direction of rotation of the electric motor can be checked.

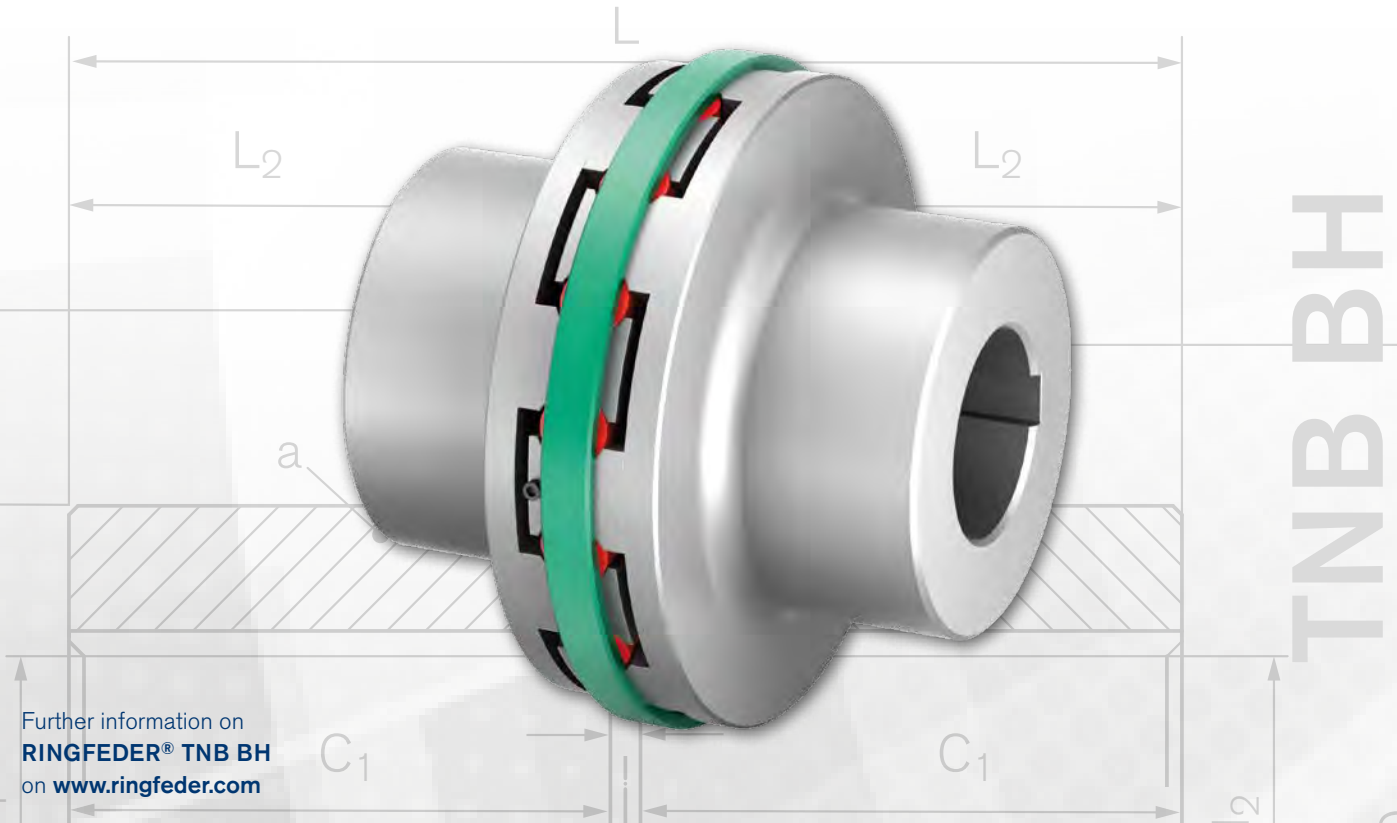


Allocation of the RINGFEDER® TNB couplings to IEC standard motors Protection rating IP 54/IP 55 (intermediate ring VkR)

Size	Engine	kW		kW		kW		kW		Cyl. shaft end Ø x L by rotary speed of	
		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	= 3000 min ⁻¹	≤ 3000 min ⁻¹
250	M	55	240	55	240	37	240	30	240	65 x 140	75 x 140
280	S	75	240	75	240	45	240	34	240	65 x 140	75 x 140
280	M	90	240	90	240	55	240	45	240	65 x 140	80 x 170
315	S	110	240	110	240	75	240	55	240	65 x 140	80 x 170
315	M	132	240	132	240	90	240	75	240	65 x 141	80 x 170
315	L	160	240	160	240	110	240	90	240	65 x 142	80 x 170
315	L	200	240	200	240	132	240	110	240	65 x 143	80 x 170
315	L	-	240	-	240	160	240	132	240	65 x 144	80 x 170
315	-	250	240	250	240	200	240	160	300	65 x 145	85 x 170
315	-	315	240	315	300	250	300	200	300	65 x 146	85 x 170
355	-	355	240	355	300	315	300	250	300	75 x 140	95 x 170
355	-	400	240	400	240	400	300	315	300	75 x 140	95 x 170
355	-	500	240	500	240	-	-	-	-	75 x 140	95 x 170
400	-	560	240	560	240	450	300	355	300	80 x 170	110 x 210
400	-	630	300	630	240	500	350	400	350	70 x 170	110 x 210
400	-	710	300	710	240	560	350	450	350	70 x 170	110 x 210
450	-	800	300	800	350	630	350	500	350	90 x 170	120 x 210
450	-	900	300	900	350	710	350	560	350	90 x 170	120 x 210
450	-	1000	300	1000	350	800	350	630	350	90 x 170	120 x 210

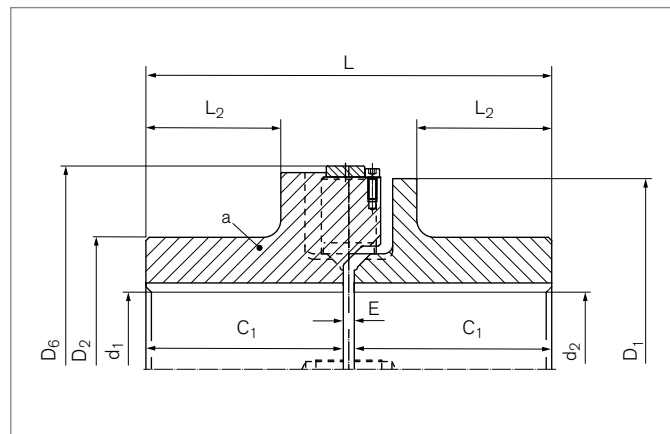
The allocation of the couplings is based on the type RINGFEDER® TNB with VkR buffer and takes into account a uniform torque at the operating point (minimum operating factor 1.25) with low

variation and slight shocks and is valid up to an ambient temperature of +30 °C.



