

VARIOUS TYPES OF CONIC ORIGINAL HIGH QUALITY COATING

Perfect tool for stainless steel!

Extremely resistant to wear

Super Dry Punch (SDP)

- CONIC No.1 wear resistance tool -



Feature

- **Distinguished durability**
Shows high performance for hard processed material.
- **Reduced the tool cost**
SDP can be durable more than 3 times longer as compared with conventional tool.
- **Non-lubrication**
Suitable for clean processing without any lubrication oil.

Experimentation

Result 1 Strong wear resistance

It shows 4 times longer life comparing TiCN coated punch from another suppliers.

TiCN 20,000 hits
vs
SDP 82,000 hits

Result 2 Never peel off

SDP is not only just surface treatment, but also penetrated inside of punch material. Therefore, it will never peel off and still works fine even after re-grinding.

	Other suppliers	CONIC
Treatment	TiCN	SDP
Sheet material	SUS304 t=2.0mm	
Oil	(None) Non-lubrication	
Number of hits	20,000 hits	82,000 hits

Tool with improved high-temperature durability!

Tool with improved high temperature durability

Heavy Duty Punch (HDP)

- Unique surface treatment reduces coating peeling! -



Feature

- The coating does not easily come off even with the heat generated by continuous striking. Excellent high temperature durability, ideal for nibbling.
- **Excellent in wear resistance.**
Unique surface treatment method reduces coating peeling. Especially high value for stainless and mild steel plate (T=2.0 or less)!
- **Customer feedback**

[Company A=Industry : Punching metal, Main Material : SPCC T=1.0] 1.8 million times hit with this tool, but it's still usable!

[Company B=Industry : Cabinet, Cover, Main Material : SPCC T=1.2-3.2, SUS 1.5-2.0]

Outer nibbling process.

The coating peeled off after 200,000 hits, but more than three times as long as another standard TiCN coating.

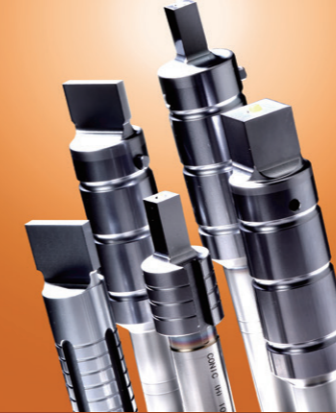
*The number of hits above is the value when using air blow.

Most efficient in long tool life and cost!

New steel grade & original surface treatment technology

CONIC Long life Punch (CLP)

- Almighty tool for any type of material -



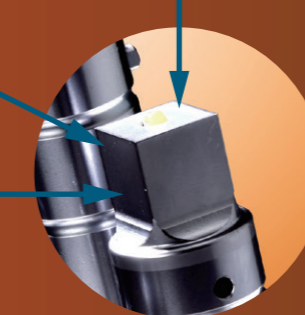
Feature

- **Durability is further improved by using air blow**
To achieve "7 times more durability" than HSS punches!
- **Increased product quality**
Reduced burrs by high wear resistance.
- **Decrease machine down time**
Stable punching process without any problem.

State of the art technology coating achieves protect chipping

Coating thickness is 2 to 3 micron

High durability



Best solution for adhesion and galling!

Stable processing by reducing the welding phenomenon

CONIC Hard Punch (CHP)

- Suitable for all purpose, especially for aluminum and coated steel! -



Feature

Surface modification treatment processed on HSS which is totally different from conventional surface coating.

What is modification?

Increase hardness of surface and metal fatigue by refine and combine with metal crystal of punch surface, 10μ. (Increased hardness from Hv 780 to Hv 1,000-1,300)

How it works?

Smooth surface that makes better piercing and prevent from adhesion and galling in order to have stable processing.

Customer feedback

Great feedback for aluminum and thin sheet metal. (Mild steel under t=2.3mm)

[A-company= Industry : Steel furniture, Main metal : Mild steel] 310,000 hits. Still no problem.

[B-company=Kitchen equipment, Main metal : Stainless steel] 140,000 hits. Still no problem. No adhesion and galling.

Surface treatment Variations (Aptitude)	Total performance	Type of treatment	Material Characteristic			
			SUS	SPCC	AL	Galvanized
	High performance	Super Dry Punch (SDP)	★★★★★★	★★★★★★	★★★★	★★★
		Heavy Duty Punch (HDP)	★★★★★	★★★★★★	★★★★★★	★★★★★★
		Conic Long Life Punch (CLP)	★★★★	★★★★★	★★★★★★	★★★★★★
		Conic Hard Punch (CHP)	★★★	★★★★	★★★★★	★★★★
		HSS	★★	★★★	★★★	★★★
Cost performance		D2	★	★	★★	★

CONIC original surface treatment punches can be processed for all models of tools, including Amada, Murata, and Trumpf type!

*Please contact CONIC tool sales desk for pricing and details.