



Racing Clutch System

motorsport



Carbon Clutches

This highly sophisticated clutch is the perfect blend of durability and performance. Designed for high-end applications it stands out with a remarkably low mass and an astonishingly favorable inertia. This makes it an excellent feature in your drivetrain regarding acceleration and elasticity. The well elaborated high strength steel or forged aluminium housing is the ideal containment for the impressive carbon/carbon stack.

Designed and developed for:

- Formula cars
- Prototypes
- Touring cars
- Circuit Racing

Advantages:

The major advantage is a much higher temperature resistance and at the same time a significant reduction in weight and inertia, when compared to a sinter-steel clutch.

On top of that the clutch life is increased significantly, compared to that of a steel sinter

clutch, by using thicker pressure rings "shims" to compensate the carbon stack wear created during use. This ensures that the driver will find the bite point at the same clutch paddle position, as though the condition were as-new.

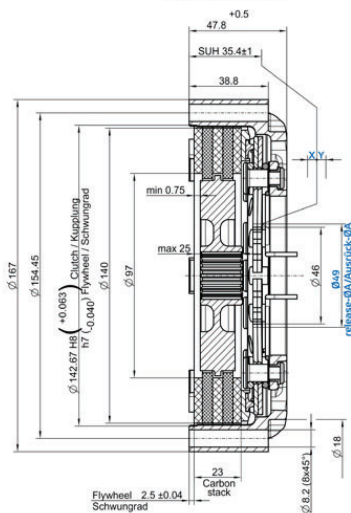
Product Range

ZF motorsport Racing Clutch System

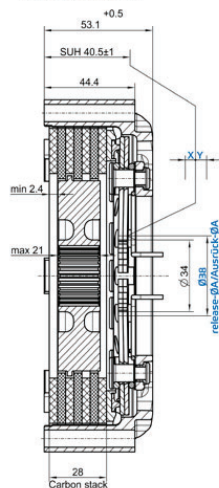
RCS 140-Y-D-S-XX

Key Dimensions

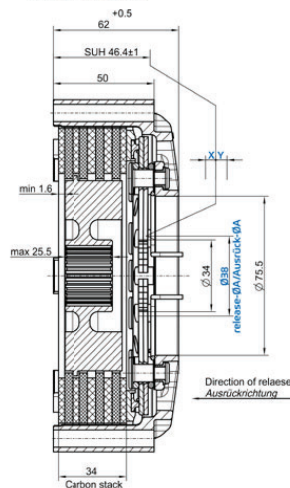
2-Plate Carbon Clutch
2-Scheiben Karbon Kupplung
RCS 2/140-Y-D-S-49



3-Plate Carbon Clutch
3-Scheiben Karbon Kupplung
RCS 3/140-Y-D-S-38



4-Plate Carbon Clutch
4-Scheiben Karbon Kupplung
RCS 4/140-Y-D-S-38



Technical Specifications

Selection Criteria		Technical Specification						Purchase Order Number	
Clutch Torque	Release ØA	Release Force worn	Release Travel X	Wear Travel Y	Mass	Inertia	Spline		Part Number
[Nm]	[mm]	[N]	[mm]	[mm]	[kg]	[kgm2]	ZF Code	Size	
2-Disc Clutch									
570	49	4,900	4.0 +0.5	4.5	1.92	0.00615	045	0.875" x 20T	883082002059
370	49	2,500	5.0 +0.5	3.2	1.69	0.00548	045	0.875" x 20T	883082001762
3-Disc Clutch									
1,000	38	4,900	4.5 +0.5	5.0	2.17	0.00684	931	1.16" x 26T	883082002052
1,000	38	4,900	4.5 +0.5	5.0	2.17	0.00684	047	1" x 23T	883082002975
1,000	38	4,900	4.5 +0.5	5.0	2.17	0.00684	890	1.25" x 29T	883082002909
4-Disc Clutch									
1,330	38	4,900	4.5 +0.5	5.0	2.44	0.00768	931	1.16" x 26T	883082001952
1,330	38	4,900	4.5 +0.5	5.0	2.44	0.00768	890	1.25" x 29T	883082002895

More clutch torque without safety margin!
Pressure rings / base plates for wear compensation and clutch maintenance can be purchased separately.

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Key Dimensions



Technical Specifications

Selection Criteria		Technical Specification						Purchase Order Number	
Clutch Torque	Release ØA	Release Force worn	Release Travel X	Wear Travel Y	Mass	Inertia	Spline		Part Number
[Nm]	[mm]	[N]	[mm]	[mm]	[kg]	[kgm2]	ZF Code	Size	
2-Disc Clutch									
570	49	4,900	4.0 +0.5	4.5	1.92	0.00615	045	0.875" x 20T	883082002058
370	49	2,500	5.0 +0.5	3.2	1.69	0.00548	045	0.875" x 20T	883082002187
3-Disc Clutch									
1,000	38	4,900	4.5 +0.5	5.3	2.17	0.00687	931	1.16" x 26T	883082002840
1,000	38	4,900	4.5 +0.5	5.3	2.17	0.00686	047	1" x 23T	883082002841
1,000	38	4,900	4.5 +0.5	5.3	2.17	0.00687	890	1.25" x 29T	883082002885
4-Disc Clutch									
1,330	38	4,800	4.5 +0.5	5.5	2.44	0.00768	931	1.16" x 26T	883082002974
1,330	38	4,800	4.5 +0.5	5.5	2.44	0.00768	890	1.25" x 29T	883082002741

More clutch torque without safety margin!
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