

Banut 300



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The Banut 300 rigs were designed and built by ABI in Germany to Aarsleff Ground Engineering's specification. The Banut 300s' have a reduced bearing pressure and so can give significant cost savings with the platform requiring less material than alternative rigs traditionally used for housing schemes. The rigs allow Aarsleff to pile on restricted access sites and enable us to pitch a 9-metre-long pile, which offers further savings with reduced joint costs.

The Banut rigs are fast to mobilise and to rig/derig. The Banut 300 offers a rapid set up time. It can be on site and piling within 30 minutes of arrival under the correct conditions. With very little input from outside the cab, the rigging operation is much safer when compared to other rigs.

The ability of the Banut's rig to be transported on a step frame trailer also means that it can access

sites located at the back of existing housing estates, moving past parked cars or through limited site access points, reducing the need to unload the rig from a low loader on the road and track into the site on boards to protect paved surfaces.

Aarsleff Ground Engineering set some very stringent performance criteria for the Banut 300 rigs, and found that only ABI could rise to the challenge with their bespoke machines.

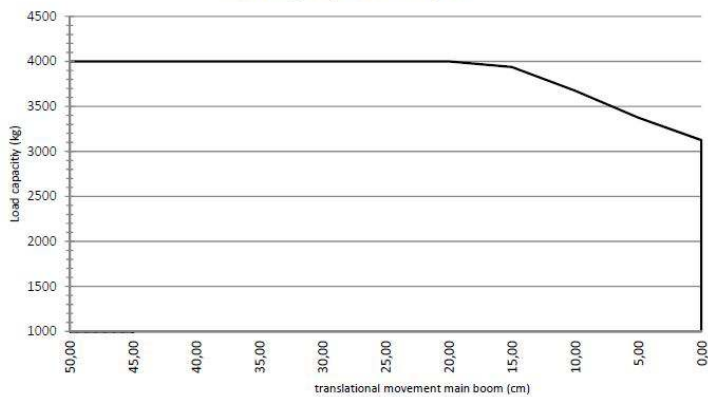
Aarsleff Ground Engineering have always had a strong presence in the residential/domestic housing sector, where access is typically restricted, and the Banut rigs have since increased their capability enormously. It has extended Aarsleff's ability to work on more complex commercial projects, as these too require specialist rigs or have space only for minimal platforms.

- Overall operational weight below 30 tonnes
- Compact transport dimensions
- Low ground bearing pressures to reduce the cost of piling platform preparation
- 2.5 Tonne Hydraulic Hammer
- Self-erecting without any working at height issues
- Data recording facility
- 9m pile length in a single section
- Fully compliant with BS EN16228 standards for Drilling and Foundation Equipment.



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Load capacity - reach Diagram



