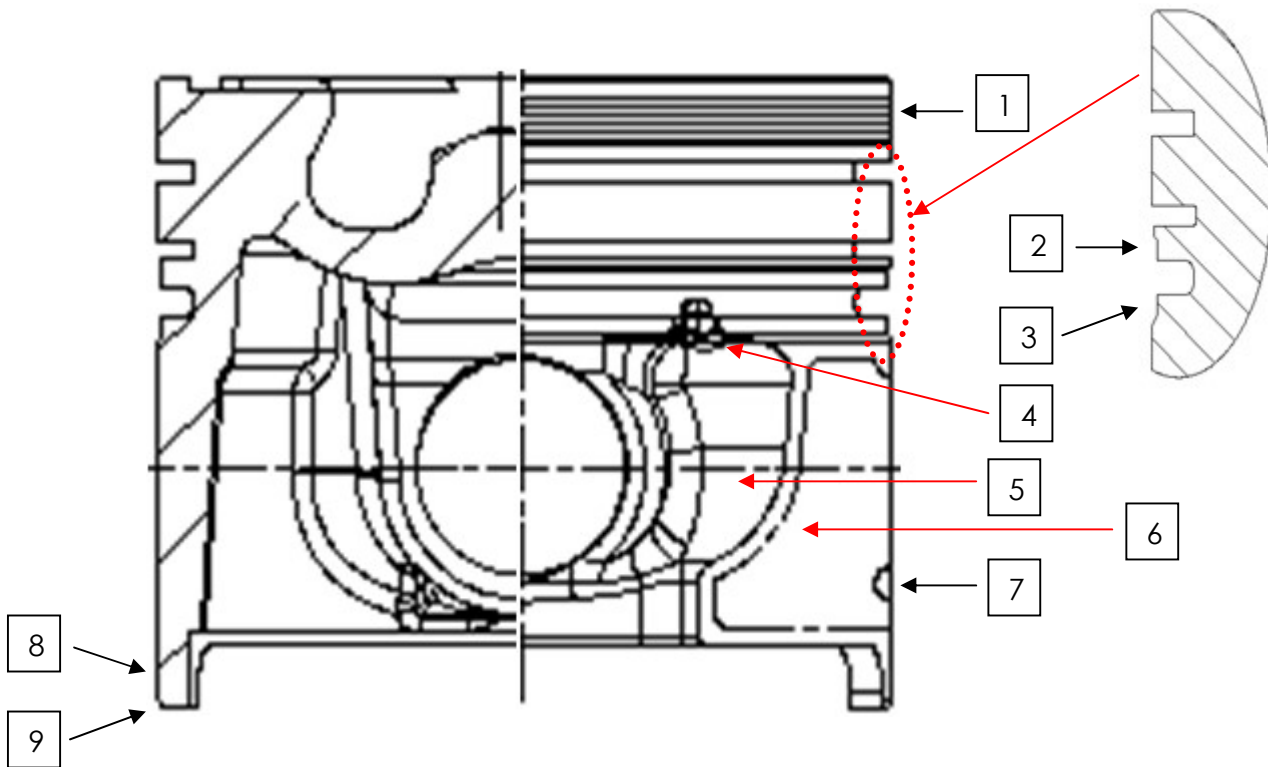


TECHNICAL BULLETIN- TATA ACE ZIP/MAGIC IRIS PISTON SET

USHA is pleased to introduce TATA Ace Zip/Magic Iris piston set in our SCV product range.

Unique features of USHA Tata Magic Iris/Zip piston are as follows:



Sl. no.	Special Features	Benefits to Customer
1	SERRATIONS: These are shallow grooves which act as heat dam to reduce heat at the top groove.	<ul style="list-style-type: none"> Serrations help in preventing blow-by, thereby reducing chances of top land scuffing.
2	STEP CUT IN SECOND RING LAND: Provides perfect seating of the top ring on the bottom surface.	<ul style="list-style-type: none"> Helps in reducing blow-by. Helps in reducing oil consumption.
3	"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 on skirt. No piston seizure in extreme limits of normal working conditions.

4	QUICK OIL RETURN SLOTS (QORS): Two nos. of Quick Oil Return Slots (QORS) are provided on each side of the piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> • Quick drainage of oil and hence lower oil consumption.
5	AS CAST HYDRODYNAMIC WINDOW: New hydrodynamic 'As Cast' window designed by our collaborator, not only provides more space for oil drainage, but also provides more skirt area for piston ring guidance.	<ul style="list-style-type: none"> • Faster oil drainage due to more space helps in reducing oil consumption. • Better guidance to rings also helps in reducing oil consumption.
6	SKIRT COATED WITH "NANOFRIKS" COATING	<ul style="list-style-type: none"> • Nanofriks is a permanent coating which provides better wear resistance & helps in initial lubrication to avoid piston scuffing/seizure etc.
7	MEASURING POINTS ON THE SKIRT: Two points on both sides of the skirt.	<ul style="list-style-type: none"> • Provided for easy diameter verification.
8	SLIPPER DESIGN: Slipper design skirt provides better guidance during piston movement.	<ul style="list-style-type: none"> • Low noise during engine working. • Better guidance to rings. • Better fuel and engine oil economy.
9	BOTTOM CHAMFER: A smooth chamfer is provided at the bottom end of piston which provides better hydrodynamic oil film.	<ul style="list-style-type: none"> • Helps in reducing skirt wear & regulates oil supply. • Longer life.

TECHNICAL DATA- TATA ACE MAGIC IRIS/ZIP PISTON		
		USHA Code → C09
Nominal Bore Diameter	mm	92.00
Piston Diameter	STD Size mm	91.90
Recommended Piston-Liner Clearance	mm	0.100
Compression Height	mm	47.00
Total Height	mm	76.00
Piston Pin-Pin Bore Clearance	mm	+0.006 to +0.017 (Clearance Fit)

For better performance and low oil consumption we recommend customers to use our Tata Ace Zip/Magic Iris piston set with 'SSTR' ring set already introduced by us.