

Multi-purpose drilling rigs



# Mustang multi-purpose drill rigs

Our Mustang range of rigs are suitable for all types of civil engineering applications, e.g.

- ground reinforcement
- micro piling
- under pinning
- grouting
- jet grouting
- geotechnical surveys
- mineral exploration
- anchoring
- water well drilling



MUSTANG A-32 CBWW



Mustang multi-purpose drill rigs for DTH,Rotary, Top Hammer/ Drifter and Core drilling

#### Range:

- 32 - Skid / C / CB / CNS / R\*

- 52 - C / CB / R\*

- 66 - C / CB / CBT / R\*

\*C = Crawler

CB = Crawler / Boom

CBT = Crawler / Boom / Turnbatle

CNS = Crawler Narrow Space

R = Lorry



MUSTANG S-52 CDB





Overburden drilling systems



# The Dual Energy Percussion System (DEPS)

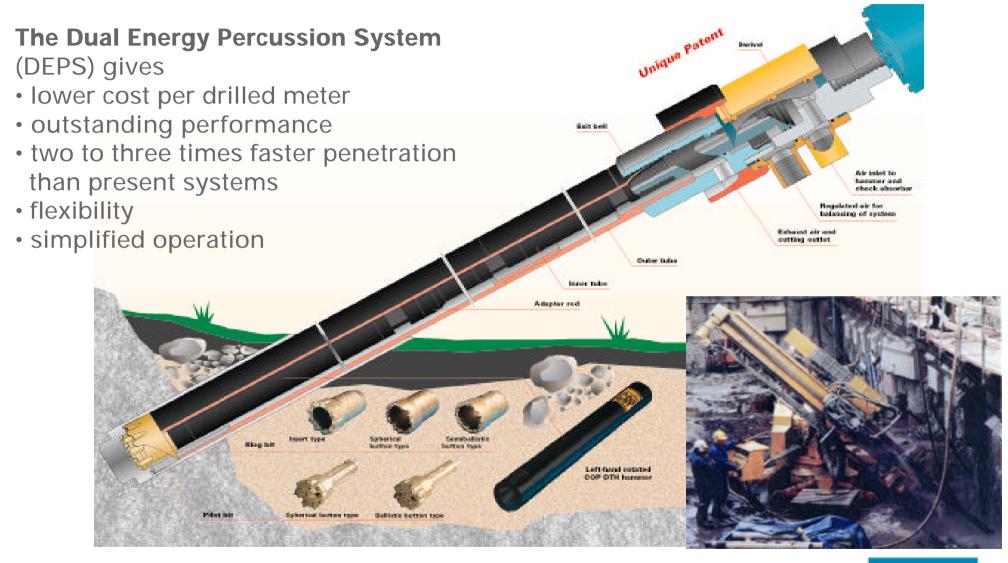
The combination of top hammer drifter and down-the-hole hammer gives

- simplified and fast drilling in blocky formations
- deeper hole depths
- straighter injection holes
- less wear of equipment
- improved drilling economy



Mustang rig equipped with DEPS 133







#### In-the-Hole equipment

ODEX G2 is widely used by water well drillers and contractors for high performance and efficiency in overburden drilling operations.

Dimensions for down-the-hole drilling:

ODEX 90 for 3" hammers

ODEX 115 for 3" and 4" hammers

ODEX 140 for 4" and 5" hammers

ODEX 165 for 5" and 6" hammers

ODEX 190 for 6" and 8" hammers

ODEC 240 for 8" hammers



ODEX G2





**Grouting equipment** 



#### **Grouting Equipment**

Grouting is the process of injecting under pressure a fluid material into rock, soil or artificial constructions in order to stabilize, strengthen and seal the structure.

The Grouting Equipment consists of

- mixer
- agitator
- pump
- recorder and
- packer



Unigrout grouting platform



#### **Grout Plants**

Some typical application areas are:

- dams
- tunnels
- foundation work
- construction work

UNIGROUT is a complete grouting equipment ready for immediate use. It is available in stationary as well as in mobile versions.



UNIGROUT 800-100 EWB



# **Grouting Equipment**

Atlas Copco can offer

- mixers CEMIX
- agitators CEMAG
- grout pumps PUMPAC, ZB, ZM, SPC
- recorders LOGAC
- packers TOP, IPAC
- grout plants UNIGROUT



Customized Grout Plant



#### **Mixers and Agitators**

High speed colloidal grout mixers; CEMIX 03-series

Standard volume: 100, 200 and 400 l.

Agitator with inclined shaft and offse blades;

CEMAG 02-series.

Standard volumes: 200, 400, 800 and 1600 l.



CEMAG agitator

CEMIX mixer



#### **Grout Pumps**

**ZB**-series; electric, hydraulic, pneumatic, single or double acting cylinder with ball valves.

Max capacity 200 l/min Max pressure 140 bar

**ZME** -series; electric, progressive cavity pumps.

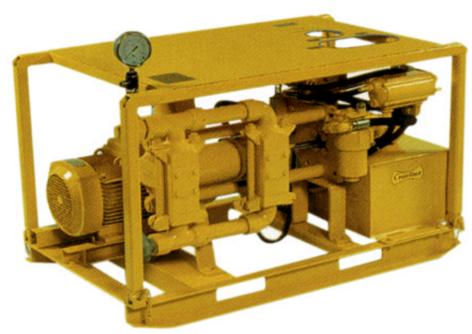
Max capacity 220 l/min Max pressure 12 bar

SPC 90 A ; pneumatic grout pump.

Max capacity 16 l/min Max pressure 90 bar

**PUMPAC**; electric, hydraulic, double acting, user friendly.

Max capacity 235 I/min Max pressure 100 bar



ZBE pump



#### **PUMPAC**

- Self cleaning fluid end
- Modularised parts for easy maintenance
- Only one 46 mm wrench for servicing
- Independent and stepless variable pressure and flow



PUMPAC - the pump system for the 21st century



#### **LOGAC**

The LOGAC 4000 system is a computer based recording system for sampling and storing of data during grouting operations.

The logged parameters are

- flow
- pressure
- volume
- time and real time.

This reliable and simple system is designed for field operation. The logged data is stored on a PC card.







The LOGAC recording system



#### **Packers**

For efficient sealing in grouting operations and for water loss tests.

Type Expansion range;

- Top packers from 35-40 mm up to 85-90 mm with mechanical expanding rubber sleeve
- IPAC for 35-350 mm



**Packers** 

