



SHRIRAM PISTONS & RINGS LTD.

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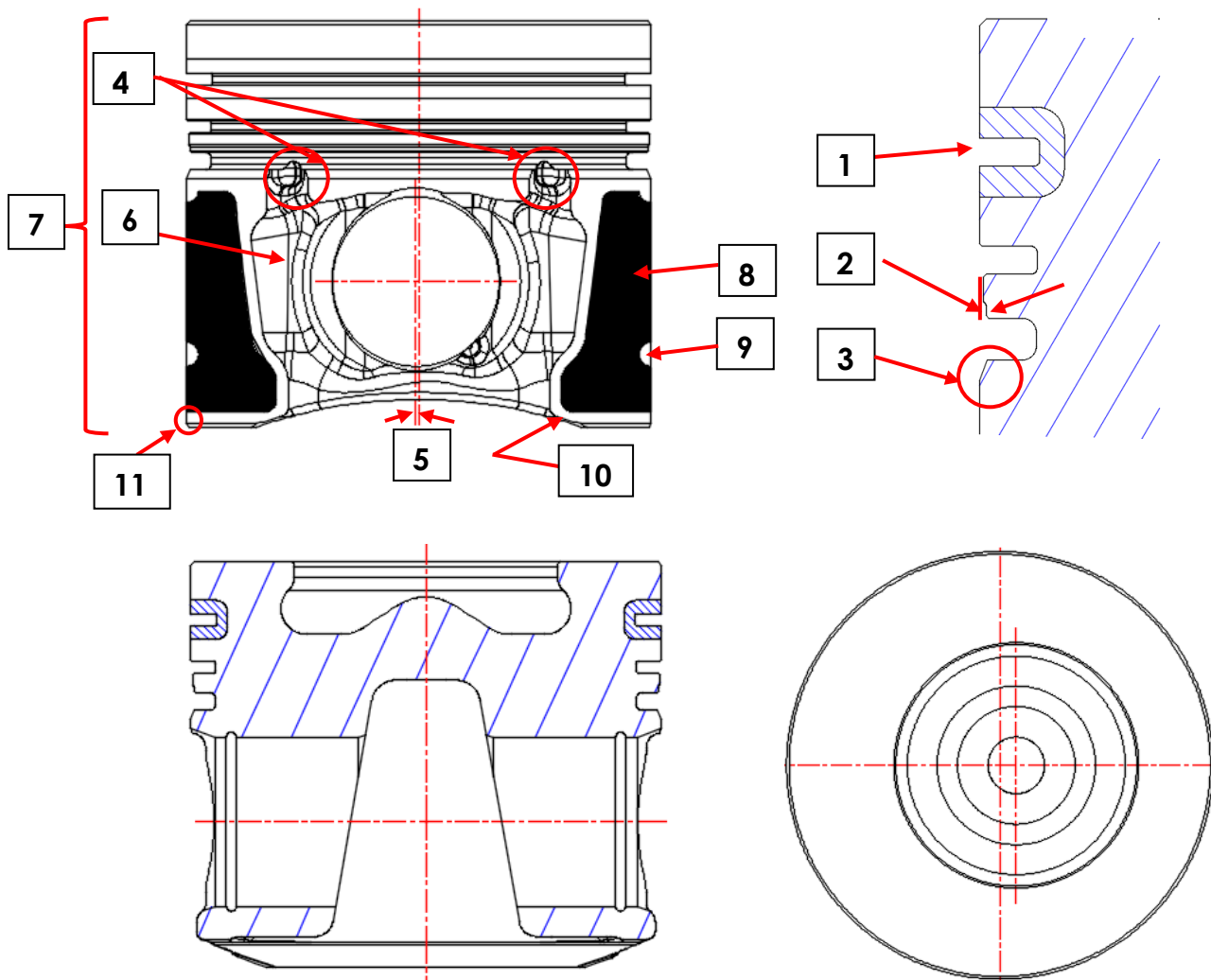
INTRODUCTION CIRCULAR – TATA ACE MEGA DICOR TCIC- PISTON SET

USHA is pleased to launch 'TATA ACE MEGA DICOR TCIC' piston set in its aftermarket SCV product range.



This piston set has following special features: -

PISTON:



Unique features of USHA 'TATA ACE MEGA DICOR TCIC' piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP): Top groove of this piston is made of high nickel wear resistant ring carrier insert, which is manufactured using latest centrifugal casting technology.	<ul style="list-style-type: none"> • Longer life of piston due to negligible wear of top groove
2)	STEP CUT IN 2ND RING LAND: This piston is provided with a step cut in second ring land for better seating, stability & functioning of intermediate ring.	<ul style="list-style-type: none"> • Helps in controlling blow-by & reduces oil consumption
3)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer is provided just below the oil ring groove area.	<ul style="list-style-type: none"> • Provides all time lubrication to piston 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 either side of piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
5)	PISTON - PIN BORE OFFSET: 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 & BDC smoothly, that prevents slapping with liner.	<ul style="list-style-type: none"> • Reduced engine noise
6)	AS CAST HYDRODYNAMIC WINDOW: New hydrodynamic 'as cast' window not only provides more space for oil drainage, but also provides more skirt area for piston ring guidance & acts as reservoir for oil.	<ul style="list-style-type: none"> • Faster heat dissipation from pin bore area reduces chances of seizure at minor axis
7)	PISTON SURFACE COMPLETELY BONDERISED:	<ul style="list-style-type: none"> • Bonderising helps in preventing oxidation of piston • Also provides porous surface for oil retention, thereby reducing wear
8)	'Nano-friKS COATING' ON PISTON SKIRT:	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise
9)	MEASURING POINTS ON PISTON SKIRT:	<ul style="list-style-type: none"> • Provided for easy diameter verification
10)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> • Improved fuel efficiency • Low noise during engine working
11)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of piston skirt.	<ul style="list-style-type: none"> • Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'TATA ACE MEGA DICOR TCIC' PISTONUSHA Code → **C25**

Nominal Bore Diameter	78.00
Piston Diameter	77.95
Recommended Piston-Liner Clearance	0.05
Compression Height	43.00
Total Height	67.00
Gudgeon Pin Length X OD	63.0 X 28.0
All dimensions in 'mm'	

Above features make USHA 'TATA ACE MEGA DICOR TCIC' piston set unique, produced to give better performance & longer life especially when fitted with our 'CPC DHCR' ring set (USHA Code: **C25**).



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