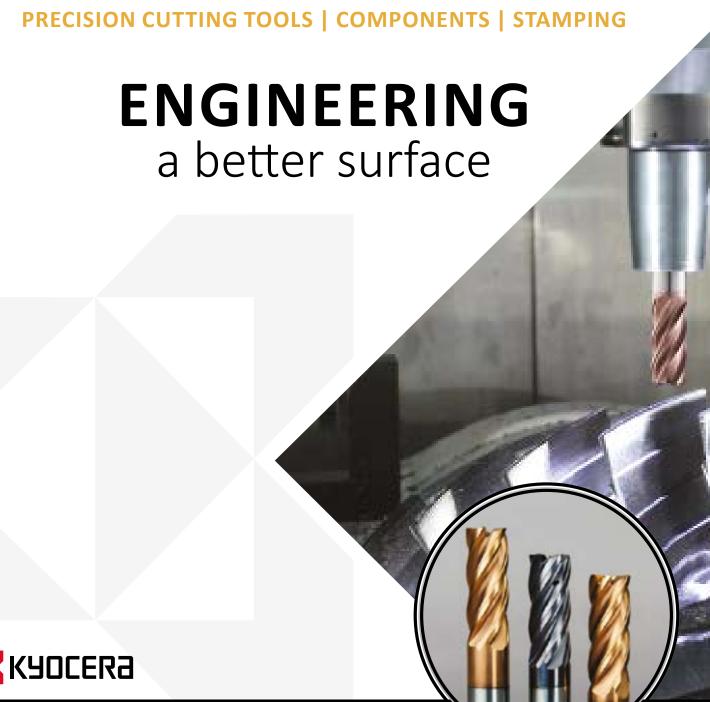


High Performance PVD Coatings for



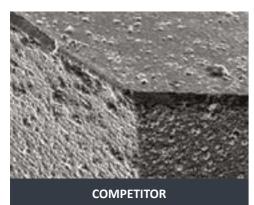


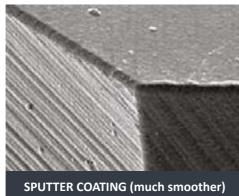


**KYOCERA Hardcoating Technologies provide premium** coating solutions for machining applications, wear parts and some decorative components, where high performance and quality are priority.

Equipped with a HiPIMS (High Power Impulse Magnetron Sputter) coating chamber, the only one of this standard in the UK. Kyocera Hardcoating Technologies provides advanced coating technology to a broad spectrum of industries in the UK and across Europe, including solid carbide cutting tools and components used in stamping and punching. Our coating capabilities result in extremely smooth coatings with superb adhesion. Offering 4 types of PVD coatings, our specialist team can coat components which need to be super hard, super smooth and super sharp.

Competitive pricing comes as standard, along with highly professional service and ISO 9001 accredited quality.







## **Characteristics of the Hardcoating Technologies coating materials**



**HPP** 

Anthracite

MICROHARDNESS

COEFFICIENT OF FRICTION

**OXIDATION TEMPERATURE** 1100°C / 2010°F

THICKNESS

1-5 Microns (based on tool diameter) MACHINING APPLICATIONS

Materials Harder Than 65 HRc Hardened Steels Stainless Steels

Super Alloys Titanium Nickel based alloys

Cast iron WEARING APPLICATIONS

Inconels

High temp resistance Low coefficient of friction Wear indicator benefits Visual advantages: Anthracite/ Purple in colour

HTB

**COLOUR** 

MICROHARDNESS

COEFFICIENT OF FRICTION 0.10-0.20

**OXIDATION TEMPERATURE** 850°C / 1562°F

THICKNESS 1-5 Microns (based on tool diameter)

Aluminium Alloys Titanium Alloys Magnesium Alloys Copper Allovs

**Graphite Machining** 

WEARING APPLICATIONS

MACHINING APPLICATIONS

Hard Surface

Ultra-Low coefficient of friction Wear indication benefits Visual advantages: Silver in colour

## **HPH**

COLOUR Bronze

MICROHARDNESS

COEFFICIENT OF FRICTION

**OXIDATION TEMPERATURE** 1100°C / 2010°F

THICKNESS

1-5 Microns

(based on tool diameter)

#### MACHINING APPLICATIONS

Hardened Steels

High temp applications

WEARING APPLICATIONS High temp resistance Low coefficient of friction

# HTY

COLOUR

Dark Anthracite / Purple

MICROHARDNESS

**COEFFICIENT OF FRICTION** 

OXIDATION TEMPERATURE 1100°C / 2010°F

THICKNESS

1-5 Microns

(based on tool diameter)

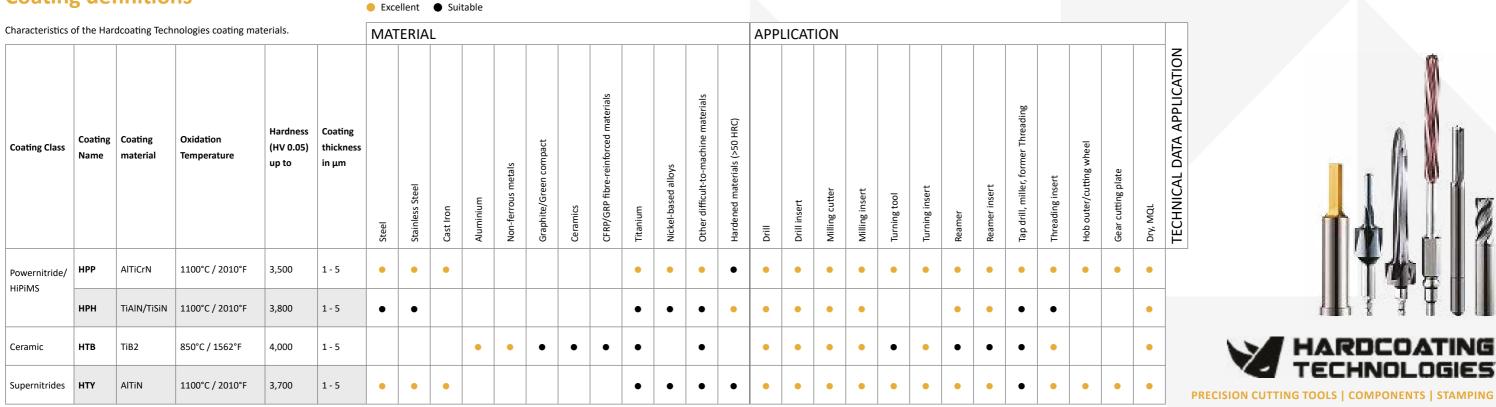
MACHINING APPLICATIONS Steel

Stainless steel Cast iron

WEARING APPLICATIONS

High temp resistance Low coefficient of friction Wear indicator benefits Visual advantages: Dark Anthracite/Purple in colour

## **Coating definitions**









### **Quality & Inspection**

Great results come from good preparation and coating application. To ensure we achieve great quality, we invested in the best vision-based inspection technology available. This system is fitted with a motorised stage for large area scans. This measurement device can be used for cutting edge measurement, roughness measurement and as form measurement. This technology allows us to measure form plus roughness in a single set up. Testing is also performed after every run to ensure coating thickness and adhesion quality is maintained.

We are ISO 9001:2015 Accredited.

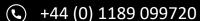


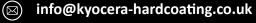
Our technical support team is available to answer your technical application questions and offer advice.

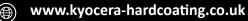


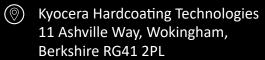














a better surface







