Racing Clutch System

motorsport

RCS 184

If you are looking for a clutch that can easily cope with the harsh demands of modern day motorsports, then you have found what you are looking for. This motorsports clutch is an excellent synthesis of robustness and reliability whilst maintaining its competitive character, due to its favourable mass and inertia properties. Keeping this in mind and knowing that it is used in race winning drivetrains, it additionally provides high thermal stability making it fit for off-track race applications, absorbing the unexpected misuse events.

Designed and developed for:

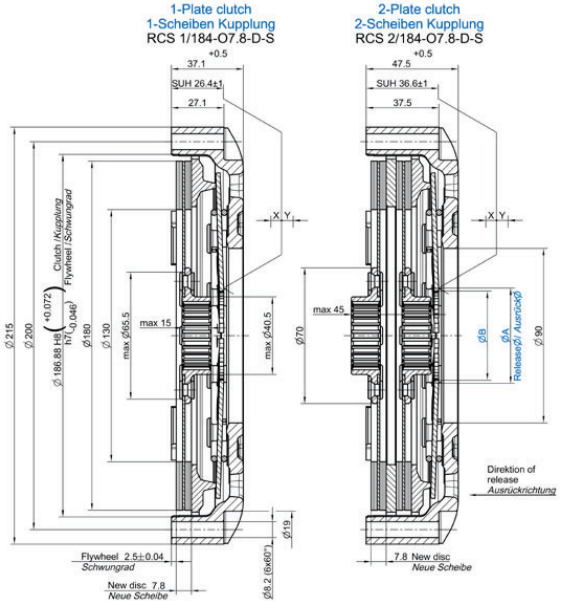
- Rally
- Circuit racing
- Touring cars

Advantages:

Two spring loads available. Two release diameters. Protection plates for housing increases wear resistance.

RCS 184-O7.8-D-S-XX

Key Dimensions



Selection of driven disc order number:

- 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 [Nm]	Release ØA [mm]	Spring inner ØB [mm]	Release Force max. [N]	Wear Range [mm]	Release Travel X [mm]	Wear Travel Y [mm]	Mass [kg]	Inertia [kgm2]	Housing Part Number	Pressure Plate Part number	Intermediate Plate 003019000336 Qty.	Driven Disc* Qty.
1-Disc Clutch												
260	49	46	2,400	1.5	5.0 +0.5	5.0	2.27	0.013294	003072000483	003002001898	0	1
441	49	46	4,300	1.5	5.0 +0.5	5.0	2.32	0.013549	003072000478	003002001898	0	1
441	44	37	3,900	1.5	5.0 +0.5	5.0	2.34	0.013552	003072000487	003002001898	0	1
2-Disc Clutch												
519	49	46	2,400	1.5	5.0 +0.5	5.0	3.34	0.019597	003072000484	003002001897	1	2
883	49	46	4,300	1.5	5.0 +0.5	5.0	3.39	0.019852	003072000479	003002001897	1	2
883	44	37	3,900	1.5	5.0 +0.5	5.0	3.41	0.019855	003072000494	003002001897	1	2

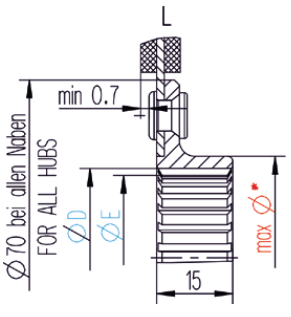
More clutch torque without safety margin!

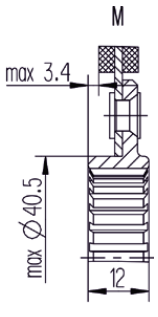
*) The order number for driven discs, according to the required hub spline configuration and spline selection can be found on the following pages

