Manufacturer Address
PRD TAIWAN
6F, No16 Nanking East
Road, Section 5,Taipei TW

TAG Racing International
Engine Specification Form
125cc TAG Engine

TAG Engine
#
Page 1 of 8

Manufacturer :	**PRO RACE DESIGN**
Make :	**PRD**
Model° :	**RK125 WC (FIREBALL)**
Inlet type :	**REED VALVE**
Number of pages :	**EIGHT**

PICTURE OF ENGINE

(front - left)	*(back - right)*

Official Signature and Stamp

Importer	

	TECHNICAL INFORMATION

A	CHARACTERISTICS		
	Measurement		Tolerances
Volume of cylinder	**122.25 cc**		**125 cc**
Original bore	**53.68 mm**		
Theoretical maximum bore	**54.25 mm**		
Stroke	**54 mm**		**+/- 0.05 mm**
Cooling system	**WATER COOLED**		
Number of carburation systems	**Tillotson (HL-360) ONE ONLY**		
Number of transfer ports / ducts, cylinder / sump	**3**		
Number of exhaust ports / ducts	**3**		
Shape of the combustion chamber	**SPHERICAL WITH SQUISH**		
Length between axes of the connecting rod	**100 mm**		**+/- 0.10 mm**
Minimum weight of connecting rod	**100 grams**		**+/- 5 grams**
Volume of combustion chamber	**11 cc**		**+/- 0.5 cc**
Type of bearings and size (*example*) **6205** type	Big End of Con. Rod Bearing = **18 X 24 X 14.8** Little End of Con. Rod Bearing = **14 X 18 X 17.2** Crankshaft Bearing = **25 X 52 X 15**		

B	OPENING ANGLES		
Exhaust	**174°**		**+/- 1°**
Of exhaust ports / ducts	**174°**		**+/- 1°**

C	LIST OF ACCESSORIES INCLUDED	
(List accessories as shown below)	*Centrifugal clutch*
Carburetor with butterfly ⌀27	
Electric starter	
Exhaust with flex	

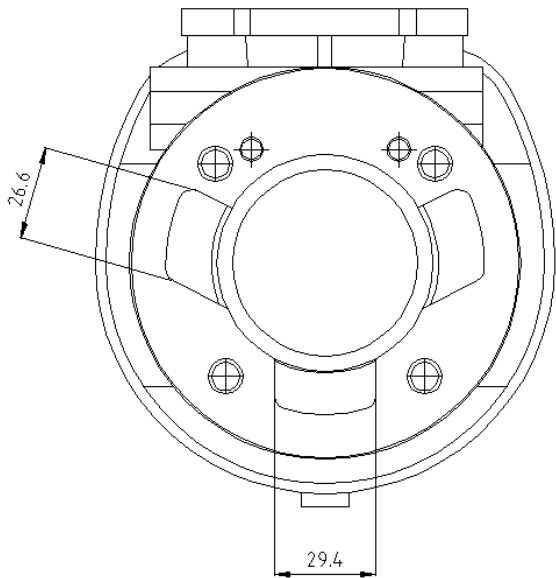| D	MATERIAL	
Cylinder	**ALLOY**
Connecting rod	**STEEL FOREED**
Crankshaft	**STEEL FOREED**
Head	**ALLOY**
Liner	**CAST IRON**
Crankcase	**ALLOY**
Piston	**ALLOY**
Piston Ring	**CAST STEEL**

DRAWING OF THE CYLINDER DEVELOPMENT
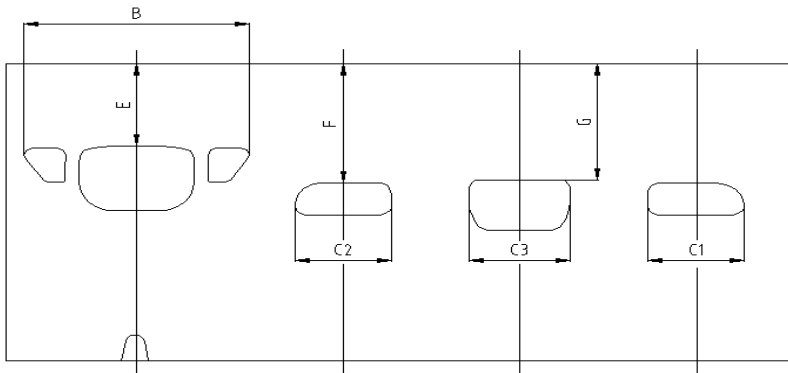
Chord reading
B = **65.3 mm**
C1 = C2 = **26 mm**
C3 = **29.4 mm**
Angular reading by inserting a 0.2mm gauge
E = **33.5 mm**
F = **43 mm**
G = **43 mm**

