

ASS 01CH17

Form. O.MT.60

Homologation
Engine 60cc MINIKART

N. OMOL.
05/M/20

Brand	VORTEX
Manufacturer	OTK KART GROUP
Model	MR3
Homologation period	01 February 2015 – 31 December 2020

Page12



Picture gear side



Picture ignition side

Firma e Timbro dell'ASN	Firma e Timbro del Costruttore
A circular stamp from the 'COMMISSIONE SPORTIVA AUTOMOBILISTICA ITALIANA' (ASN) with a handwritten signature next to it.	OTK KART GROUP S.r.l. A handwritten signature in black ink.

Technical information

A

		Tolleranze
Displacement	60cc	
Max allowed bore	42,1mm	
Stroke	43mm	+/- 0,10 mm.
Admission sytem	Piston Port	
Cooling system	Free air	
Carburettor	Ø 18,00mm or 14,00mm National approved	
Number of transfers	2	
Width of exhaust port	28mm Template provided by manufacturer	+ 0,1mm - 0.2 mm
Width of inlet port	26mm Template provided by manufacturer	+ 0,1mm - 0,2mm
Weight of piston including piston ring without pin	gr.61	+/- 10%
Weight of crankshaft including conrod without piston	gr.1207	+/- 3%
Piston pin	gr.12	+/- 10%
Conrod	88mm	+/-0,1mm
Volume combustion chamber	6,8cc min., (Measured with insert CIK)	
Clutch: Unique design the same for everyone. Starting gear of non-magnetic material with exception of exotic material	Weight complete: 800g min. Internal diameter of bell:85.00mm max Clutch size unique design is the same for everyone	
Cumbustion chamber shape	Check with manufacturer supplied template to check shape and squish band	
Sprocket	Z10 – Z11 – Z12	
Cylinder foot	Minimum and maximum	+/- 2mm
Ignition	SELETTRA Mod. “ LC 23915 “ N°Omologazione – 01/ACZ/14	

B

DISTRIBUZIONE (misurati con spessimetro da mm. 0.20 avente larghezza mm 5)

Angle of admission	144°	max
Angle of exhaust	156°	max
Angle of transfer	116,5°	+/- 2°

