

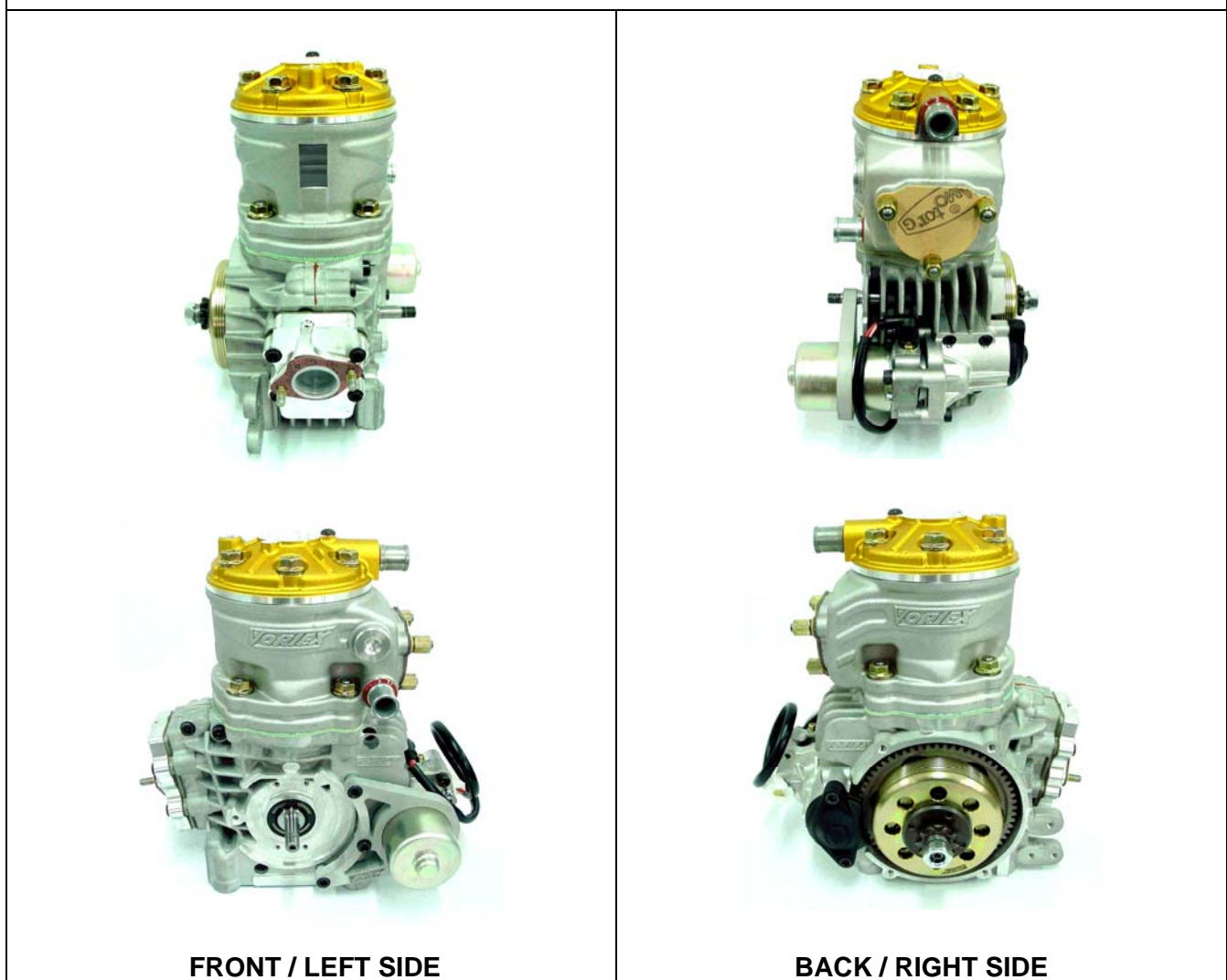



**Homologation form**  
**TAG USA™**  
A Division of TAG RACING INTERNATIONAL  
**Category: TAG Jr. Sr. Masters Heavy**

<b>VORTEX s.r.l.</b> Via Scarpone, 39 I – 27100 PAVIA	<b>HOMOLOGATION FORM for</b> <b>ENGINE cl. 125 cc.</b>	Form. TAGUSA 03/02/08
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<b>Manufacturer</b>	VORTEX s.r.l.
<b>Make</b>	VORTEX s.r.l.
<b>Model</b>	ROK TT
<b>Inlet type</b>	REED VALVE
<b>Number of pages</b>	9

