

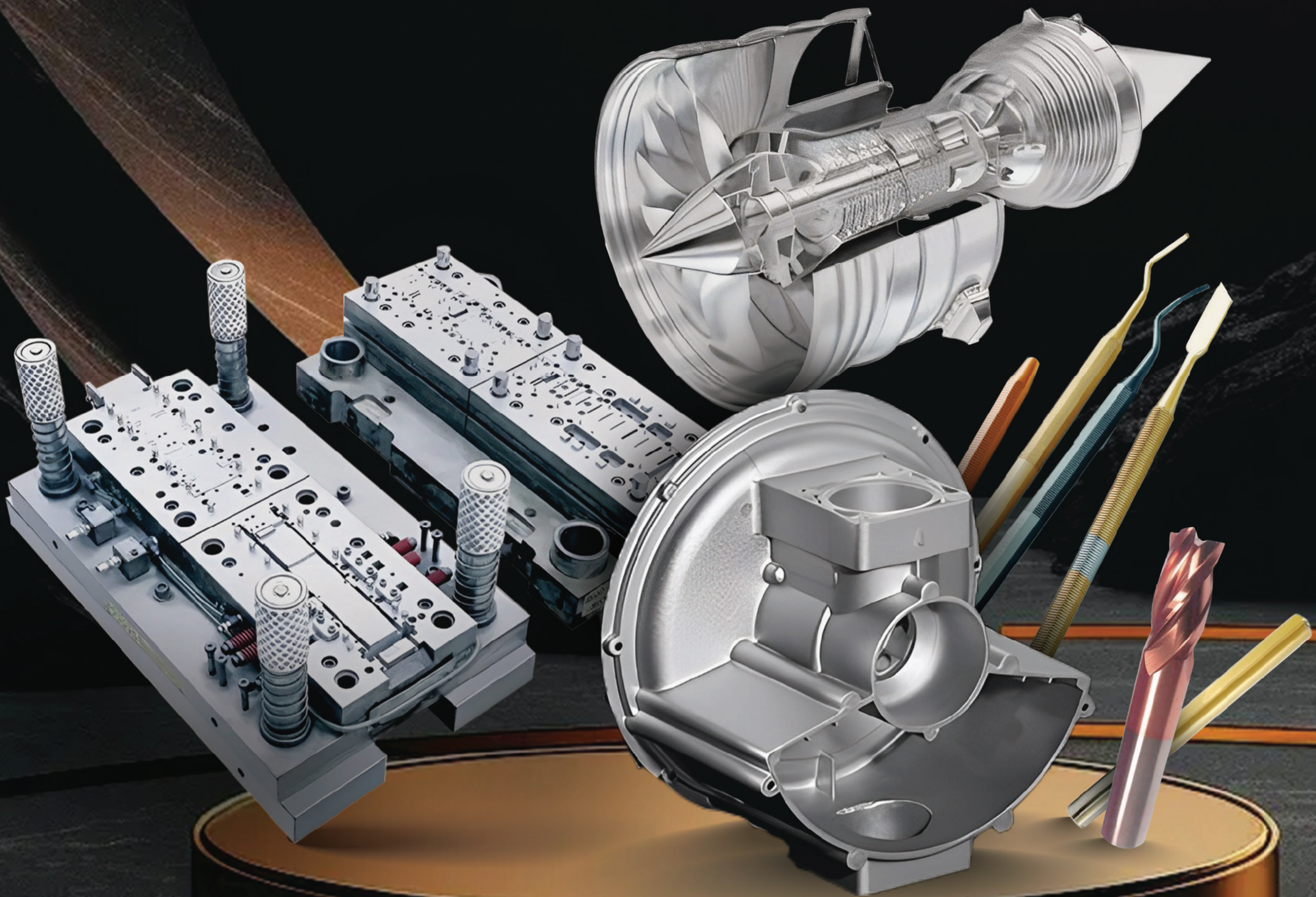
PENTAGON

COATING TECHNOLOGIES SDN BHD (1220566-D)

Passionate towards Future Technology



THE INDUSTRY LEADER IN PVD COATING



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COATING CATALOGUE

AlTiN/AlTiN (Medical)

T ≤ 900 °C



Thickness (μm) | 1 - 4

Hardness (HV) | 3300

Friction (coeff) | 0.4

Dark Grey

Application:

High speed cutting, dry/wet machining, mold & die, aerospace, medical etc.

AlCrN/AlCrN *Plus*

T ≤ 1000 °C



Thickness (μm) | 1 - 4

Hardness (HV) | 3400

Friction (coeff) | 0.3

Anthracite

Application:

High temperature machining tools, cutting tools.

AlTiSiN/AlTiSiN *Plus*

T ≤ 1100 °C



Thickness (μm) | 1 - 6

Hardness (HV) | 3300

Friction (coeff) | 0.5

Copper

Application:

High speed, dry cutting, high temperature, hard machining, cutting tools etc.

TiN/ TiN (Medical)

T ≤ 600 °C



Thickness (μm) | 1 - 6

Hardness (HV) | 2300

Friction (coeff) | 0.5

Gold

Application:

Cutting tools, drills, milling cutters, surgical devices, injection mold, ejector pins, punches, aerospace, decorative etc.

