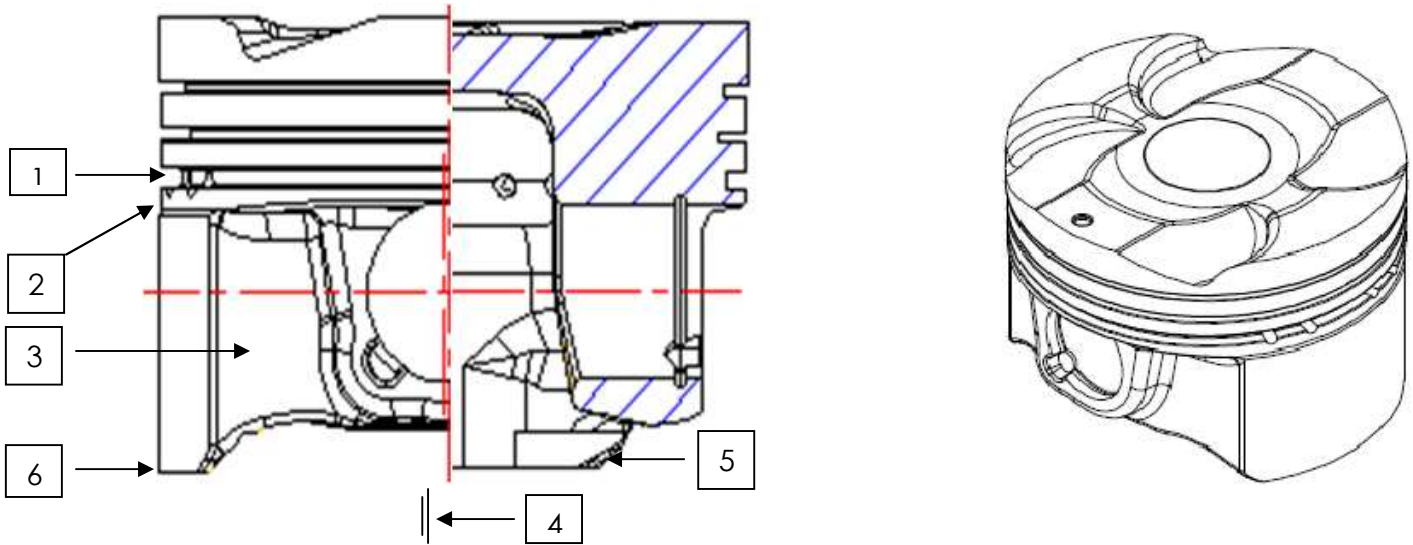


TECHNICAL BULLETIN- MARUTI EECO PISTON ASSEMBLY

USHA is pleased to introduce MARUTI EECO pistons & ring sets in our Car product range.

PISTON:



Unique features of USHA MARUTI EECO piston are as follows:

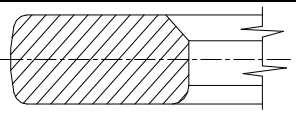
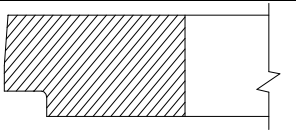
S.No.	SPECIAL FEATURES	BENEFITS TO CUSTOMERS
1)	OIL HOLES IN RING GROOVE	<ul style="list-style-type: none"> Faster drainage of excess oil. Lesser oil consumption.
2)	“J” CUT: This piston has been provided with a unique ‘J’ cut below the oil ring groove area.	<ul style="list-style-type: none"> ‘J’ cut provides all time lubrication to piston skirt area. No piston seizure in extreme limits of normal working conditions.
3)	AS CAST RELIEF IN PIN BORE AREA: These pistons are provided with as cast relief in pin bore area which helps in better drainage of oil.	<ul style="list-style-type: none"> Lesser oil consumption
4)	PISTON-PIN BORE OFFSET: USHA Maruti EECO pistons are 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.

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. It helps in better scrapping of excess oil from cylinder walls.	<ul style="list-style-type: none"> Lesser oil consumption.

TECHNICAL DATA- MARUTI EECO PISTON		
USHA CODE→ C15		
Nominal Bore Diameter	mm	71.00
Piston Diameter	STD Size mm	70.98
Recommended Piston-Liner Clearance	mm	0.020
Compression Height	mm	29.05
Total Height	mm	48.05
Piston Pin- Pin Bore Clearance	mm	+0.005 to +0.016 (Clearance Fit)

PISTON RINGS:

MARUTI EECO pistons are supplied with unique design HPVENT ring sets for low oil & fuel consumption. The technical details of HPVENT ring set are as under:-

TECHNICAL DATA- MARUTI EECO RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Inside Bevel Steel	1.20	0.15-0.30	6-12	Gas Nitrided	
Second	Taper O.D Step	1.20	0.20-0.35	8-14	Parkerised	
Oil Ring	RIKVENT	2.00	0.20-0.70 (Rails)	8-28	Parkerised Rails with Chrome Plating	