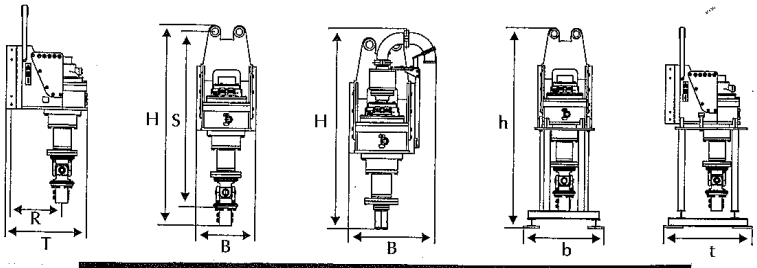
# PRE-AUGERING

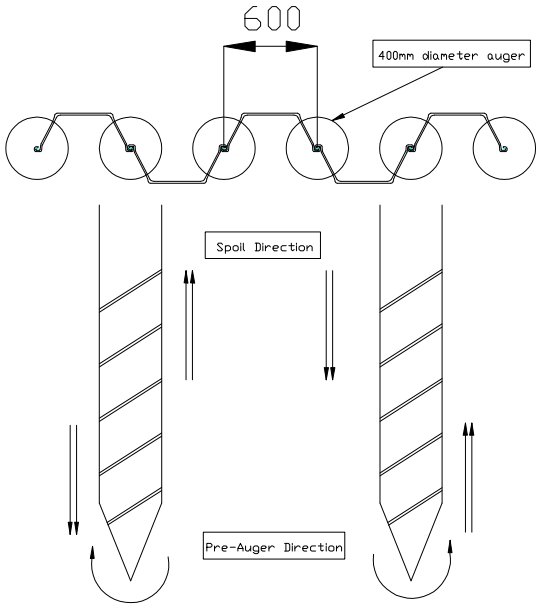
## Pre-augering

Reasons & Effects of Pre-augering;

- Where either the depth of the gravels or their density render water jetting inefficient for penetrating the strata then pre-augering is used to disturb the dense terrace gravels thus enabling the water jetting to be used effectively or in some instances not at all.
- To probe for obstacles along the pile line, probing for obstacles is of course a standard procedure of most piling systems whether as part of a retaining wall or as individual piles.
- The effects are short lived as the soil will reconsolidate when the piles are installed by water jetting or vibratory means.
- It can be used to reduce the effects of ground-borne vibrations when using a vibratory system and also may reduce the size of the pile required, based on drive-ability.
- It may reduce the need for back driving with an impact hammer to put the piles to their final level.




| Technical data MDBA | | 3500 | 3500-2* |
|---|---|---|---|
| Torque | daNm | 3600 | 1800 |
| Revolutions max. | min$^{-1}$ | 70 | 120 |
| Hydraulic flow rate | l/min | 540 | 460 |
| Required oil quantity per rotation | l | 7,5 | 3,8 |
| Required hydr. power at auger drive | kW | 270 | 230 |
| Static extraction force max. | kN | | 200 |
| Nominal oil pressure | MPa | | 30 |
| Total weight (incl. cardanic joint) | kg | | 1400 |
| Transport weight | kg | | 1630 |
| Hexagon connection(SW - M Socket/female) | mm | | 100 |
| **Concrete swivel** (optional) | | | |
| Inner diameter | mm | | DN 100 |
| **Dimensions** | | | |
| H Height/with swivel | mm | | 2225/2050 |
| B Width/with swivel | mm | | 690/910 |
| T Depth | mm | | 970 |
| R Guide to drilling axle | mm | | 600 |
| S Locking to bottom | mm | | 1970 |
| **Transport dimensions without swivel** | | | |
| Height (h)/width (b)/depth (t) | mm | | 2470/1020/1120 |




When pre-augering we drill-in in one direction and we counter rotate the auger whilst extracting it to return as much of the disturbed ground to its original position as possible. We do not wish to create voids in the ground and we do our utmost to avoid doing so.