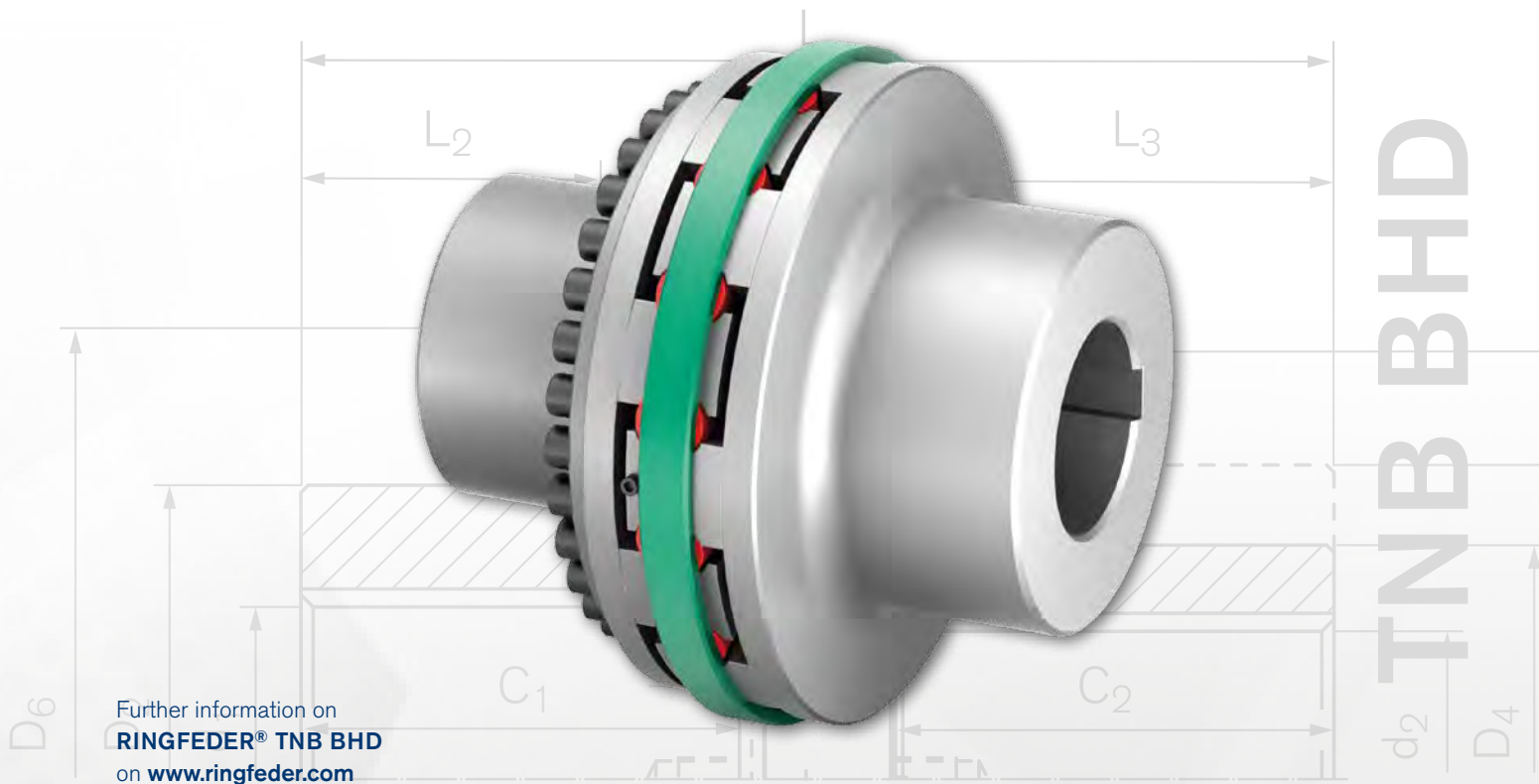
Combination of one-part design coupling hubs with Vkw buffer for highest torque transmission

The RINGFEDER® TNB BH coupling is a torsionally elastic and puncture-proof jaw coupling. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard Vkw. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position.



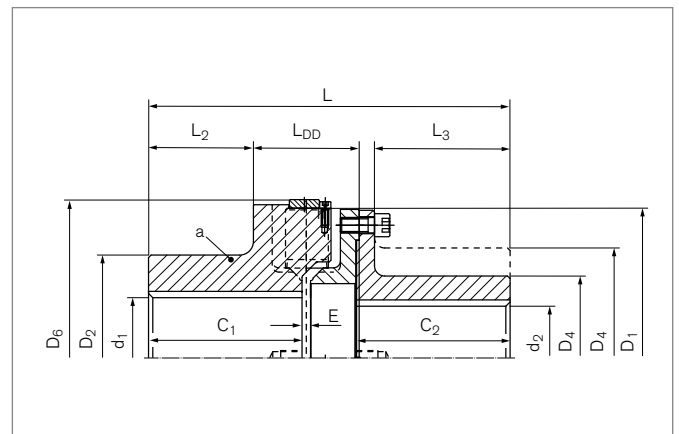
Characteristics

- Radially accessible individual buffers reduce assembly and maintenance work
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Maximum torque transmission through single-part coupling hub and Vkw buffer
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 260000 \text{ Nm}$



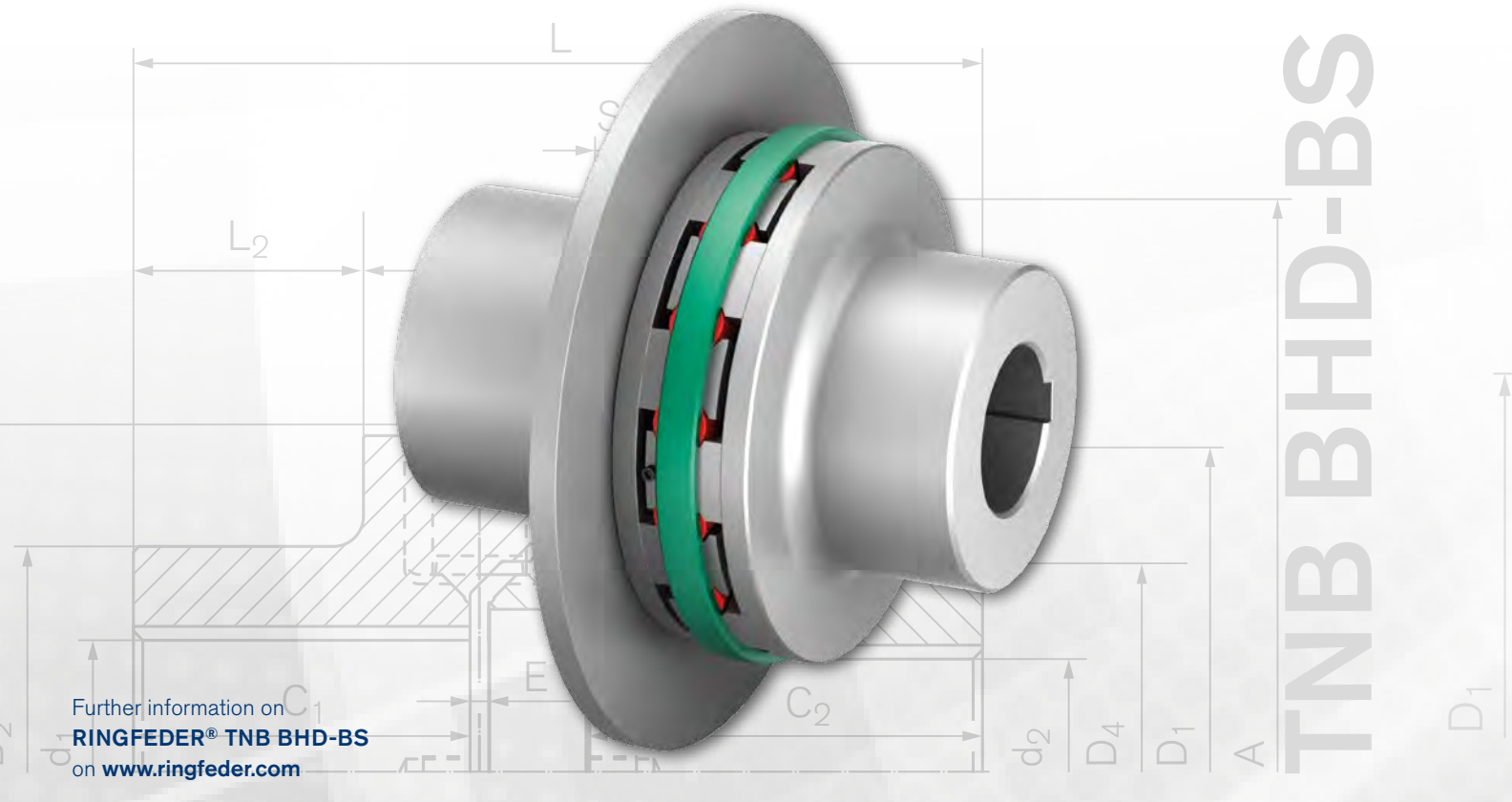
Combination of an one-part design and a multi-part design coupling hub and VkR buffer

The RINGFEDER® TNB BHD coupling is a torsionally elastic and puncture-proof jaw coupling. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard VkR. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position. One of the coupling halves is divided into flange hub and jaw ring. When the jaw ring is pulled back the drive line is separated, allowing simple checking of the rotational direction of the drive. This additional interface substantially simplifies the assembly of the drive line.



