



Clutch Specifications

Title:
5023 Series – 240MM Cosworth YB 2WD Single
Plate Clutch

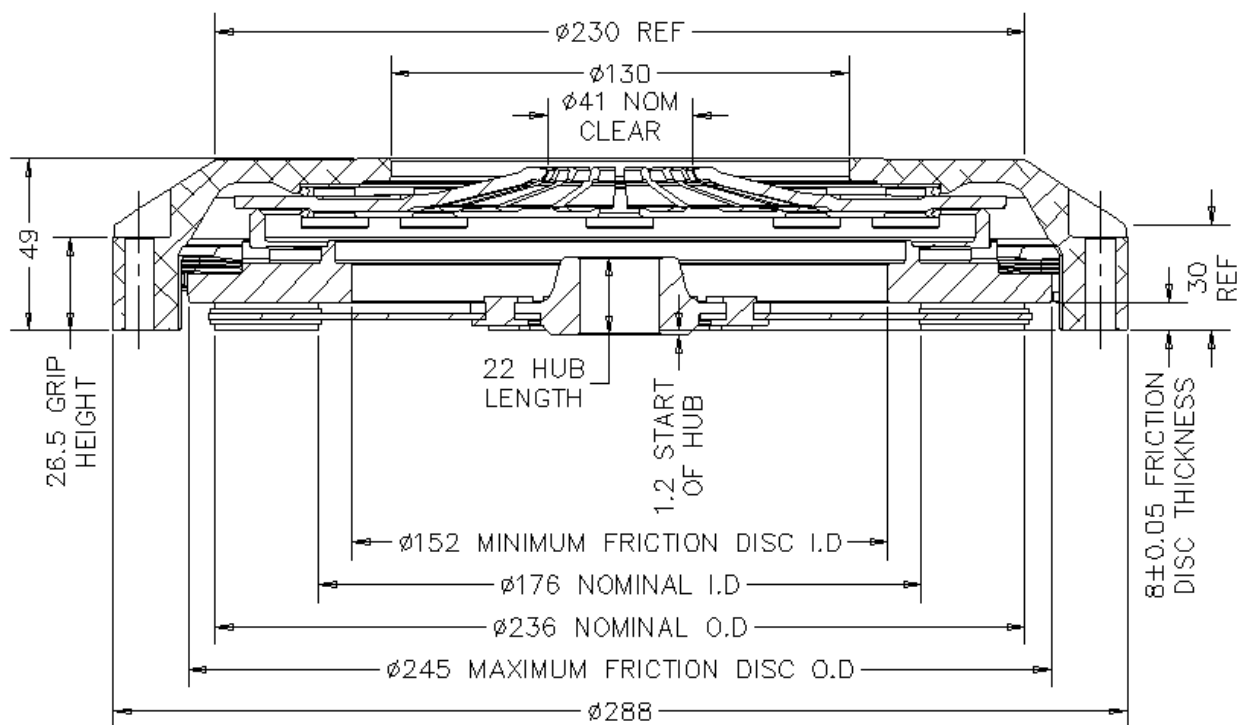
Doc Number:
5023-01-001

Author:
SRV

Revision:
-

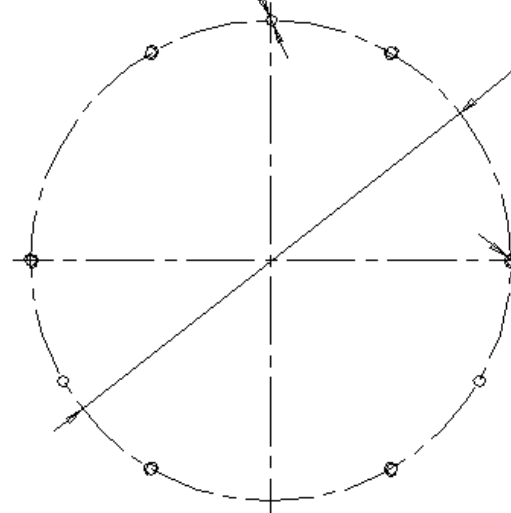
Effective Date:
02/08/18

Clutch Dimensions




3X $\varnothing 6.35$ DOWELS
EQUI SP ON PCD

$\varnothing 0.08$



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Drive Plates

Drive plates should have friction faces within the minimum and maximum friction disc diameter requirements and have a clamped thickness of $8 \pm 0.05\text{mm}$.

Clutch Performance Specifications

Clutch Type	Setup Height		Torque Capacity Cerametallic Nm (lbft)	Max Release Load Kg	Spring Thickness mm
	New	Worn			
5023-04-001	46.6	54	1008 (743)	355	3.5

- Setup heights are from flywheel friction face and based on using a nominal $\varnothing 50\text{mm}$ release bearing. Heights are subject to a tolerance of $\pm 0.5\text{mm}$.
- Release loads are based on a nominal $\varnothing 50\text{mm}$ release bearing.

Clutch Mass and Inertias

Clutch Type	Assembly Mass Kg	Assembly MMOI Kg.m^2
5023-04-001	7.0993	0.0709

- Mass and inertias are for complete assembly including cerametallic drive plate and are approximate.

Release Bearing Specification

- Release bearing should be of the steel caged, flat nose type. Nominal $\varnothing 50\text{mm}$ diameter.
- Release bearing travel must not exceed 11mm 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	8	7.8	0.1
Fulcrum Ring	-	-	0.05
Drive Plate	8	7.3	0.15

- Total allowable wear shall be no more than 0.9mm for the whole assembly.
- Regular inspection and maintenance of the clutch is recommended for optimum performance over the life of the clutch.
- Pressure and drive plates should be checked for flatness and wear.
- Excessive clutch slippage and heat build-up may cause distortion of the fulcrum ring. If the fulcrum ring is found to be deformed it must be replaced with part number 5023-03-002 in order for clutch feel to be restored.



Note. Pressure plate and fulcrum ring can be replaced with part number 5023-03-003 (single piece pressure plate) for extreme duty use.

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