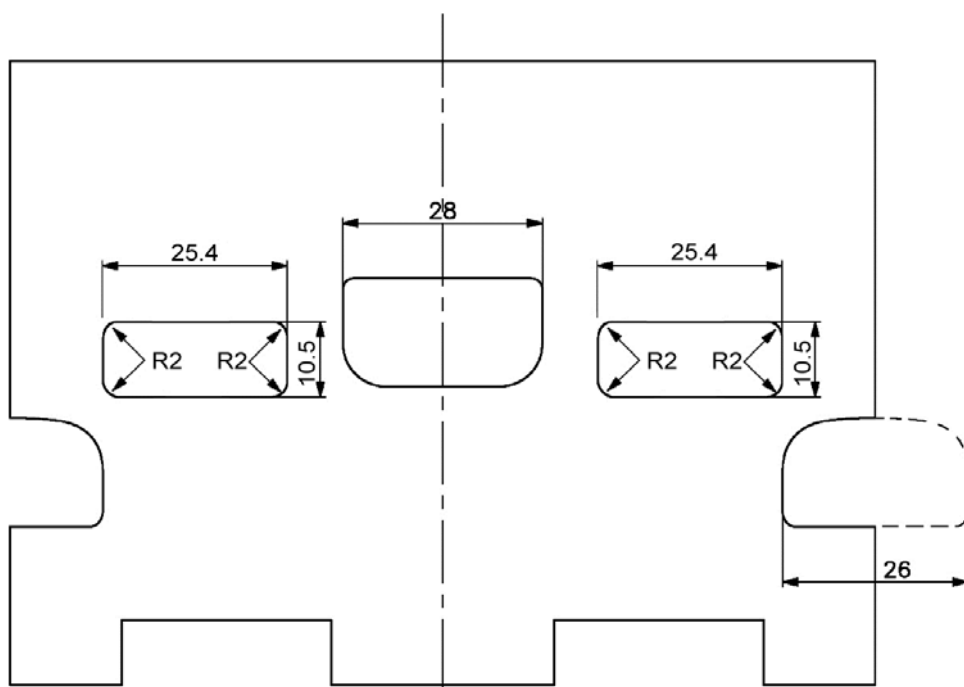
C

MATERIALI

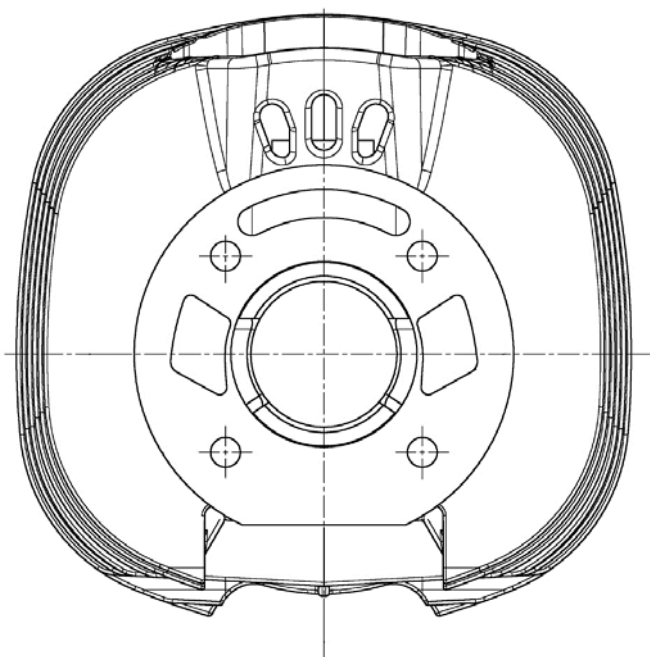
Cylinder:
Aluminum alloy, with inner barrel cast iron excluding chrome, Nikasil and treatments with exotic materials.

