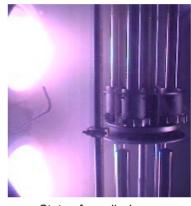
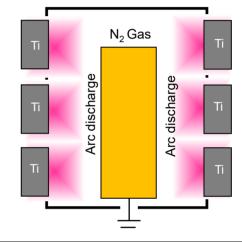
Standard type Basic PVD coating

- Basic PVD coating suitable for cutting tools, molds and machine parts.
- We support large workpieces with one of the largest AIP equipment in the industry.
- We promise to improve your productivity with high performance, quick delivery and cost performance.

Industry standard arc ion plating

- This is the most popular coating process for cutting tools and molds using the arc ion plating method.
- The target material is evaporated by arc discharge to efficiently coat the surface of the target workpiece.





State of arc discharge

Large workpiece and short delivery time

- With the largest arc ion plating equipment in Japan, coating treatment of large workpieces up to $\phi 750 \times 900$ mm and 360 kg.
- Three units (large, medium and small) of arc ion plating equipment manufactured by Kobelco allow us to process in a short delivery time.





AIP-S70 (Largest in Japan)



AIP-S40

Kobelco arc ion plating equipments



Standard type **Basic PVD coating**

Lineup

- Hardness: 2000HV <

- Thickness: 3±1µm

- Hardness: 3000HV <

- Thickness: 3±1µm

Balance of hardness, adhesion and heat resistance. Titanium is a standard for coating

- Heat resistance temp.: 600°C - Surface roughness: Rz<0.8
- Friction coefficient: 0.5
- Coating temp.: <500°C

Characterized by high hardness and low friction Coating for cold forming dies

- Heat resistance temp. : 400°C
- Friction coefficient: 0.2-0.5
- Surface roughness: Rz<0.8 - Coating temp.: <500°C

- Hardness: 3000HV<

- Thickness: 3±1um
- Characterized by high hardness and heat resistance Compatible with all cutting tools and dies
 - Heat resistance temp.: 800°C
- Friction coefficient: 0.5
- Surface roughness: Rz<0.8 - Coating temp.: <500°C

- Hardness: 1500HV<
- Thickness: 3±1µm

Strong adhesion to substrate and excellent reliability Coating for mechanical parts

- Heat resistance temp.: 700°C
- Friction coefficient: 0.5
- Surface roughness: Rz<0.8 - Coating temp.: <500°C

In a variety of applications, with 20 years of experience









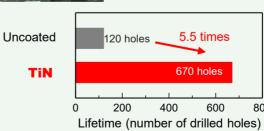


Drilling of steel (SCM440)

The progress of wear on the drill edge is suppressed, greatly improve the drill life.



- Tool: φ6mm SKH51 drill
- · Work material: SCM440 (thickness: 20mm)
- V=18m/min, f=0.16mm/rev



Bending and forming of steel plate (SPCC)

Scratches on mold corners can be suppressed. greatly improve the lifetime of the mold.



- · Mold: SKD61 die
- Material: SPCC
- · Effectiveness: Suppression of bending scratches

