



**NSTT**  
GmbH

# Drehbohrgerät **GEAX EK60**

 **GEAX**  
Vertragshändler

**NEUF**  
Spezialtiefbautechnik

- Beratung
- Vermietung
- Verkauf
- Service

# EK60

HYDRAULIC PILING RIG





# GEAX EK60 NO COMPROMISE

## HIGH PRODUCTIVITY

Thanks to an efficiently engineered hydraulics with high quality components and a powerful last generation engine, the EK60 offers superior performance relative to the size, while keeping very low running costs.

## UNIQUE ARCHITECTURE

Like all Geax machines, the EK60 has a long supporting boom and a sliding mast. This allows a great variety of tool positioning for drilling like: long reach drilling, low headroom and maximized tool height for casing.

## MANEUVERABILITY

With its compact architecture and a proverbial stability, the EK60 can drill in any site including slopes, uneven terrains and tight spaces. The higher maneuverability allows fast movements compared to a traditional rig.

## VERSATILITY

The EK60 can easily be converted in other drilling modes with modular kits. Common set-ups are kelly drilling and CFA, but many others are possible like diaphragm walls, soil mixing, soil displacement hydraulic hammer and customized set-up.

# LARGE DIAMETER PILES

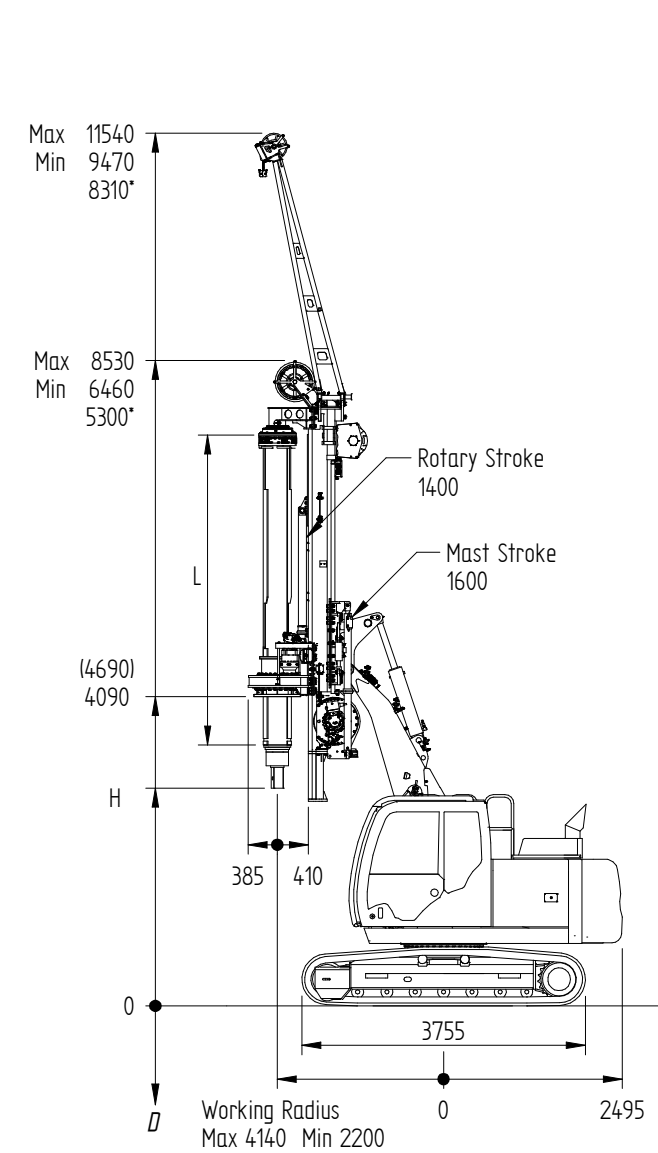
Version S - short mast  
Version L - long mast



|                               |          |              |
|-------------------------------|----------|--------------|
| Max pile diameter¹            | mm - in  | 1200 - 48    |
| Pull down force               | kN - lbf | 105 - 23.600 |
| Extraction force              | kN - lbf | 110 - 24.730 |
| Mast stroke                   | mm - ft  | 1.600 - 5.25 |
| Rotary stroke on mast         | mm - ft  | 1.400 - 4.6  |
| Total rotary stroke           | mm - ft  | 3.000 - 9.85 |
| Min working height S version² | mm - ft  | 5.300 - 17.4 |
| Min working height L version² | mm - ft  | 6.650 - 21.8 |