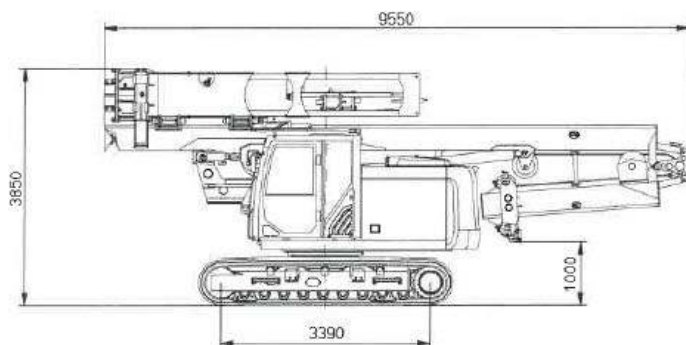
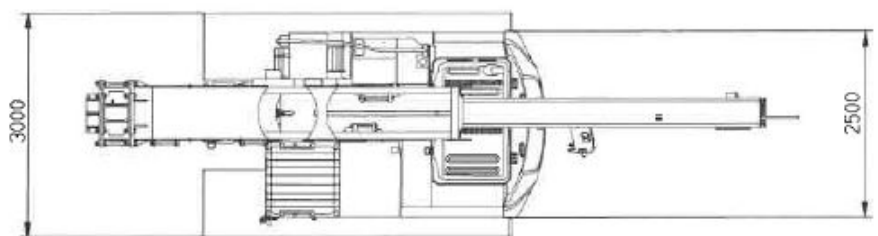
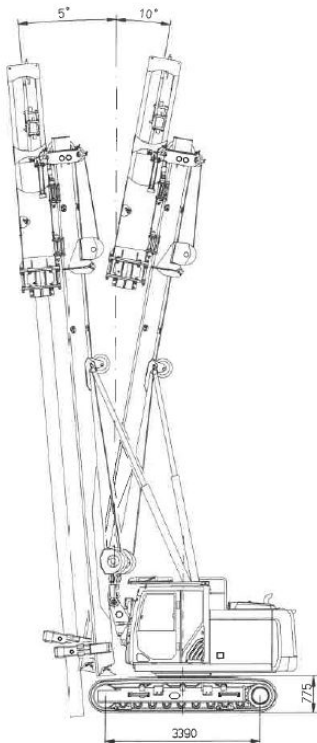
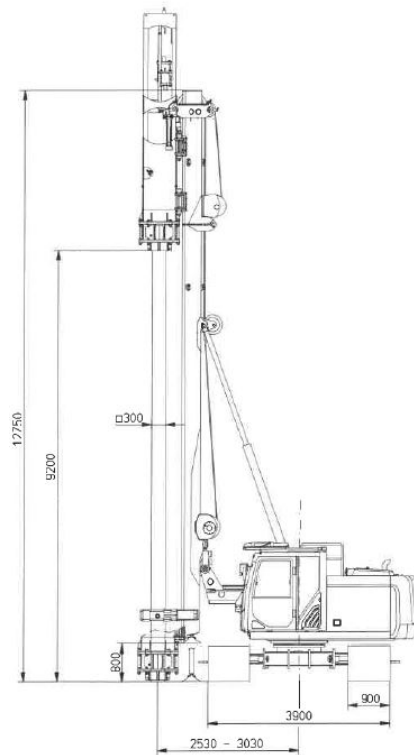
Note

Requirements for calculated values:

- working range 360° - vertical leader mast
- inclination left / right and rear allowed
- tramming and upper carriage slewing allowed
- horizontal and stable ground
- under carriage S20/34 CVT - crawler width 900 - tracks extended
- counter weight 3,44t
- hydraulik hammer VDH2,5 AL1200 attached
- slewing speed upper carriage 2 1/min
- driving axis 500mm in front of leader mast
- pile driving with 9m piles

- load capacity is permitted pile weight

All dimensions and weights are approximate values





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7 Technical Data

7.1 Data Sheet

Fixed Leader Mast		BANUT 300
Leader mast displacement		
Upper ground	mm	800
Leader mast inclination front/rear	° Grad max.	5/10
Leader mast inclination laterally	° Grad max.	5
Load capacity at minimum reach	kg max.	4.000
Extraction force		
Pile winch	kN max.	40
Hammer winch	kN max.	60
Pile winch and Hammer winch		
Pile winch - Rope speed	m/min.	33
Hammer winch - Rope speed	m/min.	33
Pile winch - Rope diameter	mm	16
Hammer winch - Rope diameter	mm	18
Weight without attachment (ca.)*	kg	25 000
Weight with attachment (ca.)*	kg	30 000
Dimensions		
Height max.	mm	20.950
Center to guide	mm	2.530 - 3.030
Center to back	mm	2.500
Transport width	mm	3.000
Transport length	mm	9.550
Transport height	mm	3.850
Leader Mast		
Length	mm	12.750
Width	mm	405
Base carrier		CAT 318E
Engine		CAT C4
Engine power	kW	89
Hydraulic flow rate	l/min	2x150, 1x32
Hydraulic tank capacity	l	195
Hydraulic oil	l	HLP 46
Nominal oil pressure	MPa	32
Track width	mm	1.900 - 3.000
Chain width	mm	900

* Possible variations depending on equipment and carrier - Design subject to change.

Technical data of the carrier: see specifications of the carrier manufacturer.

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Aarsleff Ground Engineering Ltd, is the UK trading arm of Danish contracting giant Per Aarsleff A/S, and is one of the UK's leading piling and geotechnical design and installation specialist contractor; actively promoting early consultation to ensure each scheme can be Value Engineered to give clients the best service, quality design, safety and value. Aarsleff's strategy and philosophy of investment into the future has resulted in its wholly owned subsidiary Centrum Pile Ltd having the most advanced precast pile production facilities in the UK, and an extensive fleet of ground engineering and piling rigs.

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