Design Cylinder

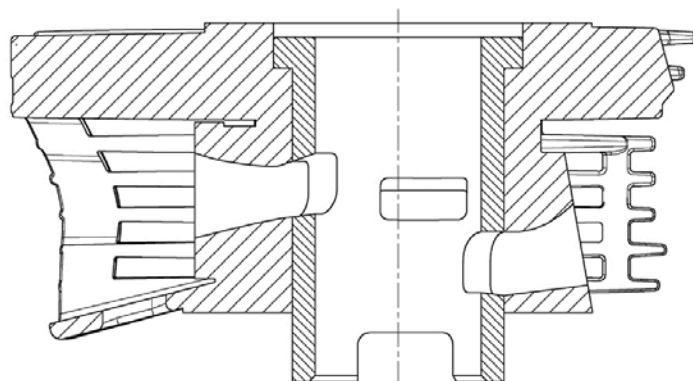
Ø 42 mm ± 0.1



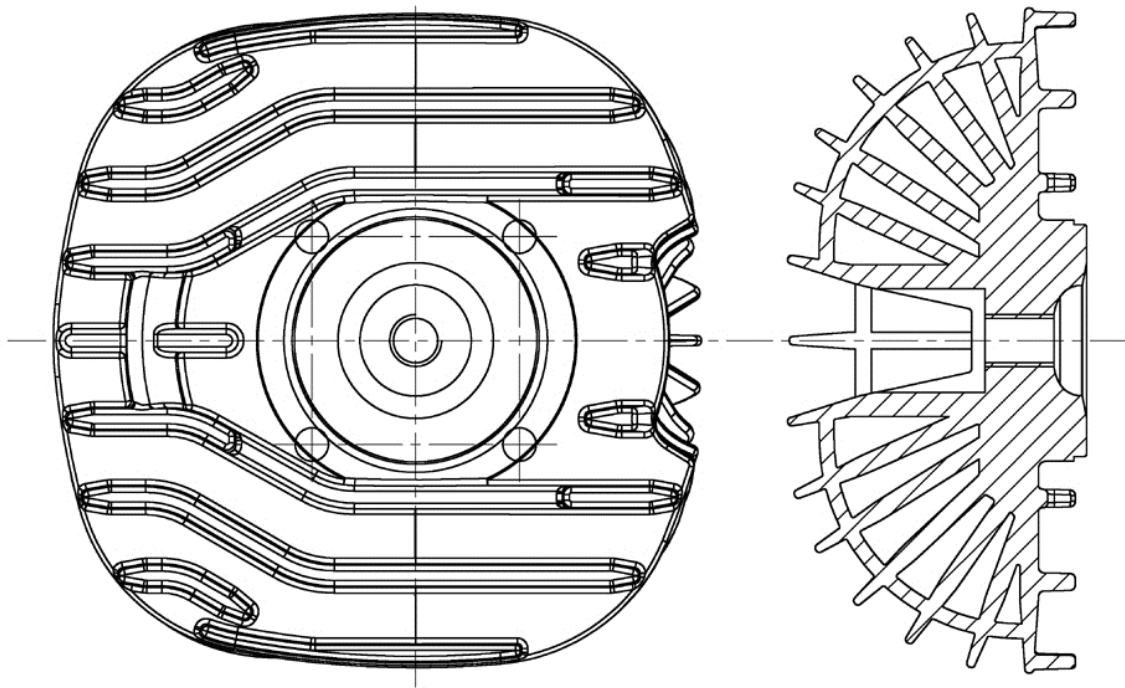
Design Cylinder foot



Sectional view of Cylinder



Design of Cylinder Head and combustion chamber



Design and units of crankshaft

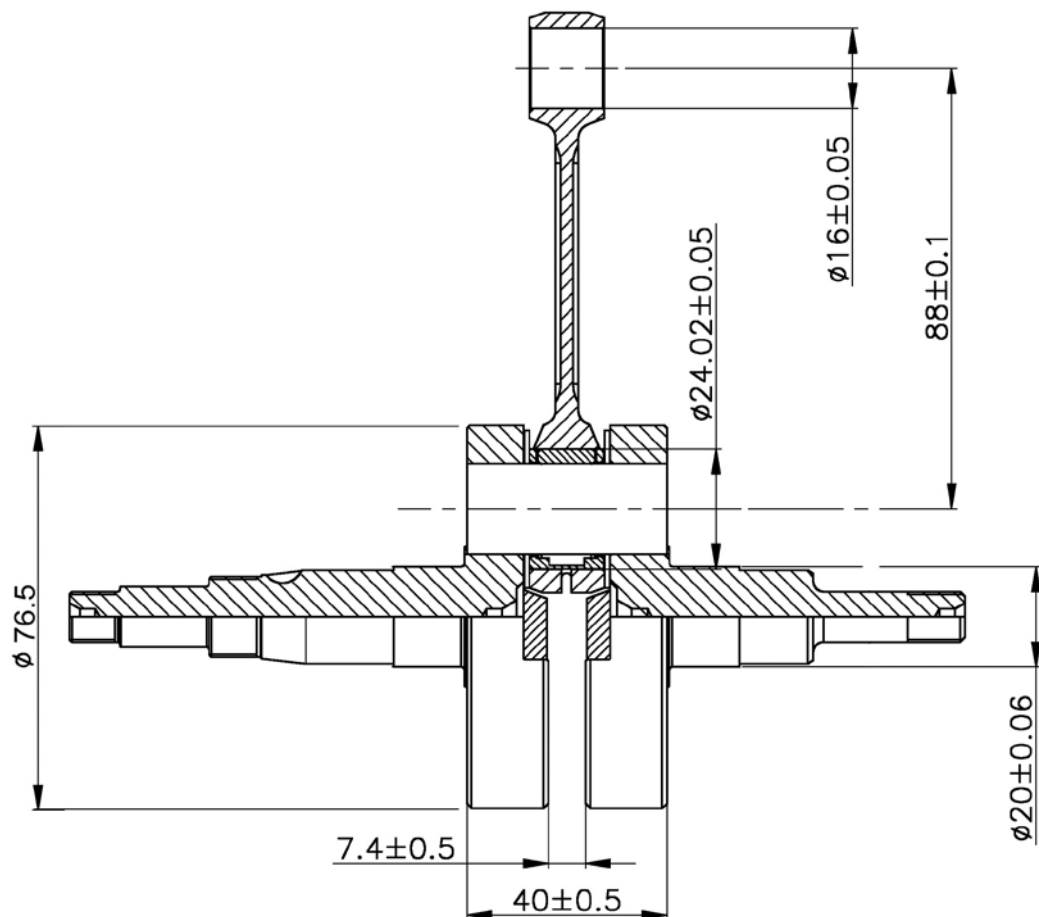


Photo crankshaft separate, highlighting the masses (grips) for balancing material PLASTIC !!