+/- 0.20 mm ON ALL CAST MEASUREMENT

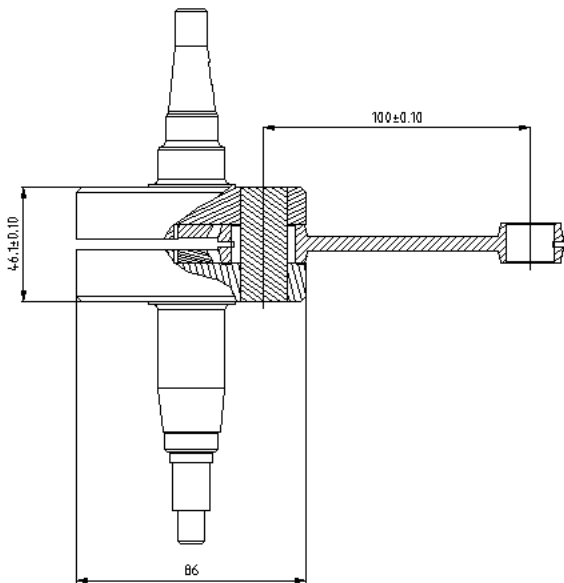## DRAWING OF THE CYLINDER BASE

CYLINDER SECTION VIEW
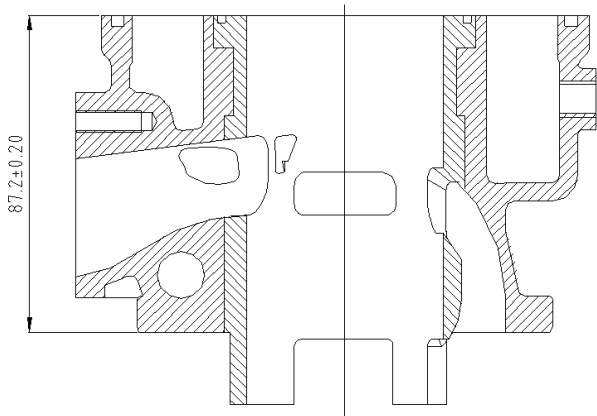
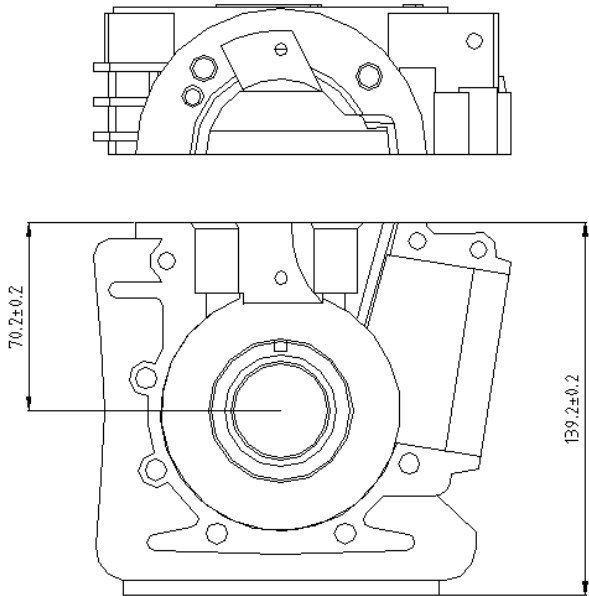## DRAWING OF THE CYLINDER HEAD AND THE COMBUSTION CHAMBER

