KoolKap Bikini Bag

Underwater Blasting Solutions

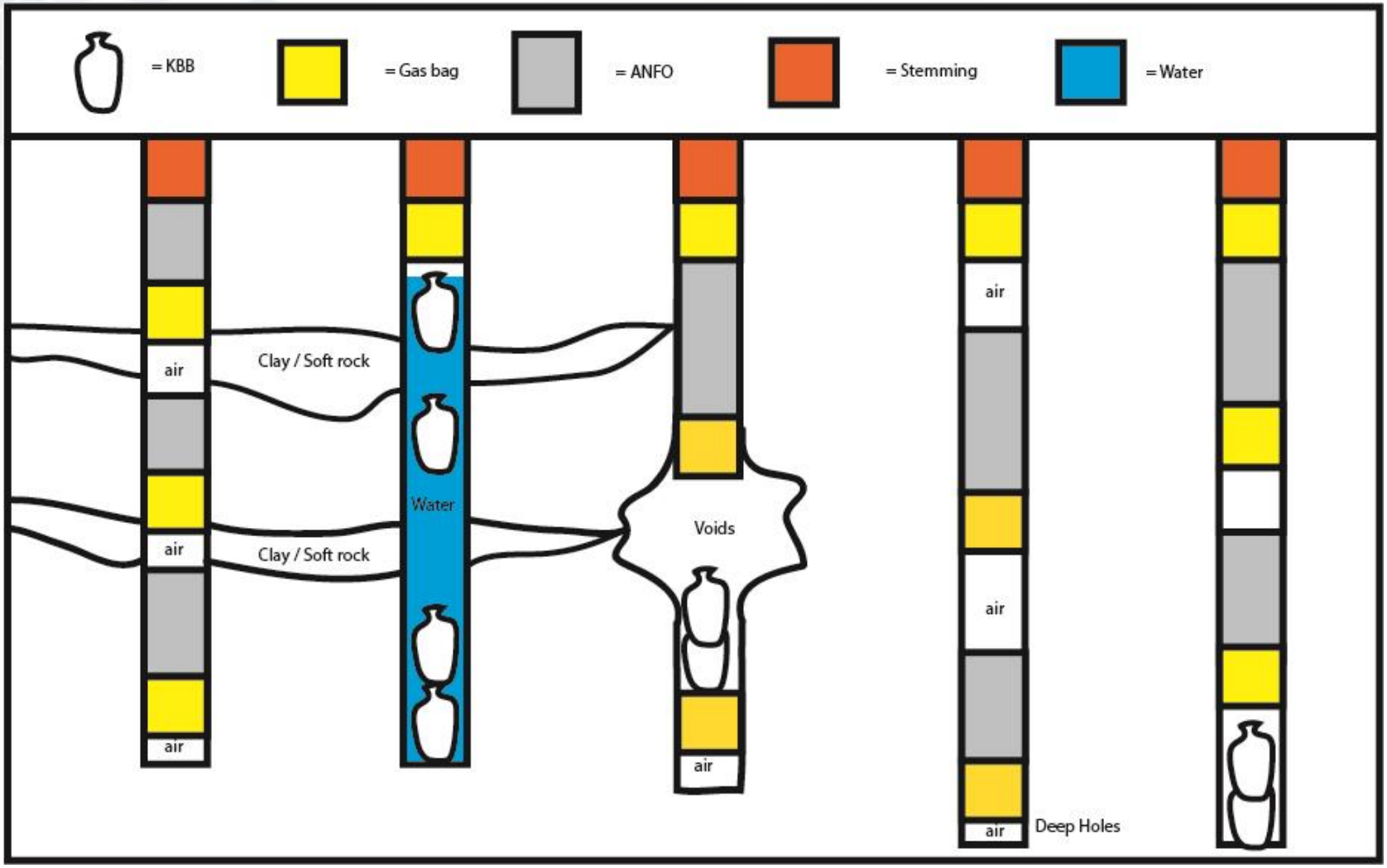
Applications

The main application for this system is in wet production holes.

Prevents Dead Pressing in blast columns over 70 metres and can be placed precisely adjacent to hard bands in wet holes.

Can also be used as a decoupled charge to reduce power factor in blown out holes or pre splits

Examples of using KBB's and decking



Example 1

Bands of clay / soft ground in a dry hole

- Stand-off 1-2m
- Air deck
- ANFO
- Air deck adjacent to clay
- ANFO
- Air deck adjacent to clay
- ANFO
- Stemming (good quality cuttings)

Example 2

Bands of clay / soft ground in a wet hole

- No Dewatering
- KBB toe charge
- Suspend KBB in hard bands
- Air deck above water
- Stemming

Example 3

Voids

- Stand-off 1-2m
- Air deck
- KBB’s sitting on air deck
- Air deck above voids
- ANFO
- Air deck
- Stemming

Example 4

Deep holes

In dry holes deeper than 80m

- Stand-off 1-2m
- Air decking
- ANFO
- Spaced air deck
- ANFO
- Spaced air deck
- Stemming

