

### Harrop Ultimate 6 Piston and 4 Piston Monoblock Forged Calipers



#### 6 Piston front caliper

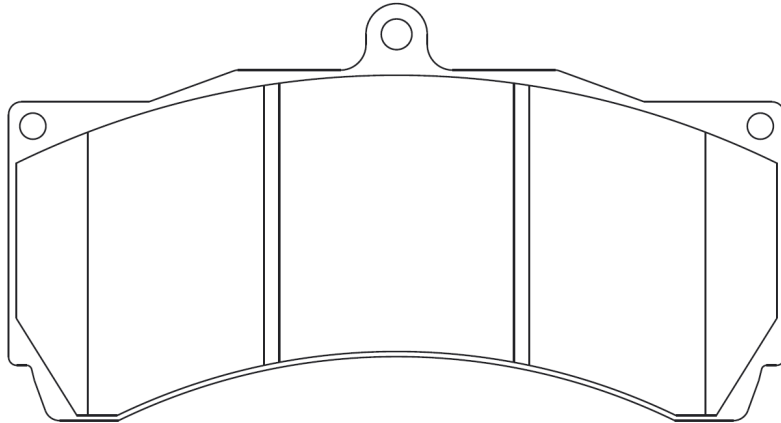
- Forged mono block design
- 6066-T6 Aluminium billet
- Aluminium pistons for light weight and better heat transfer
- Radial mount design
- Closed top bridge design for added strength
- Directional 48 vane rotor 381mm to 355mm Dia. 32.0mm wide
- Drive bobbin drive rotor attachment
- Hard anodised aluminium disc adaptors, reduced unsprung weight
- Structural aluminium caliper mounting bracket
- High grade quality fasteners

#### 4 Piston rear caliper

- Forged mono block design
- 6066-T6 Aluminium billet
- Aluminium pistons for light weight and better heat transfer
- Radial mount design
- Closed top bridge design for added strength
- Directional 36 vane rotor 355mm to 343mm Dia. 28.0mm wide
- Cast iron disc adaptor with integral factory handbrake
- Structural aluminium caliper mounting bracket
- High grade quality fasteners

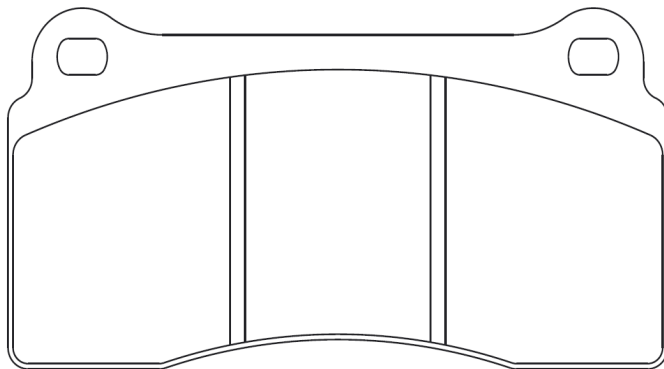
### Brake Pad Specifications

Front Pad is a FRP3003 (Ferodo) by 18mm thick available in the Ferodo DS2500 and DS Performance compounds, cross reference numbers supplied below.



CROSS REFERENCE	
ALCON	PNF4489X532.4
AP RACING	CP3894D54
BREMBO	B5118
HAWK	HB109 0,71
PAGID	1904
PFC	7790.XX.18
RAYBESTOS	DR2600 0.71
WILWOOD	8818
ENDLESS	RCP050

Rear Pad is a FCP1281 (Ferodo) by 18mm thick available in the Ferodo DS2500 and DS Performance compounds, cross reference numbers supplied below.