**PICTURE OF ENGINE**



<b>Official TAG Signature and Stamp</b>	<b>Importer Signature and Stamp</b>
	





TECHNICAL INFORMATION		
A	CHARACTERISTICS	
	Measurement	Tolerances
Volume of cylinder	123.9 cc	
Original bore	54.05 mm	
Theoretical maximum bore	54.28 mm	
Stroke	54.00 mm.	
Cooling system	WATER-COOLED	
Number of carburation systems	1	
Number of transfer ports/ducts, cylinder/sump	3/3	
Number of exhaust ports/ducts	3	
Shape of combustion chamber	Spherical with squish	
Length between axes of the Connecting rod	102 mm	
Minimum weight of connecting rod	110 g	MIN
Volume of combustion chamber	7.5 cc cylinder head bolted on plate	MIN
Type of bearings and size	Big End of Rod Bearing= 20x26x15 Little End of Rod Bearing= 14x18x17 Crankshaft Bearing= 25x52x15	

B	OPENING ANGLES (all measurements done with 0.2mm gauge)	
		Tolerances
Inlet		
Exhaust	173°	

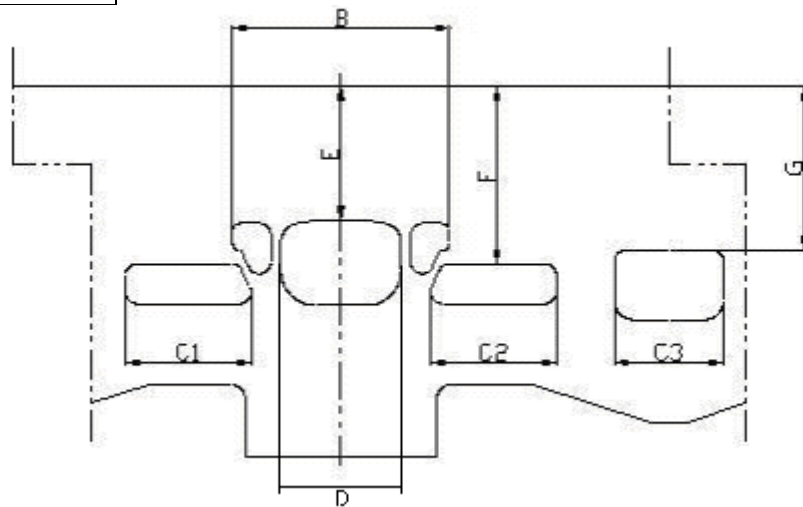
C	LIST OF ACCESSORIES INCLUDED	
Carburettor	Tillotson HL 360 A ONLY Carburettor ø24 with integrated fuel pump	
Battery charging	External battery charger	
Electric starter	On board	
Exhaust with flex	Exhaust with silencer	

D	MATERIAL	
Cylinder	AL – SI ALLOY	
Connecting rod	NI – CR – MO STEEL	
Crankshaft	NI – CR – MO STEEL	
Head	AL – SI ALLOY	
Liner	IRON	
Crankcase	AL – SI ALLOY	
Piston	AL – SI ALLOY	
Piston Ring	STEEL OR IRON	



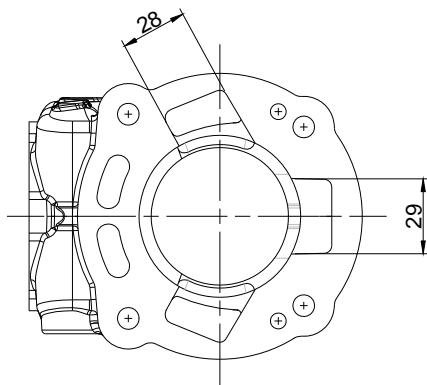
**DRAWING OF THE CYLINDER DEVELOPMENT**

<b>B</b>	<b>54 mm</b>
<b>C1=C2</b>	<b>28.0mm</b>
<b>C3</b>	<b>28.2mm</b>
<b>E</b>	<b>173° MAX</b>
<b>F</b>	<b>127° MAX</b>
<b>G</b>	<b>135° MAX</b>
<b>D</b>	<b>37.25mm MAX</b>



