INTEROC – Manufactured at ABI

Since January 2009 INTEROC is a member of the ABI Group. INTEROC anchor drill rigs and excavator add-on drilling systems with suitable rotary heads and hydraulic drifters are an ideal complement to the ABI Group’s product range.

The name INTEROC was introduced to the market in the early 90’s, but the production of anchor drill rigs had a longer tradition in the predecessor companies already. INTEROC machines stand for efficiency, robustness, durability and are used all over the world.

The compact drilling machines are equipped with single or double-head drilling units. Numerous drilling procedures with single or double rods can be carried out with this equipment.

AN150 drilling anchors in Sweden

Anchor drill rig AN 200 installing anchors for a secant pile wall of a sewage treatment plant

Anchor drill rig AN 150 with double head drilling unit installing anchors for a steel sheet pile wall in Dubai

Anchor drill rig AN 200 with triple clamping and breaking device in Chicago
Rod Changer

- simplifies the handling of the rods
- suitable for single and double rods
- max. rod diameter 219 mm

The patent pending rod changer allows the rods to be installed and removed quickly and safely. Depending on the size the magazine can hold up to 7 double rods, consisting of outer casings and inner rods or augers. The maximum rod diameter is 219 mm at a length of 3000 mm.

The single or double rod is taken with a hydraulic manipulator from the quiver of the magazine and swivelled into the drilling axle. The removal is done in reverse order, the rods are picked up with the manipulator from the drilling axle and put back into the quiver of the magazine. For overburden drilling the inner rods are removed and put back into the quiver. After the installation of the anchor the outer casings are extracted and put back over the already removed inner rods in the magazine. Thus the double rods are available for the next hole.

A particular advantage of the rod changer is that it can be used for horizontal as well as for vertical drilling.

Drilling works with AN 150 and continuous auger in Korea, the manipulator takes the first auger to swivel it into the drilling axle

AN 150 with rod changer KBM 150, the outer casing is being removed and put back into the quiver over the inner rod using the manipulator
Depending on the drilling task INTEROC hydraulic drifters, rotary heads and double head drilling units are mounted to the anchor drill rigs and to the excavator add-on drilling system BAS as attachments.

**INTEROC Hydraulic Drifters**
- high efficiency
- continuous adjustment of impact frequency by rotary valve control
- continuous adjustment of impact energy
- several motor models with different speed and torque ranges
- hydraulic backhammering device saves hydraulic drifters and drilling tools
- removal of the rods with added hydraulic drifter, even stuck drill rods can be extracted

**INTEROC Rotary Heads**
- robust, reliable, durable
- usable as single auger drive or as an element of double head drilling units
- several motor models with different speed and torque ranges
Double Head Drilling Units

- for drilling with double rods
- assembled of a rotary head (bottom) and optionally a rotary head or hydraulic drifter (top)
- axially displaceable by 400 mm
- optional: fitting to laterally displaceable carriage

Double head drilling unit DKB 2015 mounted on a laterally displaceable carriage. Facilitates fitting of inflexible anchors, as the drilling drive can be moved out of the drilling axle (on the right).

Double head drilling unit DKB 2010 B

Anchor drill rig AN 200 equipped with double head drilling unit installing anchors for a secant pile wall.
Add-on Drilling System
BAS 2200

- efficient universal mast for overburden drilling as well as percussion drilling, depending on the chosen attachment
- suitable for excavators with an operational weight of min. 30 t
- no adjustment of the excavator control system necessary, the control is already integrated in the mast
- operation is carried out by a modern cable and radio remote control system, which provides best view on the working area
### Possible working positions of the excavator add-on drilling system

### Summary INTEROC Machines

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