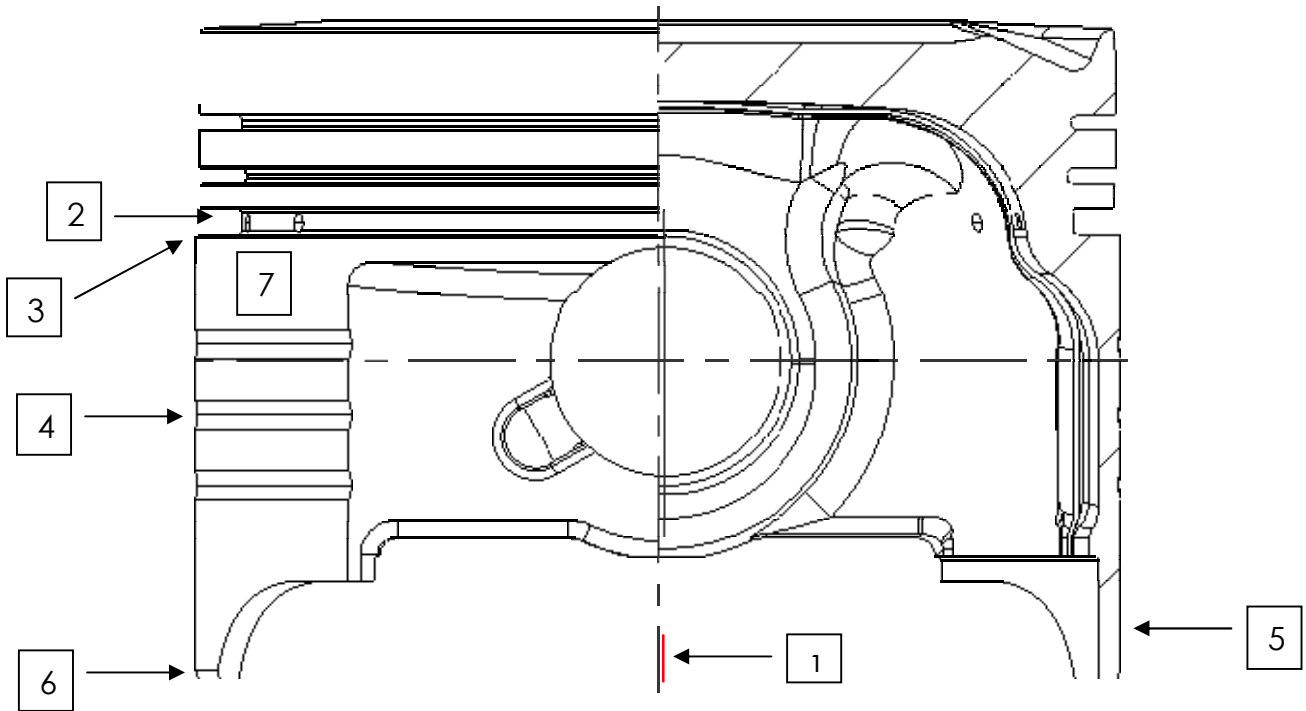


TECHNICAL BULLETIN- HONDA ACTIVA 125cc PISTON ASSEMBLY

USHA is pleased to introduce HONDA ACTIVA 125cc piston assembly in our range of two wheeler assemblies.

This piston assembly has following special features:

PISTON:



Unique features of USHA HONDA ACTIVA 125cc pistons are as follows:

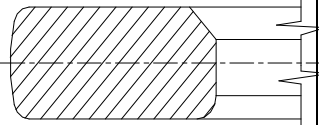
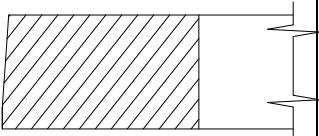
S.No.	SPECIAL FEATURES	BENEFITS TO CUSTOMERS
1)	PISTON- PIN BORE OFFSET: This Piston is provided with a piston pin bore offset to avoid piston slap. Piston pin bore offset means that the centre line of piston is slightly offset from the centre line of pin bore. Due to this offset, piston tilts at TDC smoothly & prevents slapping with liner.	<ul style="list-style-type: none"> • Reduced engine noise.
2)	OIL HOLES IN OIL RING GROOVE	<ul style="list-style-type: none"> • Faster drainage of excess oil. • Lesser oil consumption.
3)	CHAMFER AT BOTTOM FLANK OF OIL RING GROOVE	<ul style="list-style-type: none"> • Low oil consumption. • Reduction in skirt wear.
4)	SHALLOW GROOVES ON PISTON SKIRT	<ul style="list-style-type: none"> • Helps in retaining oil on skirt. • Reduced friction.
5)	SLIPPER DESIGN: Slipper design in skirt helps in reducing piston weight & provides better guidance during piston movement.	<ul style="list-style-type: none"> • Improved fuel efficiency. • Better guidance to rings. • Low noise during engine working.

6)	SCRAPER NOTCH: A scraper notch is provided at the open end of skirt which helps in better scraping of excess oil from cylinder walls.	<ul style="list-style-type: none"> • Lesser oil consumption.
7)	PISTON FULLY TIN PLATED: Entire piston surface is Tin plated. Tin plating is a slippery coating which avoids metal to metal contact during initial running-in period.	<ul style="list-style-type: none"> • Reduced Friction. • Avoids piston scuffing.

TECHNICAL DATA- HONDA ACTIVA 125cc PISTON		
		USHA CODE→ S39
Nominal Bore Diameter	mm	52.40
Piston Diameter	STD Size mm	52.38
Recommended Piston-Liner Clearance	mm	0.020
Compression Height	mm	19.10
Total Height	mm	37.10
Piston Pin- Pin Bore Clearance	mm	+0.00 to +0.008 (Clearance Fit)

PISTON RINGS:

USHA HONDA ACTIVA 125cc pistons are provided with unique design HPVENT ring set for low oil & fuel consumption. The technical details of HPVENT ring set are as under:-

TECHNICAL DATA- HONDA ACTIVA 125cc RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Inside Bevel Steel	0.8	0.10-0.25	4-10	Gas Nitriding	
Second	Taper Special Steel (RIK 20A)	0.8	0.10-0.25	4-10	Parkerised	
Oil Ring	RIKVENT	1.5	0.20-0.70 (Rails)	8-28	Chrome Plated/ Parkerised	