

SHRIRAM PISTONS & RINGS LTD.

MD: TS: 60/MAR'25

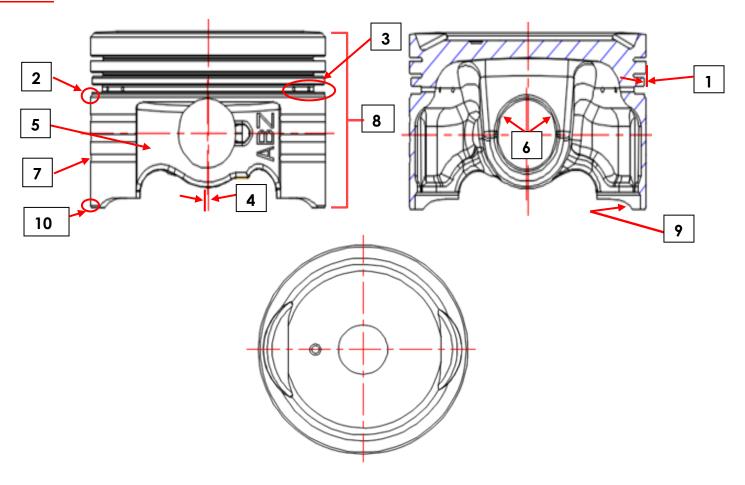
INTRODUCTION CIRCULAR - HERO XTREME 160cc BS VI 2V - PAS

USHA is pleased to launch 'HERO XTREME 160cc BS VI 2V' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

PISTON:-



Private & Confidential

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER		
1)	CUT BACK IN 2ND RING LAND: This piston has a cut back in second ring land for better seating, stability & functioning of intermediate ring.	Helps in controlling blow-by & reducing oil consumption		
2)	'J' CUT: An unique 'J' cut is provided below the oil ring groove area.	 Provides all time lubrication to piston skirt No piston seizure in extreme limits of normal working conditions 		
3)	HOLES IN OIL RING GROOVE AREA: 05 nos. of holes are provided in the oil ring groove on either side of piston skirt, half in groove & half in skirt.	Faster drainage of excess oilReduces oil consumption		
4)	PISTON - PIN BORE OFFSET: Piston is provided with 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 & prevents slapping with cylinder surface.	Reduced engine noise		
5)	AS CAST RELIEF IN PIN BORE AREA: As cast relief in pin bore area helps in faster drainage of oil towards sump & also avoids chances of seizure on minor axis.	Low oil consumptionLonger life		
6)	PIN BORE BROACHING: Double broach is done on either side, at the upper portion of the pin bore.	Relieves stress in pin boreImproves pin bore lubrication		
7)	ACCUMULATOR GROOVES IN SKIRT: 03 nos. of accumulator grooves are provided on either side of the piston skirt, which acts as an oil reservoir & facilitates all time lubrication to skirt.	Reduces skirt wearLow oil consumption		
8)	TIN PLATING: Entire piston surface is Tin plated. Tin plating is a slippery coating which helps in avoiding metal to metal contact during initial run-in period.	Reduces frictionAvoids piston scuffing		
9)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	Improves fuel efficiencyLow noise during engine working		
10)	SCRAPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	Helps in regulating oil supply, reduces skirt wear & hence longer life		

TECHNICAL DATA - 'HERO XTREME 160cc BS VI 2V' PISTON						
	USHA Code → NCS109					
Nominal Bore Diameter	57.30					
Piston Diameter	57.288					
Recommended Piston-Liner Clearance	0.012					
Compression Height	20.10					
Total Height	35.10					
Gudgeon Pin Length X OD	38.20 X 14.00					
All dimensions in 'mm'						

PISTON RINGS:-

USHA 'HERO XTREME 160cc BS VI 2V' piston is supplied with a unique 'HPVENT' ring set for low oil & fuel consumption. The technical details of 'HPVENT' ring set are as under:

TECHNICAL DATA - 'HERO XTREME 160cc BS VI 2V' - 'HPVENT' RINGS								
Б.	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface	0 0 1:		
Ring			(mm)	(Thou)	Treatment	Cross Section		
Тор	Steel Inside Bevel (HPIBGN)	0.80	0.10- 0.25	04-10	Gas Nitriding			
Second	Special Steel Taper (TSS)	0.80	0.25- 0.40	10-16	Parkerising			
Oil	RIKVENT	1.50	0.10- 0.40 (Rails)	04-16	Chrome Plated Rails/ Parkerising			

Above features make USHA 'HERO XTREME 160cc BS VI 2V' piston assembly unique, produced to give better performance & longer life.



Technical Product News is an exclusive update of product & information from

Shriram Pistons & Rings Ltd., 3rd Floor, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110001

Tel: 011-46451100, 23315941, Email: tss@shrirampistons.com, Website: www.shrirampistons.com