



SHRIRAM PISTONS & RINGS LTD.



MD: TS: 05/JUN'26

INTRODUCTION CIRCULAR- **TATA INTRA V20 1.2L CNG – PISTON SET**

USHA is pleased to launch **TATA INTRA V20 1.2L CNG** piston set in its aftermarket SCV/ Car/ PV product range.

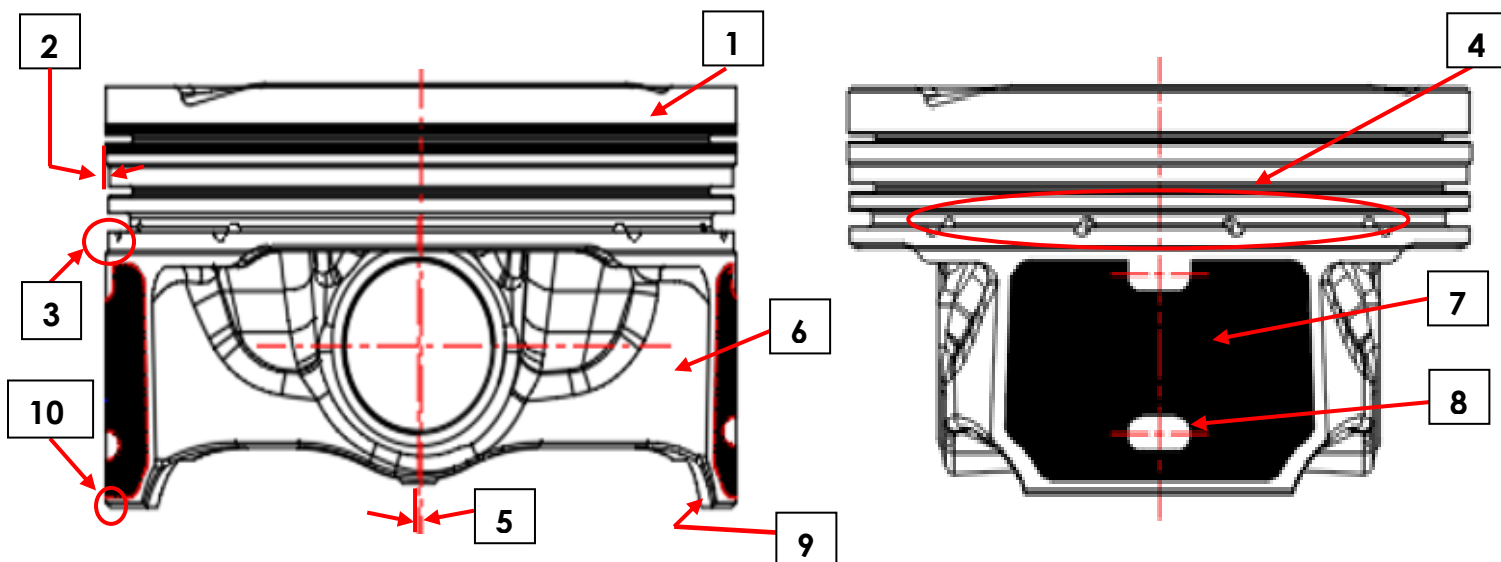


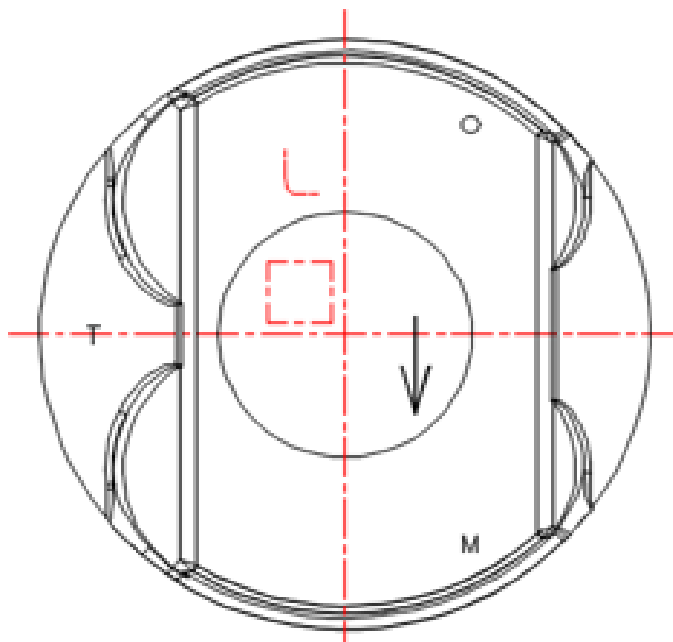
This piston set is common for **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR CNG** models.



This piston set has following special features: -

PISTON:-





Unique features of USHA **TATA INTRA V20 1.2L CNG** piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	HARD ANODIZED TOP GROOVE: This piston is provided with hard anodizing in top groove to withstand higher engine temperature for better wear & scuff resistances.	- Increased piston life. - Prevents ring micro-welding/ stickiness in the groove for better performance, hence low oil consumption
2)	STEP CUT IN 1ST RING LAND: This piston has a step cut in first ring land for better seating, stability & functioning of top ring.	Helps in controlling blow-by
3)	'J' CUT: Piston has been provided with a unique 'J' cut below the oil ring groove area.	- Provides all time lubrication to piston skirt - No piston seizure in extreme limits of normal working conditions
4)	HOLES IN OIL RING GROOVE AREA: 04 nos. of holes are provided in the oil ring groove on either side of piston skirt, half in skirt & half in ring groove.	- Faster drainage of excess oil - Reduces oil consumption
5)	PISTON-PIN BORE OFFSET: The piston is provided with a 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 & prevents slapping with liner.	Reduced engine noise

6)	AS CAST RELIEF IN PIN BORE AREA: As cast relief in pin bore area helps in faster drainage of oil towards sump & also avoids chances of seizure on minor axis.	• Low oil consumption • Longer life
7)	'Nano-friKS COATING' ON PISTON SKIRT:	• Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise
8)	MEASURING POINTS ON PISTON SKIRT:	• Provided for easy diameter verification
9)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	• Improves fuel efficiency • Low noise during engine working
10)	SCRAPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	• Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – TATA INTRA V20 1.2L CNG PISTON (Ø 77.00 mm)	
USHA CODE→ SS0-C76	
Nominal Bore Diameter	77.00
Piston Diameter	76.96
Recommended Piston-Liner Clearance	0.04
Compression Height	27.30
Total Height	44.30
Gudgeon Pin Length X OD	47.00 X 18.00
All dimensions in 'mm'	

Above features make USHA **TATA INTRA V20 1.2L CNG** piston set unique, produced to give better performance & longer life especially when fitted with USHA **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT' (USHA Code: CS0-C51)** ring set, released by us.



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