



## SHRIRAM PISTONS & RINGS LTD.

MD: TS: 19/SEP'24

INTRODUCTION CIRCULAR- **M&M SCORPIO 2.2L mHAWK/XUV500 'CPC' - RING SET**

USHA is pleased to launch **Mahindra Scorpio 2.2L mHAWK/XUV500 Diesel 'CPC'** ring set in its aftermarket Car/MUV product range.

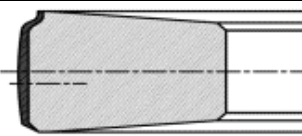
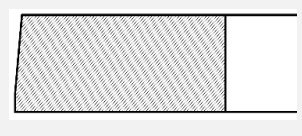
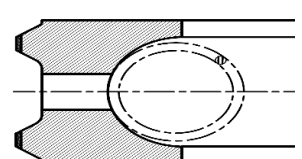


This ring set has following special features:

RING	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top	Keystone Special Steel Composite Plating of Chrome  KSSCPC	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.
		Keystone Geometry	Special keystone geometry keeps squeezing out excess oil from the groove, thereby minimizing chances of carbon deposition, sludge formation & prevents ring sticking in groove.
		Composite Plating of Chrome	CPC is a specialized process of first plating the ring OD with chrome, creating cracks & then filling up hard particles ( $Al_2O_3$ ) 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.

Second	Taper Compression  T	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
Oil	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 which ensures 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 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, hence lesser wear.

Technical data of **Mahindra Scorpio 2.2L mHAWK/XUV500 (D) 'CPC'** ring set is as under:

TECHNICAL DATA- MAHINDRA SCORPIO 2.2L mHAWK/XUV500 DIESEL 'CPC' RING SET (ø 85.00 mm)						
						<b>USHA Code → C40/C48</b>
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	KSSCPC	2.50	0.25-0.45	10-18	CPC/ Parkerising	
2 <sup>nd</sup>	T	2.00	0.40-0.60	16-24	Parkerising	
Oil	HTCR(PGV)	2.50	0.25-0.50	10-20	Chrome Plating on Lands/ Parkerising	

USHA **Mahindra Scorpio 2.2L mHAWK/XUV500 Diesel '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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