$\varnothing 54.5 \pm 0.50$
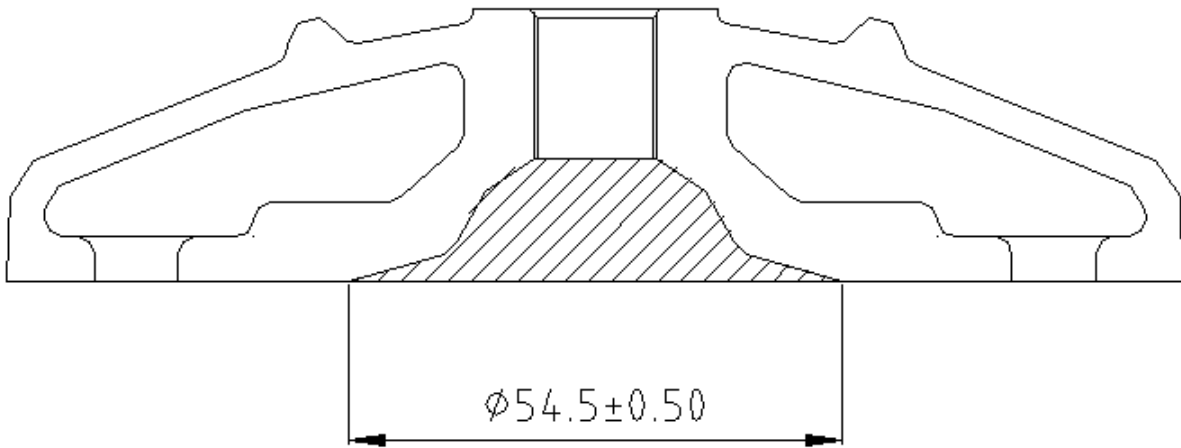
Combustion chamber volume = 11 cc   Tolerance = +/- 0.5 cc
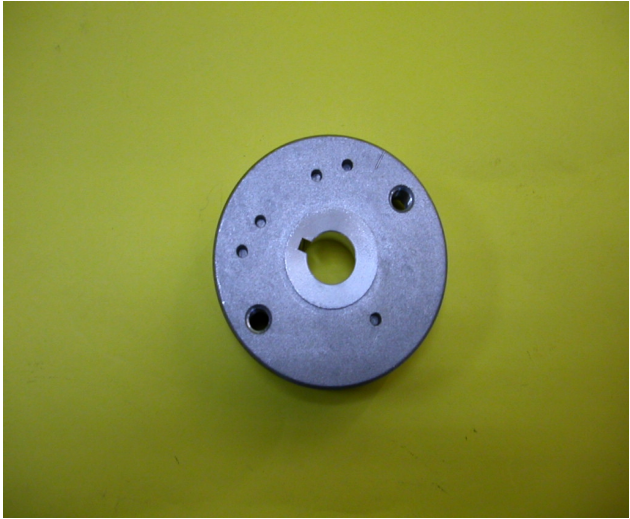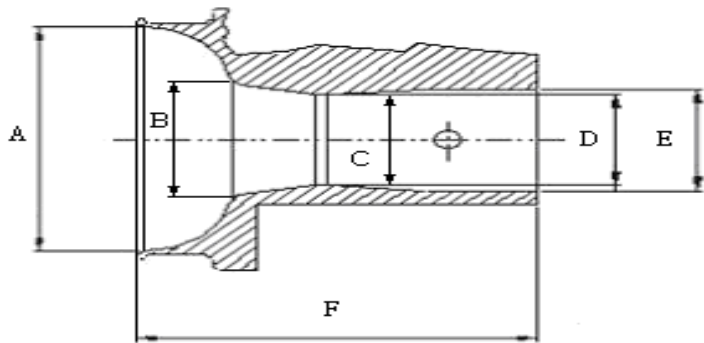
DRAWING OF THE CRANKSHAFT

100±0.10

46.1±0.10

86

Complete weight = 1975 grams
Tolerance = +/- 10 grams

DRAWING OF THE INSIDE OF SUMP

70.2±0.2

139.2±0.2

IGNITION	
Manufacturer°:	**OPPAMA**
Model Number°:	**PRD/OPPAMA/2004**
Rotation°:	**A/CLOCKWISE**
Description°:	**CDI**
PHOTO OF IGNITION	**PHOTO OF COIL**

