



DryCycle

The future of enamelling
is Dry.



TAU Industrial Robotics

tauindustrialrobotics.com



100% solvent free enamel



Exceeds traditional enamelling performances



Coating device compatible with thermosetting and thermoplastic polymers

Enamelling without solvents

Traditional process

DryCycle process

70%
Solvents

30%
Paint

100%
Powder paint

DryCycle at a glance

DryCycle is the first solvent-less enamelling technology that works both with thermoplastic and thermoreactive polymers, with coating thickness ranging from 10 to 150 microns.

Dry enameling is clean and efficient

Traditional enamelling technology works with liquid paints based on organic solvents - uneasy to manipulate, hazardous to handle, difficult to dispose. Using a specially developed technology, DryCycle process eliminates the need for a liquid paint, reducing the Volatile Organic Compounds release to zero and increasing efficiency up to 80%.

About Tau Industrial Robotics

Tau Industrial Robotics is committed to bringing intelligence in enameling technologies. Our expertise covers the entire manufacturing process of insulated wire, from coating to curing, from the chemistry of insulating enamels to final product quality control.



VOC free



30 min to change polymers



From 0.5mm to 5.0 mm horizontally



Round and flat wire compatible



Industry 4.0 process monitoring



Independent from VxD

DryCycle technology comparison

A closer look at DryCycle

Characteristic	Traditional	DryCycle
Time to cold-start	8-24 hours	2-4 hours
Time to change coating	8 hours	30 minutes
Process stability	Dependent on solvents quantity diameter wire etc	There are no solvents burning in the machine, giving stable process at higher speeds, specially with larger diameters
Coating machine	Long (20m+), vertical for large diameters	Short (no long oven required), no vertical oven required even for large diameters
Environment	Dangerous chemicals involved in the process	On-off process, no hazardous materials used, no special environmental requirements
Companitibily with different enamels	Different enamels require different enamelling ovens	Without solvents the coating line is simpler and compatible with all polymers

DryCycle technology brings intelligence into the enamelling process with a completely new approach. The application of a thin, calibrated layer of polymer is achieved through a device capable of receiving powder polymer on one end, and delivering a coated wire on the other. Twice as efficient, without any of the problems associated with the handling of liquid paint.



Power&Energy



DryCycle

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