Characteristics

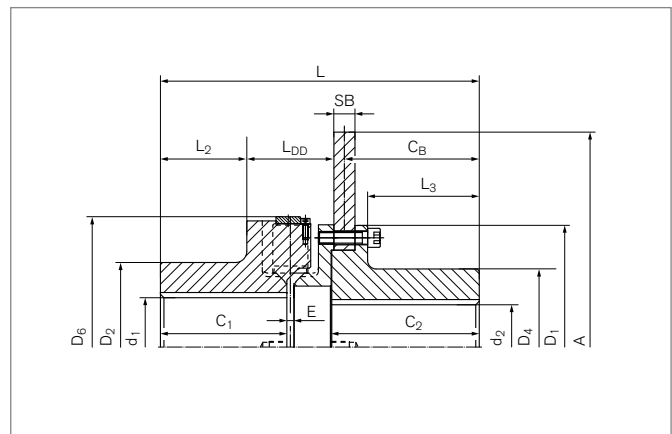
- Radially accessible individual buffers reduce assembly and maintenance work
- Simplified assembly and rotational direction check through separation of jaw ring and flange hub
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 180000 \text{ Nm}$



Further information on
RINGFEDER® TNB BHD-BS
on www.ringfeder.com

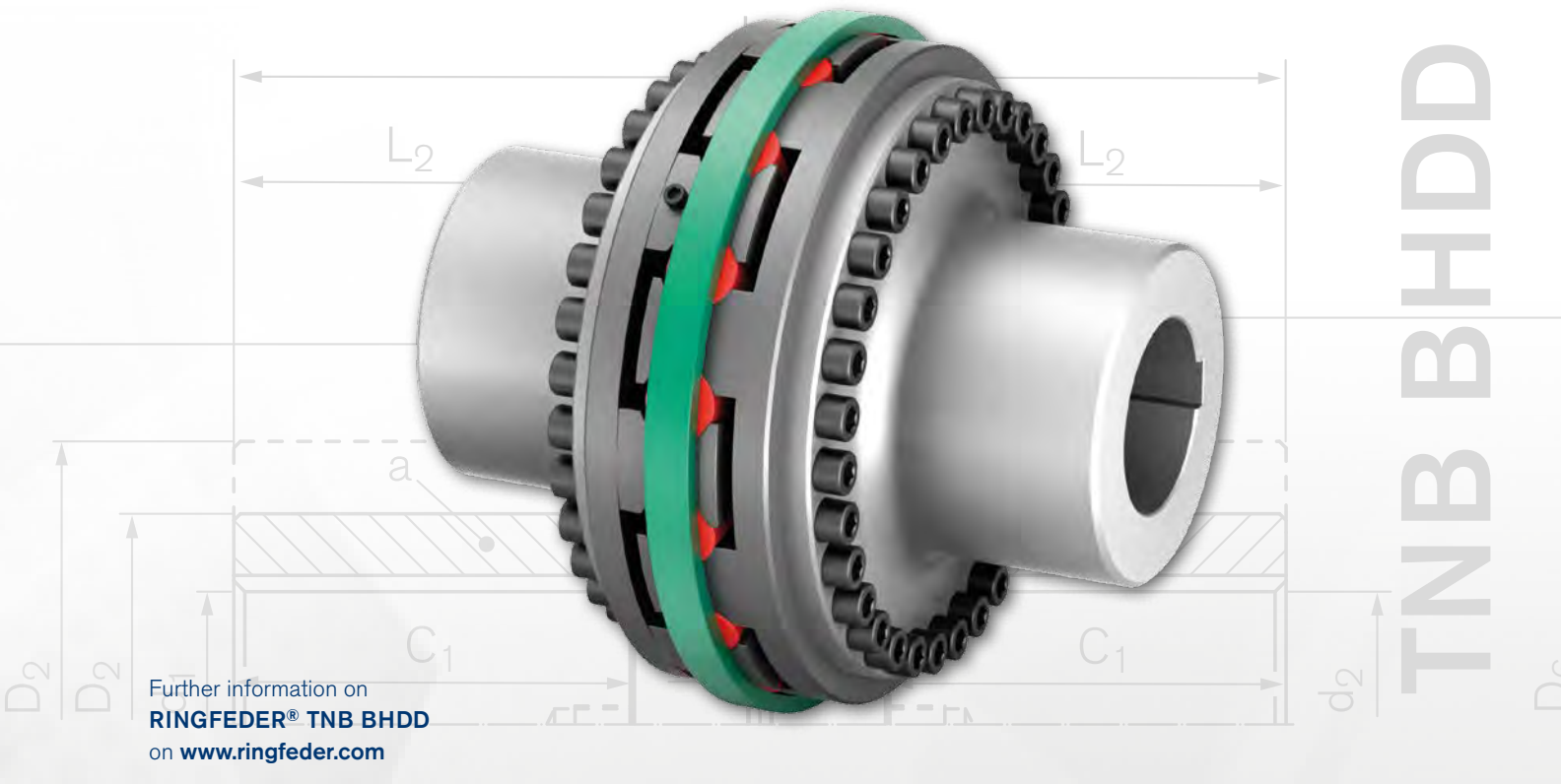
Combination of an one-part design and a multi-part design coupling hub with brake disc and VkR buffer.

The RINGFEDER® TNB BHD-BS coupling is a torsionally elastic and puncture-proof jaw coupling with a straight brake disc. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard VkR. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position. One of the coupling halves is divided into flange hub and jaw ring. When the jaw ring is pulled back the drive line is separated, allowing simple checking of the rotational direction of the drive. This additional interface substantially simplifies the assembly of the drive line.



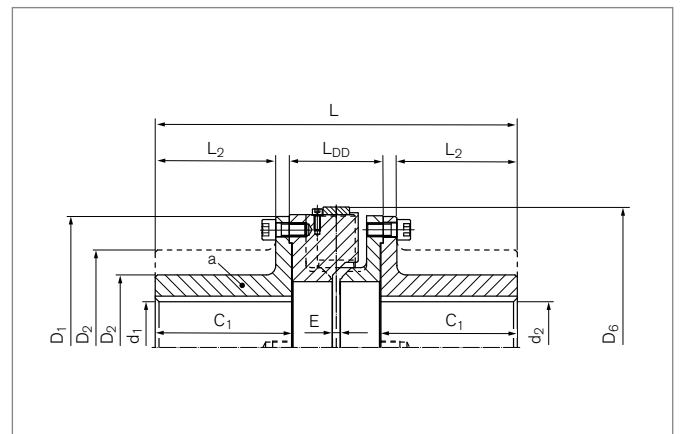
Characteristics

- Radially accessible individual buffers reduce assembly and maintenance work
- Simplified assembly and rotational direction check through separation of jaw ring and flange hub
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 180000 \text{ Nm}$



