

New



C-ONE



youtu.be/ksc1YhJGX8I

Crankcase

for all scooters that fit a

Yamaha Minarelli LC 50 cc engine as original equipment

Malossi has achieved the impossible, uniting the world of racing motors for scooters to the C-One Yamaha-Minarelli. Our technicians have designed the C-One Yamaha-Minarelli as a platform for bringing together the technical solutions as well as the internal external dimensions with all C-One Malossi models.

Malossi C-One uses the same heating unit and transmissions on all of its models, both for Piaggio and Yamaha/Minarelli scooters, linking two worlds which have always been apart by enhancing and giving value to the best elements of both.

C-One for Yamaha has been designed to be entirely Plug & Play for all scooters equipped with 50cc Yamaha/Minarelli liquid-cooled motors: no modifications to the chassis are required, and the internal section can accept all products in the Malossi selection for the RC-One range, becoming a revolutionary solution for the development of racing components for ALL scooters.

THE TECHNIQUE

The base of the cylinder has been inclined by 10° compared to the original drive shaft axle - gears. This innovative development has allowed Malossi technicians to connect the motor attachments in front of the power unit, doing away with one of the biggest Achilles heels once of standard Yamaha/Minarelli motor housings once and for all. A modification underneath the saddle compartment.

The base of the C-One Yamaha-Minarelli requires two different stud mounts in order to house either Malossi cylinders with through-hole studs or flanged mount short studs with 47.6 max. diameter. The advantage of this solution is that it opens the door to entirely unique cylinder designs.

The reed valve mount has been significantly changed thanks to the latest 3D fluid dynamics simulation software, allowing Malossi technicians to find the ideal ratios and dimensions.

The automatic mixer and mechanical water pump have been removed to reduce dispersion as much as possible. The possibility to perform a native install of a Malossi internal ignition rotor has been allowed, as well as a vacuum fuel pump.

As for the bike itself, C-One for Yamaha is designed exclusively for scooters with rear disc brakes fitted as standard, and is not designed for the alternative use of brake shoes. The interaxle spacing has been increased, with a consequential increased stability and precision when taking curves, whereas the gearbox housing has been reduced in size by overlapping the gear wheels. The increased interaxle spacing and the internal diameter means that the starter cover designed for Piaggio scooters is required.

All C-One for Yamaha housings are supplied complete with the components required for installation. Indeed, considering the notable technical differences when compared to standard units, Malossi has decided to include a reed valve, covers, and a special wheel pin in order to use the original rear wheel and make the C-One perfectly interchangeable with Yamaha/Minarelli wheels and hubs. Another optional is the special rear mudguard to protect and keep the carburettor clean, now positioned at the rear.

The new housings have been designed and built in Calderara di Reno at Malossi's new headquarters, one of the most advanced centres for research, development and production of special parts for motors and scooters. These parts were thought of and produced with one objective: to produce the most innovative racing components for scooters ever.

Products to be used exclusively for racing in places specially designed for such activity according to the regulations of the competent sporting authorities. We accept no liability resulting from improper use.

New



MHR
MALOSSI HYPER RACING

C-ONE



5716654

€ 477.00



Technical features:

- Crankcase pair, die-cast material in aluminum silicon alloy with high mechanical resistance.
- Crankcases inclusive of bearings 5.150 Kg.
- Crankshaft - clutch shaft wheelbase 270 mm.
- Bolt holes wheelbase 48 x 48.
- Crankshaft bearings 20 x 47 x 14.
- Oil seals FKM plus PTFE.
- Reed valve VL 18.
- Intake manifold X360 I. 27.
- Cylinder stud bolts material: steel 8.8 UNI EN20898/1.
- Oversized cooling fluid connector: external Ø 18 mm - internal Ø 13,5 mm.
- Wheel axle bearing 20 x 47 x 14.
- Pinwheel.
- Roller gear cover size 16 x 22 x 12.

