



# Clutch Specifications

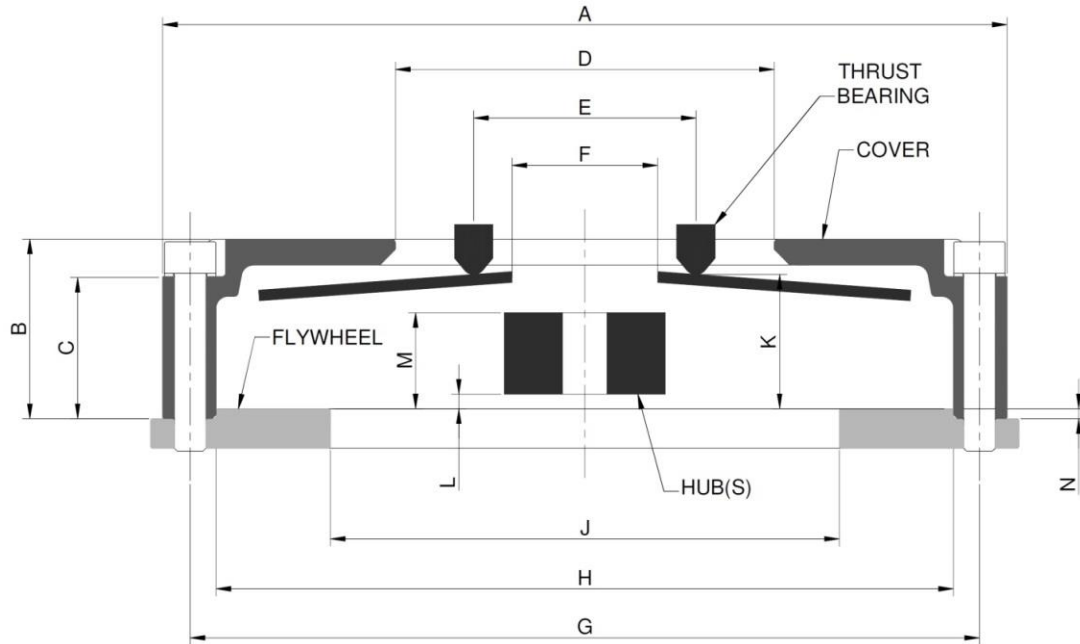
Doc Number:  
4905-01-001

Revision:  
-

Title:  
4905 Series - 184mm HDX Single Plate Race Clutch

Author:  
SRV

Effective Date:  
16/04/18



## Clutch Dimensions

Dim	Description	mm
A	Diameter of cover	214
B	Height of cover – Single/ Twin	39.5
C	Grip height – Single/ Twin	30
D	Minimum inside diameter of cover	96
E	Min/max thrust bearing fulcrum diameter	48
F	Minimum inside diameter of spring fingers	40
G	Mounting bolt/stud PCD - <b>BASIC</b>	200.025
H	Flywheel spigot diameter $\pm 0.03$	186.88
J	Flywheel inner diameter $+0/-2$	115
L	Clutch face to start of hub(s)	-
M	Clutch face to end of hub(s)	-
N	Flywheel spigot step height $\pm 0.04$	2.5

- Dimensions “L” and “M” are dependent on hub configurations selected at time of order. Please consult TTV Racing for details.

## Clutch Fastener Specifications

- Clutch should be fastened to the flywheel using 6 off M8 studs/ mechanical locking nuts or M8 Cap head screws/ safety washers.
- Fastener strength should be grade 10.9 minimum.
- Fasteners to be gradually tightened to 22Nm (16lbf) in a criss-cross pattern.

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## Clutch Performance Specifications

Clutch Type (Spring Colour)	Setup Height "K" mm		Torque Capacity Nm (lbft)	Max Release Load Kg	Spring Thickness mm
	New	Worn			
4905-03-001 (Blue)	27.5	30	324 (239)	275	2.65
4905-03-002 (Orange)	27.3	29.8	416 (307)	335	2.8
4905-03-003 (Silver)	27.2	29.7	464 (342)	390	3

- Setup heights are from flywheel friction face and based on using an Ø54mm release bearing. Heights are subject to a tolerance of ±0.5mm.
- Release loads are based on an Ø54mm release bearing. A smaller diameter bearing will reduce release loads.

## Clutch Mass and Inertias

Assembly Mass Kg	Assembly MMOI Kg.m <sup>2</sup>
2.69	0.0167

- Mass and inertias are for cover assemblies only and are estimated values.

## Release Bearing Specification

- Release bearing should be of the steel caged, round nose type. Nominal Ø50-Ø54mm diameter.
- Release bearing travel must not exceed 5.5mm and should be limited by an external stop.
- Release bearing should be free of the spring fingers when clutch is fully engaged.

## Maintenance

Type	Thickness mm		Flatness mm
	New	Worn	
Pressure Plate	16	15.8	0.1
Drive Plate	8	7.8	0.15

- Total allowable wear shall be not more than 0.8mm for the whole assembly.
- Regular inspection and maintenance of the clutch is recommended for optimum performance over the life of the clutch.
- Pressure, intermediate and drive plates should be checked for flatness and wear.

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