CROSS REFERENCE	
ALCON	PNF0084X233.4
AP RACING	780
BREMBO	07.4865.1
BREMBO	07.4865.80
BREMBO	07.8301.61
BREMBO	07.8645.16
BREMBO	07.B314B30
CL BRAKES	5008W52T18
FMSI	D810
FMSI	D968
HAWK	HB193 0.67
MINTEX	MTX1976
PAGID	1287
PFC	7780.XX.18
RAYBESTOS	DR770
RAYBESTOS	DR780
SBS	3038
WILWOOD	5518
ENDLESS	RCP077

### DS Performance

The DS Performance compound is the ideal choice for those seeking a replacement road pad which has the feel of a racing compound but the refinement of an Original Equipment material. It combines many of the characteristics found in a pure racing compound (high friction, absence of fade) but has improved cold performance, and reduced disc wear and noise.

### DS2500

#### The main characteristics of DS2500 are:

Track day & light race use for all vehicle types

Road style refinement but with race material ability to withstand heat with respect to life and  $\mu$

Average friction coefficient of 0.42 over working temperature range of 20°-500°C

### DS3000

#### The main characteristics of DS3000 are:

High performance all-round material choice

Short bedding time

Multiple applications including touring car, rally, Group N, single seat, hill-climb

Average friction coefficient 0.48 over working temperature range of 200°-650°C

### Brake noise waiver

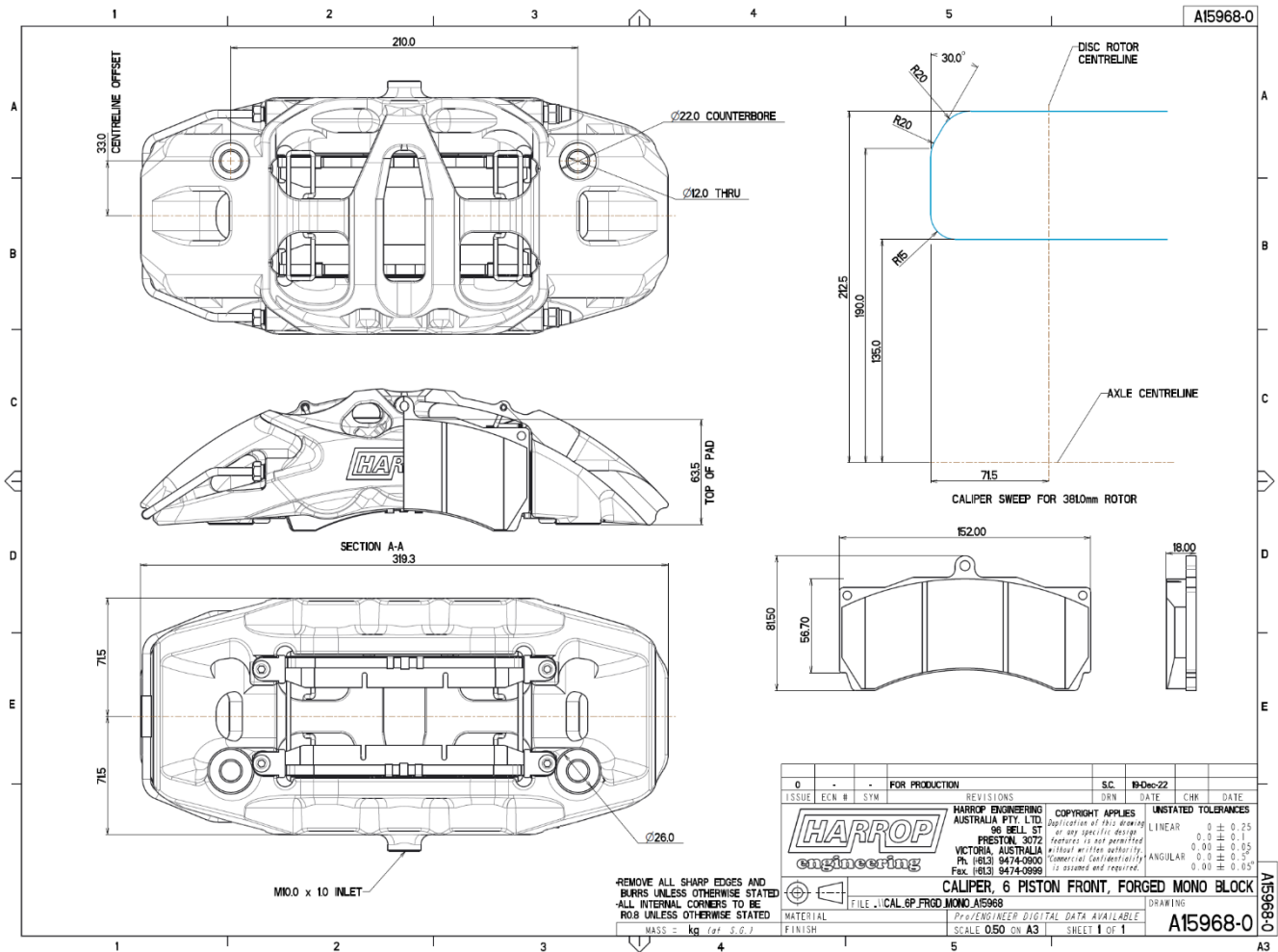
Please note that the installation of aftermarket braking components may cause additional brake noises from your vehicle which can be a characteristic trade off when fitting a performance brake system or components. Whilst this noise typically originates from the braking components, many external factors like driving application, conditions, and vehicle components such as suspension and chassis can amplify these brake noises. Whilst every effort is made to mitigate and reduce brake noise to the lowest level possible, any additional noise is classed as acceptable and does not substantiate a product fault.

