



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 41/JAN'25

INTRODUCTION CIRCULAR – JCB 3DX- 'CPC' RING SET

USHA is pleased to launch **JCB 3DX 'CPC'** ring set in its aftermarket Construction/ Off-road equipment product range.

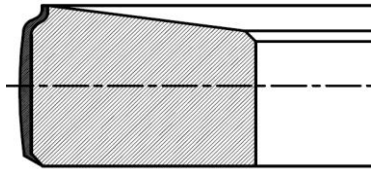
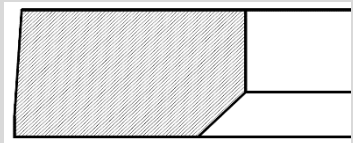
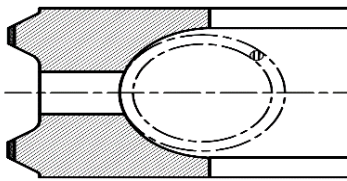


This ring set has following special features:

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Special Steel Half Keystone Composite Plating of Chrome {K _H SSCPC}	Special Steel Material (RIK-20A)	Top ring is manufactured using special steel alloy which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear etc.
		Half Keystone Geometry	Upper side of top ring has taper face which helps in squeezing out excess oil from the groove preventing carbon deposition & sludge formation. Bottom side is kept flat which enables better seating, resulting in lesser blow-by.
		CPC Coating	CPC is a specialized process of first plating the ring OD with chrome, 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 & 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 avoid blow-by & upward movement of oil.

		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
Oil Ring	Spring Loaded Chrome Plated Cast Iron Profile Ground HTCR (PGV)	Highly Conformable	Ring is provided with a coil spring making it highly conformable with the bore ensuring perfect sealing & excellent oil scraping at all times.
		Chrome Plated & Profile Ground Ring Lands	Ring lands are made uniform throughout the periphery for an effective sealing and efficient scraping of oil due to its sharper edges. Chrome plating provides excellent wear & scuff resistance.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.

Technical data of **JCB 3DX 'CPC'** ring set is as under:

TECHNICAL DATA- JCB 3DX- 'CPC' RING SET (Ø 106.00 mm)						
						USHA Code → T40
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	KHSSCPC	3.04	0.25-0.45	10-18	CPC Coating/ Parkerising	
2 nd	RT	2.50	0.50-0.70	20-28	Parkerising	
Oil	HTCR (PGV)	4.00	0.30-0.55	12-22	Chrome Plated lands/ Parkerising	

USHA **JCB 3DX 'CPC'** 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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