1616276 € 251.86

**CARBURETTOR KIT
VHST 28 BS MHR**



1313799B € 41.82
FKM INTAKE RUBBER
for Dellorto carburettor Ø 28 - 30

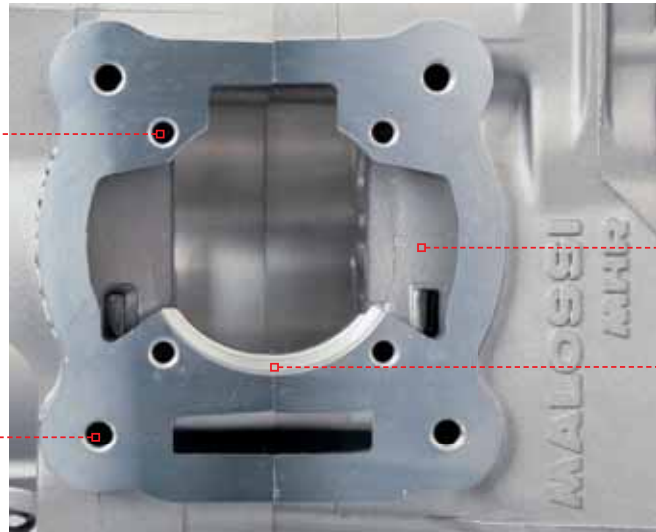


New



MHR
MALOSSI HYPER RACING

Mounting cylinders
with stud bolts.



Transfer ports perfectly
coupled to the Malossi
MHR Team 7 cylinder kits
transfer ports.

Cylinder housing
boring \varnothing 61.

Cylinder mounting to
Malossi flange.

Ready for use with
starter casing cover
Gilera Runner 50 2T.

Ready for user with original Malossi
roller crankcase 2514603 MHR.



Elimination
of automatic mixer.

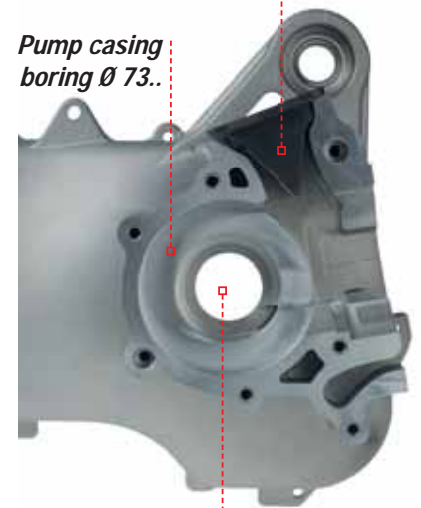
Larger needle bearing
 \varnothing 16 x 22 x 12.

Preparation for
depression fuel pump.



Larger single-petal reed
valve Malossi VL18.

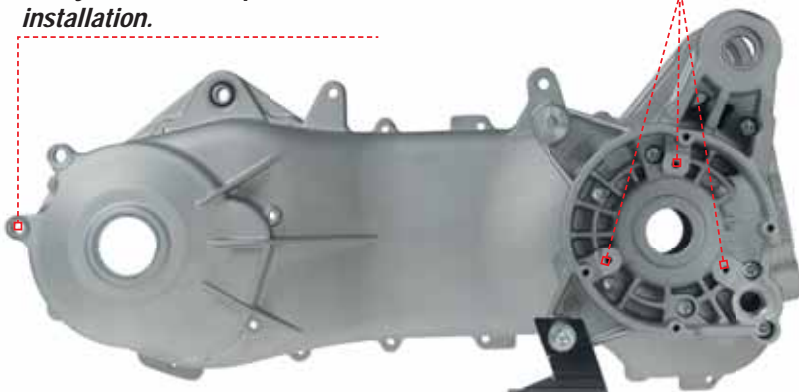
Pump casing
boring \varnothing 73..



Bearing housing \varnothing 47.

Ready for brake caliper
installation.

Installation slots internal
rotor ignition.



New



RC-ONE



This crankcase has been dreamed of and brought to reality with just one aim in mind: to produce the most innovative racing component for scooters that has ever existed.

Crankcase

**for all scooters that fit a
Yamaha Minarelli LC 50 cc engine
as original equipment**



youtu.be/ksc1YhJGX8I

5716668

€ 498.00

Malossi has achieved the impossible, uniting the world of racing motors for scooters thanks to the RC-One Yamaha-Minarelli. Our technicians have designed the RC-One Yamaha-Minarelli as a platform for bringing together the technical solutions as well as the internal external dimensions with all RC-One Malossi models.

The Malossi RC-One housings have been designed to be used only with 94cc Flanged Mount heating units with external studs. The generous pump housing dimensions are finally adequate enough for high capacity engine blocks. Malossi C-One uses the same transmission both for Piaggio and Yamaha/Minarelli scooters, linking two worlds which have always been apart by enhancing and giving value to the best elements of both.

RC-One for Yamaha has been designed to be entirely Plug & Play for all scooters equipped with 50cc Yamaha/Minarelli liquid-cooled motors: no modifications to the chassis are required, and the internal section can accept all products in the Malossi selection for the RC-One range, becoming a revolutionary solution for the development of racing components for ALL scooters.