CARBURETOR DIMENSION

Item	Measure	Tolerance
A	33.75 mm	+/- 0.20 mm
B	------------	-------------
C	24 mm	+/- 0.10 mm
D	24 mm	+/- 0.10 mm
E	27 mm	+/- 0.10 mm
F	66.25 mm	+/- 0.10 mm

PISTON

$29.8^{+0.10}_{-0}$

$29^{+0.10}_{-0}$
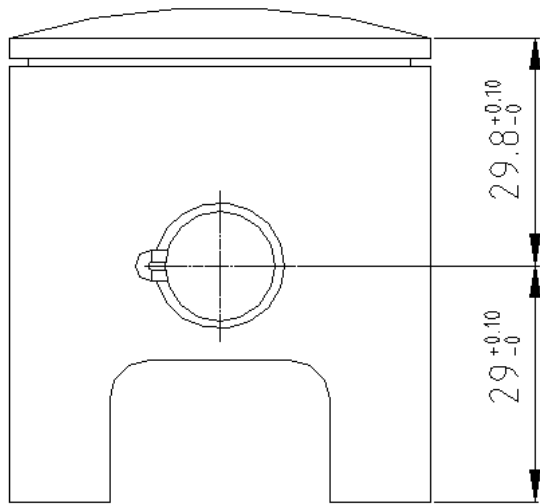
Weight = 135 grams   Tolerance = +/- 5 grams

CONNECTING ROD

15±0.05

100±0.10

15±0.05
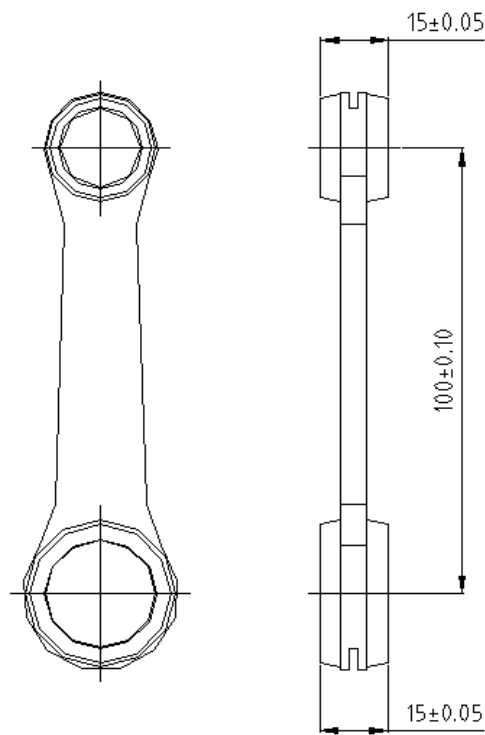
Weight = 100 grams   Tolerance = +/- 5 grams

