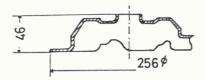
APPLICATION DATA

Name of part Drawing die Mode of servicing Sheet metal stamping

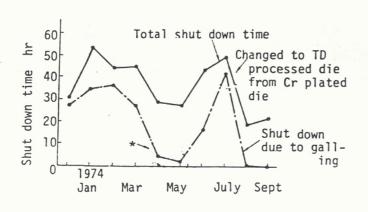
Source

A. Kondo, et al Mashinisuto Vol.20, No.5 (1976) p.11 Puresu Gijutsu Nol.17, No.4 (1979) p.92

Product



Profit obtained through application of TD Process



Work material Hot rolled mild Material steel Size 3.2 mmt Hardness Hv 140~180 Remark

TD treated part ___VC Carbide Base metal __D2 Harness of substrate H_DC 58 Remark

Working or servicing condition 30 ton Transfer Machine Load Stroke 300 mm/sec. Clearance Lubrication Oil Temperature of work

Result

Base metal, treatment and hardness of the part to be compared D2 Hardened

Life and other evidences

TD part

1,900,000 shots, Still usuable

The part to be compared 500∿18,000 shots			5
	Hardened die	TD processed die,	Remark
Max thickness of t por- tion mm	1.9	2.3	4
Surface roughness of W face µ	13 ∿ 18	less than 3	t
Ratio of failures due to the cracking and meduc- tion in thickness %	7	less than 0.3	

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