



Racing Clutch System

motorsport



RCS 200

You have found a perfect clutch to handle the hard demands of modern day motorsports. The specialised shot peened housing excellently fuses robustness and reliability into one, whilst maintaining the competitive character with its conducive mass and inertia properties. Keeping this in mind and knowing that it is used in race winning drivetrains, it further provides high thermal stability making it fit for off-track races absorbing unexpected misuse events. On top of that the modulation comfort will leave you with all desires fulfilled.

Designed and developed for:

- Rally
- Circuit racing
- Touring cars

Advantages:

Lightweight design, low release force, low mass and inertia.

Clutch	Torque Range	Number of Discs	Facing	Friction Lining	Actuation	Flywheel Type
RCS 200-S2.6-D-S-XX	1,665 ... 2,497 Nm	2 / 3	S2.6	Sinter	Push Type	Step (internal spigot)
RCS 200-S7.8-D-S-XX	832 ... 1,665 Nm	1 / 2	S7.8	Sinter	Push Type	Step (internal spigot)
RCS 200-O7.8-D-S-XX	561 ... 1,122 Nm	1 / 2	O	Organic	Push Type	Step (internal spigot)

Key Dimensions



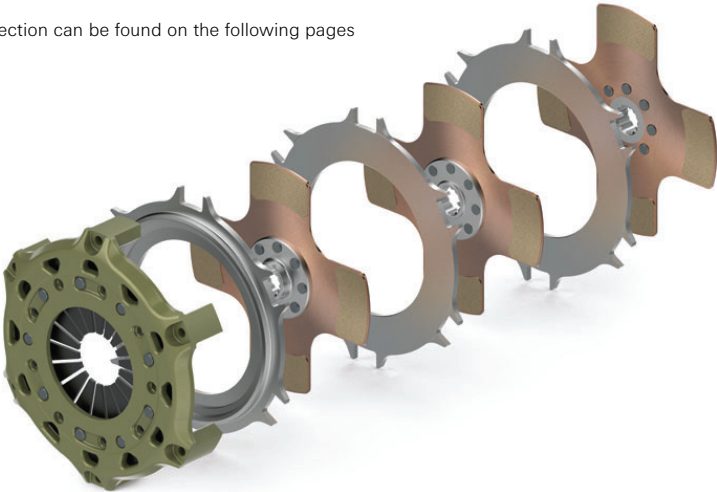
- Select the suitable hub configuration
- The order number of the driven discs is defined with the ZF Code / spline size application
- A configuration example can be found on pages V15 & V16

Technical Specifications

Selection Criteria			Technical Specification					Purchase Order Number				
Clutch Torque	Release ØA	Spring inner ØB	Release Force max.	Wear Range	Release Travel X	Wear Travel Y	Mass	Inertia	Housing	Pressure Plate	Intermediate Plate	Driven Disc*
[Nm]	[mm]	[mm]	[N]	[mm]	[mm]	[mm]	[kg]	[kgm2]	Part Number	Part number	Qty.	Qty.
2-Disc Clutch												
1,665	49	46	3,700	1.5	5.0 +0.5	5.0	4.02	0.02586	003072000421	003002001173	1	2
3-Disc Clutch												
2,497	49	46	3,700	1.5	5.0 +0.5	5.0	5.28	0.03398	003072000420	003002001365	2	3

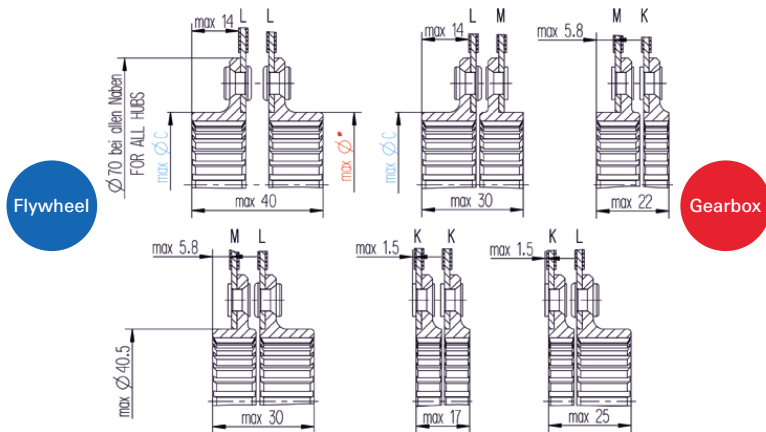
More clutch torque without safety margin!

*) The order number for driven discs, according to the required hub spline configuration and spline selection can be found on the following pages

