

APPLICATION DATA

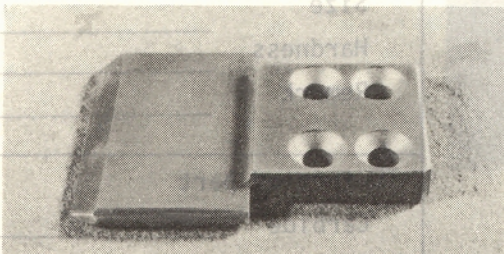
Name of part
Bending mandrel

Source

O. Kasuya, et al
Mashinisuto Vol.20, No.12 (1976) p.31

Mode of servicing
Sheet metal stamping

Punch



Work material

Material AISI 4135

Size 2.0 mm

Hardness H_R 70~80

Remark

TD treated part

Carbide VC

Base metal D2

Hardness of substrate H_R C 38

Remark

Working or servicing condition

Machine

Load

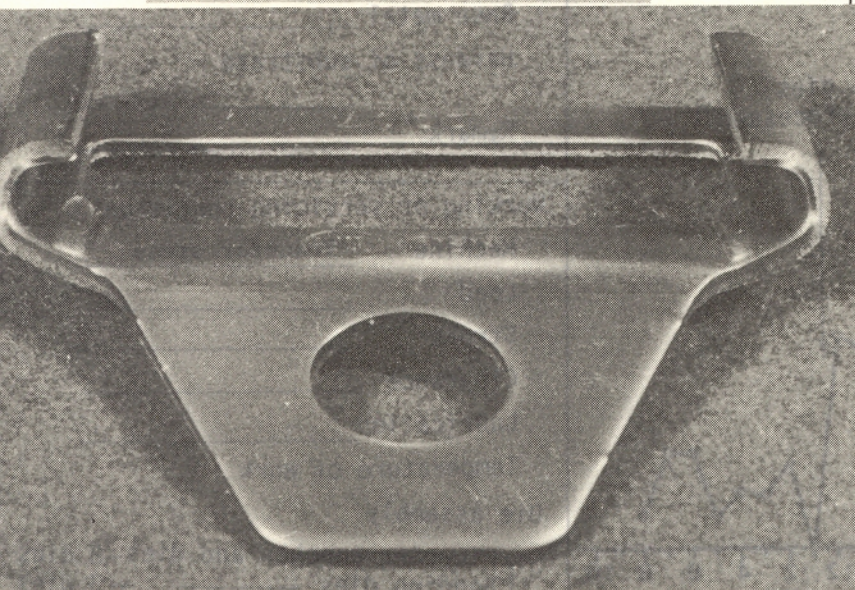
Stroke

Clearance

Lubrication

Temperature of work

Product



Result

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

D2 Hardened H_R C 61

Life and other evidences

TD part 37,700 shots, Galling

The part to be compared 2,400 shots, Galling

Profit obtained through application of TD Process