

“Material difference”

1. We use the best quality highspeed steel materials.

Conic uses carefully selected high speed steel for punch.

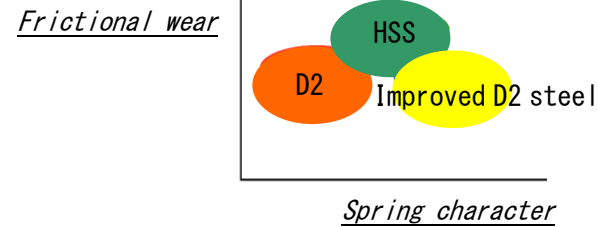
2. Even D2 steel (SKD-11) is different from standard.

a) Conic uses improved D2 steel for die.

This material has twice of spring character and hardness is higher than general D2 steel. (HRC 58 to 60)

Also more better anti-chipping and crack than standard D2 steel.

This improved D2 steel has good performance for wire EDM because material does not have residual stress in the material.



b) Conic uses super sub-zero heat treatment process on D2 steel for standard punch.

Material is put into -130cent degree just after heat treatment.

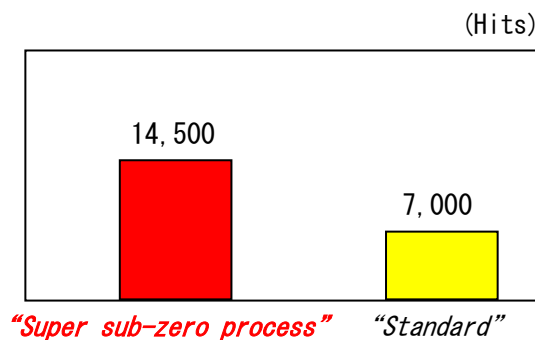
This process gives material structure fine and better for stability and hardness.

Normally sub-zero process is done only for precision equipment or gages.

Punching test :

Silicon steel plate 0.35mm thickness

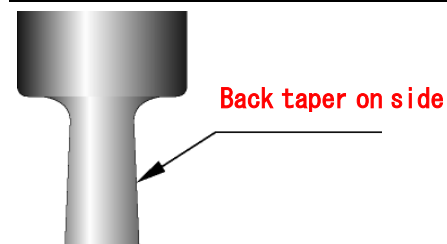
Punch material is D2 steel (SKD-11)



Punching life which height of burr is higher than general D2 steel.

“Specification difference”

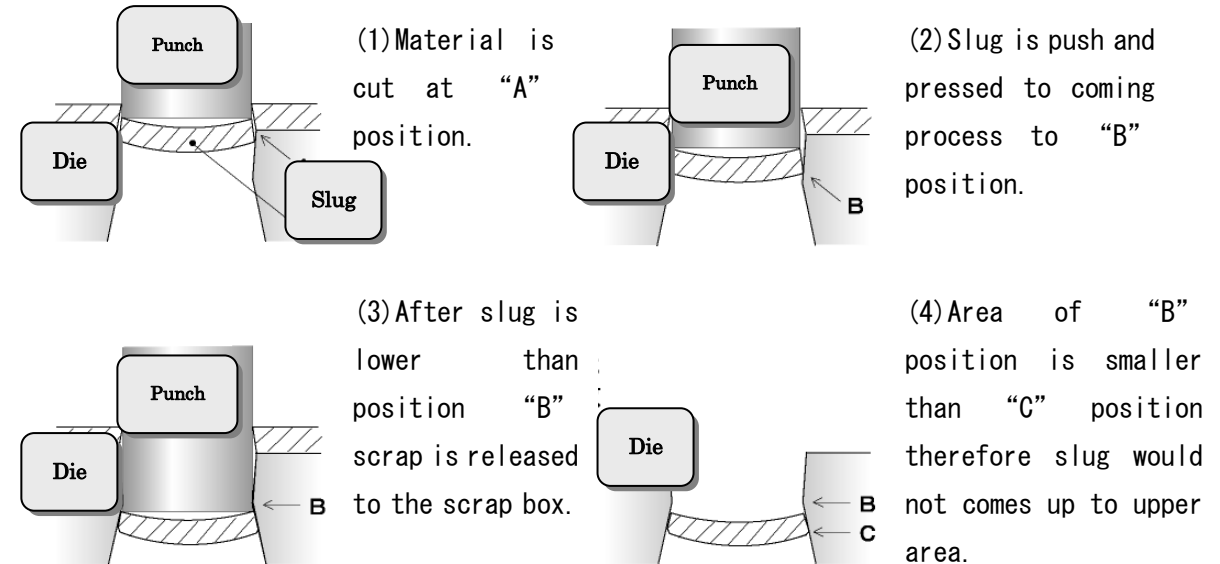
1. Back taper on side of the punch.



