



Abacus®
Hydraulics Ltd. *Ingenuity in hydraulics*

- DESIGN
- MANUFACTURE
- SERVICE

INCHING DRIVE SYSTEMS

for Grinding Mills

Designed and manufactured by Abacus Hydraulics Ltd.



Over 1000 drives operating worldwide

Proven and reliable systems for over 40 years

Other equipment designed and manufactured by Abacus Hydraulics Ltd.:

- Drives for Apron feeders
- Drives for thickeners
- Drives for belt and screw conveyors
- Drives for kilns, balling disks and drums
- Lubrication systems for mill bearings
- Brake systems for mills and downhill conveyors
- Pellet classifying roller screens and rolls

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Abacus Hydraulics Ltd., pioneer of hydrostatic mill inching drives has since its foundation in 1969 designed, manufactured and supplied over 1000 systems to plants around the world.

Over the past 40 years the mill sizes have increased dramatically and consequently the size and capacity requirements of inching drives. Hydrostatic mill inching drives are best suited to meet today's stringent conditions and safety levels.

Abacus inching drives are custom built and can suit any mill specifications. The available torque range is unlimited and virtually fits any high torque low speed requirements for mining equipment.

Abacus Hydraulics Ltd. is constantly improving its product and has over the years refined the inching drives to the highest levels of safety, reliability, operation and serviceability.



The drive units are equipped with the exclusive **TORFLEX**[®] gear type coupling which has been specifically designed and developed by Abacus Hydraulics Ltd. Small size couplings are equipped with manual shifter mechanism while all medium to large size couplings are standard equipped with hydraulically assisted shifter mechanism.

The power units are self contained and designed to control the drive units. Directional and brake control of the drive is simple and several options are available. The small systems are equipped with manual control while all medium to large size systems are standard equipped with remote control via cable and pendant or wireless radio system.

The motor starter panel is equipped with several features such as E-Stop, safety and smart relays, hour meter and pilot lights to indicate operation status and all possible faults. The systems are available for power supply of 380-690V and 50-60Hz.

A complete range of protective devices such as interlocks (Kirk locks), position sensors for TORFLEX[®] coupling and guards are available.

TORFLEX[®] is a registered trade mark of Abacus Hydraulics Ltd.