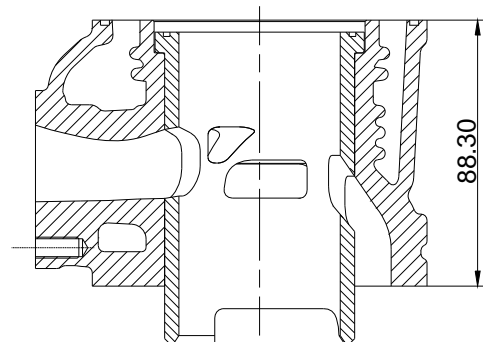
Angular reading by 0.2mm feeler gauge

**DRAWING OF THE CYLINDER BASE**



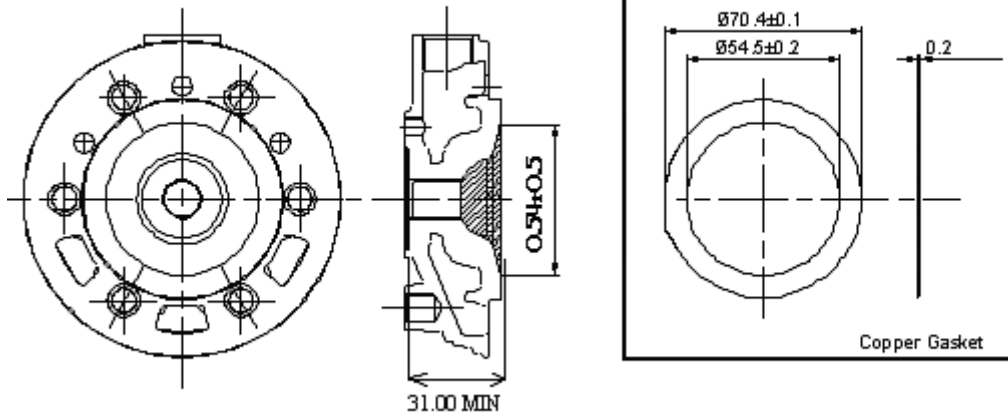
±1mm

**CILINDER SECTION VIEW**



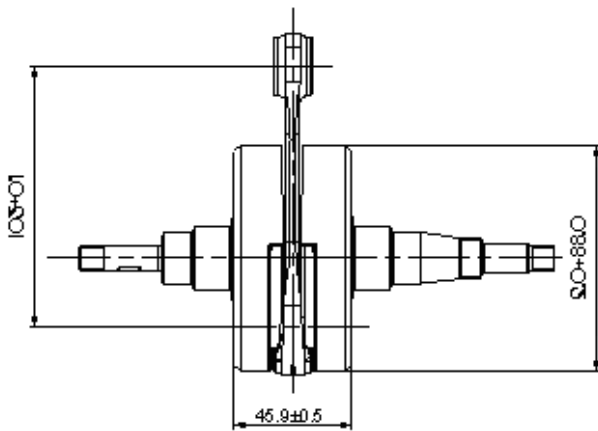
±0.25mm

**DRAWING OF THE CYLINDER HEAD AND COMBUSTION CHAMBER**



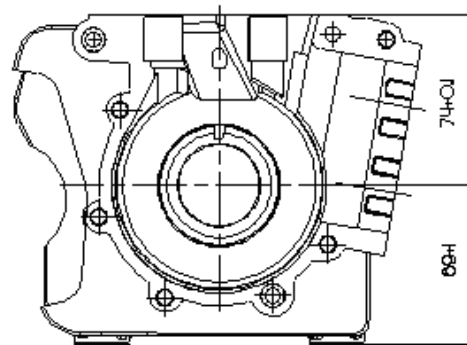
Combustion chamber volume = 7.5cc minimum      Head gasket 0.2

**DRAWING OF THE CRANKSHAFT**



Weight= 1860g ± 10g

**DRAWING OF THE INSIDE SUMP**

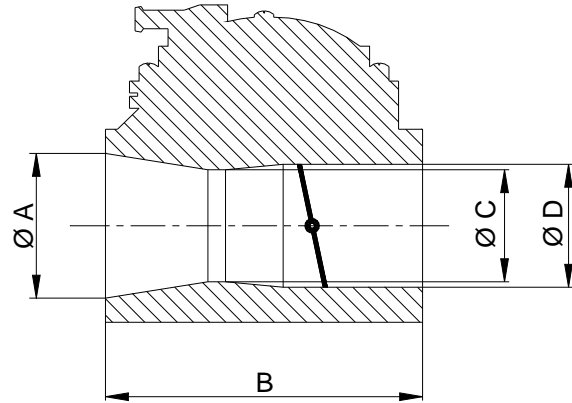


<b>IGNITION</b>	
Manufacturer	SELETTA – 36/A/09
Model Number	
Rotation	COUNTERCLOCKWISE
Setting Specification	0.065-0.070 BDC