# Tech Guide

## Harrop Ultimate Forged Calipers



### Front Caliper Specifications



Caliper weight with pads	3.95 Kg
Caliper weight with no pads	2.71 Kg
Piston sizes	Ø36 x Ø32 x Ø28
Total piston area 48.7cm <sup>2</sup>	48.7cm <sup>2</sup>
Piston material	Aluminium
Mounting type	Radial
Mounting centres	210.0mm
Mounting offset	33.0mm
Total pad area	79.3cm <sup>2</sup>
Pad thickness	18.0mm

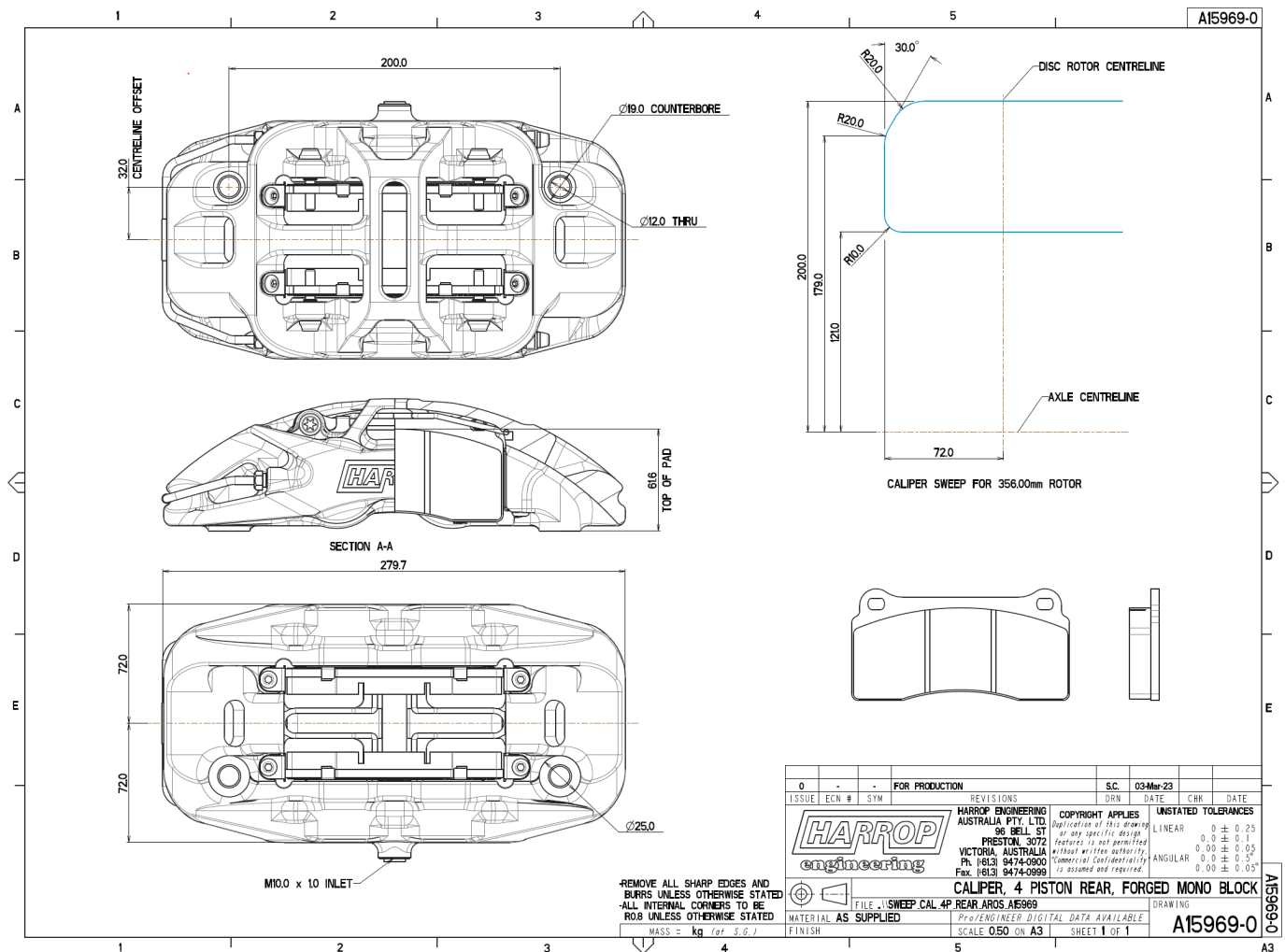
ENGINEERING PERFORMANCE SINCE 1955

# Tech Guide

## Harrop Ultimate Forged Calipers



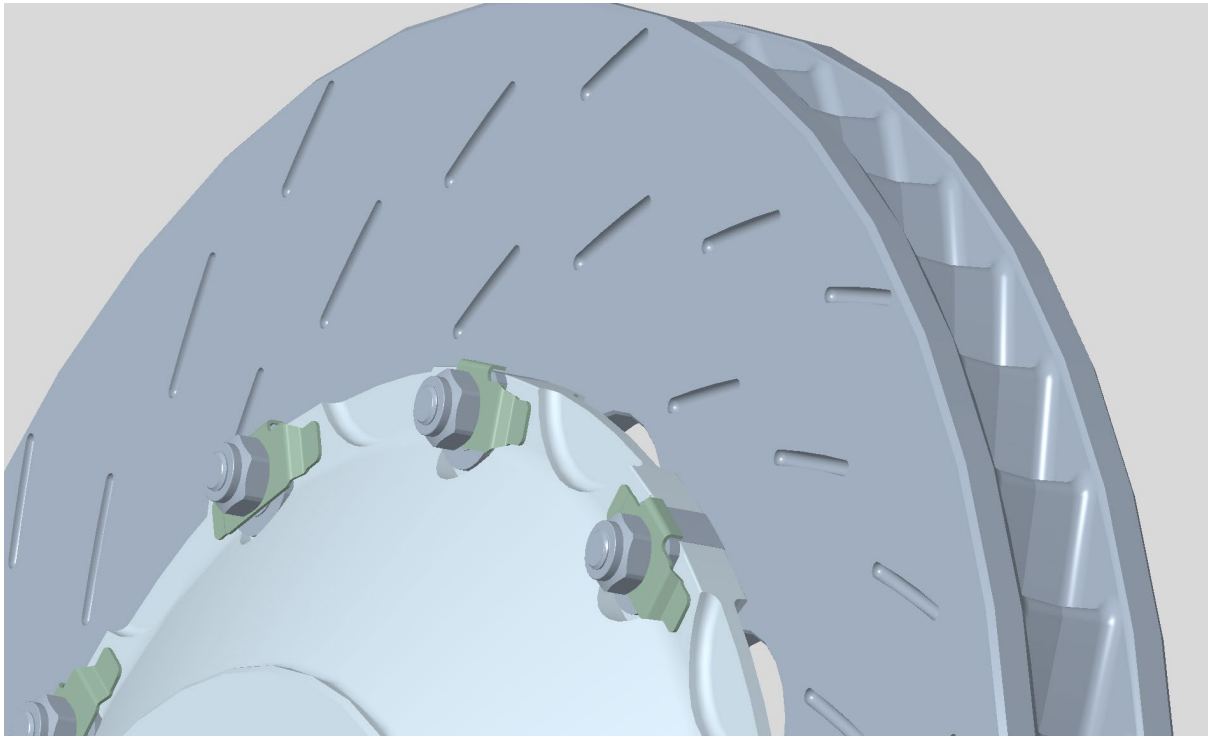
### Rear Caliper Specifications



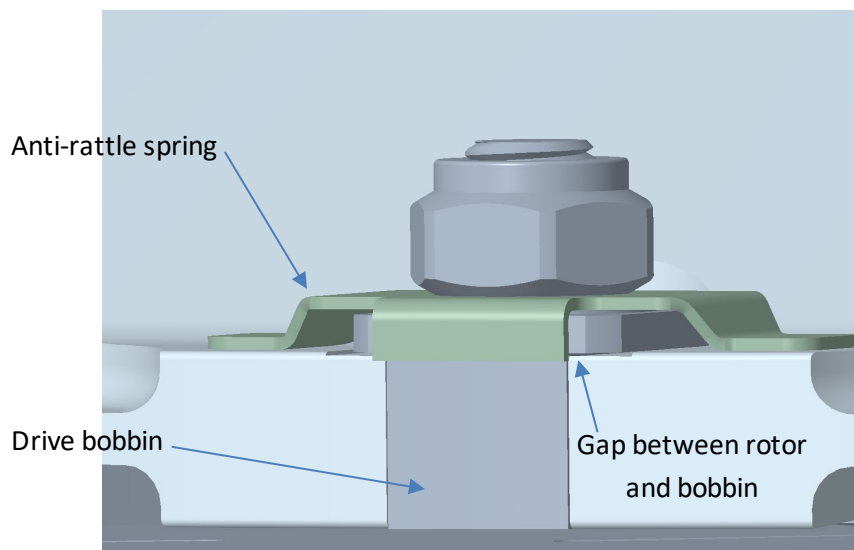
Caliper weight pads	3.62 Kg
Caliper weight no pads	2.67 Kg
