



## SHRIRAM PISTONS & RINGS

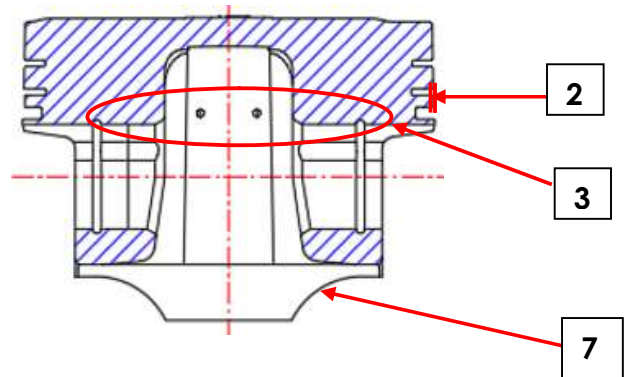
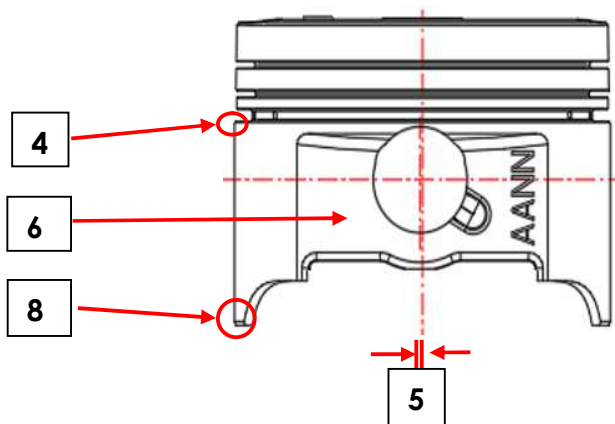
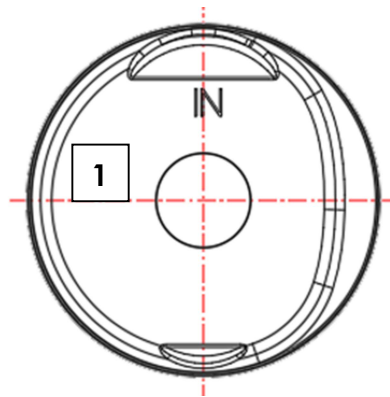
MD: TS: 21/JAN'23 INTRODUCTION CIRCULAR – HERO SUPER SPLENDOR/ GLAMOUR BS VI – PISTON ASSEMBLY

USHA is pleased to launch **Hero Super Splendor/ Glamour 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 Super Splendor/ Glamour BS-VI' piston are as follows:-

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	<b>AS CAST CROWN:</b> The crown of USHA Hero Super Splendor/ Glamour BS-VI piston is as cast. As cast crown has better grain structure which improves piston strength & heat resistance etc.	<ul style="list-style-type: none"> <li>Improves piston life</li> </ul>
2)	<b>CUT BACK IN SECOND RING LAND:</b> This piston is provided with a Cut back in second ring land for better seating, stability & functioning of intermediate ring.	<ul style="list-style-type: none"> <li>Helps in controlling blow-by &amp; reduces oil consumption</li> </ul>
3)	<b>OIL HOLES IN RING GROOVE AREA:</b> USHA Hero Super Splendor/ Glamour BS-VI piston has been provided with 04 nos. of holes in the oil ring groove on each side of piston skirt.	<ul style="list-style-type: none"> <li>Faster drainage of excess oil</li> <li>Reduced oil consumption</li> </ul>
4)	<b>CHAMFER AT BOTTOM OF OIL RING GROOVE:</b> This piston has an all-round chamfer just below the oil ring groove area.	<ul style="list-style-type: none"> <li>Provides all time lubrication to piston skirt</li> <li>No piston seizure in extreme limits of normal working conditions</li> </ul>
5)	<b>PISTON - PIN BORE OFFSET:</b> USHA Hero Super Splendor/ Glamour BS-VI 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"> <li>Reduced engine noise</li> </ul>
6)	<b>AS CAST RELIEF IN PIN BORE AREA:</b> This piston is provided with as cast relief in pin bore area which not only helps in faster drainage of oil towards sump but also in avoiding chances of seizure on minor axis.	<ul style="list-style-type: none"> <li>Low oil consumption</li> <li>Longer life</li> </ul>
7)	<b>SLIPPER DESIGN:</b> USHA Hero Super Splendor/ Glamour BS-VI piston is provided with Slipper design which helps in reducing piston weight.	<ul style="list-style-type: none"> <li>Improves fuel efficiency</li> <li>Low noise during engine working</li> </ul>
8)	<b>SCRAPPING CHAMFER:</b> A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> <li>Helps in regulating oil supply, reduces skirt wear &amp; hence longer life</li> </ul>

**TECHNICAL DATA – ‘HERO SUPER SPLENDOR/ GLAMOUR BS-VI’ PISTON**

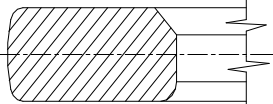

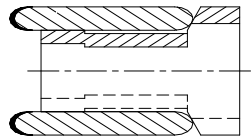
**USHA CODE → NCS81**

Nominal Bore Diameter	mm	52.40
Piston Diameter	STD Size mm	52.39
Recommended Piston-Liner Clearance	mm	00.01
Compression Height	mm	19.82
Total Height	mm	37.82
Gudgeon Pin OD X Length	mm	13.00 X 33.00

**PISTON RINGS:-**

USHA ‘Hero Super Splendor/ Glamour 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 SUPER SPLENDOR/ GLAMOUR BS-VI’ – ‘HPVENT’ RINGS**

Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevel (HPIBGN)	0.80	0.10-0.20	04-08	Gas Nitriding	
Second	Special Steel Taper (TSS)	0.80	0.20-0.30	08-12	Parkerising	
Oil	RIKVENT	1.50	0.10-0.40 (Rails)	04-16	Chrome Plated rails/ Parkerising	

Above features make USHA ‘Hero Super Splendor/ Glamour BS-VI’ piston assembly unique, produced to give better performance & longer life.



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