



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 22/SEP'24

INTRODUCTION CIRCULAR – TATA ACE GOLD DIESEL 'CPC DHCR' - RING SET

USHA is pleased to launch **TATA ACE GOLD DIESEL 'CPC DHCR'** ring set in its SCV aftermarket product range.


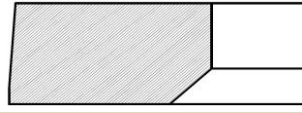
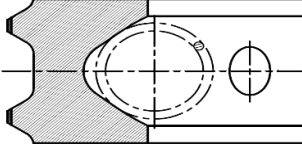
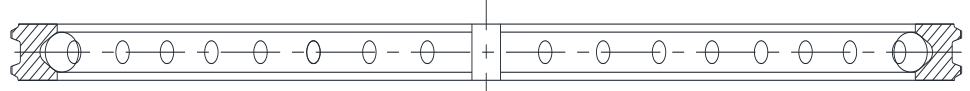


This ring set has following special features:

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
TOP RING	Special Steel Composite Plating of Chrome (SSCPC)	Special Steel Material (RIK-20A)	Top ring is manufactured using special steel alloy (RIK-20A) material which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear.
		CPC Coating	CPC is a specialized process of first plating the ring OD with chrome, then creating cracks, then filling up hard particles (Al ₂ O ₃) in these cracks. This process is repeated many times building one layer above another. CPC rings have higher wear & scuff resistance under all working conditions.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.
2 nd RING	Reverse Torsion (RT)	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.
		Inside bevel on lower face	Ring has a bevel cut on lower inside face due to which ring twists in anti-clockwise direction during suction stroke which locks the groove to minimize blow-by & restricts upward movement of oil towards combustion chamber.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
OIL RING	Spring Loaded Drilled Hole Chrome (DHCR)	Highly Conformable	This ring has capability to conform itself to the varying wear pattern of the bore which ensures perfect sealing & excellent oil scraping for lower oil consumption.

		Lands Chrome plated & Profile Ground	Ring lands are made uniform throughout the periphery for effective sealing and efficient scraping of oil due to sharper scraping edges. Chrome plating provides excellent wear & corrosion resistance.
		Multiple Oil Drainage Slots	Ensures easier & faster drainage of oil towards sump.
		Excellent Flatness	Side faces of DHCR oil ring remain flat and do not swell as in case of normal cast iron oil ring for a free movement in groove.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.

Technical data of **TATA ACE GOLD DIESEL 'CPC DHCR'** ring set is as under:

TECHNICAL DATA- TATA ACE GOLD DIESEL 'CPC DHCR' - RING SET (ø 75.00 mm)						
						USHA Code → L44
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	SSCPC	1.50	0.20-0.40	08-16	Composite Plating of Chrome/ Parkerising	
2 nd	RT	1.50	0.40-0.60	16-24	Parkerising	
Oil	DHCR	2.00	0.25-0.50	10-20	Chrome Plating on Lands/ Parkerising	
						

USHA **TATA ACE GOLD DIESEL 'CPC DHCR'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



Technical Product News is an exclusive update of product & information from
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