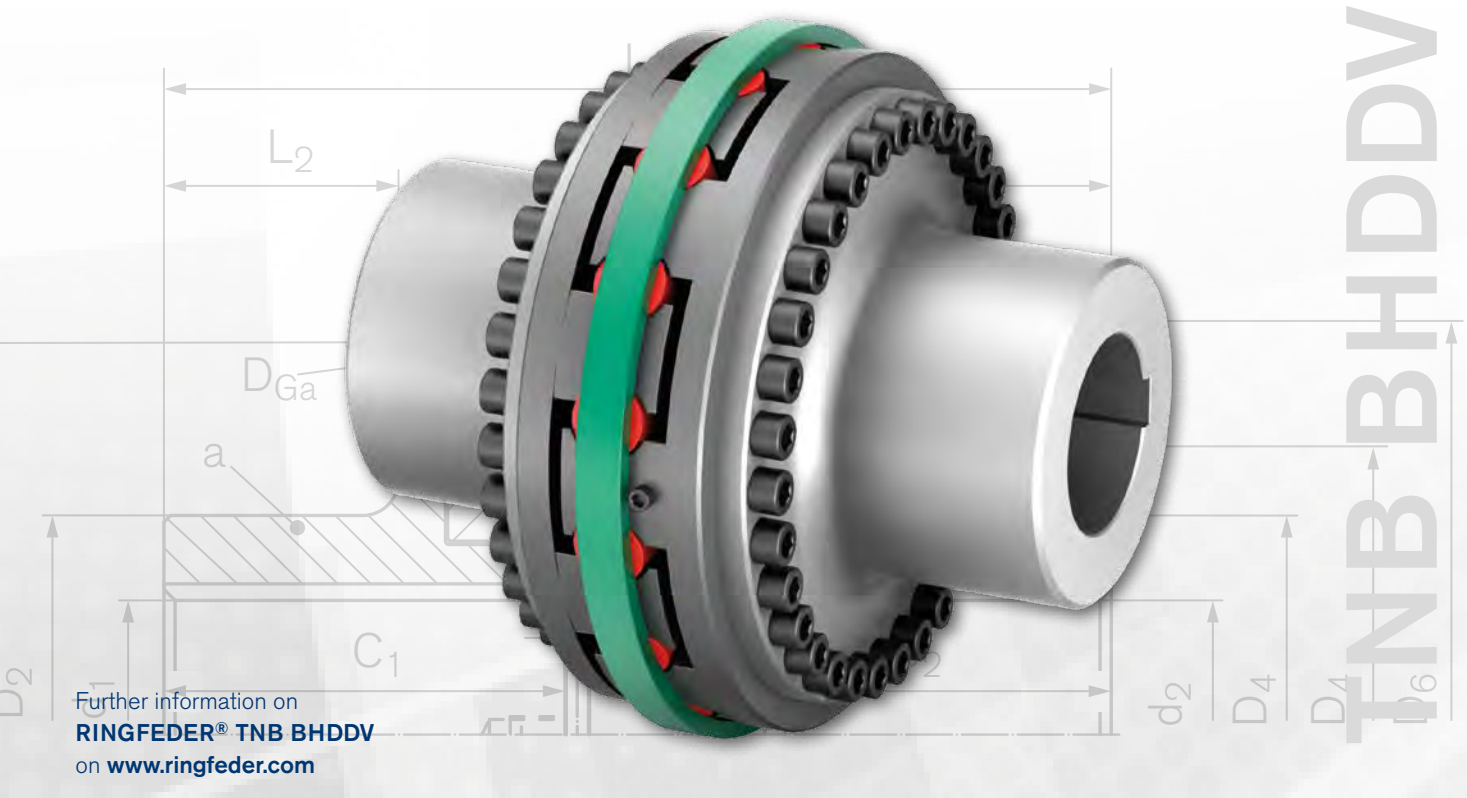
Combination of multi-part design coupling hubs with radially removable central section and VkR buffer

The RINGFEDER® TNB BHDD coupling is a torsionally elastic and puncture-proof jaw coupling with removable central section. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic individual buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard VkR. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position. Both coupling halves are divided into flange hub and jaw ring. When the central section is removed the drive line is separated, allowing simple checking of the rotational direction of the drive. This additional free space substantially simplifies the assembly of the drive line.



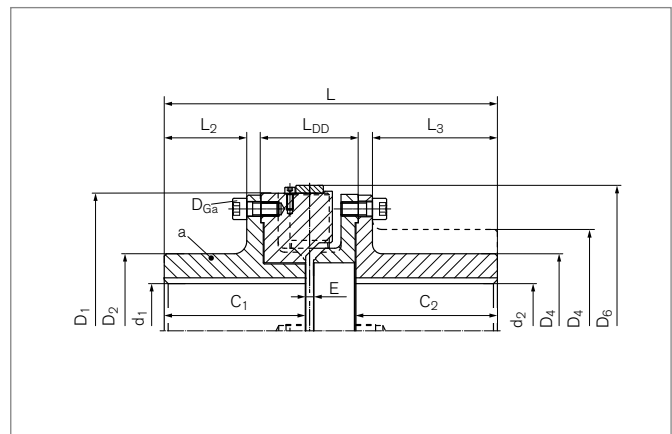
Characteristics

- Radially accessible individual buffers reduce assembly and maintenance work
- Simplified assembly and rotational direction check through separation of jaw ring and flange hub
- Increased assembly space by removing the jaw rings
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 180000 \text{ Nm}$



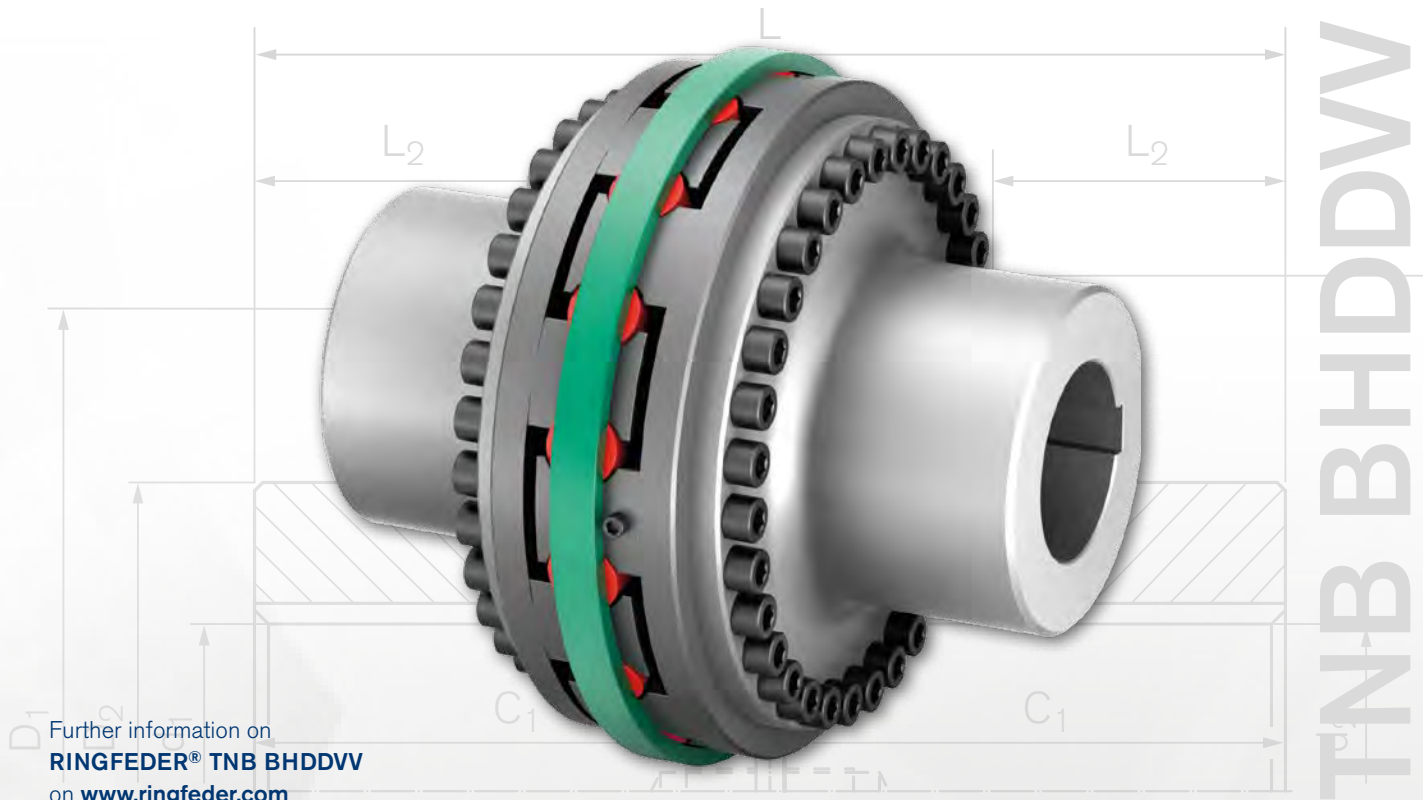
Combination of multi-part design coupling hubs for short shaft distances with VkR buffer

The RINGFEDER® TNB BHDDV coupling is a torsionally elastic and puncture-proof jaw coupling. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic individual buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard ZZZ. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position. When the jaw ring is pulled back this allows simple checking of the rotational direction of the drive. This additional interface substantially simplifies the assembly of the drive line.



