

## **Three Steels for Structural Sections**

### **DESCRIPTION**

#### **D-M-E NO. 1 STEEL**

No. 1 Steel is a medium carbon (SAE 1030), silicon-killed forging quality steel with approximately 25% greater tensile strength than typical low-carbon warehouse steels. It machines easily, but is not "sticky," permitting a faster and smoother cut.

#### **D-M-E NO. 2 STEEL**

No. 2 Steel is an AISI 4130 type steel. It is supplied pre-heat treated to 269-321 Bhn. (28-34 Rc). A high strength steel, it is ideal for cavity and core retainer plates, clamping plates and support plates in molds and dies.

#### **D-M-E NO. 7 STEEL...NEW! FOR THE 90's**

No. 7 Steel is an AISI 420-F (modified) type holder block stainless steel. It is supplied pre-heat treated to 305-342 Bhn. (33-37 Rc), and offers high machinability and corrosion resistance. For humid environments, corrosive plastics, "clean room" or "100% stainless" applications, it is an ideal choice for all structural (non-cavity/core) elements of molds and dies.

## **Three Steels for Cavities and Cores**

#### **D-M-E NO. 3 STEEL**

No. 3 Steel is a P-20 AISI 4130 (modified) type cavity steel. Exceptionally clean, it is pre-heat treated to 277-331 Bhn. (29-36 Rc). It provides high hardness, good machinability and exceptional polishability for both plastics molds and die cast dies.

#### **D-M-E NO. 5 STEEL**

No. 5 Steel is a thermal shock resistant, hotwork die steel (AISI-SAE H-13 type). Supplied fully annealed (approx.200 Bhn; 13-20 Rc) for easy machinability, it can be subsequently heat treated to the desired hardness with a minimum of deformation. Mainly used for die cast dies, it is also suitable for plastics molds with exceptional hardness or polishability requirements. D-M-E NO. 5 Steel meets or exceeds the acceptance criteria established by the NADCA as detailed in Technical Digest Number 01-80-01D.

#### **D-M-E NO. 6 STEEL**

No. 6 Steel is a T-420 type stainless steel. It is supplied fully annealed to 179-241Bhn. (8-23Rc), making it readily machinable. It can be used for injection, compression or transfer molds where the properties of the plastics materials or excessive condensation require a highly corrosion resistant cavity steel.