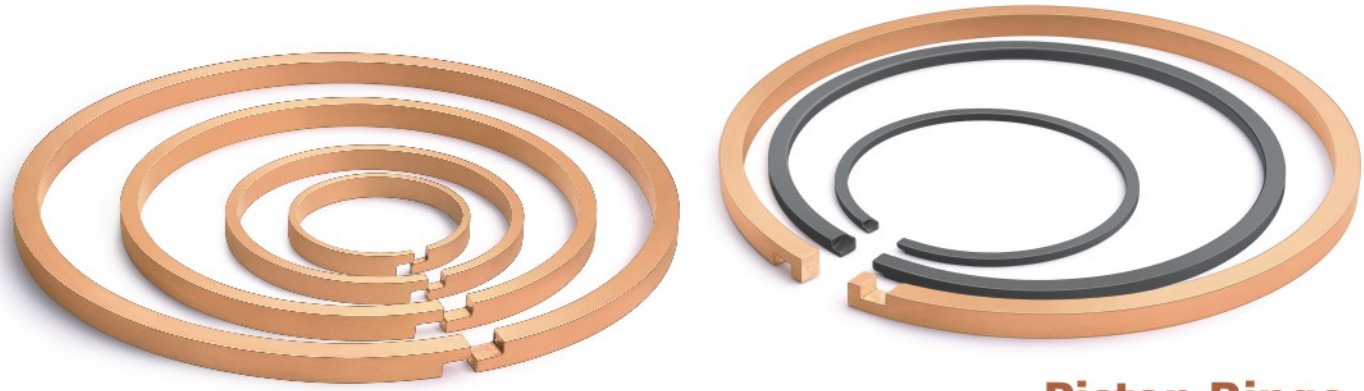
web : www.kunalconnectronics.com

Brand known for **innovation, quality and service.**

The ultimate workplace solutions by design....

Kunal Connectronics

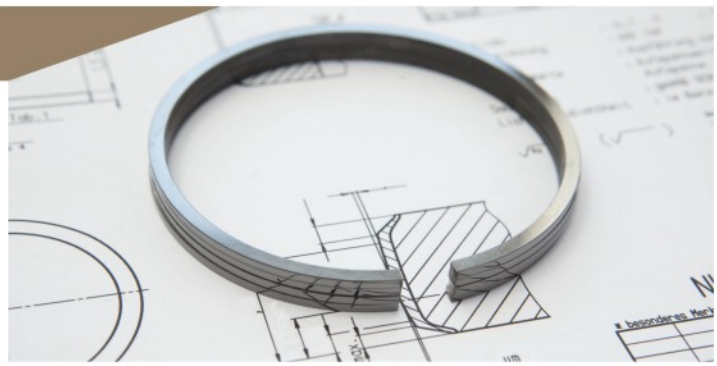


Piston Rings

Kunal Connectronics (KC) piston Rings supply worldwide quality products, alternative to original parts for piston rings and seals for marine industry, aerospace industry, pumps & compressors and the diesel locomotive industry, among many others. We continued to pioneer refinements in performance to keep pace with today's applications and customer needs. **Engines in the marine world run the gamut from gasoline to diesel, from small 2 strokes to newer 4 strokes, and marinized GM blocks to large bore diesels**.

Kunal connectronics (KC) has been an industry leader in the design and manufacture of piston rings for internal combustion engines. **Kunal connectronics supplies piston rings for most of the marine engine applications.** Our piston ring sets are engineered to maximize combustion efficiency and minimize oil consumption. KC piston rings are mathematically modeled for maximum efficiency then validated in our new engine test lab to meet expected performance levels. As a ISO-9001 registered company, kunaconnectronics has integrated quality assurance systems into all our processes, such as SPC, mistake proofing.

The oil is controlled by shearing the layer of the oil left by oil ring, thus providing the top compression rings enough lubrication. Moreover, it also provides help to the top compression ring in sealing and heat transfer.



Kunal Connectronics

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As a global manufacturer of turned components for commercial, industrial, hazardous and adverse environments, Kunal Connectronics offer durability, safety, quality, easy installation and global availability.

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Oil Control / Scrapper Rings

The oil control rings controls the amount of lubricating oil passing up or down the cylinder walls. These rings are also used to spread the oil evenly around the circumference of the liner. The oil is splashed onto the cylinder walls. These rings are also called scraper rings as they scrap the oil off the cylinder walls and send it back to the crankcase. These rings do not allow oil to pass from between the face of the ring and the cylinder.

Here are some reasons our customers choose KUNAL CONNECTRONICS over the competitors :

From rings ½ inch (12.7 mm) to over 39 inches (1000 mm) in diameter, KC is capable of manufacturing any ring for any application to meet your unique requirements. But more than a range of diameters, no matter what material or configuration, KC offers ring profiles and joint designs to fit the exact requirements of your applications.

Kunal connectronics manufactures piston rings in different types of material to suit the exact requirement of the machinery such as:

CAST IRON : Economical, excellent thermal conductivity, self-lubricating graphite flakes,good for less demanding applications

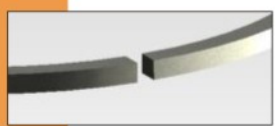
PREMIUM DUCTILE IRON : Stronger and more ductile than cast iron,withstands higher temperatures in higher performance.

STEEL : For the most demanding, or high temperature, high-stress, high-performance applications; allows for thinner and lighter ring designs that seal better at high rpms.

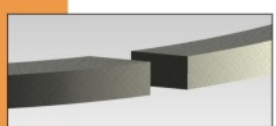
BRONZE : Bronze is another material suitable for a wide range of applications. A standard softer material, it is widely used in hydraulic, hydro-electric, and lock and dam applications. Less brittle than iron, it effectively co-deposits on the mating surface resulting in lower friction. Available in several grades.

Kunal connectronics will work with you to meet any special plating requirements you have. From manganese phosphate to chrome, our coatings will offer decreased friction and increased durability for the extended life of your product.

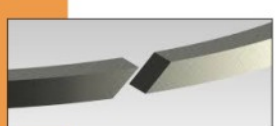
Selection of the proper ring gap configuration is important in sealing applications. Acceptable leakage rates, sizes of the rings and types of assembly are factors that help determine the proper gap configuration of our piston rings and seal rings. Shown here are the most common ring gap configurations. Please Contact us to inquire about a gap configuration not shown below:



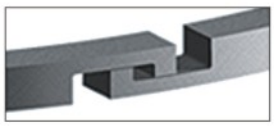
SQUARE CUT : The most practical and economical ring gaps. Recommended for most applications. Good leakage control.



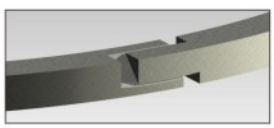
TITE JOINT : Sometimes applied to contracting and snap rings so that they can be easily removed from the groove.



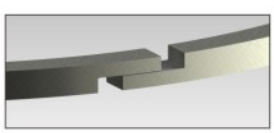
ANGLE CUT : Widely used on rotating seals. Rings should be oriented so the leading edge points in the direction of rotation. Rings with an angle gap decrease the tendency to score at the gap.



HOOK STEP : Used for blind assembly or when ring must pass ports in the cylinder wall. Limits free expansion.



MITRE STEP : The only single rings that have tighter leakage control than any other single ring. Used on larger diameter rings when using one ring per groove.



STEP CUT : Used where two rings per groove are not practical. The step cut is used to prevent a direct flow path between the piston and cylinder. Cross section must be larger to accommodate strength to the steps.