



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:

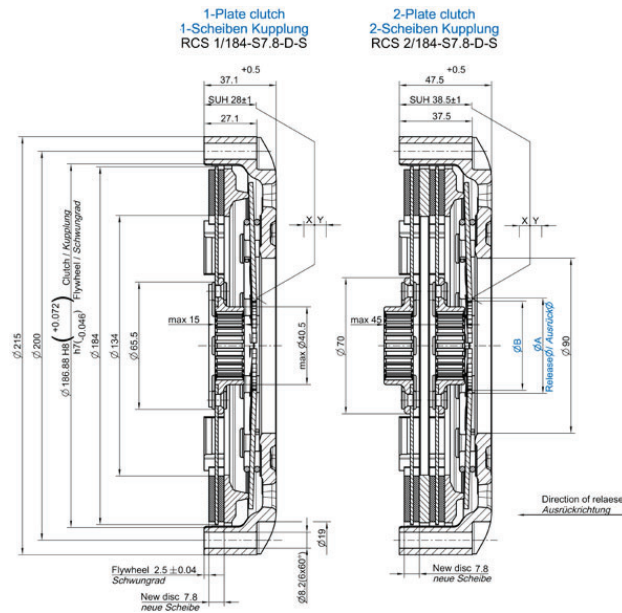
- Rally
- Circuit racing
- Touring cars

Advantages:

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

RCS 184-S7.8-D-S-XX

Key Dimensions



Selection of driven disc order number:

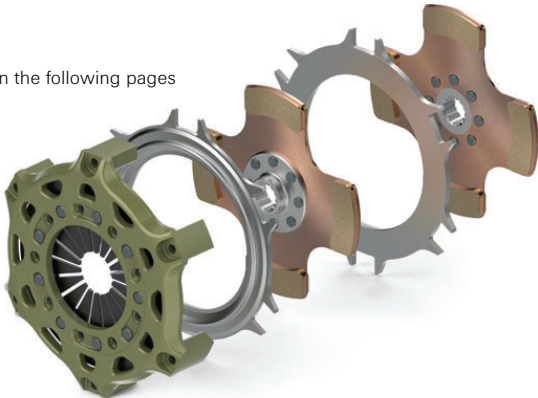
- Select the suitable hub configuration
- The order number of the driven discs is defined with the ZF Code / spline size application
- A configuration example can be found on pages V15 & V16

Technical Specifications

Selection Criteria			Technical Specification					Purchase Order Number				
Clutch Torque	Release ØA	Spring inner ØB	Release Force max.	Wear Range	Release Travel X	Wear Travel Y	Mass	Inertia	Housing	Pressure Plate	Intermediate Plate 003019000336	Driven Disc*
[Nm]	[mm]	[mm]	[N]	[mm]	[mm]	[mm]	[kg]	[kgm2]	Part Number	Part number	Qty.	Qty.
1-Disc Clutch												
385	49	46	2,400	1.5	5.0 +0.5	5.0	2.32	0.013294	003072000483	003002001898	0	1
654	49	46	4,300	1.5	5.0 +0.5	5.0	2.37	0.013549	003072000478	003002001898	0	1
654	44	37	3,900	1.5	5.0 +0.5	5.0	2.39	0.013552	003072000487	003002001898	0	1
2-Disc Clutch												
796	49	46	2,400	1.5	5.0 +0.5	5.0	3.44	0.019597	003072000484	003002001897	1	2
1,308	49	46	4,300	1.5	5.0 +0.5	5.0	3.49	0.019852	003072000479	003002001897	1	2
1,308	44	37	3,900	1.5	5.0 +0.5	5.0	3.50	0.019855	003072000494	003002001897	1	2

More clutch torque without safety margin!

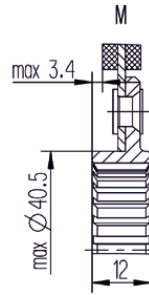
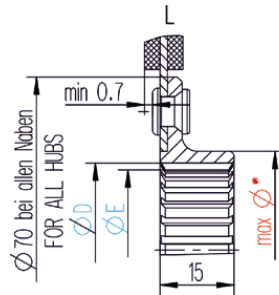
*) The order number for driven discs, according to the required hub spline configuration and spline selection can be found on the following pages