DRAWING OF THE SILENCER AND IT S COMPONENTS
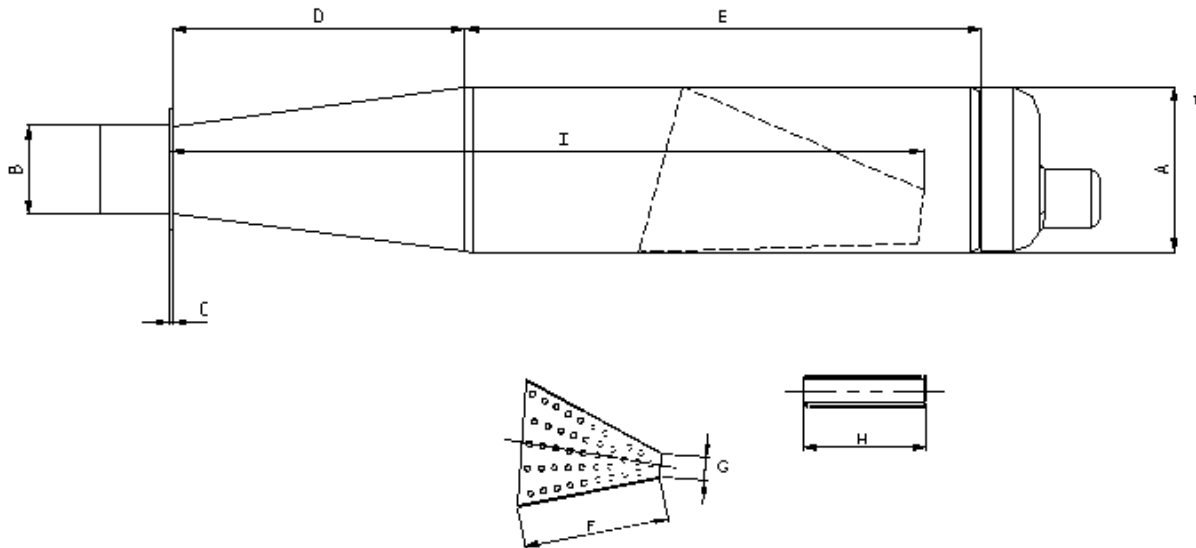
The end parts of the silencer must have two soldered pairs of lugs (one pair at the top and one pair at the bottom) to allow for fixing of seals by the Organizer so that the silencer may be opened during the competition.
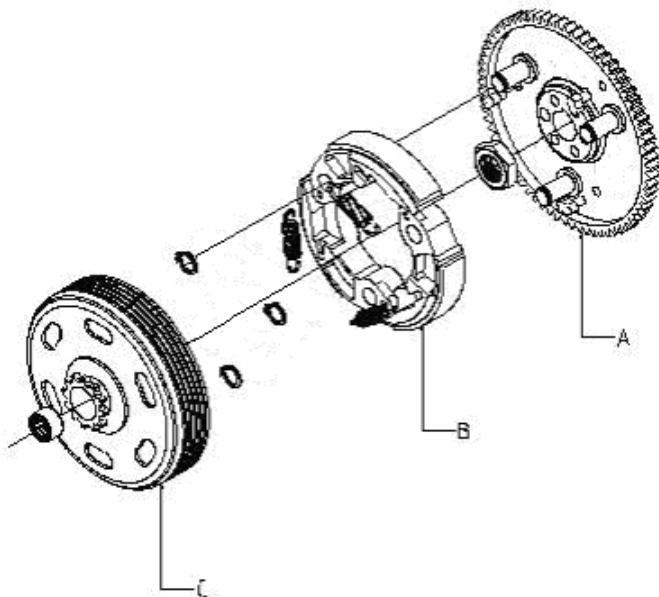
Measurements:

A: **100 mm**
B: **54 mm**
C: **3 mm**
D: **170 mm**
E: **315 mm**
F: **170 mm**
G: **21 mm**
H: **135 mm**
 I: **455 mm**

+/- 0.50 ON ALL MEASUREMENTS

DRAWING OF THE SILENCER
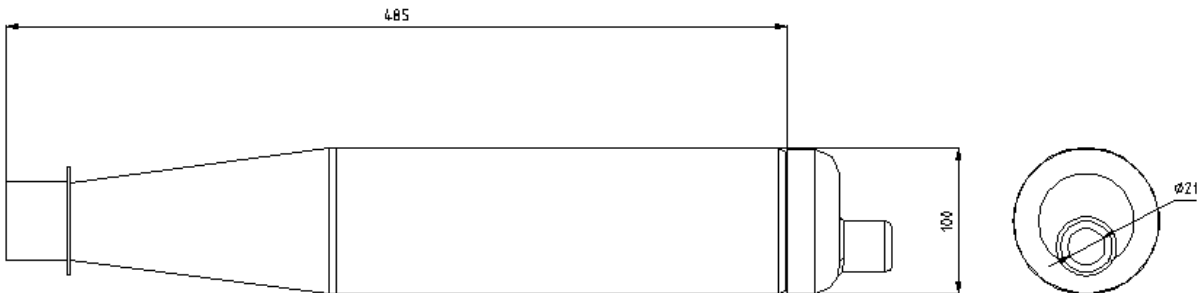
DRAWING OF THE CLUTCH

Item	Weight	Tolerance
A	416 grams	**+/-** 5 grams
B	48 grams/1pc	**+/-** 5 grams
C	356 grams	**+/-** 5 grams