



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 32/NOV'24

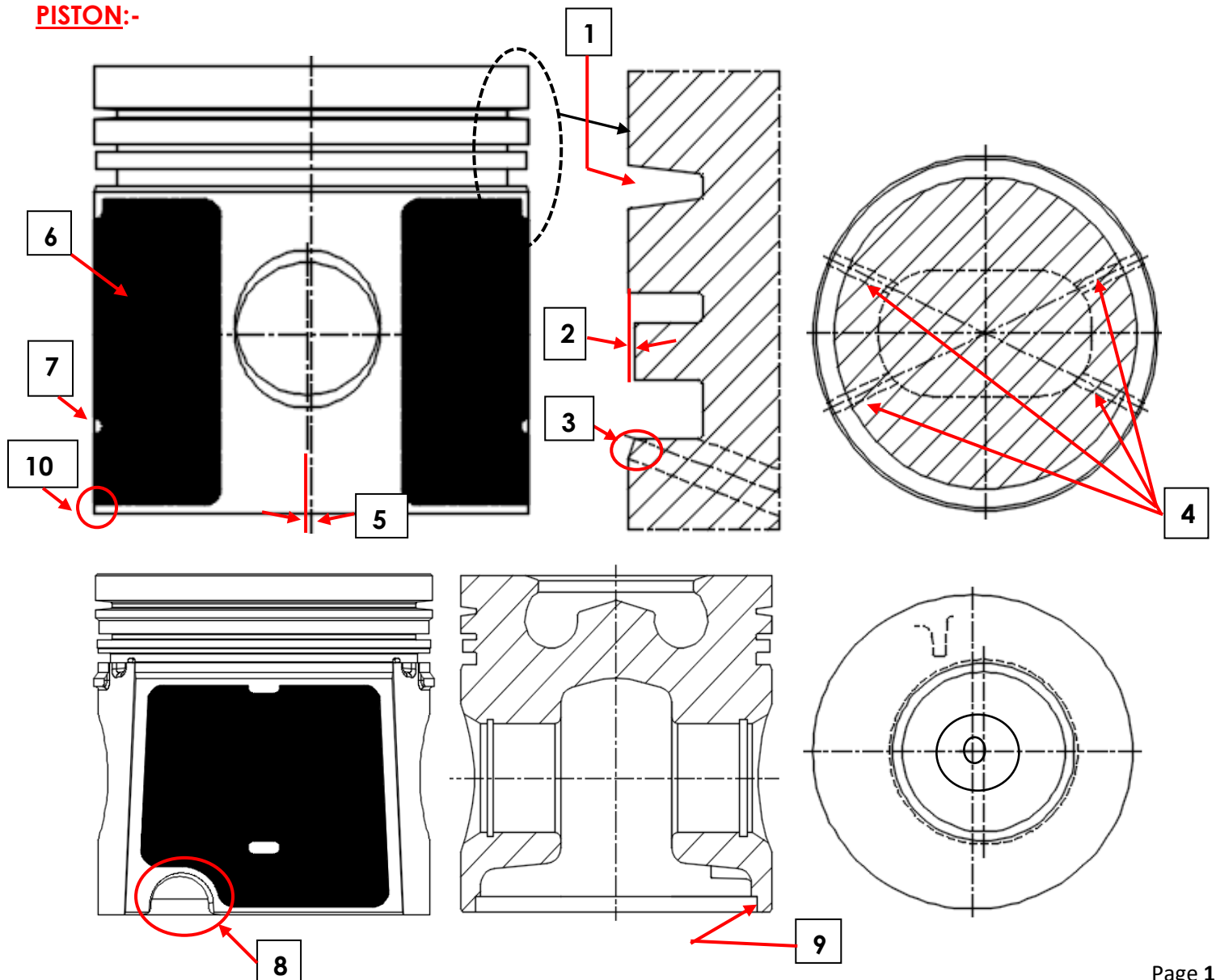
INTRODUCTION CIRCULAR – JCB 105mm TC - PISTON SET

USHA is pleased to launch **JCB 105mm TC (Turbo-Charged)** piston set in its aftermarket Construction / Off-road equipment product range.



This piston set has following special features: -

PISTON:-



Unique features of USHA **JCB 105mm TC** piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	TOP KEYSTONE RING GROOVE GEOMETRY: Helps in squeezing out excess oil from the groove preventing carbon deposition & sludge formation.	Longer life of piston due to negligible wear of top groove
2)	CUT BACK IN 2nd RING LAND: This piston is provided with a cut back in second ring land for better seating, stability & functioning of intermediate ring.	Helps in controlling blow-by & reducing oil consumption
3)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer is provided just 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: 02 nos. of holes are provided in the oil ring groove on either side of piston skirt, half in groove & half in skirt.	- Faster drainage of excess oil - Reduces oil consumption
5)	PISTON - PIN BORE OFFSET: Piston is provided with 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 & prevents slapping with cylinder surface.	Reduces engine noise
6)	'Nano-friKS COATING' ON PISTON SKIRT:	- Helps in initial lubrication & seizure free operation - Better wear resistance - Reduces engine noise
7)	MEASURING POINTS ON PISTON SKIRT:	Provided for easy diameter verification
8)	SLOT FOR PISTON COOLING NOZZLE (PCN) JET: Provides room for oil cooling jet.	- Helps in directing oil flow underneath piston combustion cavity results in faster dissipation of heat - Additional reduction in piston weight improves fuel efficiency
9)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	- Improves fuel efficiency - Low noise during engine working
10)	SCRAPPING 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 – JCB 105mm TC PISTON	
USHA CODE→ T42	
Nominal Bore Diameter	105.00
Piston Diameter	104.87
Recommended Piston-Liner Clearance	0.13
Compression Height	65.00
Total Height	108.00
Gudgeon Pin Length X OD	85.10 X 35.00
All dimensions in 'mm'	

Above features make USHA **JCB 105mm TC** piston set unique, produced to give better performance & longer life.



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