



HEATH & SHERWOOD

# “Sandy” Electro Hydraulic Refractory Drills

by Ingetrol Ltda

*Exclusive Worldwide Representative*

## Major Benefits Compared to an Air Driven Refractory Drill

Based on use of a One (1) Rotary Head Electro-Mechanical Refractory Drill at Codelco's Chuquicamata Copper Smelter between July and August 2002.

- Reduced the total drilling process to 4 hours from 20 hours drilling 53 holes of 2-7/16"
- Dual Rotary Head would be even faster!
- Bit consumption reduced by 35%, using only 4 bits instead of 12
- Noise reduced by 1/3
- Remote Control Panel reduces hazards to the operator
- Drill holes are better finished and better aligned – most of the holes are made in one pass
- Easy mechanical leveling adjustment to punching level
- Drill installation and set-up takes only ½ hour
- No need to re-setup the drill vs. side mounted drills
- Also available w/ stand-alone, rail mounted, car for independent use without Gase Puncher

**Single Drill Head mounted on Gase Tuyere Puncher**



**Dual Drill Heads mounted on Gase Tuyere Puncher**



**Remote Operator Station**



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