Picture conrod DX



Picture Conrod SX

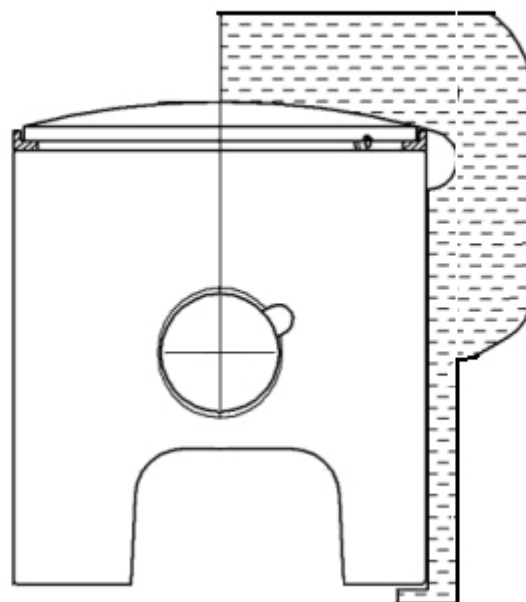
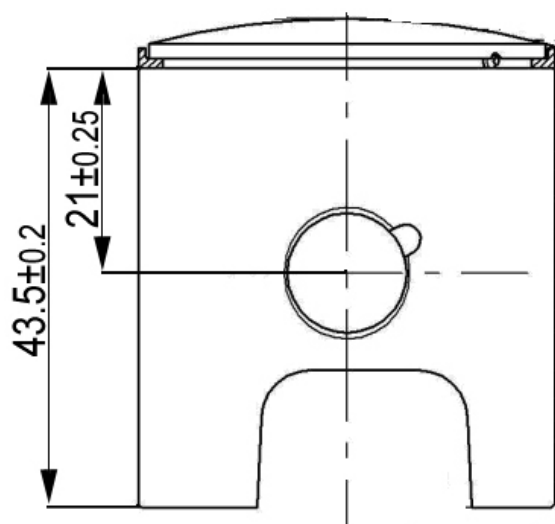


Picture piston

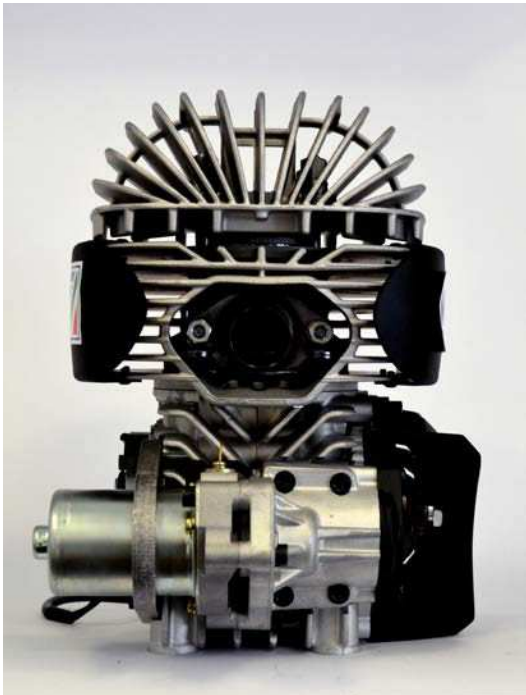


Size, quotas and template provided by the manufacturer.