Hub Configuration RCS 184-S7.8

1-Disc Clutch

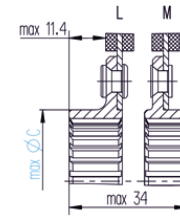
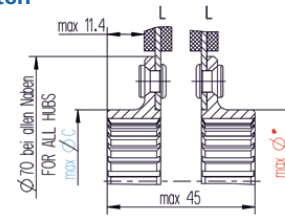
Flywheel



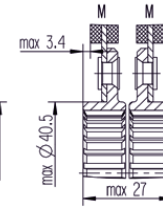
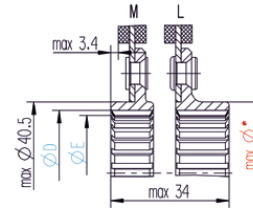
Gearbox

2-Disc Clutch

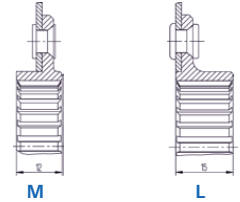
Flywheel



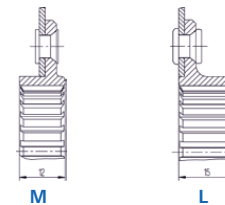
Gearbox



Driven Disc Selection according to Hub Type RCS 184-S7.8



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	881864000687	881864002239
003	1 1/8 SAE 10C	1.12" x 10T	10	34.5	28.9	23.4	881864000688	881864002240
010	A10 x 16 x 20		10	26.5	20.0	16.0	881864001997	881864002241
013	A10 x 23 x 29	29mm x 10T	10	34.5	29.0	23.0	881864000689	881864002242
016	A10 x 28 x 35	1.25" x 10T	10	40.5	35.0	28	881864000707	881864002243
035	24 x 2.5	0.8" x 24T	24	25.5	20.4	18.27	881864000690	881864002244
038	25 x 22	1" x 14T	14	32.5	25.0	22.0	881864000691	881864002245
045	24/48-20-30°	0.875" x 20T	20	28.5	22.58	20.109	881864000692	881864002246
047	24/48-23-30°	1" x 23T	23	32.5	25.994	22.995	881864000693	881864002247
065	32/64-20-30°	17.3mm x 20T	20	24.5	17.305	15.08	881864001998	881864002248
075	25 x 23	25mm x 24T	24	32.5	25.0	23.0	881864000694	881864002249
076	24/48-22-30°		22	30.5	25.189	22.225	881864000705	881864002250
081	20x18°		18	26.5	20.0	18.0	881864001991	881864002251
091	24/48-23-30°		23	32.5	26.25	23.28	881864000695	881864002252
092	23 x 3.14		23	30.5	24.2	21.8	881864000696	881864002253
094	24/48-17-30°	20mm x 17T	17	25.5	19.9	16.92	881864000697	881864002254
522	NA	26mm x 24T	24	32.5	26.0	24.0	881864001992	881864002255
532	24/48-26-30°-5		26	34.5	29.55	26.5	881864001988	881864002256
575	N24T-1-30°	1" x 24T	24	32.5	25.6	23.1	881864001993	881864002257



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	881864001994	881864002258
804	26x3.93		26	40.5	35.2	32.6	881864001990	881864002259
808	24/48-25-30°		25	36.5	28.5	25.4	881864001999	881864002260
812	24/48-28-30°		28	34.5	30.5	28.1	881864001989	881864002261
820	22x3.93		22	34.5	29.0	26.5	881864001995	881864002262
823	24/48-26-30°		26	34.5	28.68	23.83	881864002000	881864002263
906	24/48-25-30°		25	34.5	28.04	24.87	881864000709	881864002264
916	24/48-21-37.5°		21	30.5	24.308	21.387	881864000698	881864002265
924	18.65 x 15.7		14	28.5	18.65	15.7	881864000699	881864002266
926	20/40-21-30°		21	34.5	28.5	25.4	881864000700	881864002267
927	24/48-21-30°	0.92" x 21T	21	28.5	23.75	21.19	881864000701	881864002268
931	24/48-26-30°	1.16" x 26T	26	34.5	28.68	26.49	881864000702	881864002269
935	24/48-18-37.5°		18	26.5	21.01	18.22	881864000706	881864002270
938	28 x 2.36		28	28.5	22.1	20.3	881864000703	881864002271
962	21.8 x 1 x 20		20	28.5	21.8	19.12	881864001996	881864002272
980	32/64-26-37.5°		26	28.5	21.91	20.0	881864000704	881864002273

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.