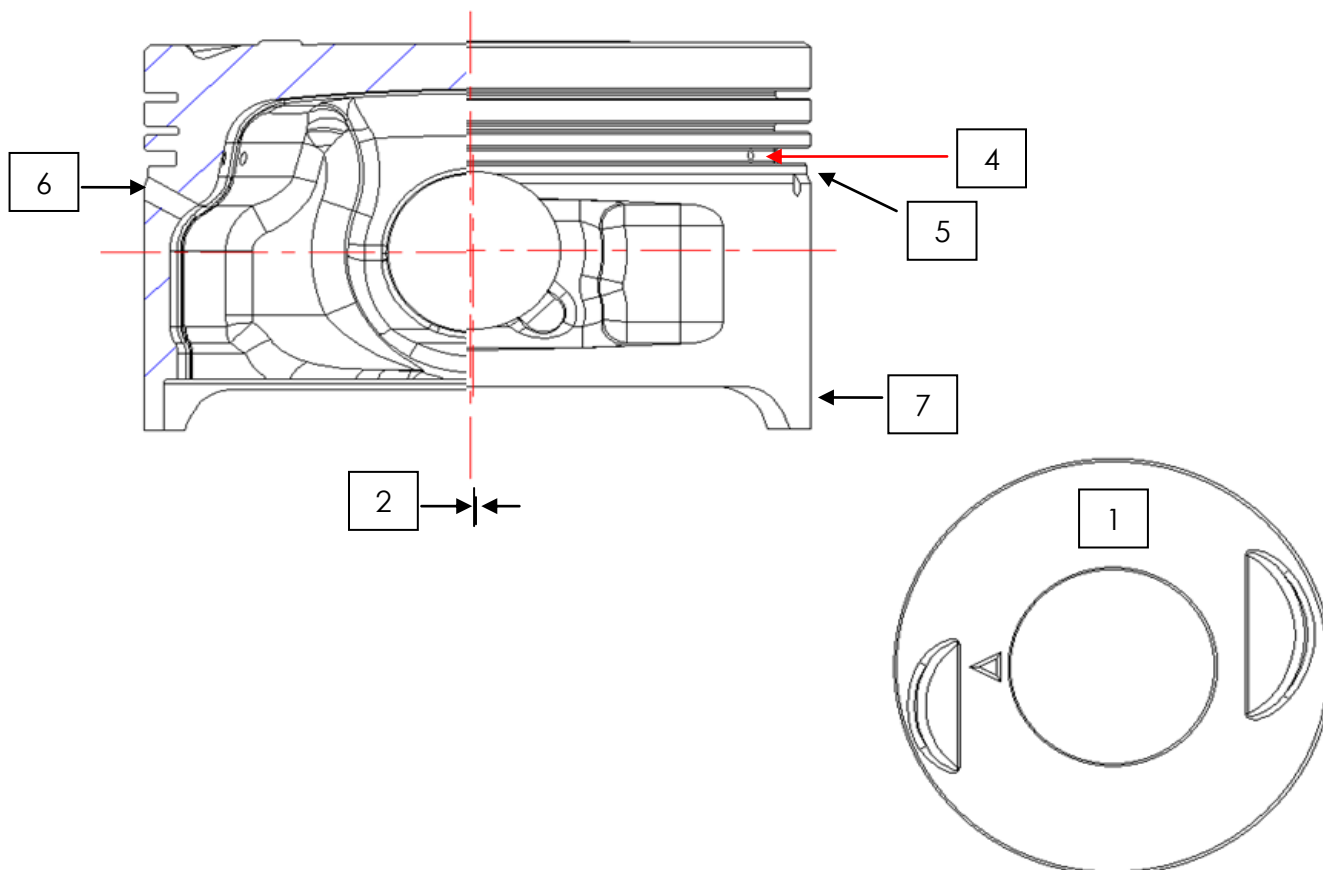


TECHNICAL PRODUCT NEWS- YAMAHA FAZER/FZ-16 PISTON ASSEMBLY

USHA is pleased to introduce YAMAHA FAZER/ FZ-16 piston assembly in our Bi-wheeler product range.

This piston assembly has following special features:



PISTON:

Unique features of USHA YAMAHA FAZER/FZ-16 piston are as follows:

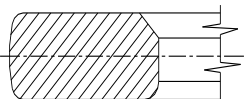
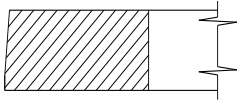
S.No.	SPECIAL FEATURES	BENEFITS TO CUSTOMERS
1)	AS CAST CROWN: USHA Yamaha Fazer/FZ-16 piston has as cast crown i.e. no machining is done on crown of piston. As cast crown has better grain structure which increases the strength, heat resistance etc. of the piston.	<ul style="list-style-type: none"> Increased piston life.
2)	PISTON- PIN BORE OFFSET: USHA Yamaha Fazer/FZ-16 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.

3)	TIN PLATING: Entire piston surface is tin plated. Tin plating is a slippery coating which helps in avoiding metal to metal contact during initial running-in period.	<ul style="list-style-type: none"> • Reduced friction. • Avoids piston scuffing.
4)	OIL HOLES IN RING GROOVE:	<ul style="list-style-type: none"> • Faster drainage of excess oil. • Lesser oil consumption.
5)	“J” CUT: This piston has been provided with a unique “J” cut below the oil ring groove area.	<ul style="list-style-type: none"> • “J” cut provides all time lubrication to piston skirt area. • No piston seizure in extreme limits of normal working conditions.
6)	OIL HOLES BELOW OIL RING GROOVE:	<ul style="list-style-type: none"> • Faster drainage of excess oil. • Low oil consumption.
7)	SLIPPER DESIGN: Slipper design in piston skirt helps in reducing piston weight & provides better guidance to the piston movement.	<ul style="list-style-type: none"> • Improved fuel efficiency. • Better guidance to rings. • Low noise during engine working.

TECHNICAL DATA- YAMAHA FAZER/ FZ-16 PISTON		
		USHA CODE→ S42
Nominal Bore Diameter	mm	58.00
Piston Diameter	STD Size mm	57.975
Recommended Piston-Liner Clearance	mm	0.025
Compression Height	mm	19.90
Total Height	mm	36.90
Piston Pin- Pin Bore Clearance	mm	+0.008 to +0.016 (Clearance Fit)

PISTON RINGS:

Yamaha Fazer/ FZ-16 piston is supplied with a unique design HPVENT ring set for low oil & fuel consumption. The technical details of HPVENT ring set are as under:-

TECHNICAL DATA- YAMAHA FAZER/ FZ-16 - 'HPVENT' 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 Nitrided	
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	