GATWICK FULLY AUTOMATIC DRILL PIPE ELECTRICAL UPSETTING MACHINE

EUM 750 Specification
Pipe Diameter Range . . . . . 2 3/8” to 6 5/8” (Drill Pipe API Spec D)
Power . . . . . . . . . . . . . . . . . . 630 kVA
Maximum Upsetting Force . . 70,000Kg (Hydraulic Control)
Capacity . . . . . . . . . . . . . . . . .210mm Die / Electrode Stroke
 . . 205mm Gathering Stroke
Upsetting Cycle . . . . . . 1.) Initial Heating
 . . 2.) Die Retraction
 . . 3.) Forming / shaping
 . . 4.) Closed Die
 . . Upsetting to shape
Part Feeding . . . . . . . . . . End loading via robot
 . . or manual
 . . or automation

Advantages of Upsetting:

- Only heats the portion to be upset, remaining portion is still cold and can be handled without surface damage or marking.
- No burning or scale is produced due to fine control of heat.
- Ideal grain structure without kinks, drift or surface folds.
- Savings in material costs compared to turning from solid.
- Improved quality over forging which requires multiple operations.
- Unskilled operators, upsetting cycle is fully automatic.
- Clean process without special installation and protection requirements.
- Open or anvil plate upsetting process produces a variety of shape for subsequent finishing in a press.
- Closed or die upsetting process produces a smooth cylindrical head with close tolerance suitable for further processing without machining.
- Easily automated for production
- Minimal plant requirements to install

Example Components

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