Dima Controllo Pistone



Picture back side of engine



Picture front side of engine



Picture of engine top



Picture of engine bottom



Picture cylinder foot



Picture combustion chamber



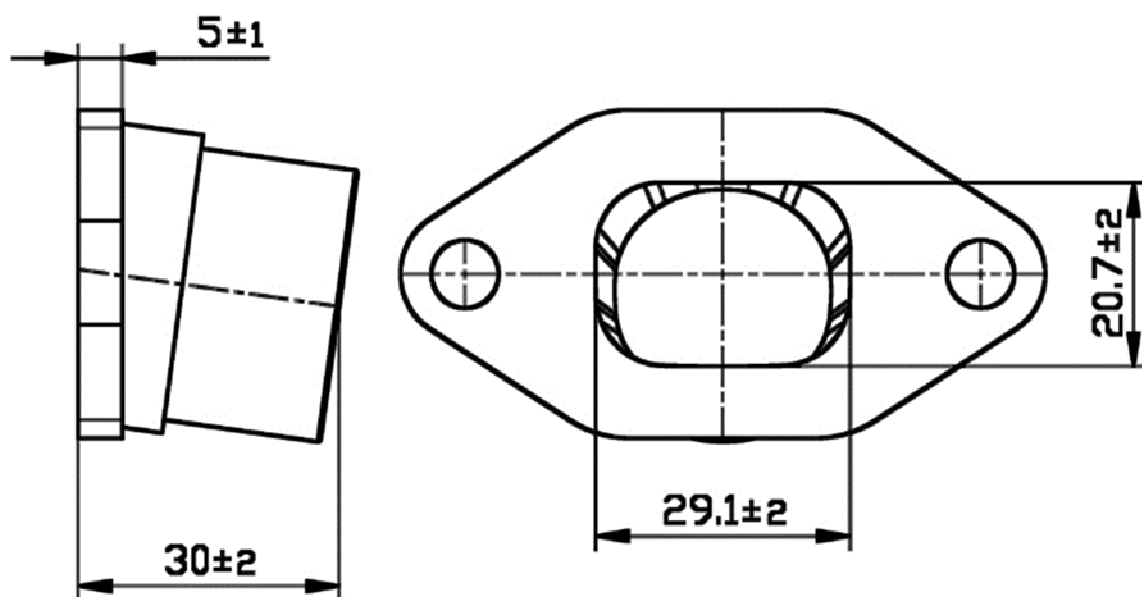
Picture crankcase SX



Picture crankcase DX

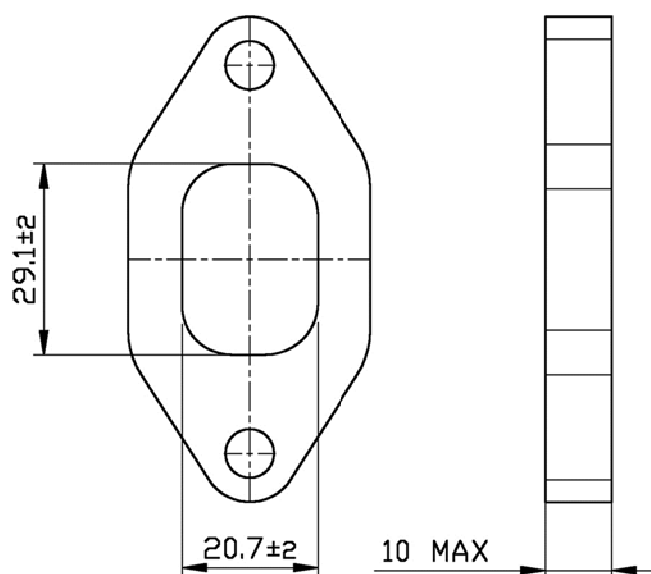


DESIGN AND UNITS EXHAUST MANIFOLD



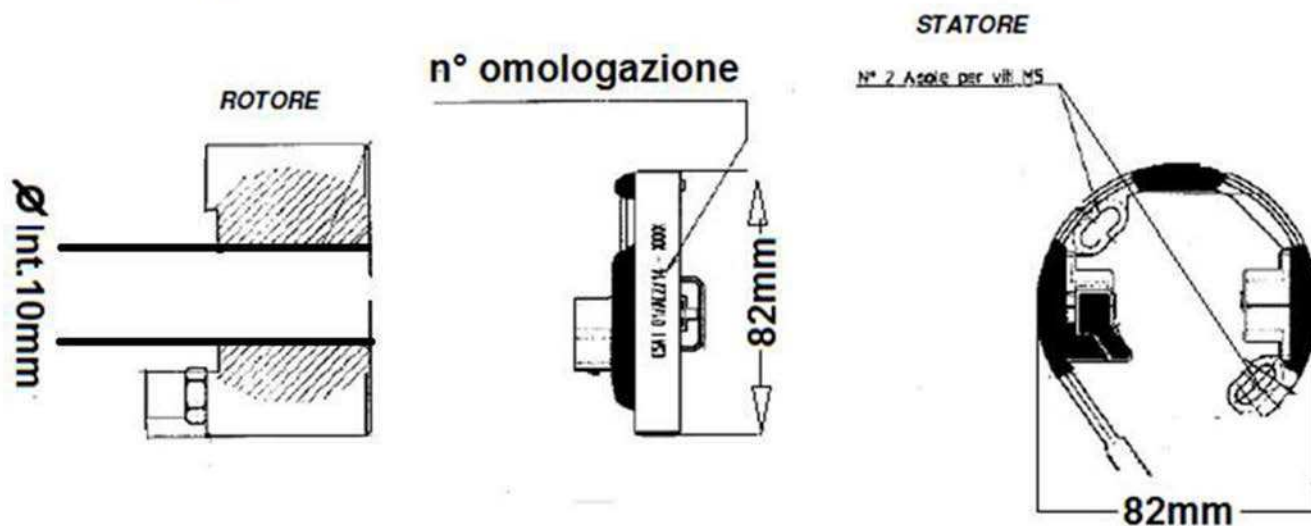
DESIGN AND UNITS OF FLANGE BETWEEN EXHAUST MANIFOLD AND CYLINDER

