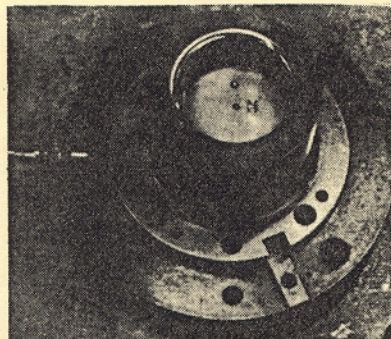


APPLICATION DATA

Name of part Blanking and drawing die	Source P.J.Fisher ASM 8th Heat Treating Conference/Workshop Sept., 1984, Detroit
Mode of servicing Sheet metal stamping	

Customers : Standard Telephone & Cables



Work material
Material _____
Size _____
Hardness _____
Remark Telephone bell

TD treated part
Carbide VC
Base metal D2
Harness of substrate
HRC 58
Remark _____

Working or servicing condition
Machine _____
Load _____
Stroke _____
Clearance _____
Lubrication _____
Temperature of work _____

Result

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

D2 Hardened HRC 60

Life and other evidences

TD part 812,000 shots - not polished, not sharpened

The part to be compared 10,000 shots - polish radius

8,000 shots - sharpen and regreined

Profit obtained through application of TD Process

The customer downgraded from an extreme pressure lubricant, to a dilute water based lublicant, which made subsequent cleaning and electroplating of the product much easier.