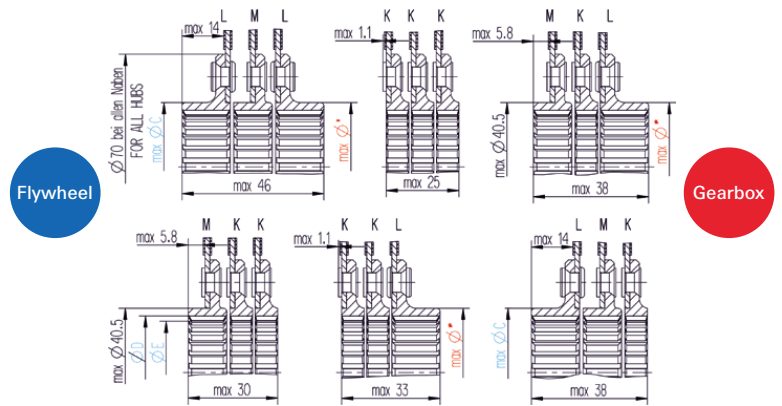


Hub Configuration RCS 200-S2.6

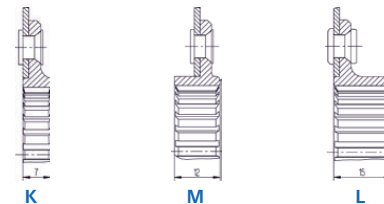
2-Disc Clutch



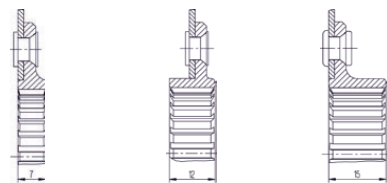
3-Disc Clutch



Driven Disc Selection according to Hub Type RCS 200-S2.6



ZF Code	Spline Basic	Spline Inch	No. of Teeth	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	K	M	L
002	1 SAE 10C	1" x 10T	10	30.5	25.8	20.6	881864003031	881864001405	R88186499A098
003	1 1/8 SAE 10C	1.12" x 10T	10	34.5	28.9	23.4	881864003032	881864001406	R88186499B098
010	A10 x 16 x 20		10	26.5	20.0	16.0	881864003033	881864002055	881864002051
013	A10 x 23 x 29	29mm x 10T	10	34.5	29.0	23.0	881864003034	R88186499C099	R88186499C098
016	A10 x 28 x 35	1.25" x 10T	10	40.5	35.0	28	881864003035	R88186499W099	R881864001404
035	24 x 2.5	0.8" x 24T	24	25.5	20.4	18.27	881864003036	R88186499D099	R88186499D098
038	25 x 22	1" x 14T	14	32.5	25.0	22.0	881864003037	881864001407	R88186499E098
045	24/48-20-30°	0.875" x 20T	20	28.5	22.58	20.109	881864003038	R88186499F099	R88186499F098
047	24/48-23-30°	1" x 23T	23	32.5	25.994	22.995	881864003039	R88186499G099	R00184899G098
065	32/64-20-30°	17.3mm x 20T	20	24.5	17.305	15.08	881864003040	881864002056	881864002052
075	25 x 23	25mm x 24T	24	32.5	25.0	23.0	881864003041	R88186499H099	R88186499H098
076	24/48-22-30°		22	30.5	25.189	22.225	881864003042	881864001414	R88186499U098
081	20x18°		18	26.5	20.0	18.0	881864003043	881864001317	881864001309
091	24/48-23-30°		23	32.5	26.25	23.28	881864003044	R88186499I099	R88186499I098
092	23 x 3.14		23	30.5	24.2	21.8	881864003045	R88186499K099	R88186499K098
094	24/48-17-30°	20mm x 17T	17	25.5	19.9	16.92	881864003046	881864001408	881864001402
522	NA	26mm x 24T	24	32.5	26.0	24.0	881864003047	881864001318	881864001310
532	24/48-26-30°-5		26	34.5	29.55	26.5	881864003048	881864001319	R881864001311
575	N24T-1-30°	1" x 24T	24	32.5	25.6	23.1	881864003049	881864001320	881864001312

ZF Code	Spline Basic	Spline Inch	No. of Teeth	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]			
							K	M	L
802	25,2-1-30-24		24	32.5	25.2	22.6	881864003050	881864001321	881864001313
804	26x3.93		26	40.5	35.2	32.6	881864003051	881864001322	881864001314
808	24/48-25-30°		25	36.5	28.5	25.4	881864003052	881864002057	881864002053
812	24/48-28-30°		28	34.5	30.5	28.1	881864003053	881864000912	881864000913
820	22x3.93		22	34.5	29.0	26.5	881864003054	881864001323	881864001315
823	24/48-26-30°		26	34.5	28.68	23.83	881864003055	881864002058	881864002054
906	24/48-25-30°		25	34.5	28.04	24.87	881864003056	881864001324	R88186499Y098
916	24/48-21-37.5°		21	30.5	24.308	21.387	881864003057	881864001409	R88186499M098
924	18.65 x 15.7		14	28.5	18.65	15.7	881864003058	881864001410	R88186499N098
926	20/40-21-30°		21	34.5	28.5	25.4	881864003059	R88186499Q099	R88186499Q098
927	24/48-21-30°	0.92" x 21T	21	28.5	23.75	21.19	881864003060	881864001411	881864001403
931	24/48-26-30°	1.16" x 26T	26	34.5	28.68	26.49	881864003061	R88186499Q099	R88186499Q098
935	24/48-18-37.5°		18	26.5	21.01	18.22	881864003062	881864001415	R88186499V098
938	28 x 2.36		28	28.5	22.1	20.3	881864003063	881864001412	R88186499S098
962	21.8 x 1 x 20		20	28.5	21.8	19.12	881864003064	881864001325	881864001316
980	32/64-26-37.5°		26	28.5	21.91	20.0	881864003065	881864001413	R88186499T098

The customer is required to check the chosen configuration and that it can be assembled clash free.

*) All red labelled driven discs are not compatible to be used as the first disc on the gearbox / diaphragm spring side with a release diameter of 38 mm or 44 mm respectively.