

APPLICATION DATA

Name of part
Expanding punch

Source

Dr. Peter Fisher

Mode of servicing
Pipe forming

Manufactures' Monthly Vo.22, No.12 (1983) p.15

Product

Punch

Work material

Material Welded pipe

Size

Hardness

Remark

TD treated part

Carbide VC

Base metal D2

Harness of substrate

Remark

Working or servicing condition

Machine

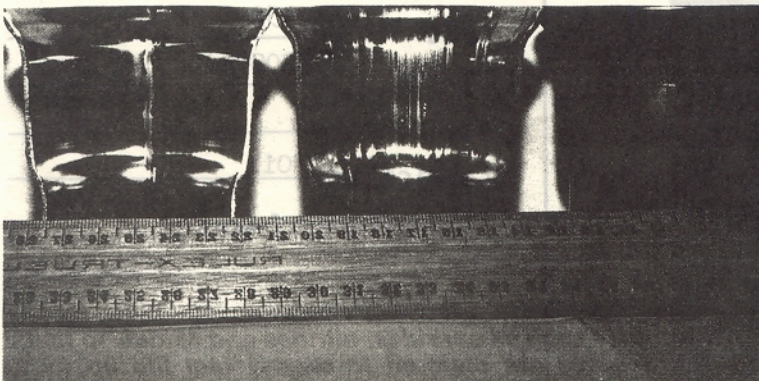
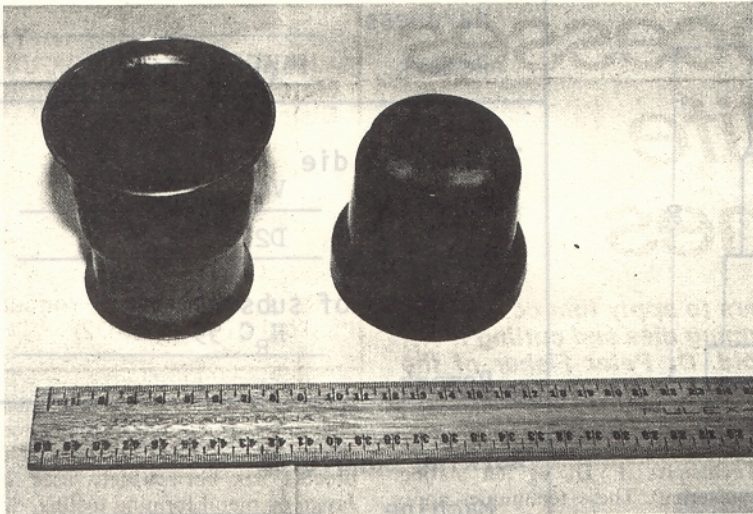
Load

Stroke

Clearance

Lubrication

Temperature of work



A cross-section of the tube showing severe scoring after 30 parts (uncoated tooling) and an identical part after 7000 shots with a TD coated tool.

Result

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

D2 Hardened

Life and other evidences

TD part 7,500 shots, Still usable

The part to be compared 30 shots/repair, Pick up

Profit obtained through application of TD Process