Characteristics

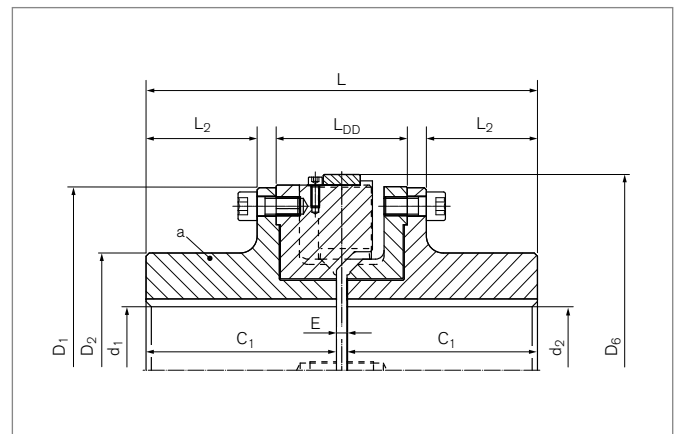
- Radially accessible individual buffers reduce assembly and maintenance work
- Simplified assembly and rotational direction check through separation of jaw ring and flange hub
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 180000 \text{ Nm}$



Further information on
RINGFEDER® TNB BHDDVV
on www.ringfeder.com

Symmetrical setup of multi-part design coupling hubs with very short shaft distances with VkR buffers

The RINGFEDER® TNB BHDDVV coupling is a torsionally elastic and puncture-proof jaw coupling. It balances out angular, radial and axial shaft offset within determined tolerances. The coupling transmits the torque via pre-compressed and radially freely accessible elastic individual buffers in synthetic rubber (Perbunan; Pb) or polyurethane (Vulkollan; Vk), in standard VkR. The elastic buffers can damp impacts and torsional vibrations and are oil resistant. The coupling can be used in any direction of rotation and installation position. When one jaw ring is pulled back this allows checking of the rotational direction. Material and length of the hubs can be adapted to customer requirements.



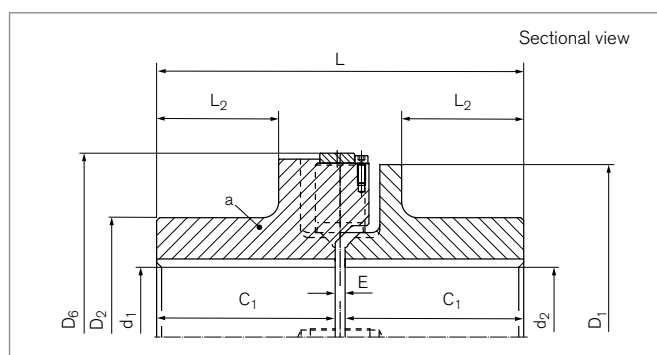
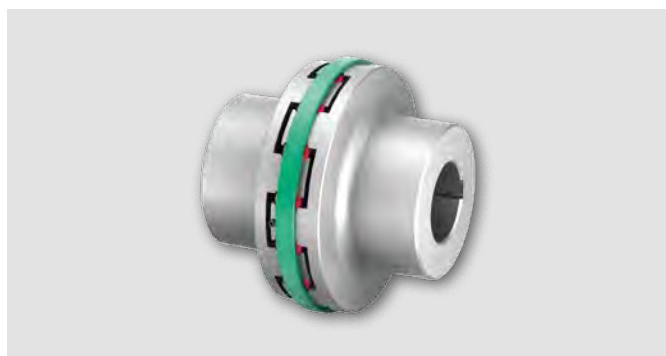
Characteristics

- Radially accessible individual buffers reduce assembly and maintenance work
- Torsionally elastic and puncture-proof, balances out angular, radial and axial shaft offset
- Optimisation of the vibration damping through different buffer hardness levels, usable from -30 °C to +100 °C.
- Hub material and design can be displayed as required
- Fitted with extraction and transportation bores
- Nominal torques $T_{KN} = 180000 \text{ Nm}$

Elastomer Jaw Couplings

RINGFEDER® TNB BH

Combination of one-part design coupling hubs with Vkw buffer for highest torque transmission



Identifier	Size	$T_{KN}^{2)}$	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_6
		Nm	1/min	mm	mm	mm	mm	mm
WB0130	300	8600	3300	135	135	300	210	320
WB0135	350	15000	2800	160	160	350	240	370
WB0140	400	23000	2450	180	180	400	270	420
WB0145	450	31000	2200	200	200	450	300	470
WB0150	500	41200	2000	220	220	500	330	530
WB0155	550	66000	1800	240	240	550	350	580
WB0160	600	80000	1650	250	250	600	375	630
WB0165	650	94000	1500	260	260	650	400	680
WB0170	700	130000	1400	300	300	700	450	740
WB0180	800	180000	1200	330	330	800	490	840
WB0190	900	260000	1100	360	360	900	540	940

Identifier	Size	C_1	L	L_2	E	$G_{wa}^{1)}$	G_{Wub}
		mm	mm	mm	mm	kg	kg
WB0130	300	160	330	103	10	51	101
WB0135	350	180	370	123	10	74	145
WB0140	400	198	406	134	10	107	210
WB0145	450	218	446	154	10	141	275
WB0150	500	236,5	487	163,5	14	188	371
WB0155	550	256,5	527	183,5	14	234	456
WB0160	600	258	530	180	14	286	565
WB0165	650	286,5	587	202,5	14	359	705
WB0170	700	327	668	234	14	496	985
WB0180	800	357	728	264	14	653	1285
WB0190	900	407	828	307	14	908	1790

1) Mass information for unbored coupling parts

2) Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

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Elastomer Jaw Couplings RINGFEDER® TNB BH

Explanation

T_{KN} = Nom. Transmissible torque	D₁ = Outer diameter	E = Gap width between left and right component
n_{max} = Max. rotation speed	D₂ = Outer diameter hub	G_{wa} = Weight of subassembly a
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	D₆ = Diameter	G_{wub} = Weight, unbored
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	C₁ = Guided length in hub bore	
	L = Total length	
	L₂ = Length on the hub	

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB0155	550	200	180	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

⁴⁾ 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

Further information on
RINGFEDER® TNB BH
 on www.ringfeder.com

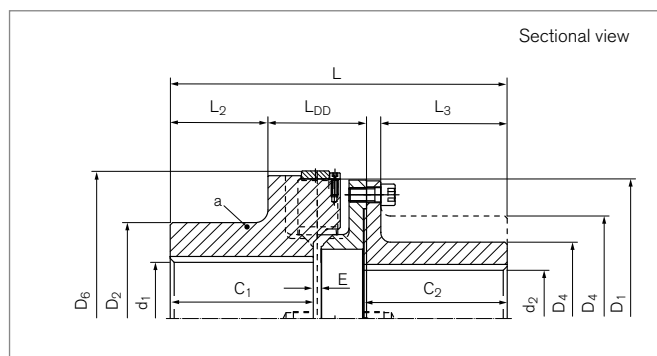
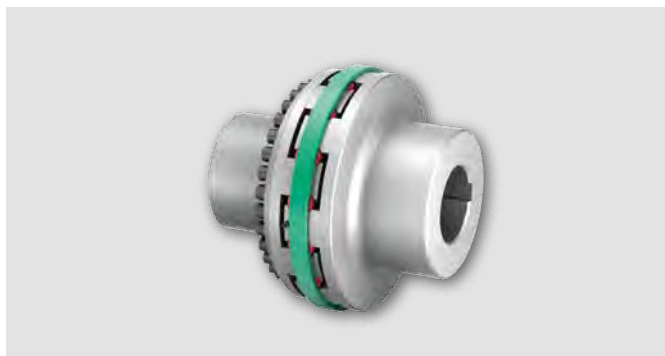
Disclaimer of liability

All technical details and notes 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 carry out modifications at any time in the interests of technical progress.

