



SHRIRAM PISTONS & RINGS LTD.

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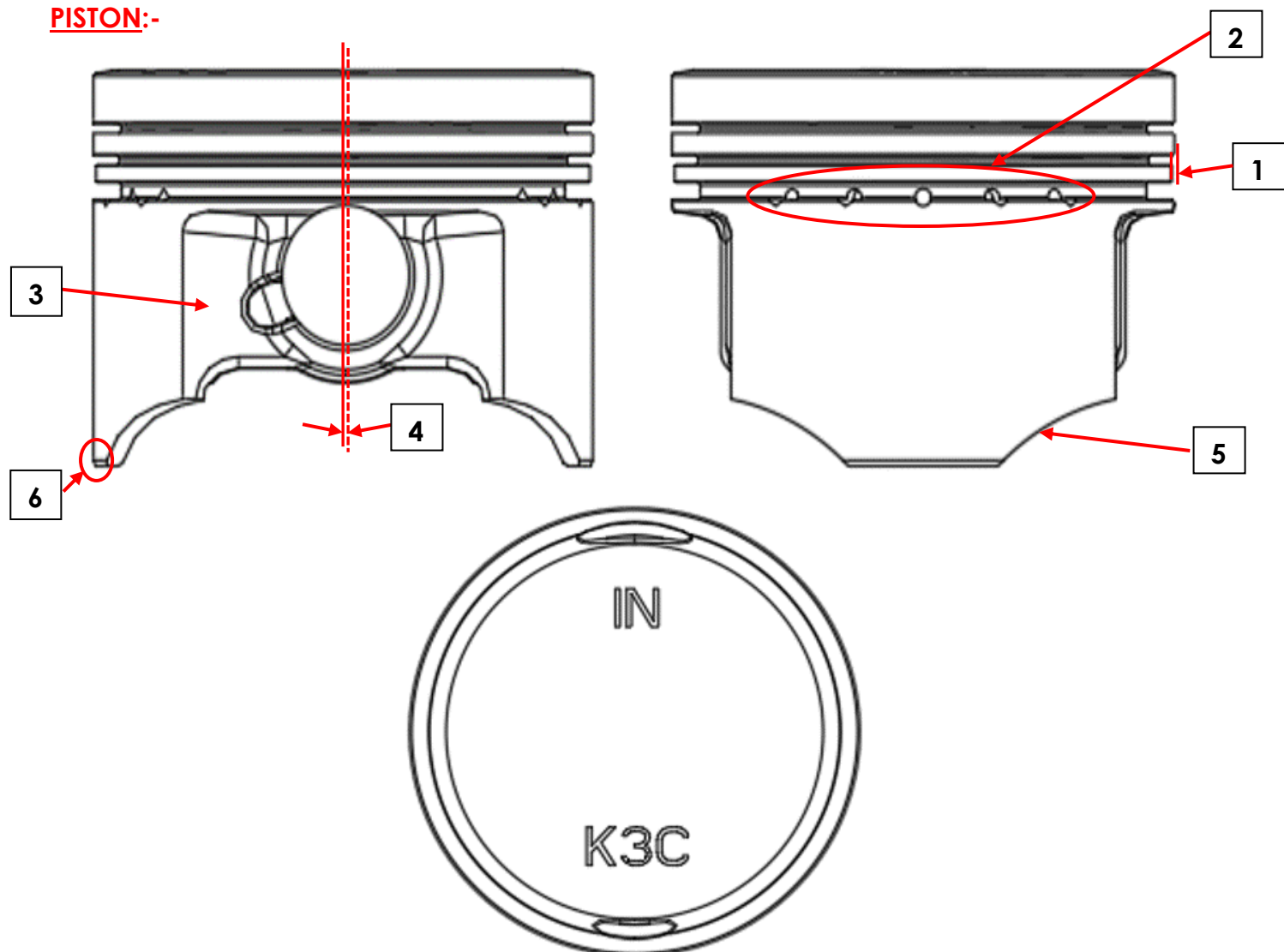
INTRODUCTION CIRCULAR – **HONDA SHINE 100 BS VI - PISTON ASSEMBLY**

USHA is pleased to launch '**HONDA SHINE 100 BS VI**' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

PISTON:-



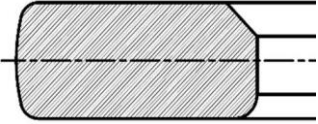

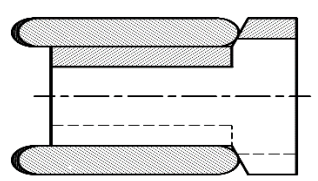
Unique features of USHA '**HONDA SHINE 100 BS VI**' piston are as follows: -

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.	<ul style="list-style-type: none"> Helps in controlling blow-by & reducing oil consumption
2)	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.	<ul style="list-style-type: none"> Faster drainage of excess oil Reduces oil consumption
3)	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.	<ul style="list-style-type: none"> Low oil consumption Longer life
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.	<ul style="list-style-type: none"> Reduced engine noise
5)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> Improves fuel efficiency Low noise during engine working
6)	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 – ' HONDA SHINE 100 BS VI ' PISTON	
USHA Code → NCS110	
Nominal Bore Diameter	47.00
Piston Diameter	46.987
Recommended Piston-Liner Clearance	0.013
Compression Height	17.40
Total Height	33.80
Gudgeon Pin Length X OD	33.30 X 12.00
All dimensions in 'mm'	

PISTON RINGS:-

USHA '**HONDA SHINE 100 BS VI**' piston is supplied with a unique '**3S VENT**' ring set for low oil & fuel consumption. The technical details of '**3S VENT**' ring set are as under:

TECHNICAL DATA – 'HONDA SHINE 100 BS VI' – '3S VENT' RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevel (HPIBGN)	0.80	0.10-0.25	04-10	Gas Nitriding	
Second	Steel Taper (HPCRT)	0.80	0.12-0.22	05-09	Chrome Plating/ Parkerising	
Oil	RIKVENT (IP)	1.50	0.10-0.35 (Rails)	04-14	Ion Plated Rails/ Parkerising	

Above features make USHA '**HONDA SHINE 100 BS VI**' piston assembly unique, produced to give better performance & longer life.



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