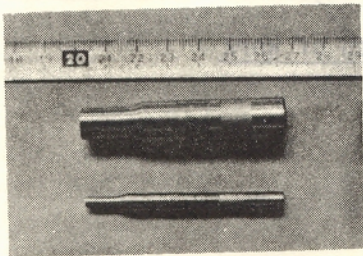


# APPLICATION DATA

Name of part	Blanking punch	Source	N. Kuwayama, et al Annual Conference in Japan Soc. for Heat Treatment Oct, 1970
Mode of servicing	Sheet metal stamping	Work material	Cold rolled mild steel
		Material	3.2 mm
		Size	Hardness
		Remark	
		TD treated part	
		Carbide	VC
		Base metal	A2
		Hardness of substrate	
		Remark	
		Working or servicing condition	
		Machine	
		Load	5 ton/cm <sup>2</sup>
		Stroke	22 shots/min.
		Clearance	
		Lubrication	
		Temperature of work	



Punch

10 mm dia

3.6 mm dia

Result

Base metal, treatment and hardness of the part to be compared

A2 Hardened H<sub>R</sub> 62

Life and other evidences

TD part

The part to be compared

10 mm dia	4,000 shots/reg.	45,600 shots/life
3.6 mm dia	4,000 shots/reg.	48,500 shots/life
10 mm dia	550 shots	Can not be used due to severe scoring
3.6 mm dia	520 shots	

Profit obtained through application of TD Process