Elastomer Jaw Couplings

RINGFEDER® TNB BHD

Combination of an one-part design and a multi-part design coupling hub and Vkr buffer



Identifier	Size	T_{KN^2}	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_4	D_6
		Nm	1/min	mm	mm	mm	mm	mm	mm
WB0230-A	300	6000	3300	135	110	300	210	170	320
WB0230-B	300	6000	3300	135	135	300	210	200	320
WB0235-A	350	10500	2800	160	120	350	240	180	370
WB0235-B	350	10500	2800	160	170	350	240	250	370
WB0240-A	400	16000	2450	180	140	400	270	210	420
WB0240-B	400	16000	2450	180	190	400	270	280	420
WB0245-A	450	21000	2200	200	170	450	300	250	470
WB0245-B	450	21000	2200	200	205	450	300	300	470
WB0250-A	500	28500	2000	220	180	500	330	270	530
WB0250-B	500	28500	2000	220	225	500	330	330	530
WB0255-A	550	45000	1800	240	200	550	350	280	580
WB0255-B	550	45000	1800	240	240	550	350	350	580
WB0260-A	600	55000	1650	250	235	600	375	330	630
WB0260-B	600	55000	1650	250	265	600	375	385	630
WB0265-A	650	65000	1500	260	250	650	400	350	680
WB0265-B	650	65000	1500	260	265	650	400	385	680
WB0270-A	700	90000	1400	300	260	700	450	370	740
WB0270-B	700	90000	1400	300	310	700	450	450	740
WB0280-A	800	120000	1200	330	320	800	490	450	840
WB0280-B	800	120000	1200	330	340	800	490	490	840
WB0290-A	900	180000	1100	360	340	900	540	480	940
WB0290-B	900	180000	1100	360	400	900	540	590	940

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Elastomer Jaw Couplings RINGFEDER® TNB BHD

Identifier	Size	C ₁	C ₂	L	L ₂	L ₃	L _{DD}	E	G _{wa} ¹⁾	G _{Wub}
		mm	mm	mm	mm	mm	mm	mm	kg	kg
WB0230-A	300	160	160	384	103	139	124	10	51	104
WB0230-B	300	160	186	410	103	165	124	10	51	120
WB0235-A	350	180	180	424	123	159	124	10	74	142
WB0235-B	350	180	231	475	123	210	124	10	74	191
WB0240-A	400	198	190	459	134	167	138	10	107	206
WB0240-B	400	198	239	508	134	216	138	10	107	265
WB0245-A	450	218	200	489	154	177	138	10	141	271
WB0245-B	450	218	239	528	154	216	138	10	141	322
WB0250-A	500	236,5	228	547,5	163,5	199	160	14	188	373
WB0250-B	500	236,5	279	598,5	163,5	250	160	14	188	451
WB0255-A	550	256,5	228	567,5	183,5	199	160	14	234	442
WB0255-B	550	256,5	279	618,5	183,5	250	160	14	234	534
WB0260-A	600	258	258	604	180	229	170	14	286	578
WB0260-B	600	258	299	645	180	270	170	14	286	672
WB0265-A	650	286,5	258	637,5	202,5	225	182	14	357	695
WB0265-B	650	286,5	299	678,5	202,5	266	182	14	357	767
WB0270-A	700	327	298	727	234	263	200	14	494	941
WB0270-B	700	327	345	774	234	310	200	14	494	1105
WB0280-A	800	357	338	797	264	303	200	14	652	1316
WB0280-B	800	357	365	824	264	330	200	14	652	1426
WB0290-A	900	407	338	853	307	297	214	14	906	1695
WB0290-B	900	407	399	914	307	358	214	14	906	2042

¹⁾ Mass information for unbored coupling parts

²⁾ Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

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Elastomer Jaw Couplings RINGFEDER® TNB BHD

Explanation

T_{KN} = Nom. Transmissible torque	D₂ = Outer diameter	L₃ = Length
n_{max} = Max. rotation speed	D₄ = Outer diameter	L_{DD} = Distance dimension
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	D₆ = Diameter	E = Gap width between left and right component
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	C₁ = Guided length in hub bore	G_{wa} = Weight of subassembly a
D₁ = Outer diameter	C₂ = Guided length in hub bore	G_{wub} = Weight, unbored
	L = Total length	
	L₂ = Length on the hub	

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB0240-B	400	180	170	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

⁴⁾ 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

Further information on
RINGFEDER® TNB BHD
 on www.ringfeder.com

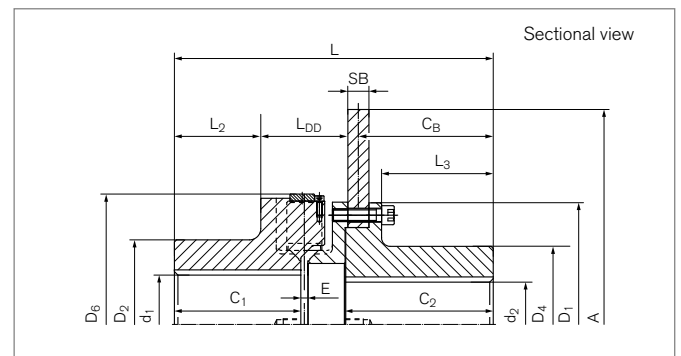
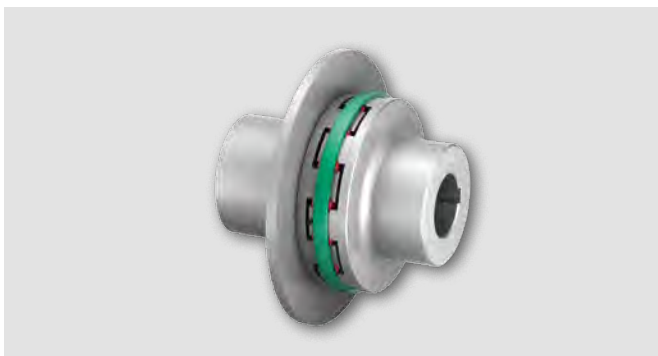
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Elastomer Jaw Couplings

RINGFEDER® TNB BHD-BS

Combination of an one-part design and a multi-part design coupling hub with brake disc and Vkr buffer.



Identifier	Size	A	SB	T_{KN^2}	T_{BR}	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_4	D_6
		mm	mm	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm
WB0730-0630	300	630	30	6000	18000	2700	135	135	300	210	200	320
WB0735-0710	350	710	30	10500	31500	2400	160	170	350	240	250	370
WB0740-0800	400	800	30	16000	48000	2150	180	190	400	270	280	420
WB0745-0800	450	800	30	21000	63000	2150	200	205	450	300	300	470
WB0750-0900	500	900	30	28500	85500	1900	220	225	500	330	330	530
WB0755-0900	550	900	30	45000	135000	1800	240	240	550	350	350	580
WB0760-1000	600	1000	30	55000	165000	1650	250	265	600	375	385	630
WB0765-1000	650	1000	30	65000	195000	1500	260	265	650	400	385	680
WB0770-1200	700	1200	30	90000	270000	1400	300	310	700	450	450	740
WB0780-1400	800	1400	30	120000	375000	1200	330	340	800	490	490	840
WB0790-1500	900	1500	30	180000	540000	1100	360	400	900	540	590	940

Identifier	Size	C_1	C_2	C_B	L	L_2	L_3	L_{DD}	E	$G_{WBS}^{1)}$	G_{Wub}
		mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
WB0730-0630	300	160	216	198	440	103	165	124	10	142	193
WB0735-0710	350	180	261	243	505	123	210	124	10	210	284
WB0740-0800	400	198	269	251	538	134	216	138	10	276	383
WB0745-0800	450	218	269	251	558	154	216	138	10	299	440
WB0750-0900	500	236,5	309	290	628,5	163	250	160	14	413	601
WB0755-0900	550	256,5	309	290	648,5	183,5	250	160	14	450	684
WB0760-1000	600	258	329	310	675	180	270	170	14	571	857
WB0765-1000	650	286,5	329	309	708,5	202,5	266	182	14	594	951
WB0770-1200	700	327	375	355	804	234	310	200	14	876	1370
WB0780-1400	800	357	395	375	854	264	330	200	14	1136	1788
WB0790-1500	900	407	429	408	944	307	358	214	14	1552	2458

1) Mass information for unbored coupling parts

2) Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

To continue see next page

Elastomer Jaw Couplings RINGFEDER® TNB BHD-BS

Explanation

A	= Max. outer diameter	D₁	= Outer diameter	L₂	= Length on the hub
SB	= Disc width	D₂	= Outer diameter hub	L₃	= Length
T_{KN}	= Nom. Transmissible torque	D₄	= Outer diameter hub	L_{DD}	= Distance dimension
T_{BR}	= Brake torque	D₆	= Diameter	E	= Gap width between left and right component
n_{max}	= Max. rotation speed	C₁	= Guided length in hub bore	GW_{BS}	= Weight of part with brake disc, unbored
d_{1kmax}	= Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	C₂	= Guided length in hub bore	GW_{ub}	= Weight, unbored
d_{2kmax}	= Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	C_B	= Brake disc distance		
		L	= Total length		