Hub Configuration
RCS 184-07.8

1-Disc Clutch

Flywheel

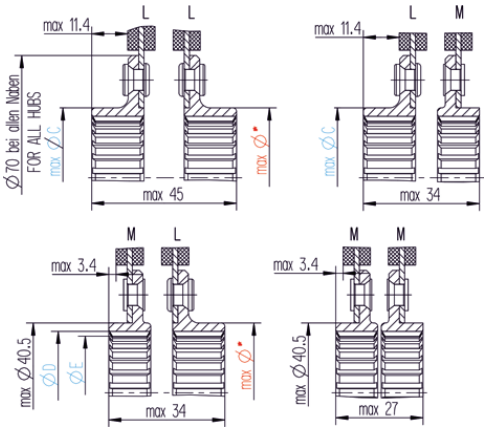




Gearbox

2-Disc Clutch

Flywheel



Gearbox

Driven Disc Selection according to Hub Type
RCS 184-07.8

ZF Code	Spline Basic	Spline Inch	No. of Teeth	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	M	L
002	1 SAE 10C	1" x 10T	10	30.5	25.8	20.6	881864002012	R88186499A088
003	1 1/8 SAE 10C	1.12" x 10T	10	34.5	28.9	23.4	881864002013	R88186499B088
010	A10 x 16 x 20		10	26.5	20.0	16.0	881864002043	881864002007
013	A10 x 23 x 29	29mm x 10T	10	34.5	29.0	23.0	881864002014	R88186499C088
016	A10 x 28 x 35	1.25" x 10T	10	40.5	35.0	28	881864002032	881864001381
035	24 x 2.5	0.8" x 24T	24	25.5	20.4	18.27	881864002015	R88186499D088
038	25 x 22	1" x 14T	14	32.5	25.0	22.0	881864002016	R88186499E088
045	24/48-20-30°	0.875" x 20T	20	28.5	22.58	20.109	881864002017	R88186499F088
047	24/48-23-30°	1" x 23T	23	32.5	25.994	22.995	881864002018	R88186499G088
065	32/64-20-30°	17.3mm x 20T	20	24.5	17.305	15.08	881864002044	881864002008
075	25 x 23	25mm x 24T	24	32.5	25.0	23.0	881864002019	R88186499H088
076	24/48-22-30°		22	30.5	25.189	22.225	881864002030	R88186499U088
081	20x18°		18	26.5	20.0	18.0	881864002035	881864001277
091	24/48-23-30°		23	32.5	26.25	23.28	881864002020	R88186499I088
092	23 x 3.14		23	30.5	24.2	21.8	881864002021	R88186499K088
094	24/48-17-30°	20mm x 17T	17	25.5	19.9	16.92	881864002022	R88186499L088
522	NA	26mm x 24T	24	32.5	26.0	24.0	881864002036	881864001278
532	24/48-26-30°-5		26	34.5	29.55	26.5	881864002042	881864002006
575	N24T-1-30°	1" x 24T	24	32.5	25.6	23.1	881864002037	881864001279

ZF Code	Spline Basic	Spline Inch	No. of Teeth	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	M	L
802	25,2-1-30-24		24	32.5	25.2	22.6	881864002038	881864001280
804	26x3.93		26	40.5	35.2	32.6	881864002039	881864001281
808	24/48-25-30°		25	36.5	28.5	25.4	881864002045	881864002009
812	24/48-28-30°		28	34.5	30.5	28.1	881864002040	881864001282
820	22x3.93		22	34.5	29.0	26.5	881864002034	881864000909
823	24/48-26-30°		26	34.5	28.68	23.83	881864002046	881864002010
906	24/48-25-30°		25	34.5	28.04	24.87	881864002033	R88186499Y088
916	24/48-21-37.5°		21	30.5	24.308	21.387	881864002023	R88186499M088
924	18.65 x 15.7		14	28.5	18.65	15.7	881864002024	R88186499N088
926	20/40-21-30°		21	34.5	28.5	25.4	881864002025	R88186499O088
927	24/48-21-30°	0.92″ x 21T	21	28.5	23.75	21.19	881864002026	881864001378
931	24/48-26-30°	1.16″ x 26T	26	34.5	28.68	26.49	881864002027	881864001379
935	24/48-18-37.5°		18	26.5	21.01	18.22	881864002031	R88186499V088
938	28 x 2.36		28	28.5	22.1	20.3	881864002028	R88186499S088
962	21.8 x 1 x 20		20	28.5	21.8	19.12	881864002041	881864001283
980	32/64-26-37.5°		26	28.5	21.91	20.0	881864002029	881864001380

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.