PHOTO OF IGNITION	PHOTO OF COIL

**CARBURETTOR DIMENSION**

Item	Measure	Tolerance
A	33.5mm	±1mm
B	66mm	±1.5mm
C	24mm	±0.3mm
D	27mm	±0.5mm

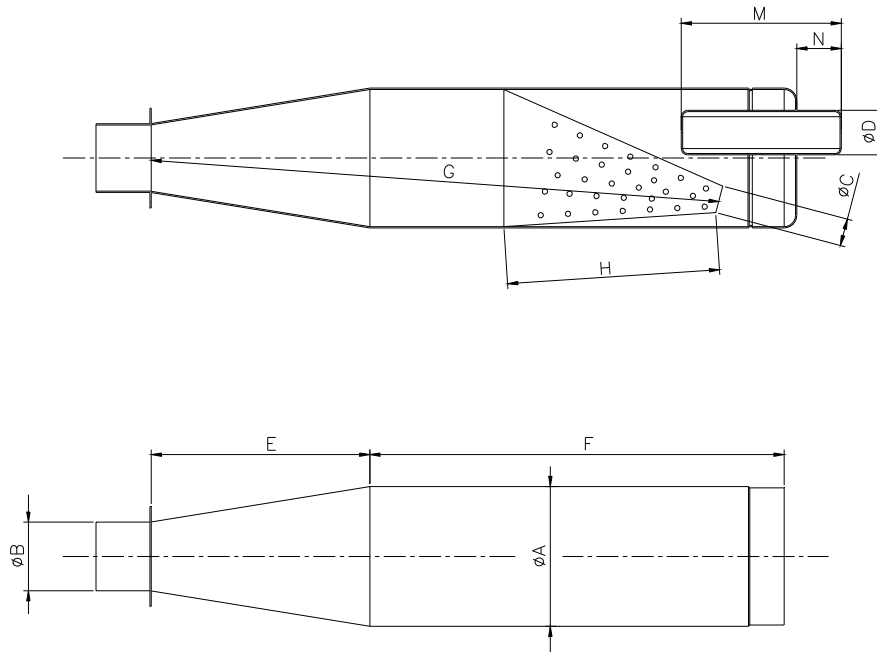


**TILLOTSON HL 360 A ONLY**

**max. Reed Thickness 0.008"**

PISTON	CONNECTING ROD
<p><b>Weight = 125g</b></p>	<p><b>Weight = 130g</b></p>

**DRAWING OF THE SILENCER AND IT'S COMPONENTS**



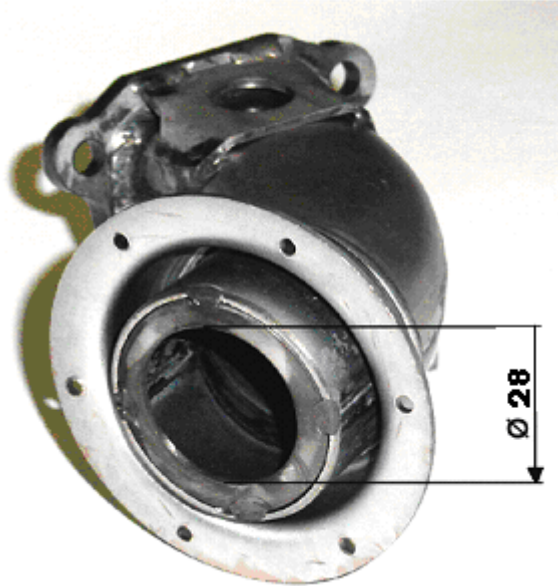
The end parts of the silencer must have two soldered pairs of lugs (one pair at the top and one pair at the bottom) to allow for fixing of seals by the Organizer so that the silencer may be opening during the competition.