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB0755-0900	550	240	200	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

⁴⁾ 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

Further information on
RINGFEDER® TNB BHD-BS
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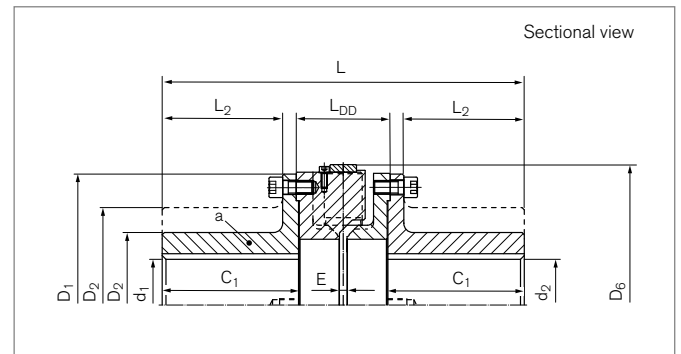
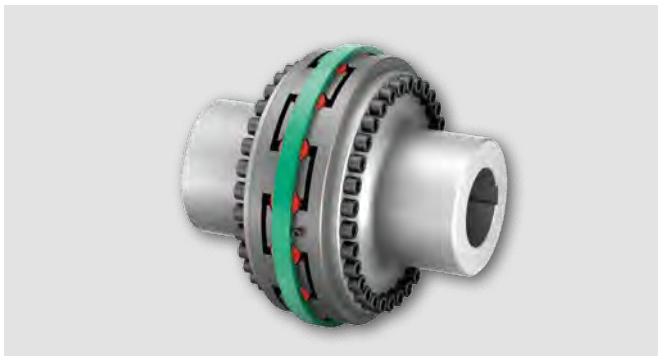
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Elastomer Jaw Couplings

RINGFEDER® TNB BHDD

Combination of multi-part design coupling hubs with radially removable central section and VkR buffer



Identifier	Size	$T_{KN}^{(2)}$	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_6
		Nm	1/min	mm	mm	mm	mm	mm
WB0624-A	240	2500	4100	85	85	240	140	260
WB0624-B	240	2500	4100	100	100	240	150	260
WB0630-A	300	6000	3300	110	110	300	170	320
WB0630-B	300	6000	3300	135	135	300	200	320
WB0635-A	350	10500	2800	120	120	350	180	370
WB0635-B	350	10500	2800	170	170	350	250	370
WB0640-A	400	16000	2450	140	140	400	210	420
WB0640-B	400	16000	2450	190	190	400	280	420
WB0645-A	450	21000	2200	170	170	450	250	470
WB0645-B	450	21000	2200	205	205	450	300	470
WB0650-A	500	28500	2000	180	180	500	270	530
WB0650-B	500	28500	2000	225	225	500	330	530
WB0655-A	550	45000	1800	200	200	550	280	580
WB0655-B	550	45000	1800	240	240	550	350	580
WB0660-A	600	55000	1650	235	235	600	330	630
WB0660-B	600	55000	1650	265	265	600	385	630
WB0665-A	650	65000	1500	250	250	650	350	680
WB0665-B	650	65000	1500	265	265	650	385	680
WB0670-A	700	90000	1400	260	260	700	370	740
WB0670-B	700	90000	1400	310	310	700	450	740
WB0680-A	800	120000	1200	320	320	800	450	840
WB0680-B	800	120000	1200	340	340	800	490	840
WB0690-A	900	180000	1100	340	340	900	480	940
WB0690-B	900	180000	1100	400	400	900	590	940

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Elastomer Jaw Couplings RINGFEDER® TNB BHDD

Identifier	Size	C ₁	L	L ₂	L _{DD}	E	G _{wa} ¹⁾	G _{wub}
		mm	mm	mm	mm	mm	kg	kg
WB0624-A	240	130	360	113	104	10	30	58
WB0624-B	240	150	400	133	104	10	35	68
WB0630-A	300	160	438	139	124	10	56	109
WB0630-B	300	186	490	165	124	10	71	140
WB0635-A	350	180	478	159	124	10	72	139
WB0635-B	350	231	580	210	124	10	121	238
WB0640-A	400	190	512	167	138	10	104	203
WB0640-B	400	239	610	216	138	10	163	321
WB0645-A	450	200	532	177	138	10	136	266
WB0645-B	450	239	610	216	138	10	187	386
WB0650-A	500	228	608	199	160	14	195	380
WB0650-B	500	279	710	250	160	14	273	536
WB0655-A	550	228	608	199	160	14	219	427
WB0655-B	550	279	710	250	160	14	312	613
WB0660-A	600	258	678	229	170	14	303	595
WB0660-B	600	299	760	270	170	14	396	782
WB0665-A	650	258	688	225	182	14	350	688
WB0665-B	650	299	770	266	182	14	422	832
WB0670-A	700	298	786	263	200	14	467	914
WB0670-B	700	345	880	310	200	14	631	1241
WB0680-A	800	338	866	303	200	14	686	1350
WB0680-B	800	365	920	330	200	14	796	1570
WB0690-A	900	338	878	297	214	14	811	1601
WB0690-B	900	399	1000	358	214	14	1158	2295

¹⁾ Mass information for unbored coupling parts

²⁾ Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

To continue see next page

Elastomer Jaw Couplings RINGFEDER® TNB BHDD

Explanation

T_{KN} = Nom. Transmissible torque	D₁ = Outer diameter	L_{DD} = Distance dimension
n_{max} = Max. rotation speed	D₂ = Outer diameter hub	E = Gap width between left and right component
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	D₆ = Diameter	G_{wa} = Weight of subassembly a
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	C₁ = Guided length in hub bore	G_{wub} = Weight, unbored
	L = Total length	
	L₂ = Length on the hub	

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB0640-A	400	140	120	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

¹⁾ 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

Further information on
RINGFEDER® TNB BHDD
 on www.ringfeder.com

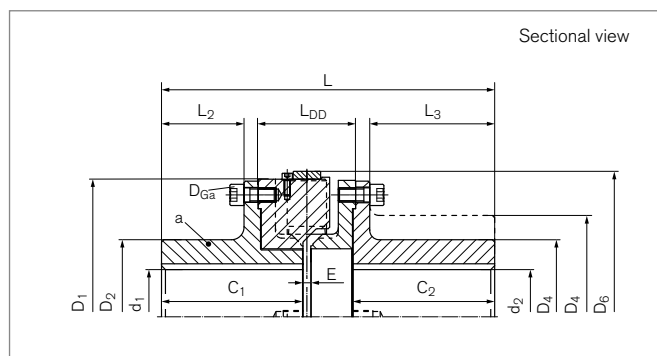
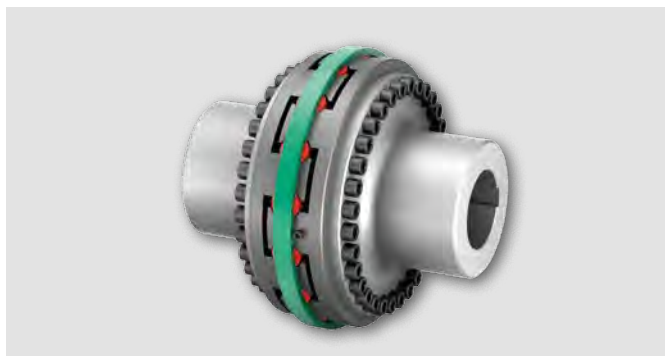
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Elastomer Jaw Couplings

RINGFEDER® TNB BHDDV

Combination of multi-part design coupling hubs for short shaft distances with VkR buffer



