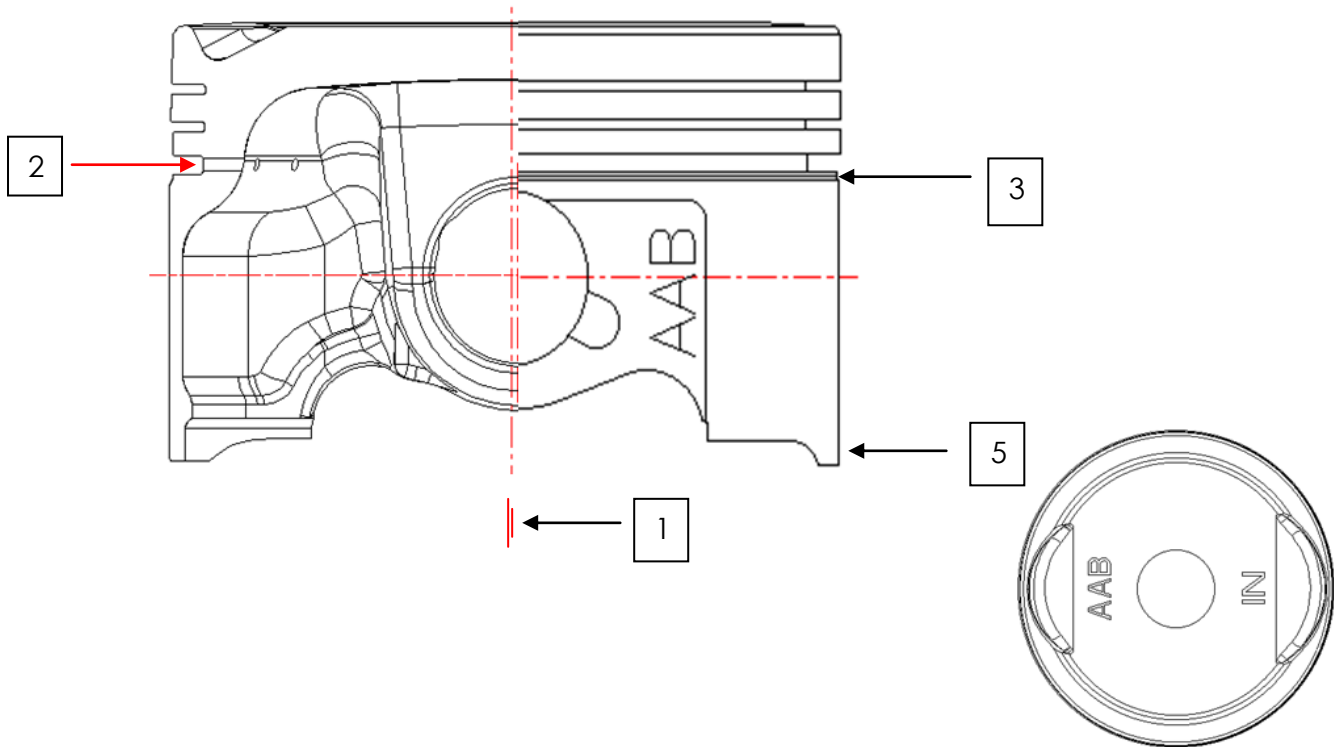


TECHNICAL BULLETIN - HERO CBZ XTREME/ SPORTS PISTON ASSEMBLY

USHA is pleased to introduce **HERO CBZ Xtreme/ Sports** piston assembly in our Bi-wheeler product range.

This piston assembly has following special features:-



PISTON:

Unique features of USHA HERO CBZ Xtreme/ Sports piston are as under:-

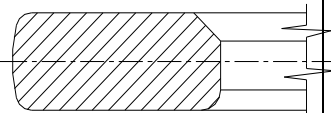
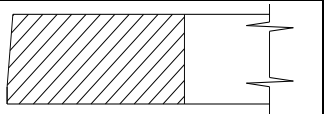
S.No.	SPECIAL FEATURES	BENEFITS TO CUSTOMERS
1)	PISTON- PIN BORE OFFSET: This Piston is provided with a piston pin bore offset to avoid piston slap. Piston pin bore offset means that the centre line of piston is slightly offset from the centre line of pin bore. Due to this offset, piston tilts at TDC & BDC smoothly and prevents slapping with liner.	<ul style="list-style-type: none"> • Reduced engine noise.
2)	OIL HOLES IN OIL RING GROOVE	<ul style="list-style-type: none"> • Faster drainage of excess oil. • Lesser oil consumption.
3)	CHAMFER AT BOTTOM FLANK OF OIL RING GROOVE	<ul style="list-style-type: none"> • Better drainage of oil. • Reduction in skirt wear.
4)	SHALLOW GROOVES ON PISTON SKIRT	<ul style="list-style-type: none"> • Helps in retaining oil on skirt. • Reduced friction/skirt wear during piston movement.

5)	SLIPPER DESIGN: Slipper design in skirt helps in reducing piston weight & provides better guidance to the piston movement.	<ul style="list-style-type: none"> • Improved fuel efficiency. • Better guidance to rings. • Low noise during engine working.
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TECHNICAL DATA- HERO CBZ Xtreme/ Sports PISTON		
		USHA CODE→ S53
Nominal Bore Diameter	mm	57.30
Piston Diameter	STD Size mm	57.2875
Recommended Piston-Liner Clearance	mm	0.0125
Compression Height	mm	20.10
Total Height	mm	35.10
Piston Pin- Pin Bore Clearance	mm	+0.002 to +0.014 (Clearance Fit)

PISTON RINGS:

HERO CBZ Xtreme/ Sports piston is supplied with specially designed **HPVENT** ring set for low oil & fuel consumption. The technical details of HPVENT ring set are as under:-

TECHNICAL DATA- HERO CBZ Xtreme/ Sports RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevelled	0.8	0.10-0.25	4-10	Gas Nitriding	
Second	Special Steel Taper	0.8	0.10-0.25	4-10	Parkerised	
Oil Ring	RIKVENT	1.5	0.20-0.70 (Rails)	8-28	Chrome Plated/ Parkerised	