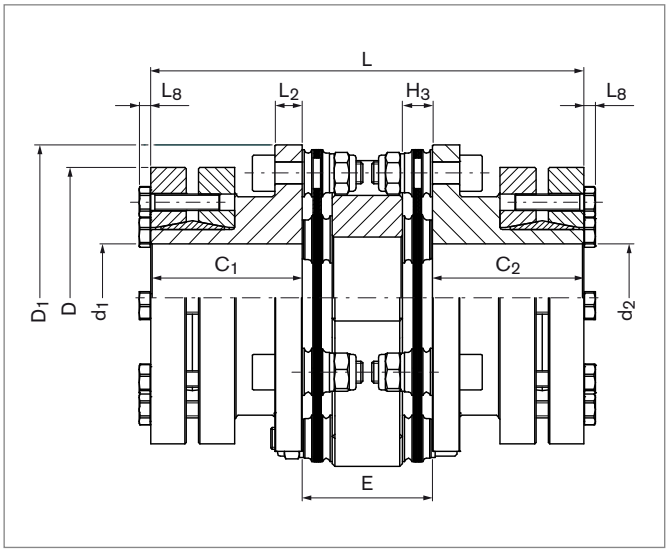
Steel Disc Couplings

RINGFEDER® TND QCQ

Hubs with Open Flange and RINGFEDER® Shrink Discs, Double-Jointed, with Compact-Spacer, Shaft-Hub Connection by Shrink Disc





Size	T_{KN}HD [1]	T_{KN}HT [1]	n_{max}	$d_1;d_2$ [3] min	$d_1;d_2$ [3] max	C_1 / C_2	E	H_3	D_1	L_2	L	n_{Sc}	L_8
QCQ	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	Quantity	mm
82	750	1050	3600	38	65	55	46,5	10,5	116	10	156,5	6	5,3
98	1350	1750	3600	50	70	60	55	12	140,5	11	175	6	5,3

Size				Max. Permissible Misalignment [7]					
				axial		angular		radial	
	Gw_{sp}	C_{TdynHD}	C_{TdynHT}	ΔK_aHD	ΔK_aHT	ΔK_wHD	ΔK_wHT	ΔK_rHD	ΔK_rHT
QCQ	kg	10^6 Nm/rad	10^6 Nm/rad	mm	mm	Degrees	Degrees	mm	mm
82	1,8	0,309	0,360	1,4	0,6	2	1,4	0,5	0,4
98	2,9	0,569	0,607	2	1	2	1,4	0,7	0,5

1) When selecting the coupling size, it is essential to observe the instructions on coupling dimensioning in the document "Product Paper & Tech Paper RINGFEDER® Steel Disc Couplings". Short-term peak torque T_{kmax} is limited to 1.75 multiples of T_{KN} or by the transmissible torque T of the shrink disc.

3) Bore tolerance H6 up to diameter 80 mm; Bore tolerance H7 from diameter 80 mm.

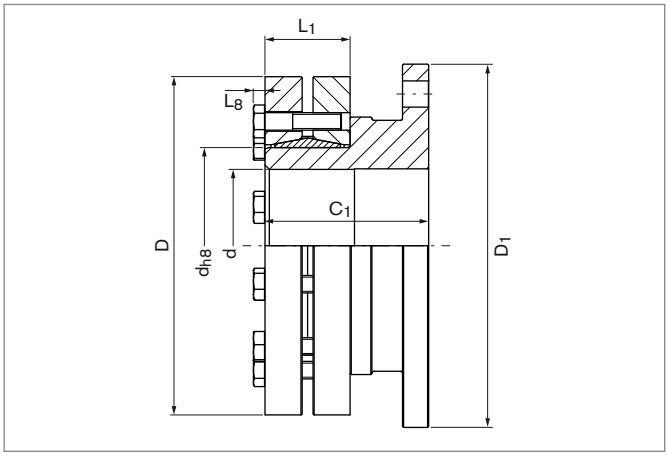
7) The maximum misalignment values must not apply simultaneously. The instructions on coupling dimensioning in the document "Product Paper & Tech Paper RINGFEDER® Steel Disc Couplings" are to be observed.