THE TECHNIQUE

The base of the cylinder has been inclined by 10° compared to the original drive shaft axle - gears. This innovative development has allowed Malossi technicians to connect the motor attachments in front of the power unit, doing away with one of the biggest Achilles heels once of standard Yamaha/Minarelli motor housings once and for all. A modification underneath the saddle compartment.

The base of the Yamaha RC-One has been designed to only house Malossi cylinders with flange mounts and external studs for the MHR Ø 52 Flanged Mount testa rossa family. The advantages of this solution open the door to the possibility of designing entirely unique cylinders. The reed valve mount has been significantly changed thanks to the latest 3D fluid dynamics simulation software, allowing Malossi technicians to find the ideal ratios and dimensions.

The automatic mixer and mechanical water pump have been removed to reduce dispersion as much as possible. The possibility to perform a native install of a Malossi internal ignition rotor has been allowed.

As for the bike itself, RC-One for Yamaha is designed exclusively for scooters with rear disc brakes fitted as standard, and is not designed for the alternative use of brake shoes. The interaxle spacing has been increased, with a consequential increased stability and precision when taking curves, whereas the gearbox housing has been reduced in size by overlapping the gear wheels. The increased interaxle spacing and the internal diameter means that the starter cover designed for Piaggio scooters is required.

All RC-One for Yamaha housings are supplied complete with the components required for installation. Indeed, considering the notable technical differences when compared to standard units, Malossi has decided to include a reed valve, covers, and a special wheel pin in order to use the original rear wheel and make the RC-One perfectly interchangeable with Yamaha/Minarelli wheels and hubs. Another optional is the special rear mudguard to protect and keep the carburettor clean, now positioned at the rear.

The new housings have been designed and built in Calderara di Reno at Malossi's new headquarters, one of the most advanced centres for research, development and production of special parts for motors and scooters. These parts were thought of and produced with one objective: to produce the most innovative racing components for scooters ever

New



MHR[®]

MALOSSI HYPER RACING

Technical features

- Crankcase pair, die-cast material in aluminum silicon alloy with high mechanical resistance.
- Crankcases inclusive of bearings 5.150 Kg.
- Crankshaft - clutch shaft wheelbase 270 mm.
- Crankshaft bearings 20 x 47 x 14.
- Oil seals FKM plus PTFE.
- Reed valve VL 18.
- Intake manifold X360 Ø 21 - 28 length 27.
- Cylinder stud bolts material: steel 8.8 UNI EN20898/1.
- Oversized cooling fluid connector: external Ø 18 mm - internal Ø 13,5 mm.
- Pinwheel.
- Wheel axle bearing 20 x 47 x 14.
- Roller gear cover size 16 x 22 x 12.



1616276 € 251.86

CARBURETTOR KIT VHST 28 BS MHR



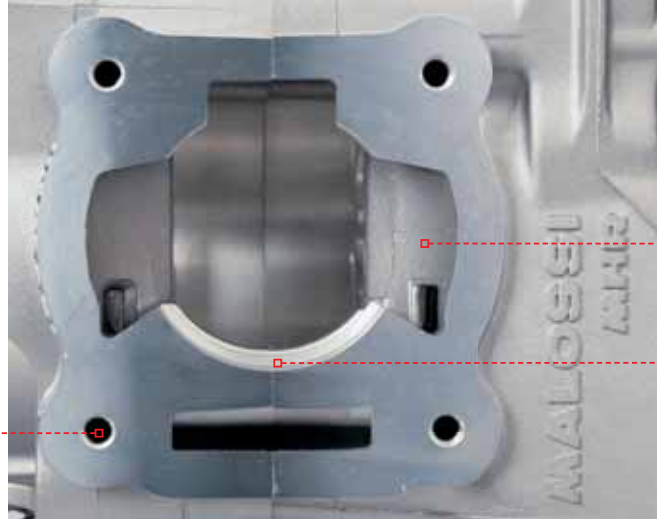
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New



MHR
MALOSSI HYPER RACING

RC-ONE



Transfer ports perfectly coupled to the Malossi MHR Team 7 cylinder kits transfer ports..