This specification makes better performance for less touching area on the side face of punch body and less sticking material on the side face.

2. Conic tool is using slug catcher shape for die as standard specification.

This specification is effective to anti slug comes up.

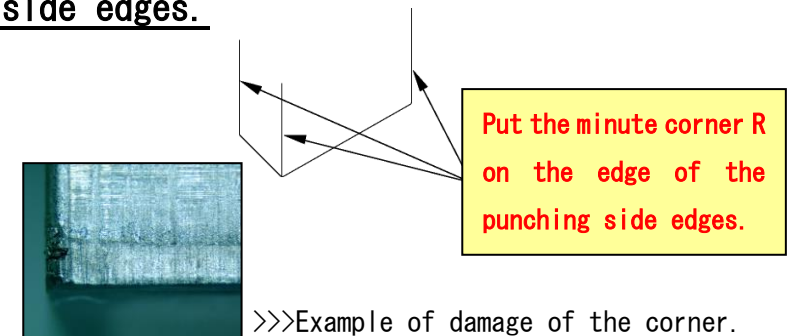


“ Price example (Japanese Yen)”

Maker	Standard price	Additional anti-slug comes up	Total
Conic	5,000JPY	0JPY	5,000JPY
Company “A”	10,000JPY	3,000JPY	13,000JPY

3. Minute Corner R on the punching side edges.

Conic put the minute corner R on the edge of the punching side edges because this corner is the weakest point of shaped tools. After put small R on the corner tool life is much longer and prevent the unusual wear of the punch body.

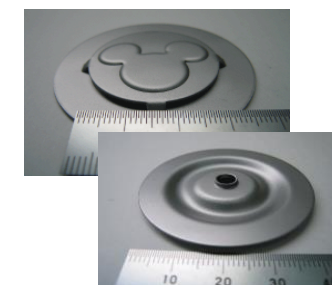
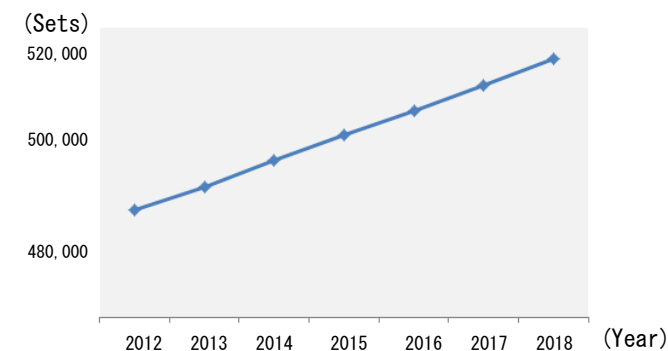


“Special tool specialist”

Conic makes a lot of special tools.

Our sales result of special tools are proof of quality and customer satisfaction.

Production of grand total (special shapes and forming tool)

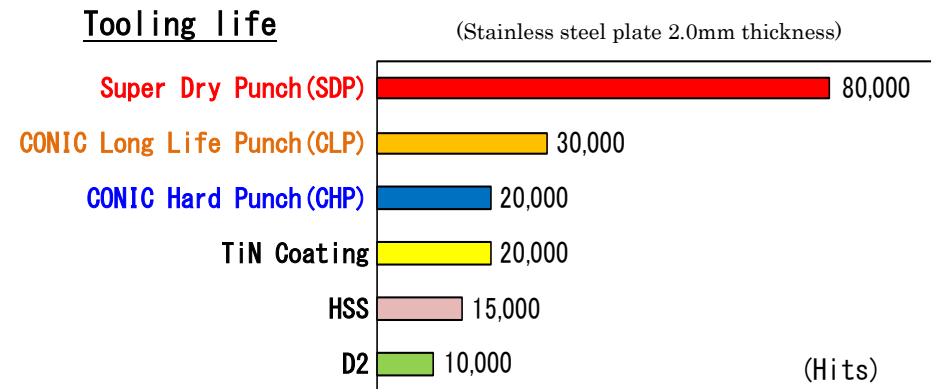


Conic keeps drawings of special tools for 30 years, so that, it is easy to order repeatedly.

"Reference" (Type of surface quality change)



Super Dry Punch (SDP)



◆Material surface quality change(it does not have peeling off such as PVD coating)

Name	Color	Average hardness (HV)	Note	Good for
SDP	Mat Gray	2,800	No lub oil necessary	Stainless...
CLP	Dark Gray	3,000	High hardness	Coated material...
CHP	Material	1,000	Smooth surface no sticking	Aluminum, Color...

◆PVD coating (thickness 2 to 3 microns)

Name	Color	Average hardness (HV)	Note	Good for
TiN	Gold	2,000	General use	Mild steel...
TiAlN	Dark purple	2,500	Anti heating	Coated material...

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