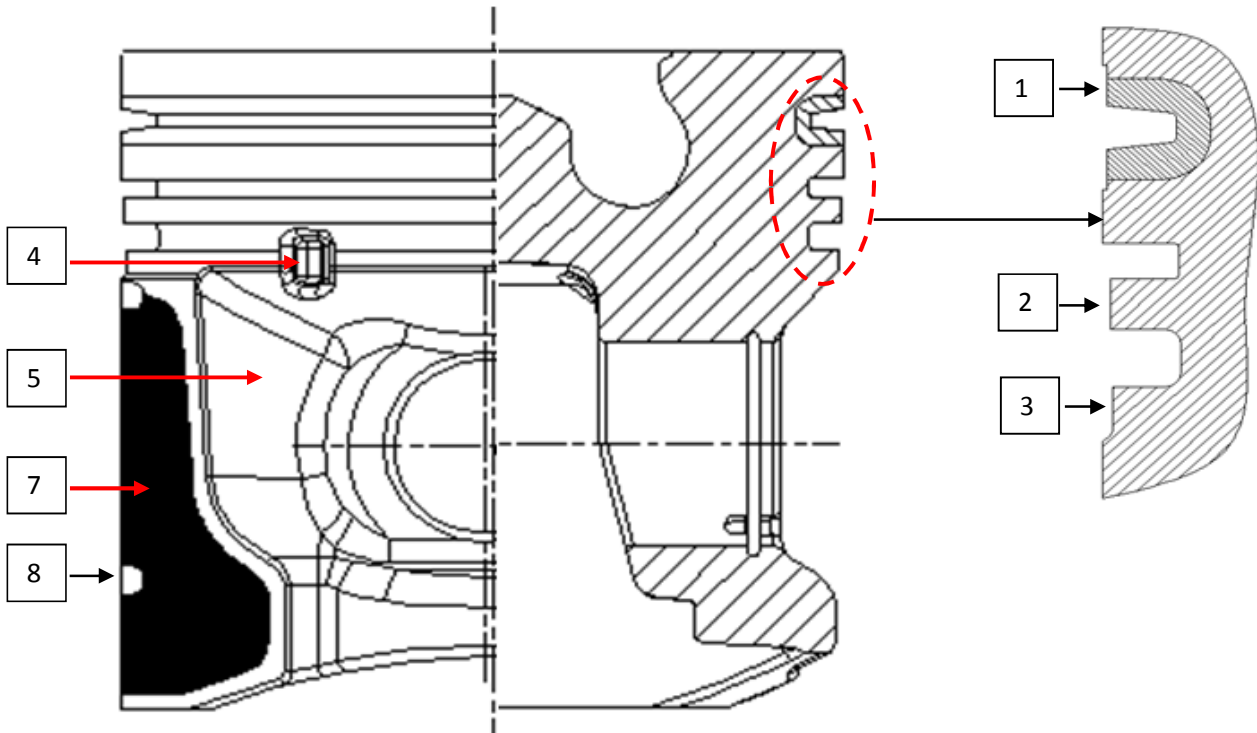


Technical Bulletin – MAHINDRA ARJUN

USHA is pleased to introduce Mahindra Arjun piston. This piston is suitable for Mahindra Arjun 445 & 605 tractors.

PISTON



Special features of this piston are as follows :-

Sl. no.	Special Features	Benefits to Customer
1	HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP): Top groove of this piston is made of high wear resistant ring carrier insert, which is manufactured as per latest centrifugal casting process.	<ul style="list-style-type: none"> • Longer life of piston due to negligible wear of top groove
2	CUT BACK IN SECOND RING LAND: Provides perfect seating of the second ring on the bottom surface.	<ul style="list-style-type: none"> • Helps in reducing oil consumption • Helps in reducing blow-by
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
6	PISTON SURFACE COMPLETELY BONDERISED	<ul style="list-style-type: none"> • Bonderising helps in preventing oxidation of piston
7	SKIRT COATED WITH NEW "D-10" COATING	<ul style="list-style-type: none"> • D-10 permanent coating provides better wear resistance & helps in initial lubrication to avoid piston scuffing/seizure etc.
8	MEASURING POINTS ON THE SKIRT: Two points on both sides of the skirt.	<ul style="list-style-type: none"> • Provided for easy diameter verification
9	SLOT FOR OIL COOLING JET	<ul style="list-style-type: none"> • Keeps the under crown of the piston cool for longer life

TECHNICAL DATA- MAHINDRA ARJUN PISTON		
USHA CODE → T19		
Nominal Bore Diameter	mm	94.00
Piston Diameter	STD Size mm	93.90
Recommended Piston-Liner Clearance	mm	0.100
Compression Height	mm	53.96
Total Height	mm	89.96
Piston Pin- Pin Bore Clearance	mm	+0.004 to +0.015 (Clearance fit)

PISTON RINGS

The piston is designed to match with our existing **Mahindra Scorpio 'SSPR'** ring set for low oil consumption & blow-by.