To continue see next page

Steel Disc Couplings RINGFEDER® TND QCQ

Shaft-Hub Connection by Shrink Discs RINGFEDER® RfN 4061





Shrink Discs RINGFEDER® RfN 4061						Sizing RINGFEDER® TND QCQ						
d_{h8}	x	D	L_1	L_8	d	T	Size	D_1	C_1 / C_2	$T_{KN}HD$ [1]	$T_{KN}HT$ [1]	n_{max}	Gw_{hs}
mm			mm	mm	mm	Nm	QCQ	mm	mm	Nm	Nm	1/min	kg
50	x	90	27,5	4	38	1350	82	116	55	750	1050	3600	2,2
					40	1500							
					42	1700							
55	x	100	30,5	4	42	1300	82	116	55	750	1050	3600	2,3
					45	1550							
					48	1800							
68	x	115	30,5	4	48	1700	82	116	55	750	1050	3600	2,7
					55	2250	98	140,5	60	1350	1750	3600	3,4
					60	2850							
75	x	138	32,5	5,3	55	2650	98	140,5	60	1350	1750	3600	4,2
					60	3300							
					65	4050							
80	x	145	32,5	5,3	60	3200	98	140,5	60	1350	1750	3600	4,4
					65	3900							
					70	4600							

The transmissible torque of the coupling is dependent on the selected disc pack as well as the type of the shaft-hub connection.
The lower torque limits the transmissibility and must be taken as a basis for the selection of the coupling.

To continue see next page

Steel Disc Couplings RINGFEDER® TND QCQ

Explanations

$T_{KN}HD$ = Nom. transmissible torque with disc pack HD

$T_{KN}HT$ = Nom. transmissible torque with disc pack HT

n_{max} = Max. rotational speed

d_{1min} = Min. bore diameter d_1

d_{2min} = Min. bore diameter d_2

d_{1max} = Max. bore diameter d_1

d_{2max} = Max. bore diameter d_2

C_1 = Guided length in hub bore

C_2 = Guided length in hub bore

E = Distance between hubs

H_3 = Width of the disc pack

D_1 = Max. outer diameter

L_2 = Hub flange thickness

L = Total length

n_{Sc} = Quantity of screws

L_8 = Overhang length

Gw_{sp} = Weight of spacer

Gw_{hs} = Weight of hub including shrink disc

$C_{Tdyn}HD$ = Dynamic torsional stiffness with disc pack HD

$C_{Tdyn}HT$ = Dynamic torsional stiffness with disc pack HT

ΔK_aHD = Max. permissible axial misalignment with disc pack HD

ΔK_aHT = Max. permissible axial misalignment with disc pack HT

ΔK_wHD = Max. permissible angular misalignment with disc pack HD

ΔK_wHT = Max. permissible angular misalignment with disc pack HT

ΔK_rHD = Max. permissible radial misalignment with disc pack HD

ΔK_rHT = Max. permissible radial misalignment with disc pack HT

Shrink Disc Selection

d_{h8} = Inner diameter

D = Outer diameter

L_1 = Min. installation length (without screws)

L_8 = Overhang length

d = Solid shaft diameter

T = Transmissible torque

Ordering example

Type	Size	Disc pack	Bore diameter d_1	Shrink Disc RfN 4061 for bore diameter d_1	Bore diameter d_2	Shrink Disc RfN 4061 for bore diameter d_2
TND QCQ	98	HD	50	68 x 115	60	68 x 115

Further information on
RINGFEDER® TND QCQ
on **www.ringfeder.com**

Technical Information

- The specified values for transmissible torques are valid as follows: Shaft tolerance h6 for shaft diameters up to 50 mm; Shaft tolerance g6 for shaft diameters from 50 mm; Surface quality $R_a \leq 3.2$ µm.
- From a peripheral speed of 30 m/s, separate balancing of the individual coupling parts is recommended.
- Without further instructions on balancing, the coupling parts are balanced individually according to DIN 21940-11 in quality G 6,3 at 1,500 1/min. The hubs and the spacer are balanced without screwed-on disc packs.

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 to carry out modifications at any time in the interests of technical progress.

RINGFEDER POWER TRANSMISSION