



SHRIRAM PISTONS & RINGS

MD: TS: 07/OCT'22

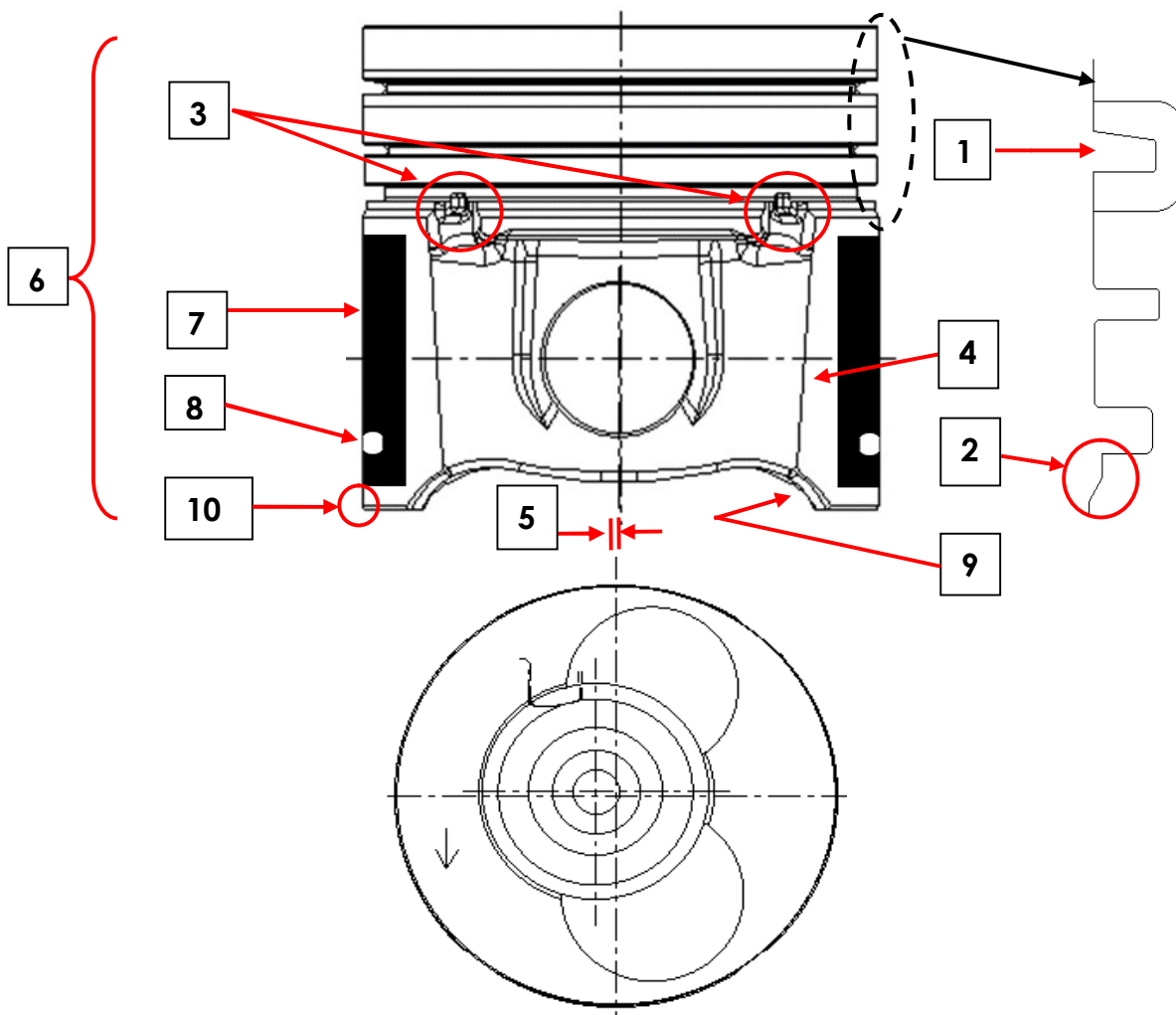
INTRODUCTION CIRCULAR – **ESCORTS FT-98 – PISTON SET**

USHA is pleased to launch **Escorts FT-98** piston set in its Tractor product range.



This piston set has the following special features:

PISTON:



Unique features of USHA 'Escorts FT-98' piston are as follows:-

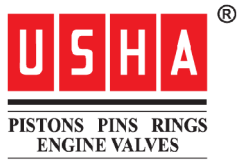
SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP): Top groove of USHA Escorts FT-98 piston is made of high nickel wear resistant ring carrier insert which is manufactured using latest centrifugal casting technology.	<ul style="list-style-type: none"> • Longer life of piston due to negligible wear of top groove
2)	'J' CUT: This piston has been provided with a unique 'J' cut just below the oil ring groove area.	<ul style="list-style-type: none"> • 'J' cut provides all time lubrication to piston skirt • No piston seizure in extreme limits of normal working conditions
3)	QUICK OIL RETURN SLOTS (QORS): USHA Escorts FT-98 piston has been provided with two nos. of Quick Oil Return Slots (QORS) on either side of the piston above pin bore, half in groove & half in window.	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
4)	AS CAST CONVERGENT WINDOW: This not only gives more space for oil drainage but the unique convergent type design also provides more bearing area to the piston skirt. More bearing area on skirt helps in well guided movement of piston rings.	<ul style="list-style-type: none"> • Faster oil drainage, hence low oil consumption • Seizure on minor axis is avoided, hence longer piston life
5)	PISTON - PIN BORE OFFSET: USHA Escorts FT-98 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)	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 piston wear
7)	'D-10 COATING' ON PISTON SKIRT: USHA Escorts FT-98 piston is provided with 'D-10' coating on its skirt.	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise
8)	MEASURING POINTS ON PISTON SKIRT: Two points on both sides of piston skirt.	<ul style="list-style-type: none"> • Provided for easy diameter verification
9)	SLIPPER DESIGN: USHA Escorts FT-98 piston is provided with Slipper design which helps in reducing piston weight & provides better guidance to its movement.	<ul style="list-style-type: none"> • Improved fuel efficiency • Better guidance to rings • Low noise during engine working
10)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> • Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'ESCORTS FT-98' PISTON

USHA CODE → T38

Nominal Bore Diameter	mm	98.00
Piston Diameter	STD Size mm	97.89
Recommended Piston-Liner Clearance	mm	00.11
Compression Height	mm	62.45
Total Height	mm	90.95
Piston Pin diameter X length	mm	28.00 X 64.00
Piston Pin- Pin Bore Clearance	mm	+0.013 to +0.019 (Clearance fit)

Above features make USHA 'Escorts FT-98' piston set unique, produced to give better performance & longer life.



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