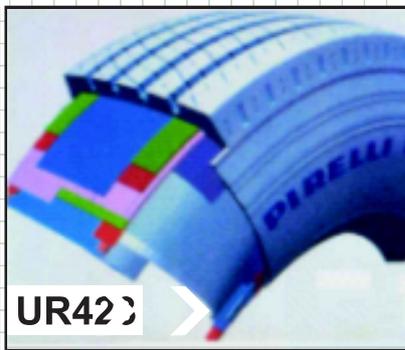




PURETRONICS

The first "RIZZARDI" factory was opened in Milan in 1933. Right from the start we were known for specialization in metals treatment for machine tools. Right after the war, when we'd reorganized our production, we set up a research facility to seek out new technologies, thus carrying on what was already the specialist tradition.



Out of this came our new technique : a coating process using powdered metals and special alloys that can be used on any material.

In 1966 our founder Umberto Rizzardi, whose sons had in the meantime joined him in the business & are now fully in charge of the company, was awarded the most sought-after recognition of the Italian Chamber of Commerce : the gold medal.

Today "Rizzardi" can boast of one of the highest levels of specialization in the field of coating of hard semi - hard metals, especially for the metal wire working field.

The capstan is one item of particular importance because it is always the subject of various "tribologic" solicitation (abrasion, adhesion, corrosion, fatigue etc.)

TUNGSTAN CARBIDE ALLOY



The drawblocks and rings coated with UR65 are used on all types of drawing machines, fully submerged or spray, to draw all types of metals and alloys: Copper, Aluminum, Steel, Alloy, Gold, Platinum, Tungsten, etc. The UR65 coating is the result of this research. The high density of the Tungsten Carbide Particles and high bonding of these particles give the UR65 coating exceptional results against wear and abrasion. Our procedure allows the UR65 coating to perfectly penetrate the steel piece combining the two, to form one body. Average surface roughness : Ra = .25 u (metric).



Ceramic coating with characteristics similar to UR240. Excellent insulating material, is best suited to be used on annealer conveying pulleys which need electrical insulation and very low inertia. Color-Black



Born from a specific research, this coating of tungsten carbide is extremely suitable for the slip drawing of brass coated steel for steel cord. The coating offers good resistance to wear while maintaining its brightness unchanged with time. This coating, due to the form and composition of the Tungsten Carbide Particles, offers a surface with a very low micro porosity, average surface roughness Ra= .04/.06u(metric)



This particular alloy made of agglomerate elements is treated at high temperature. The main characteristics are a good wear of all a great resistance to corrosion that could be provoked by the utilization of oil solutions that are chemically aggressive. This alloy is extremely compact and it is possible to obtain a finish surface with a max rugosity of Ra= .02/.06u(metric) This coating is utilized in particular conditions where a high wearing exist without damaging the wire quality.



Extremely hard ceramic coating, slightly porous with great wear resistance. Due to its insulating quality it is particularly suitable for drawblocks and rings used in drawing ultrafine Copper Wire and for conveying pulleys and rolls.



Tungsten Carbide Coating having the same composition of the UR65 coating, but with a tighter particle structure. The impact velocity and exploiting very high available calories, allowing a higher bonding level among the particles, which form a layer suitable to offer a higher control of the micro porosity. Consequently, during the grinding procedure, higher finishing grades can be achieved.

Average surface roughness: Ra= .06/.08u(metric) This coating is suitable particularly for drawing wires on multiwires. Excellent results have also been obtained when used in drawing welding wire and stainless steel. It necessitates an increment in



Ceramic coating similar to **UR229** but non insulating. Generally used for conveying pulleys. Color-Blue

Range of Products

- Laser Diameter Gauge
- High Frequency Spark Tester
- Inline Induction Wire Preheater
- PLC Based Control System.
- Control Panel For Wire & Cable Industries, Extruders, Pay-offs, Dual Take-up Winder and coiler Machine.
- Servo system for wire accumulator for online coiler
- Scada, data system for multi line system.



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