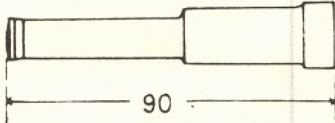
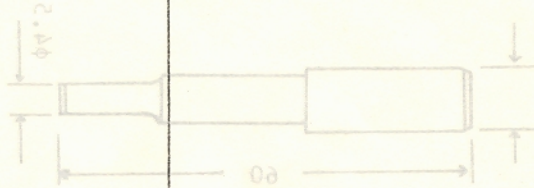
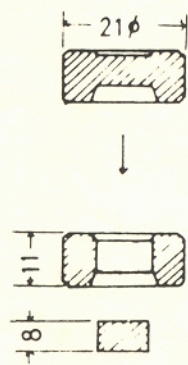
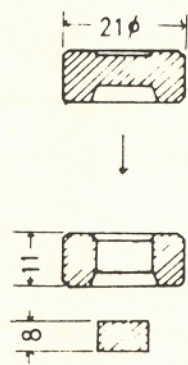


# TD Process Application to Dies and Jigs

TD Process  
Application Data  
No. 8A-4 -1/3

Die or Jig	Name	Piercing punch					
	Category	Die (pressing, cold forging, hot forging, die casting, sand molding, powder compacting, rubber molding, plastic molding, glass casting) Cutting tool, Knife, Guide roller, Others ( )					
Material	Steel Code	AISI D2		TD	Coating	VC	Treating Condition
	Heat Treatment	Hardened			Thickness	$\mu$	Substrate Hardness
<u>Sketch of Die</u> 					Material      AISI 1015 Dimension      Hardness		
					<u>Sketch of Work</u> 		
<u>How It Is Worked</u> 					<u>How It Is Worked</u> 		
<u>Evaluation</u>		<u>Effect</u>		<u>Working Condition</u>			
Life of punches (Shots)		Increase of die life		Machine			
M2 Hardened (Hrc 62) punches		Reduction of maintenance cost		Load			
Less than 10,000		Saving of lubricants		Stroke			
Cemented carbide (WC+ 20 %Co) punches		Increase of working rate		Speed			
25,000 ~ 60,000		Others		Temperature °C			
D2 TD treated punches				Lubrication			
33,500 ~ 104,000				Clearance			