Measurements:

- A: Ø100
- B: Ø54
- C: Ø21
- D: Ø35
- E: 172
- F: 315
- G: 490
- H: 171
- M: 130
- N: 35

OPTIONAL RESTRICTED HEADERS FOR JUNIOR CLASSES





**28MM MAX I.D. RESTRICTOR**

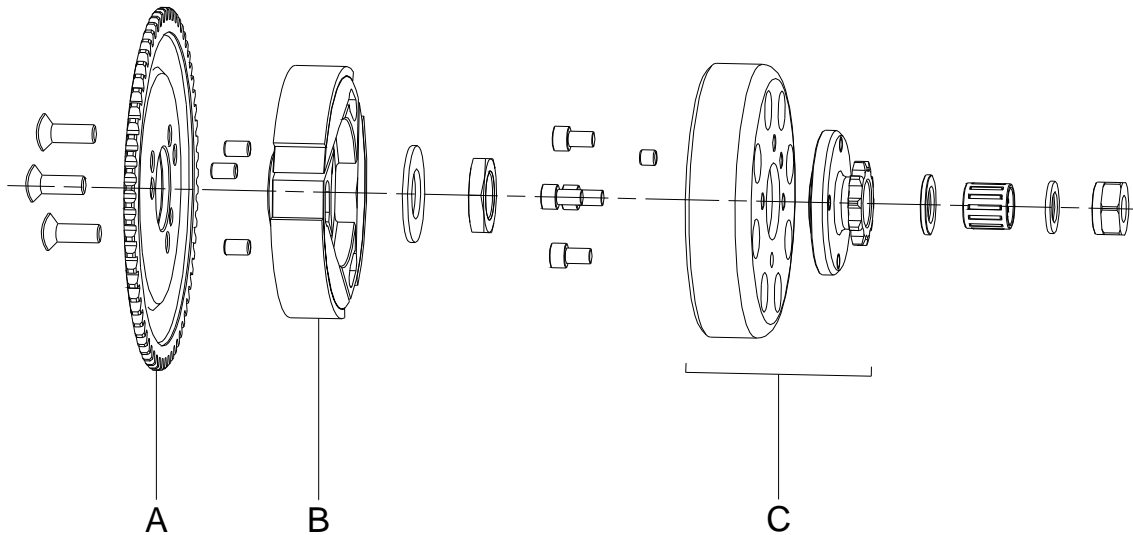
**HEADER FOR SENIOR CLASSES**



**42MM MAX I.D.**

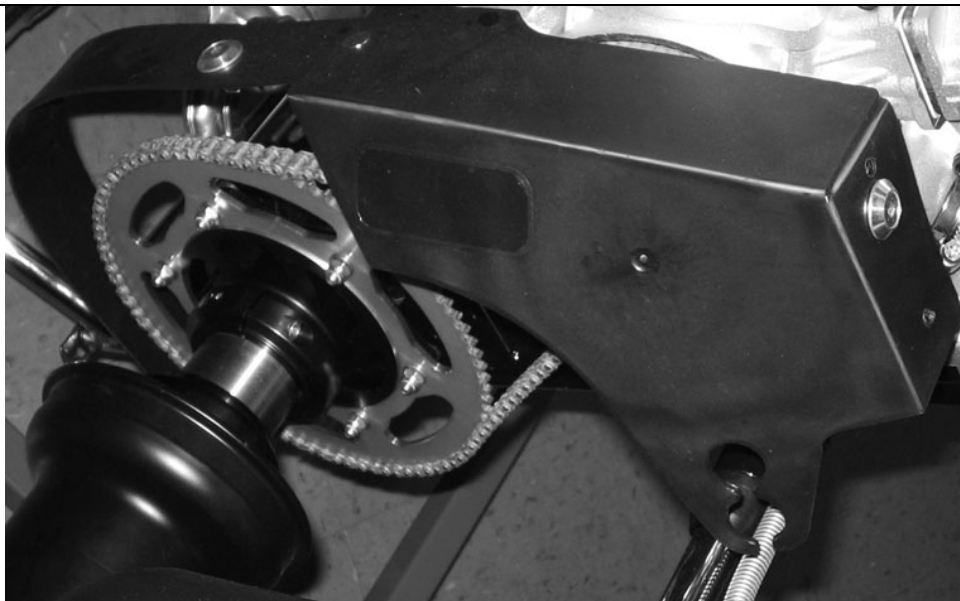
**DRAWING OF THE CLUTCH**





Item weight and tolerance: A= 115g ; B= 420g Minimum ; C= 280g Minimum

PHOTO OF THE CLUTCH COVER



TYPE: CIK APPROVED DRIVE COVER Technical Item