

# ICO Surface Coatings

## *Tool Coating Services*

### **High Quality. Fast Deliveries. Great Prices.**

The top three things you want out of a tool coating supplier. ICO Surface Coatings delivers all three—and then some.

We offer coating and re-coating services for all types of new and used tools.

- Drills
- Taps
- Reamers
- Milling cutters
- Punches
- Gears
- Saws
- Any wear part

Our equipment handles part sizes up to 1000 mm OD x 700 mm.

Standard PVD coatings are:

- TiN
- TiCN
- TiCN-MP
- AlTiN
- SS1218
- Phoenix
- ZrN

*Special and proprietary coatings also available.*



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## ICO Recommended Coatings

1st, 2nd, & 3rd choices indicated

Coating	Low Alloy Steel	Med Alloy Steel	Tool Steel	Bearing Steel	Cast Iron	Nodular Iron
TiN	2	3	3	2	2	2
AlTiN		1	1	1	1	1
TiCN	1	2	2	3		3
	Titanium Alloy	Nickel Alloy	300 Series SS	400 Series SS	PH Series SS	Copper/Brass
TiN	2	2	3	2	3	2
AlTiN	1	1	2	1	1	
TiCN	3	3	1	3	2	1
	Wrought Aluminum	Cast Aluminum	Mold/Die Steel	Inconel	Waspaloy	Rene Series
TiN	3		2	3	2	2
AlTiN	1	1	1	1	1	1
TiCN	2	2	3	2	3	3

## ICO Coatings

Coating	Color	Nanohardness	Thickness	Friction Coefficient	Max. Usage Temp.- C
TiN	Yellow	24 (GPa)	1-5 µm	0.55	600
SS1218	Grey	20 (GPa)	0.5-4 µm	0.15	400
AlTiN mono	Black	35 (GPa)	1-5 µm	0.50	800
AlTiN multi	Purple	28 (GPa)	1-5 µm	0.60	700
Phoenix	Red	36 (GPa)	1-5 µm	0.25	800
TiCN	Blue	37 (GPa)	1-4 µm	0.20	400
TiCN-MP	Brown	32 (GPa)	1-4 µm	0.20	400
ZrN	Yellow	20 (GPa)	1-4 µm	0.40	550

## ICO Surface Coatings

### ICO SURFACE COATINGS

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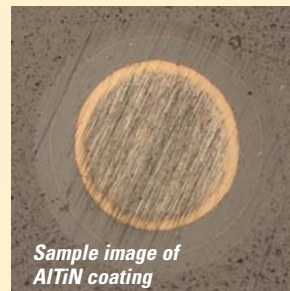
Internet: www.icosurfacecoatings.com

## High Quality

ICO, a division of Tru-Cut Saw, is equipped with the finest PVD coating equipment available today. Our Swiss-manufactured PLATIT® coating centers produce highly consistent, tool-specific coatings that can be individually tailored to customer specifications.

QC software monitors and evaluates every aspect of the coating process and generates reports for each batch to assure consistency. All customer parameters are stored in our database and identical coating processes are repeated from batch to batch.

With our Image Processing System we microscopically analyze coatings for adhesion and thickness and Rockwell test for hardness.



Sample image of AlTiN coating

## Fast Deliveries

Fast deliveries and coating capacity go hand in hand. Our chambers and carousels are the most productive available, and we can easily handle your high volume orders as well as your small rush jobs.

Normal turn around is 3-4 days on most orders. Just call us for pick up and delivery service.

## Great prices

We're extremely competitive on price, especially when you factor in our quality and fast deliveries. Give us a call and let us prove it.