Example 5

Deep holes

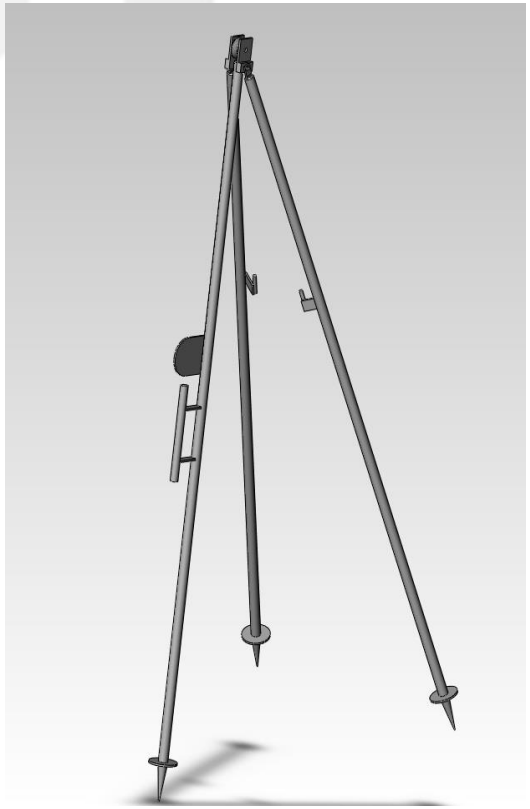
In wet holes deeper than 80m

- KBB's will avoid "dead pressing" by reducing column pressure on the toe charge

Drill manufacturers are designing new rigs to drill 90-100m depths

Loading & lowering

Tripod



Trapeze attached to hydraulic boom on LV

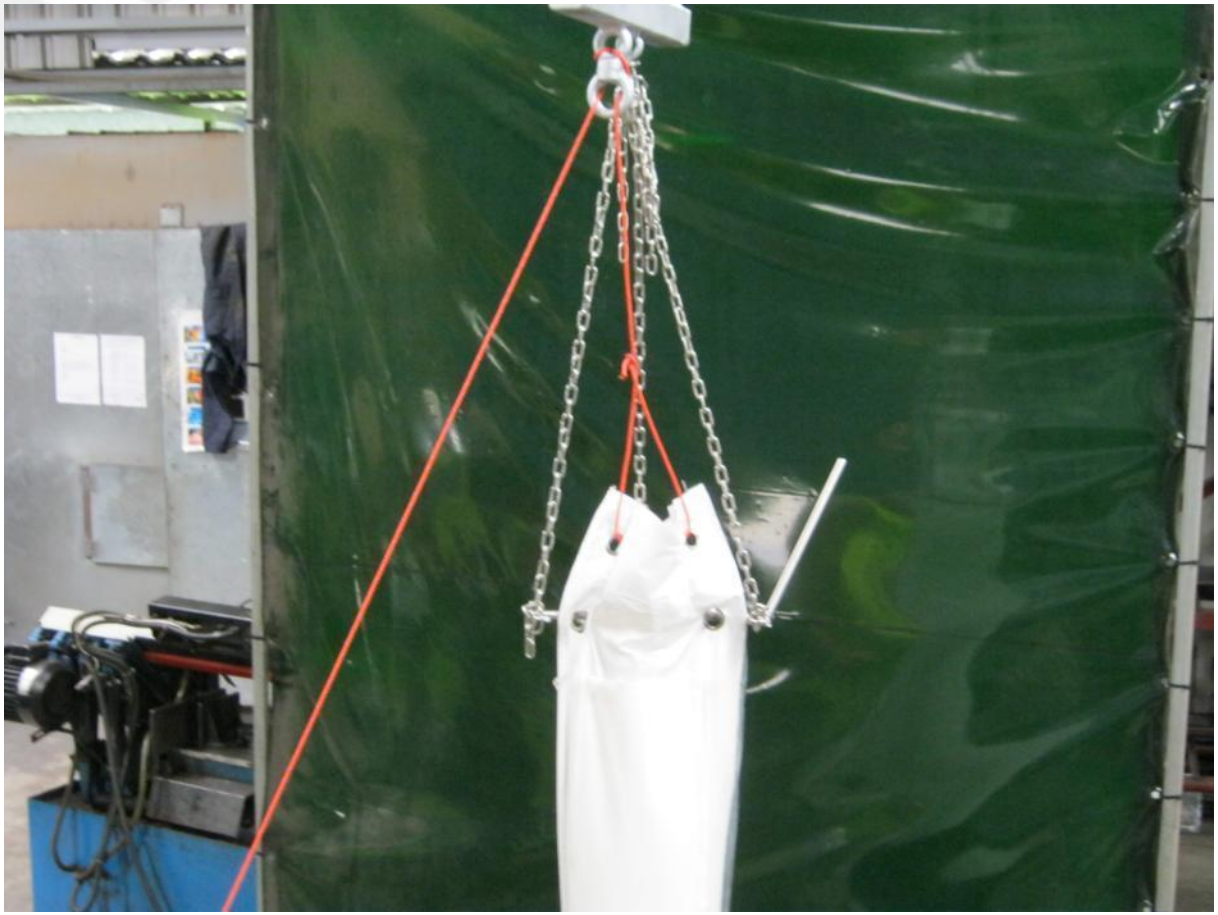
Bag positioned through lower eyelets on loading pegs, lowering rope through top eyelets to figure 8 friction brake.

Lowering brake and trapeze detail

Loading bag on tripod system

Booster placed inside inner bag and pumping product

Loaded bag ready to lower by pulling the handle forward



230 diameter bag in a 230mm tube

Inner bag folded and filled bag tied off for protection against DYNAMIC water

KBB's in action