



Racing Clutch System

motorsport



RCS 140

The forged high-strength aluminium housing is the result of brilliant engineering, delivering a motorsport clutch that efficiently fulfils all your performance requirements. The housing design integrates heat ventilation supporting the high-performance friction stack and thus ideal for a wide range of applications. The star in our clutch program is equipped with an extremely wear resistant state of the art patented aluminium coating, providing high mileage capabilities. At the same time it contributes significantly favourable to your race car, in terms of mass and inertia, making it an extremely competitive drivetrain component.

Designed and developed for:

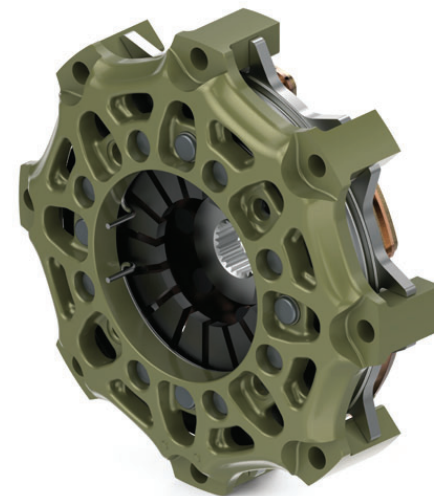
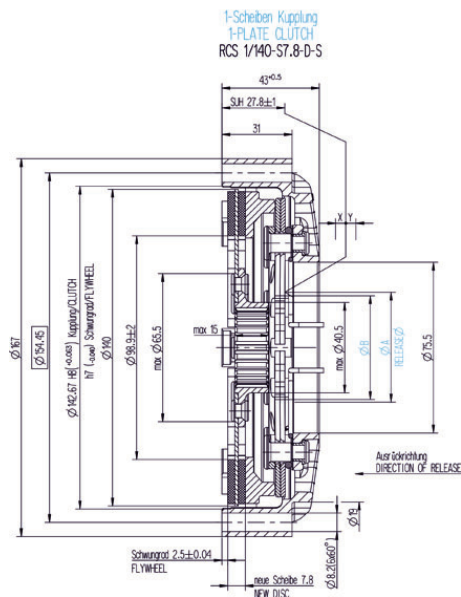
- Circuit racing
- Formula cars
- Touring cars
- Prototypes

Advantages:

A wide range of spring loads available.
Proven and tested in all motorsport classes.
Convertible to carbon/carbon and carbon/
sinter.

RCS 140-7.8-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 003019000224	Driven Disc*
[Nm]	[mm]	[mm]	[N]	[mm]	[mm]	[mm]	[kg]	[kgm2]	Part Number	Part number	Qty.	Qty.
1-Disc Clutch												
480	49	46	4,900	1.5	4.0 +0.5	4.5	1.77	0.005711	003072000289	003002001470	0	1
480	38	34	4,200	1.5	4.5 +0.5	5.0	1.82	0.005786	003072000296	003002001470	0	1

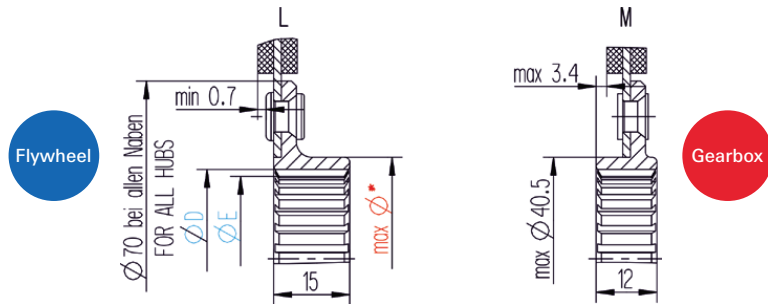
More clutch torque without safety margin!

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

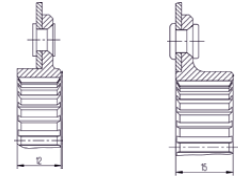


Hub Configuration RCS 140-S7.8

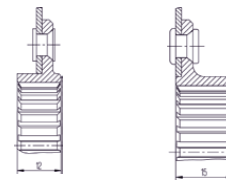
1-Disc Clutch



Driven Disc Selection according to Hub Type RCS 140-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	881864002175	881864002179
003	1 1/8 SAE 10C	1.12" x 10T	10	34.5	28.9	23.4	881864002176	881864002180
010	A10 x 16 x 20		10	26.5	20.0	16.0	881864002209	881864002502
013	A10 x 23 x 29	29mm x 10T	10	34.5	29.0	23.0	881864001790	881864002181
016	A10 x 28 x 35	1.25" x 10T	10	40.5	35.0	28	881864002177	881864002184
035	24 x 2.5	0.8" x 24T	24	25.5	20.4	18.27	881864002186	881864002213
038	25 x 22	1" x 14T	14	32.5	25.0	22.0	881864002187	881864002214
045	24/48-20-30°	0.875" x 20T	20	28.5	22.58	20.109	881864001789	881864002215
047	24/48-23-30°	1" x 23T	23	32.5	25.994	22.995	881864002188	881864002216
065	32/64-20-30°	17.3mm x 20T	20	24.5	17.305	15.08	881864002210	881864002503
075	25 x 23	25mm x 24T	24	32.5	25.0	23.0	881864002189	881864002217
076	24/48-22-30°		22	30.5	25.189	22.225	881864002198	881864002226
081	20x18°		18	26.5	20.0	18.0	881864002203	881864002229
091	24/48-23-30°		23	32.5	26.25	23.28	881864001786	881864002182
092	23 x 3.14		23	30.5	24.2	21.8	881864002190	881864002218
094	24/48-17-30°	20mm x 17T	17	25.5	19.9	16.92	881864002191	881864002219
522	NA	26mm x 24T	24	32.5	26.0	24.0	881864002204	881864002230
532	24/48-26-30°-5		26	34.5	29.55	26.5	881864002200	881864002504
575	N24T-1-30°	1" x 24T	24	32.5	25.6	23.1	881864002205	881864002231



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	881864002206	881864002232
804	26x3.93		26	40.5	35.2	32.6	881864002202	881864002233
808	24/48-25-30°		25	36.5	28.5	25.4	881864002211	881864002505
812	24/48-28-30°		28	34.5	30.5	28.1	881864002201	881864002234
820	22x3.93		22	34.5	29.0	26.5	881864002207	881864002235
823	24/48-26-30°		26	34.5	28.68	23.83	881864002212	881864002506
906	24/48-25-30°		25	34.5	28.04	24.87	881864001788	881864002228
916	24/48-21-37.5°		21	30.5	24.308	21.387	881864002192	881864002220
924	18.65 x 15.7		14	28.5	18.65	15.7	881864002193	881864002221
926	20/40-21-30°		21	34.5	28.5	25.4	881864002194	881864002222
927	24/48-21-30°	0.92" x 21T	21	28.5	23.75	21.19	881864002195	881864002223
931	24/48-26-30°	1.16" x 26T	26	34.5	28.68	26.49	881864001787	881864002183
935	24/48-18-37.5°		18	26.5	21.01	18.22	881864002199	881864002227
938	28 x 2.36		28	28.5	22.1	20.3	881864002196	881864002224
962	21.8 x 1 x 20		20	28.5	21.8	19.12	881864002208	881864002236
980	32/64-26-37.5°		26	28.5	21.91	20.0	881864002197	881864002225

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.