

SHRIRAM PISTONS & RINGS LTD.

MD: TS: 61/MAR'25

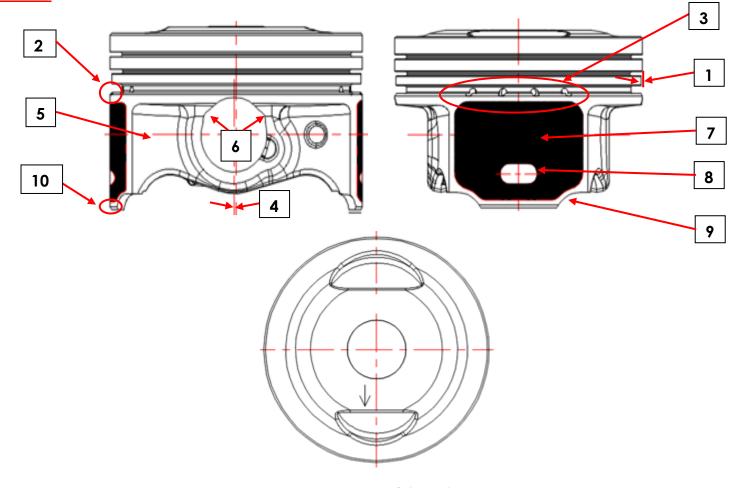
INTRODUCTION CIRCULAR - TVS JUPITER 125cc BS VI - PISTON ASSEMBLY

USHA is pleased to launch 'TVS JUPITER 125cc BS VI' 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)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer is provided just 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: 04 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)	'Nano-friKS COATING' ON PISTON SKIRT:	 Helps in initial lubrication & seizure free operation Better wear resistance Reduces engine noise 			
8)	MEASURING POINTS ON PISTON SKIRT:	Provided for easy diameter verification			
9)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	Improves fuel efficiencyLow noise during engine working			
10)	SCRAPPING 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 - 'TVS JUPITER 125cc BS VI' PISTON						
	USHA Code → NCS111					
Nominal Bore Diameter	53.50					
Piston Diameter	53.47					
Recommended Piston-Liner Clearance	0.030					
Compression Height	20.10					
Total Height	34.60					
Gudgeon Pin Length X OD	32.90 X 14.00					
All dimensions in 'mm'						

PISTON RINGS:-

USHA 'TVS JUPITER 125cc BS VI' piston is supplied with a unique '3SVENT' ring set for low oil & fuel consumption. The technical details of '3SVENT' ring set are as under:

TECHNICAL DATA - 'TVS JUPITER 125cc BS VI' - '3SVENT' RINGS									
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap (mm) (Thou)		Surface Treatment	Cross Section			
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Тор	Steel Inside Bevel (HPIBGN)	0.80	0.10- 0.25	04-10	Gas Nitriding				
Second	Steel Taper (HPCRT)	0.80	0.20- 0.35	08-14	Chrome Plating/ Parkerising				
Oil	RIKVENT	1.50	0.10- 0.60 (Rails)	04-24	Chrome Plating on Rails/ Parkerising				

Above features make USHA 'TVS JUPITER 125cc BS-VI' 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