Piston sizes	$\varnothing 28 \times \varnothing 28$
Total piston area	24.6cm <sup>2</sup>
Piston material	Aluminium
Mounting type	Radial
Mounting centres	220.0mm
Mounting offset	32.0mm <sup>2</sup>
Total pad area	60.0cm
Pad thickness	18.0mm

ENGINEERING PERFORMANCE SINCE 1955

### Floating Front Disc Adaptor



Front disc adaptor and rotor is mounted using our car drive bobbin system fitted with anti-rattle springs, all fasteners are nickel plated for corrosion resistance.



- *As the rotor heats up during heavy braking application, the rotor diameter will grow in size and at a different rate to the rotor hat due to the rotor temperature being up to 300 – 400 degrees hotter. The bobbin drive system allows the rotor to grow separately as the bobbin slides within the slot without pulling on the rotor adaptor hat and distorting it. The anti-rattle springs hold the rotor against the adaptor minimising noise. Without the bobbin drive system, the rotor would distort the hat which usually causes rotor warping and vibration.*

# Tech Guide

## Harrop Ultimate Forged Calipers



### Stainless Steel Braided Brake Lines



#### Optional stainless steel brake lines available for:

- Improved safety and performance
- Increase braking efficiency
- Eliminates spongy pedal under firm/heavy braking
- Allows immediate brake pedal response
- Compatible with all brake fluids
- Compliant to ADR42/04 and SAE J1401/FMVSS106

ENGINEERING PERFORMANCE SINCE 1955