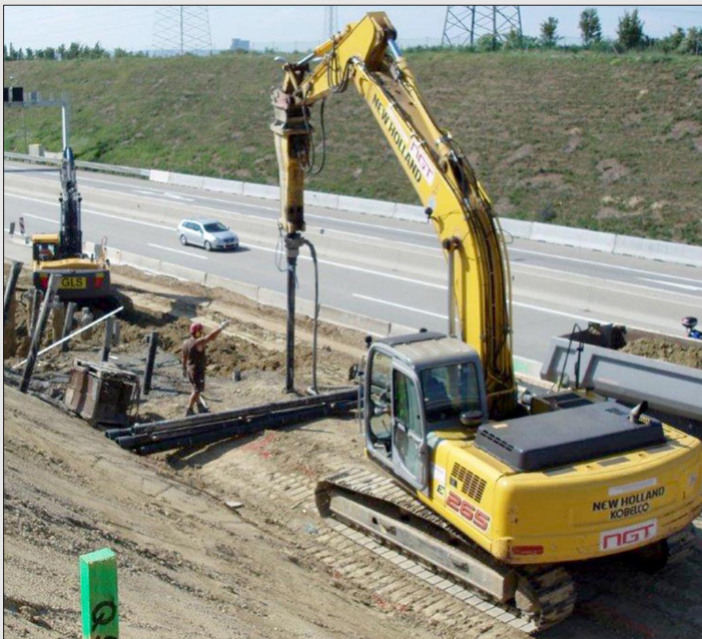


DUCTILE IRON PILES

Because every driven pile is a tested pile



DESCRIPTION

Ductile iron piles are made of cast iron GJS 450-1 in sections of 5.0, 5.5 or 5.65 m net length (for container loading) and driven into the soil by an excavator with suitable hydraulic hammer. Non-grouted end bearing piles are mainly for projects with a solid stratum while grouted piles are used where skin friction can be activated.

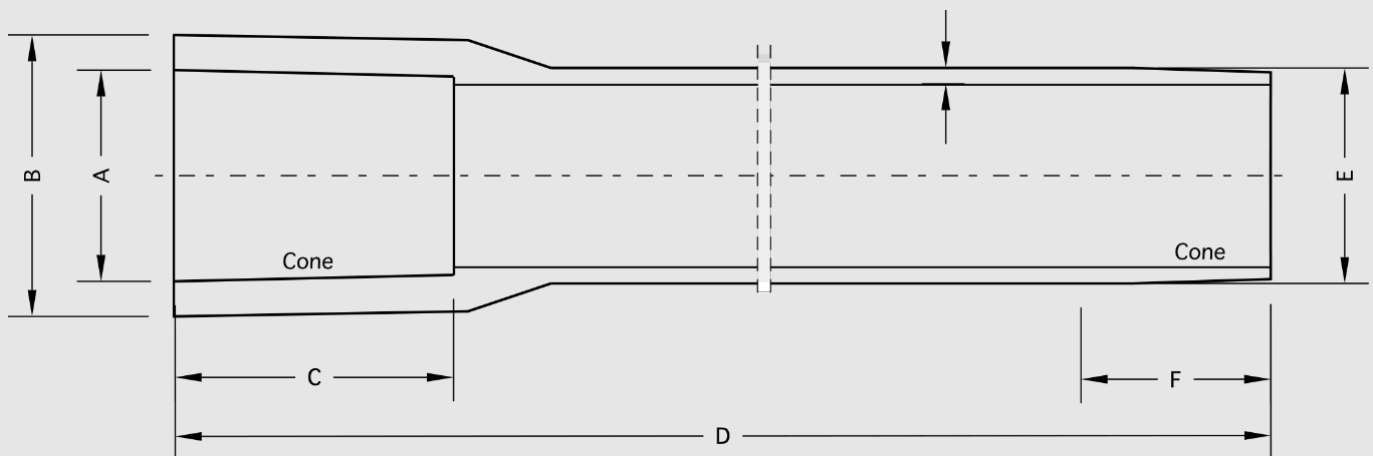
We offer the complete system including pile driving shoes for grouted and non-grouted piles as well as pile connectors and driving adapters to connect the pile top to the hydraulic hammer and grouting boxes.

APPLICATIONS

- Foundation of buildings
- Foundation of prefabricated structures
- Bridge construction
- Slope stabilisation
- Uplift protection
- Underpinning foundations
- Tall structures (silos, transmission towers, etc)
- Retaining walls

DIMENSIONS, TOLERANCES & ADVANTAGES

| Type | Outer diameter mm | Wall thickness mm | Weight kg/m | Internal load bearing capacity kN | Load bearing capacity with concrete C20/25 kN |
|----------|----------------------|----------------------|----------------|--------------------------------------|--|
| 118/7.5 | 118 | 7.5 | 21.00 | 833 | 944 |
| 118/9.0 | 118 | 9.0 | 24.4 | 986 | 1091 |
| 118/10.6 | 118 | 10.6 | 28.0 | 1144 | 1243 |
| 170/7.5 | 170 | 7.5 | 33.8 | 1225 | 1477 |
| 170/9.0 | 170 | 9.0 | 37.1 | 1457 | 1699 |
| 170/10.6 | 170 | 10.6 | 42.5 | 1699 | 1930 |
| 170/13.0 | 170 | 13.0 | 50.4 | 2052 | 2269 |



| Section | Dimensions | Unit | Type 98 | | Type 118 | | Type 170 | |
|------------|----------------|------|--|-----------|--------------|-----------|--------------|-----------|
| | | | Size | Tolerance | Size | Tolerance | Size | Tolerance |
| Pile tube | Outer ø E | mm | 98 | +1.5/-1.0 | 118 | +1.5/-1.0 | 170 | +2.5/-1.0 |
| | Length D | m | 5-6 | +/-100 | 5-6 | +/-100 | 5-6 | +/-100 |
| Pile shaft | Wall S | mm | 6.0 | -0.8 | 7.6 | -0.8 | 9.0 | -0.8 |
| | | | 7.5 | -0.8 | 9.0 | -0.8 | 9.0 | -0.8 |
| | | | | | 10.6 | -0.8 | 10.6 | -0.8 |
| | | | | | | | 13.0 | -0.8 |
| | Straightness | mm | According to EN545:2011 section 4.2.4 < 0.125% of pile pipe length | | | | | |
| Socket | Inner ø | mm | 104 | +2.0/-1.0 | 118.5 | +2.0/-1.0 | 171.5 | +2.0/-1.0 |
| | Outer ø | mm | 132 | +/-1.6 | <162 | | <220 | |
| Conus | Conus length C | mm | 125 | +/-3.0 | 155 | +/-3.0 | 215 | +/-3.0 |
| | Conus | mm | 1:8 to 1:18 | | 1:10 to 1:18 | | 1:12 to 1:18 | |
| | Conus length F | mm | 125 | | 110 | -20 | 150 | -20 |
| | Outer ø E | mm | 98 | +1.5/-1.0 | 118 | +1.5/-1.0 | 170 | +2.5/-1.0 |

ADVANTAGES

- Ductile iron piles can be driven by standard hydraulic excavators of 25-35 tons operating weight.
- The spigot and socket connection is fast, reliable and does not need any welding.
- Therefore the pile length can be easily adjusted to meet different ground conditions and load requirements.
- Low vibration by the hydraulic hammer allows installation of piles close to existing structures.
- Due to high carbon and silicon content ductile iron piles have higher corrosion resistance than steel.
- Excellent driving performance make these piles a very economical foundation solution for many applications.



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