CrN

T ≤ 700 °C



Thickness (μm) | 2 - 5

Hardness (HV) | 2000

Friction (coeff) | 0.35

Silver

Application:

Metal forming, plastic & rubber injection mold, components etc.

PentaForm

T ≤ 800 °C



Thickness (μm) | 2 - 6

Hardness (HV) | 3500

Friction (coeff) | 0.5

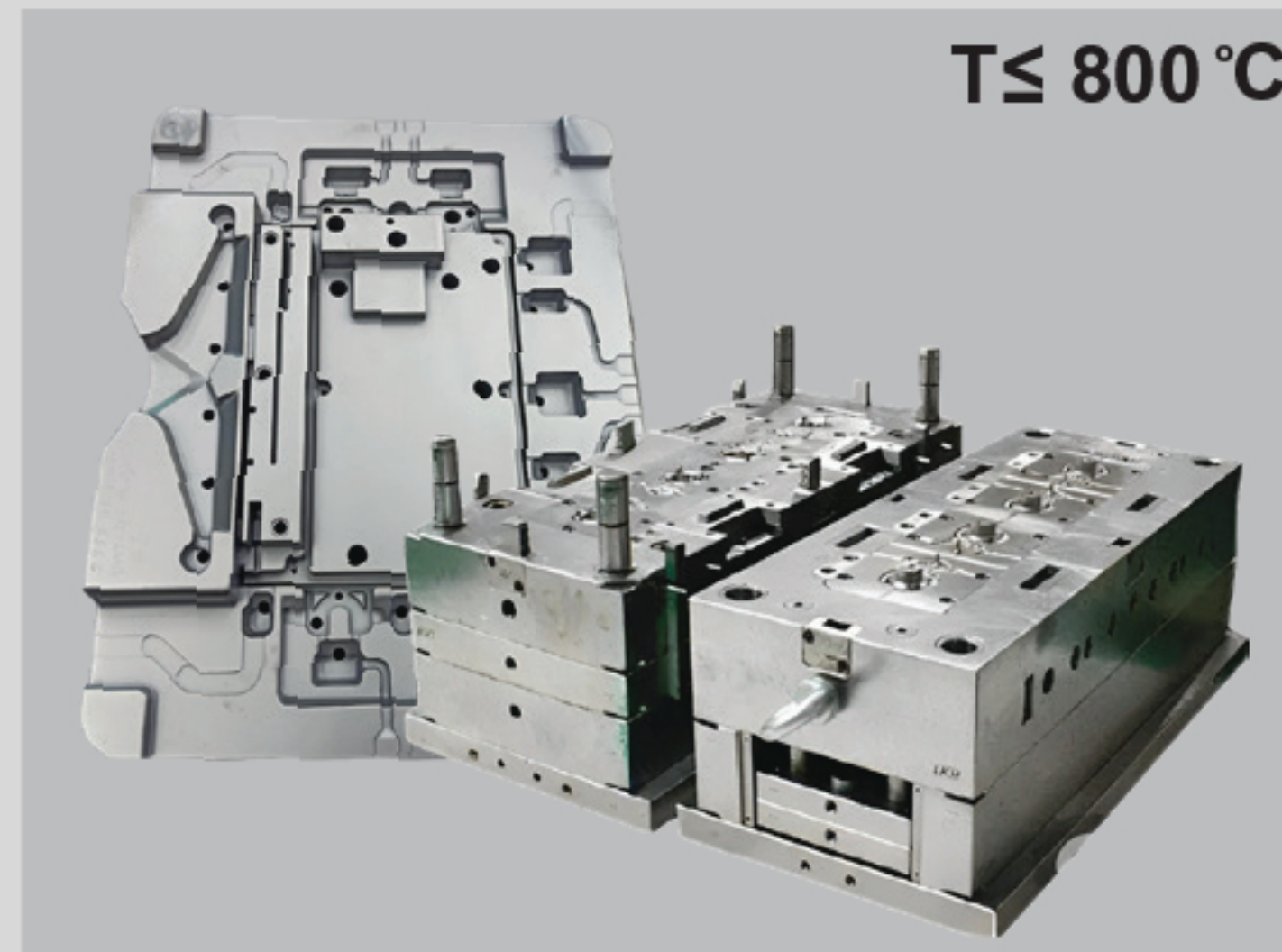
Rose Gold

Application:

High strength machining tools, metal forming etc.

PentaNano

T ≤ 800 °C



Thickness (μm) | 7 - 12

Hardness (HV) | 3100

Friction (coeff) | 0.4

Grey

Application:

Diecasting.

BENEFITS

Enhanced Hardness

Hardened surface to extend tool life.

Improved Wear Resistance

Coated surface reduces friction, improved durability & wear.

Corrosion & Erosion Resistance

Excellent protection against corrosion & erosion.

Thermal Stability

Ability to withstand high operating temperatures without degradation.

Environmentally Friendly

Minimal waste emission, highly ecologically sustainable.

Quality & Cost Saving

Improved hardness and wear resistance will further enhance end product quality and saves up maintenance & operating costs.

APPLICATION



Cutting Tools



Decorative Applications



Forming and Molding Tools



Industrial Applications



Medical Applications



Automotive Components

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