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Study and realization of high-tech machineries - Turnery, grinding and lapping of mechanical pieces
Production of screw and barrel for plastic materials, also in Doalloy®

TECHNICAL CARD DOALLOY - 61
COATING OF BARRELS AND SCREWS FOR RUBBER AND PLASTIC

CHARACTERISTICS:
Deposit of metallic type with high hardness of exclusive formation of 13 elements alloy at the base metal in the metallurgical form.
The base elements are Cr Mo W V that for their property give to the coating the characteristics following:
- **Excellent** corrosion strength and oxidation resistance until 650°
- **Excellent** metal/metal friction resistance also at high temperatures and with the presence of charges
- **Excellent** corrosion strength in gaseous room at high temperatures
- **Very high** resistance at the abrasion also in room with the presence of the mineral charge and oxides

HARDNESS:
HRC 62:65 from 0°C to 650°C

LIFE:
From 6 to 8 times in comparison to the nitriding steels.

APPLICATIONS:
Barrels and screws for rubber and plastic.
It is especially suitable for the recycling of plastic material and the working with the mineral charges, oxides, colouring, fibres, etc.

Possibility of high thickness of 1 to 5 mm free of cracks.

The use of an exclusive Plasma system allows to obtain high thickness and a perfect anchorage to the base steel.

DOALLOY-61 identifies a excellent coating for the resistance of: heat - corrosion - oxidation - cavitation - friction.

At it is known barrels and screws for rubber and plastic work in presence of heat, to which one adds ,because of the inevitable contact metal/metal and the presence of the charges, heat by friction that locally can reach 650°C.

DOALLOY-61 increases thickness until 650°c.
It is advisable with the DOALLOY-61 coating technology the repair of worn screws and worn barrels and the construction of new barrels and screws warranting a constant production in the time.