



SHRIRAM PISTONS & RINGS LTD.

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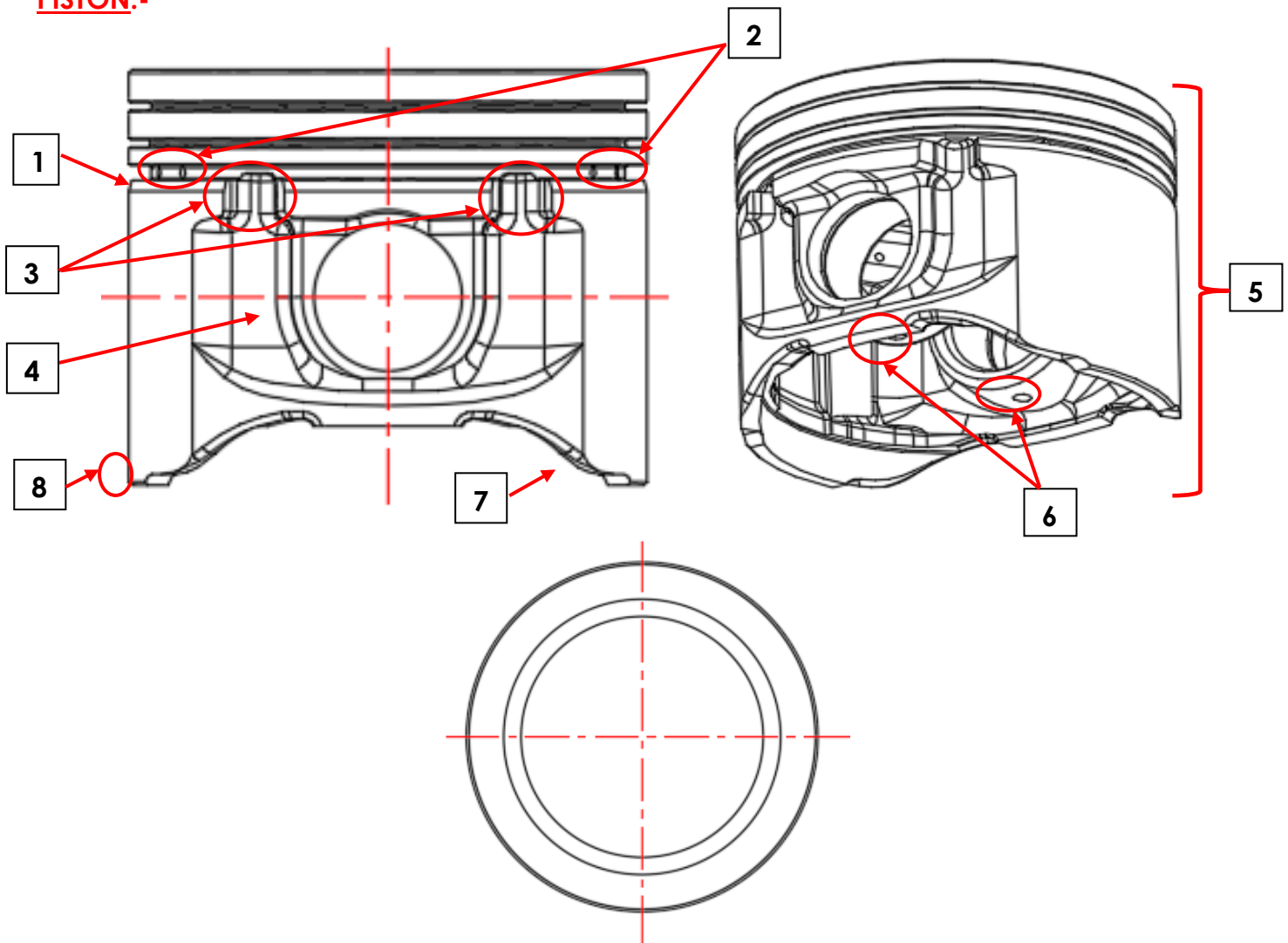
INTRODUCTION CIRCULAR – **ROYAL ENFIELD THUNDERBIRD/CLASSIC 350cc UCE - PISTON ASSEMBLY**

USHA is pleased to launch '**ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE**' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

PISTON:-



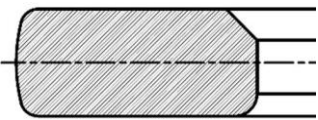

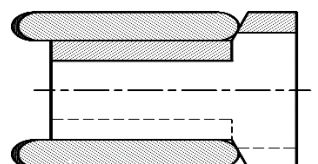
Unique features of USHA **'ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE'** piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer is provided 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
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)	QUICK OIL RETURN SLOTS (QORS): Two nos. of Quick Oil Return Slots (QORS) are provided on either side of piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> Quick drainage of oil, hence low oil consumption
4)	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
5)	PISTON SURFACE COMPLETELY BONDERISED:	<ul style="list-style-type: none"> Bonderising helps in preventing oxidation of piston Also provides porous surface for oil retention, thereby reducing wear
6)	HOLES IN PIN BOSS: An oil hole is provided on the either side of pin boss	<ul style="list-style-type: none"> Improves pin lubrication Reduces pin bore wear
7)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> Improves fuel efficiency Low noise during engine working
8)	SCRAPING 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 – 'ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE' PISTON	
USHA Code → NCS95	
Nominal Bore Diameter	70.00
Piston Diameter	69.94
Recommended Piston-Liner Clearance	0.06
Compression Height	30.85
Total Height	56.35
Gudgeon Pin Length X OD	47.00 X 20.00
All dimensions in 'mm'	

PISTON RINGS:-

USHA 'ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE' 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 – 'ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE – '3S VENT' RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevel (HPIBGN)	1.00	0.20-0.35	08-14	Gas Nitriding	
Second	Steel Taper (HPT)	1.00	0.25-0.40	10-18	Parkerising	
Oil	RIKVENT	2.00	0.20-0.70 (Rails)	08-28	Chrome Plated Rails/ Parkerising	

Above features make USHA 'ROYAL ENFIELD THUNDERBIRD/ CLASSIC 350cc UCE' piston assembly unique, produced to give better performance & longer life.



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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