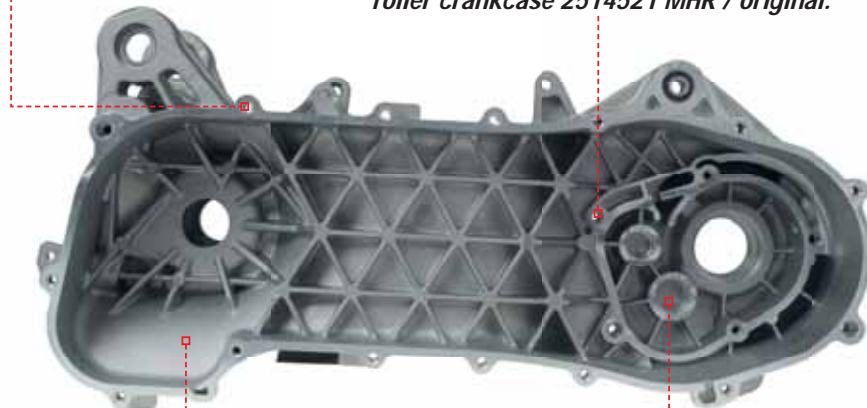
Cylinder housing boring $\varnothing 61$..

Installation of Malossi $\varnothing 52$ MHR Flanged Mount testa rossa cylinders 3115883.

Ready for use with starter casing cover Gilera Runner 50 2T.

Ready for user with original Malossi roller crankcase 2514521 MHR / original.

Preparation for depression fuel pump.

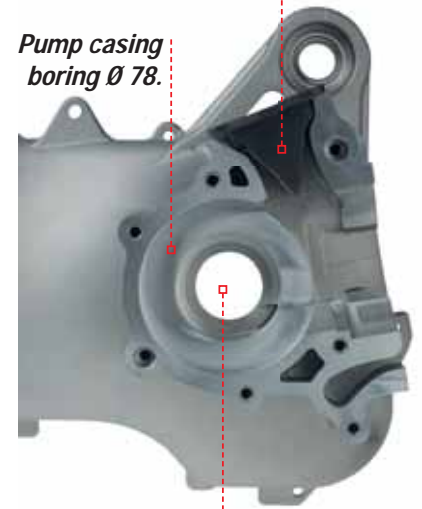


Elimination of automatic mixer.

Larger needle bearing $\varnothing 16 \times 22 \times 12$.

Larger single-petal reed valve Malossi VL18..

Pump casing boring $\varnothing 78$.



Pump casing boring $\varnothing 78$.

Installation slots internal rotor ignition Malossi 5514691 MHR - 5515001 MHR TEAM.

Ready for brake caliper installation.



Bearing housing $\varnothing 47$.

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New



MHR
MALOSI HYPER RACING

94 CC

Supplementary elements



5716668 € 498.00

MHR RC-one
COMPLETE ENGINE CRANKCASE



5316029 € 465.00

CRANKSHAFT MHR TEAM
PIN Ø 13 ROD 90 (STROKE 44)



3115883 € 437.00

CYLINDER KIT Ø 52 MHR
FLANGED MOUNT *testa rossa*



ATTENTION: This cylinder kit must be installed necessarily with the products displayed in this page.