OPTIONAL spacer 10mm. max.
Material: Alluminum or steel

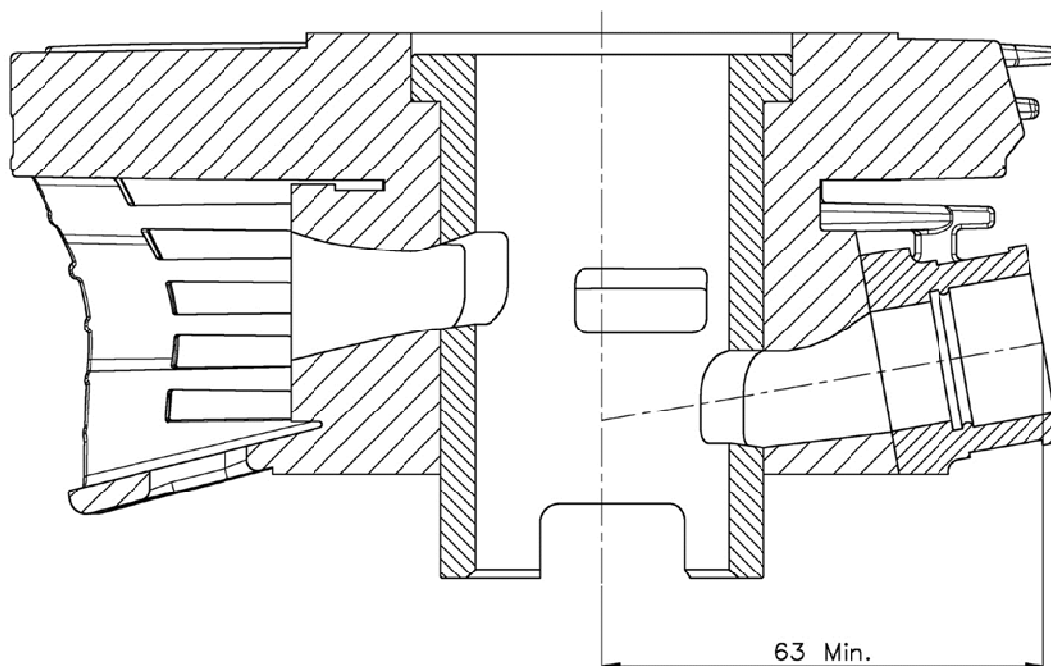


IGNITION

Fig.6 - Dimensioni dello statore e del rotore dell'accensione, uniche per tutti



MINIMUM DISTANCE PLAN SUPPORT CARB AXIS CYLINDER



Picture marking 7 specific details:

Cylinder head



Cylinder



Cylinder foot



Conrod



Crankshaft



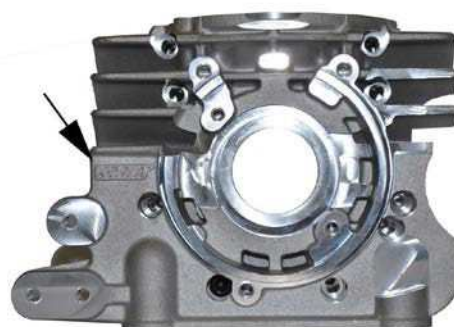
Piston



Crankcase DX



Crankcase SX



Bulkheads cylinder side

OPTIONAL



Cover Chain

OPTIONAL

