



SHRIRAM PISTONS & RINGS

MD: TS: 13/NOV'22

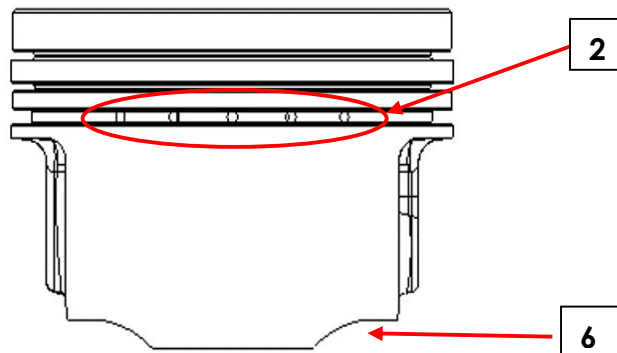
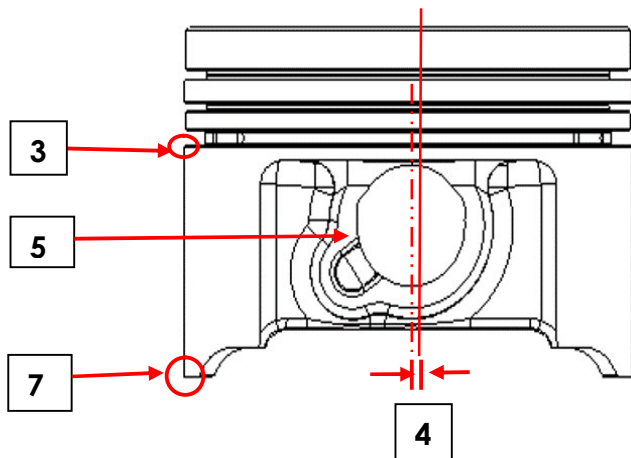
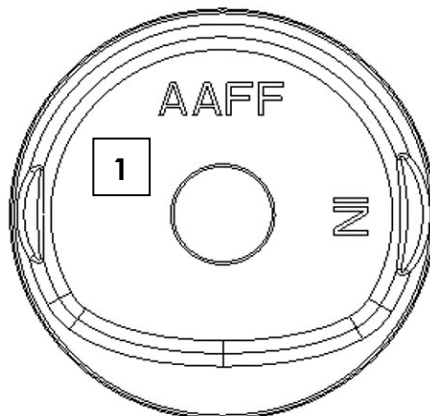
INTRODUCTION CIRCULAR – HERO PASSION PRO/XTEC BS-VI – PISTON ASSEMBLY

USHA is pleased to launch **Hero Passion PRO/ XTEC BS-VI** piston assembly in its Bi-wheeler product range in aftermarket.



This piston assembly has following special features:-

PISTON:-



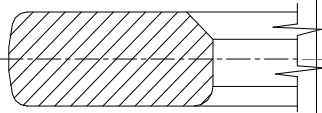

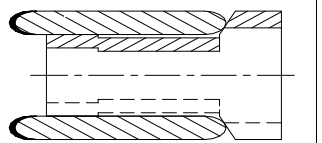
Unique features of USHA 'Hero Passion PRO/ XTEC BS-VI' piston are as follows:-

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	AS CAST CROWN: The crown of Hero Passion PRO/ XTEC BS-VI piston is not machined and is as cast. As cast crown has better grain structure which improves piston strength & heat resistance etc.	<ul style="list-style-type: none"> Improves piston life
2)	OIL HOLES IN RING GROOVE AREA: This piston has been provided with 05 nos. of oil holes on each side of piston, half in the oil ring groove & half in the skirt.	<ul style="list-style-type: none"> Faster drainage of excess oil Reduced oil consumption
3)	CHAMFER AT BOTTOM OF OIL RING GROOVE: Hero Passion PRO/ XTEC BS-VI piston has been provided with an all-round chamfer just below the oil ring groove area.	<ul style="list-style-type: none"> Provides all time lubrication to piston skirt No piston seizure in extreme limits of normal working conditions
4)	PISTON - PIN BORE OFFSET: This 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 liner.	<ul style="list-style-type: none"> Reduced engine noise
5)	AS CAST RELIEF IN PIN BORE AREA: Hero Passion PRO/ XTEC BS-VI piston is provided with as cast relief in pin bore area which helps in faster drainage of oil towards sump, avoiding chances of seizure on minor axis.	<ul style="list-style-type: none"> Low oil consumption Longer life
6)	SLIPPER DESIGN: This piston is provided with Slipper design which helps in reducing piston weight.	<ul style="list-style-type: none"> Improved fuel efficiency Low noise during engine working
7)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'HERO PASSION PRO/ XTEC BS-VI' PISTON		
USHA CODE → NCS80		
Nominal Bore Diameter	mm	50.000
Piston Diameter	STD Size mm	49.982
Recommended Piston-Liner Clearance	mm	00.018
Compression Height	mm	19.600
Total Height	mm	34.600
Gudgeon Pin OD X Length	mm	12.00 X 35.70

PISTON RINGS:-

USHA 'Hero Passion PRO/ XTEC BS-VI' 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 PASSION PRO/ XTEC BS-VI' – 'HPVENT' RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Inside Bevel Steel (HPIBGN)	0.80	0.10-0.25	04-10	Gas Nitriding	
Second	Taper Special Steel (CRTSS)	0.80	0.10-0.25	04-10	Chrome Plating/ Parkerising	
Oil	RIKVENT	1.50	0.20-0.70 (Rails)	08-28	Chrome Plated rails/ Parkerising	

Above features make USHA 'Hero Passion PRO/ XTEC BS-VI' piston assembly unique, produced to give better performance & longer life.



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