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MALOSS

Supplementary elements C-ONE - Engine Crankcase

C-ONE
5716654

YAMAHA-
MINARELLI
WHEEL 12/13

SUGGESTED STEP		
	CYLINDER+HEAD TEAM Replica	Ø 47,6 (pin) 3111584 € 324.71 (12)
	CRANKSHAFT RHQ	PIN Ø 12 53 7600
	STROKE 39 mm CONNECTING ROD 80	€ 178.00
	CYLINDER+HEAD TEAM 2	Ø 47,6 3115142 STROKE 39 mm € 376.00
	FLANGED MOUNT CYLINDER	Ø 47,6 3115901 STROKE 39 mm € 402.00
	CRANKSHAFT RHQ	PIN Ø 12 53 9212 STROKE 39 mm CONNECTING ROD 85 € 285.15
	CRANKSHAFT RHQ TEAM	PIN Ø 12 - 13 5316005 STROKE 39 mm CONNECTING ROD 85 € 478.00
	SCOOTER RACING MHR	Ø 47 - 47,6 32 9834 € 377.08
	SCOOTER RACING MHR TEAM	Ø 47,6 3217327 € 366.18
	CARBURETTOR KIT	PHBG Ø 19 1611021.T TEAM € 202.60
		PHBG Ø 21 1613890.TO TEAM € 216.92
		VHST Ø 28 1616276 TEAM € 251.86
	INTAKE RUBBER	Ø 28-30 1313799B € 41.82
	INNER ROTOR IGNITION	5514691 € 328.50
	INNER ROTOR IGNITION TEAM	5515001 € 350.00
	OVER RANGE	6114219 € 262.65
	MULTIVAR TEAM VARIATOR	5112645 € 77.25
	X K BELT BELT	6114118 € 38.25
	REAR PULLEY SYSTEM	6113101
	REAR PULLEY	€ 174.40
	OVER RANGE ALUMINUM	6115781 € 365.00
	MULTIVAR ALUMINUM VARIATOR	5115644 € 87.55
	X K BELT TEAM ALUMINUM	6115668 € 44.88
	REAR PULLEY SYSTEM ALUMINIUM	6114582
	REAR PULLEY	€ 275.31
	VENTILVAR HALF-PULLEY	6115790 € 36.72
	TORSION CONTROLLER	2512828 € 4.45
	DELTA CLUTCH ADJUSTABLE CLUTCH	52 7880 € 77.89 Ø 107
	WING CLUTCH BELL CLUTCH BELL (FINNED RING)	7714147 € 91.80 Ø 107
	DELTA SYSTEM MHR CLUTCH BELL + ADJUSTABLE CLUTCH	5214738 € 156.00 Ø 107
	ROLLER CRANKCASE GEAR-BOX COVERS	2514521 € 95.00
	GEARS HTQ PRIMARY	COUPLING PRESSED Ø 17 67 9080 € 60.41 z 14/39
	GEARS HTQ PRIMARY	COUPLING PRESSED Ø 17 6713339 € 61.71 z 15/38
	GEARS HTQ SECONDARY	COUPLING PRESSED Ø 17 67 9966 € 65.00 z 13/48
	ENERGY PUMP WATER PUMP	5616363 € 123.00
	MUDGUARD	4517008 € 66.00
	AIR FORCE New C/RC-One crankcase cover with kit starter	5717218 € 160.00

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MALOSSI

Supplementary elements RC-ONE - Engine Crankcase

RC-ONE
5716668

YAMAHA-
MINARELLI
WHEEL 12/13

SUGGESTED STEP

	CILINDRO FLANGED MOUNT Ø 52 CORSA 44 mm	3115883 € 437.00
	ALBERO MOTORE RHO SP. Ø 13 CORSA 44 mm BIELLA 90	5316029 € 465.00
	SCOOTER RACING MHR TEAM Ø 52	3217320 € 366.18
	IMPIANTI ALIMENTAZIONE VHST Ø 28 TEAM	1616276 € 251.86
	ACCENSIONE ROTORE INTERNO	5514691 € 328.50
	ACCENSIONE ROTORE INTERNO TEAM	5515001 € 350.00
	OVER RANGE	6114219 € 262.65
	MULTIVAR TEAM VARIATORE	5112645 € 77.25
	X K BELT CINGHIA	6114118 € 38.25
	REAR PULLEY SYSTEM PULEGGIA POSTERIORE	6113101 € 174.40
	OVER RANGE ALUMINUM	6115781 € 365.00
	MULTIVAR ALUMINUM VARIATORE	5115644 € 87.55
	X K BELT TEAM ALUMINUM	6115668 € 44.88
	REAR PULLEY SYSTEM ALUMINIUM PULEGGIA POSTERIORE	6114582 € 275.31
	VENTILVAR SEMIPULEGGIA	6115790 € 36.72
	TORSION CONTROLLER	2512828 € 4.45
	DELTA CLUTCH FRIZIONE REGOLABILE	52 7880 € 77.89
	WING CLUTCH BELL CAMPANA FRIZIONE (ANELLO ALETTATO)	7714147 € 91.80 Ø 107
	DELTA SYSTEM MHR CAMPANA + FRIZIONE REGOLABILE	5214738 € 156.00 Ø 107
	ROLLER CRANKCASE CARTER INGRANAGGI	2514521 € 95.00
	INGRANAGGI HTQ PRIMARI CAL. FORZATO Ø 17	67 9080 € 60.41 z 14/39
	INGRANAGGI HTQ PRIMARI CAL. FORZATO Ø 17	6713339 € 61.71 z 15/38
	INGRANAGGI HTQ SECONDARI CAL. FORZATO Ø 17	67 9966 € 65.00 z 13/48
	ENERGY PUMP POMPA ACQUA	5616363 € 123.00
	PARAFANGO	4517008 € 66.00
	AIR FORCE New C/RC-One crankcase cover with kit starter	5717218 € 160.00

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