Identifier	Size	T_{KN^2}	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_4	D_6
		Nm	1/min	mm	mm	mm	mm	mm	mm
WB2024-A	240	2500	4100	85	85	240	140	140	260
WB2024-B	240	2500	4100	85	100	240	140	150	260
WB2030-A	300	6000	3300	110	110	300	170	170	320
WB2030-B	300	6000	3300	110	135	300	170	200	320
WB2035-A	350	10500	2800	120	120	350	180	180	370
WB2035-B	350	10500	2800	120	170	350	180	250	370
WB2040-A	400	16000	2450	140	140	400	210	210	420
WB2040-B	400	16000	2450	140	190	400	210	280	420
WB2045-A	450	21000	2200	170	170	450	250	250	470
WB2045-B	450	21000	2200	170	205	450	250	300	470
WB2050-A	500	28500	2000	180	180	500	270	270	530
WB2050-B	500	28500	2000	180	225	500	270	330	530
WB2055-A	550	45000	1800	200	200	550	280	280	580
WB2055-B	550	45000	1800	200	240	550	280	350	580
WB2060-A	600	55000	1650	235	235	600	330	330	630
WB2060-B	600	55000	1650	235	265	600	330	385	630
WB2065-A	650	65000	1500	250	250	650	350	350	680
WB2065-B	650	65000	1500	250	265	650	350	385	680
WB2070-A	700	90000	1400	260	260	700	370	370	740
WB2070-B	700	90000	1400	260	310	700	370	450	740
WB2080-A	800	120000	1200	320	320	800	450	450	840
WB2080-B	800	120000	1200	320	340	800	450	490	840
WB2090-A	900	180000	1100	340	340	900	480	480	940
WB2090-B	900	180000	1100	340	400	900	480	590	940

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Elastomer Jaw Couplings RINGFEDER® TNB BHDDV

Identifier	Size	C ₁	C ₂	L	L ₂	L ₃	L _{DD}	E	G _{wa} ¹⁾	G _{Wub}
		mm	mm	mm	mm	mm	mm	mm	kg	kg
WB2024-A	240	130	130	315	68	113	104	10	28	56
WB2024-B	240	130	150	335	68	133	104	10	28	61
WB2030-A	300	160	160	384	85	139	124	10	52	105
WB2030-B	300	160	186	410	85	165	124	10	52	121
WB2035-A	350	180	180	424	105	159	124	10	71	138
WB2035-B	350	180	231	475	105	210	124	10	71	187
WB2040-A	400	190	190	451	106	167	138	10	103	202
WB2040-B	400	190	239	500	106	216	138	10	103	161
WB2045-A	450	200	200	471	116	177	138	10	134	264
WB2045-B	450	200	239	510	116	216	138	10	134	315
WB2050-A	500	228	228	539	130	199	160	14	191	377
WB2050-B	500	228	279	590	130	250	160	14	191	454
WB2055-A	550	228	228	539	130	199	160	14	220	428
WB2055-B	550	228	279	590	130	250	160	14	220	521
WB2060-A	600	258	258	604	155	229	170	14	303	595
WB2060-B	600	258	299	645	155	270	170	14	303	688
WB2065-A	650	258	258	609	146	225	182	14	350	688
WB2065-B	650	258	299	650	146	266	182	14	350	760
WB2070-A	700	298	298	698	175	263	200	14	465	912
WB2070-B	700	298	345	745	175	310	200	14	465	1076
WB2080-A	800	338	338	778	215	303	200	14	686	1350
WB2080-B	800	338	365	805	215	330	200	14	686	1460
WB2090-A	900	338	338	784	203	297	214	14	812	1601
WB2090-B	900	338	399	845	203	358	214	14	812	1948

¹⁾ Mass information for unbored coupling parts

²⁾ Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

To continue see next page

Elastomer Jaw Couplings RINGFEDER® TNB BHDDV

Explanation

n_{max} = Max. rotation speed	D₄ = Outer diameter hub	L_{DD} = Distance dimension
T_{KN} = Nom. Transmissible torque	D₆ = Diameter	E = Gap width between left and right component
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	C₁ = Guided length in hub bore	G_{wa} = Weight of subassembly a
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	C₂ = Guided length in hub bore	G_{wub} = Weight, unbored
D₁ = Outer diameter	L = Total length	
D₂ = Outer diameter hub	L₂ = Length on the hub	
	L₃ = Length	

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB2035-B	350	120	150	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

⁴⁾ 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

Further information on
RINGFEDER® TNB BHDDV
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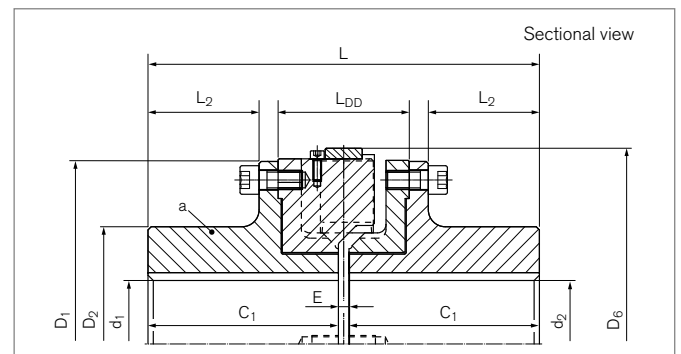
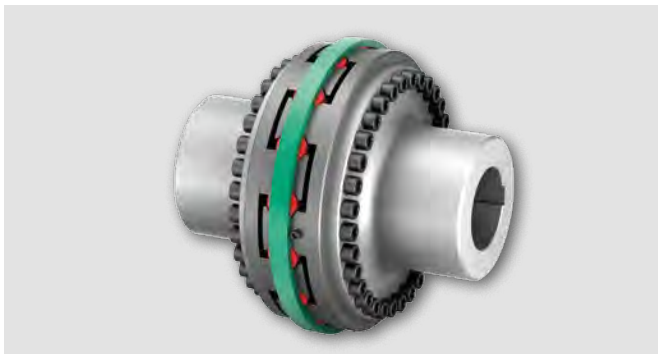
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Elastomer Jaw Couplings

RINGFEDER® TNB BHDDVV

Symmetrical setup of multi-part design coupling hubs with very short shaft distances with Vkr buffers



Identifier	Size	$T_{KN}^{2)}$	n_{max}	d_{1kmax}	d_{2kmax}	D_1	D_2	D_6
		Nm	1/min	mm	mm	mm	mm	mm
WB1624	240	2500	4100	85	85	240	140	260
WB1630	300	6000	3300	110	110	300	170	320
WB1635	350	10500	2800	120	120	350	180	370
WB1640	400	16000	2450	140	140	400	210	420
WB1645	450	21000	2200	170	170	450	250	470
WB1650	500	28500	2000	180	180	500	270	530
WB1655	550	45000	1800	200	200	550	280	580
WB1660	600	55000	1650	235	235	600	330	630
WB1665	650	65000	1500	250	250	650	350	680
WB1670	700	90000	1400	260	260	700	370	740
WB1680	800	120000	1200	320	320	800	450	840
WB1690	900	180000	1100	340	340	900	480	940

Identifier	Size	L	L_2	L_{DD}	E	Gwa ¹⁾	Gwub
		mm	mm	mm	mm	kg	kg
WB1624	240	270	68	104	10	28	54
WB1630	300	330	85	124	10	52	102
WB1635	350	370	105	124	10	71	137
WB1640	400	390	106	138	10	103	200
WB1645	450	410	116	138	10	134	263
WB1650	500	470	130	160	14	191	373
WB1655	550	470	130	160	14	220	429
WB1660	600	530	155	170	14	303	595
WB1665	650	530	146	182	14	350	688
WB1670	700	610	175	200	14	465	910
WB1680	800	690	215	200	14	686	1350
WB1690	900	690	203	214	14	812	1602

1) Mass information for unbored coupling parts

2) Attention on peak load. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

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Elastomer Jaw Couplings RINGFEDER® TNB BHDDV

Explanation

T_{KN} = Nom. Transmissible torque	D₂ = Outer diameter hub	E = Gap width between left and right component
n_{max} = Max. rotation speed	D₆ = Diameter	G_{wa} = Weight of subassembly a
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	C₁ = Guided length in hub bore	G_{wub} = Weight, unbored
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	L = Total length	
D₁ = Outer diameter	L₂ = Length on the hub	
	L_{DD} = Distance dimension	

Ordering example

Identifier	Size	d _{1k}	d _{2k}	Buffer identifier (optional) ³⁾	Further details
WB1635	350	110	120	Pb82	*

³⁾ If a different buffer shore hardness is selected, the values from the corresponding table must be taken into account. See chapter „Elastomer Jaw Couplings RINGFEDER® TNB Basic information“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

⁴⁾ 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

Further information on
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