NOTES: 1. Recommended  
2. With a short kelly bar

## S version



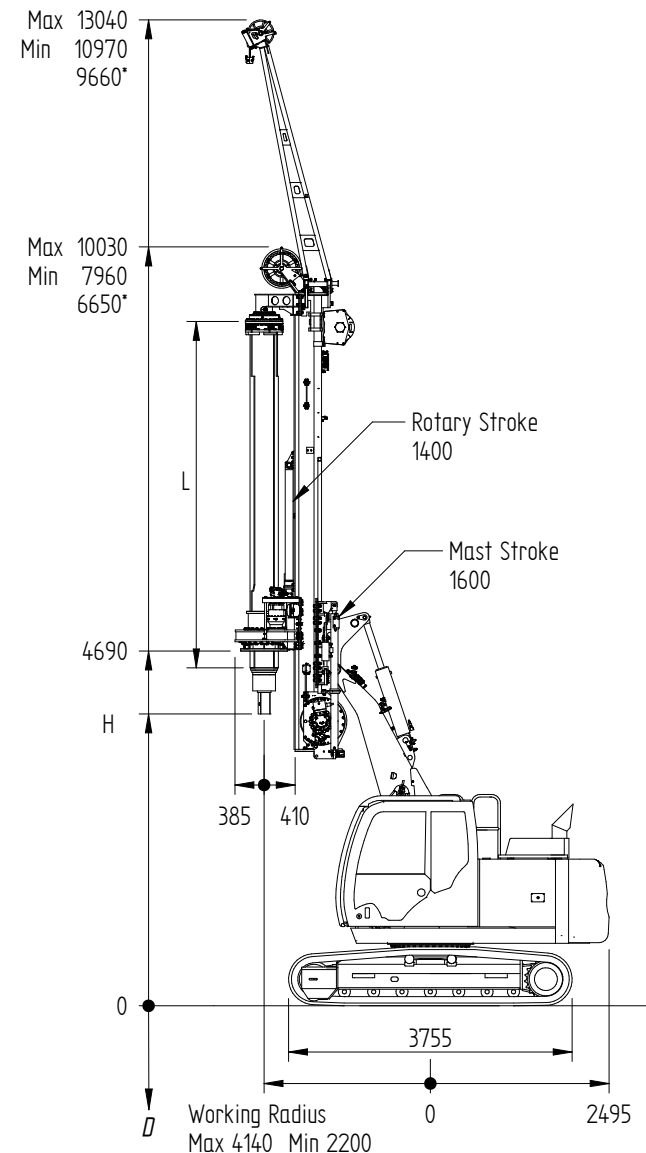
\* with a short kelly bar



| n° elements x m      | Depth          | H                      |
|----------------------|----------------|------------------------|
|                      |                | S version L version    |
| 6 x 4 (standard S)   | m - ft 21 - 69 | 2.95 - 9.7 4.45 - 14.6 |
| 6 x 4.6 (standard L) | m - ft 25 - 82 | - 3.85 - 12.6          |
| 5 x 4 Heavy Duty     | m - ft 18 - 59 | 2.95 - 9.7 4.45 - 14.6 |
| 5 x 4.6 Heavy Duty   | m - ft 21 - 69 | - 3.85 - 12.6          |
| 6 x 5                | m - ft 28 - 92 | - 3.45 - 11.3          |

All kelly bars are round interlocking  
Friction kelly and custom measures available upon request

## L version



\* with a short kelly bar

# CONTINUOUS FLIGHT AUGER

Version L - long mast



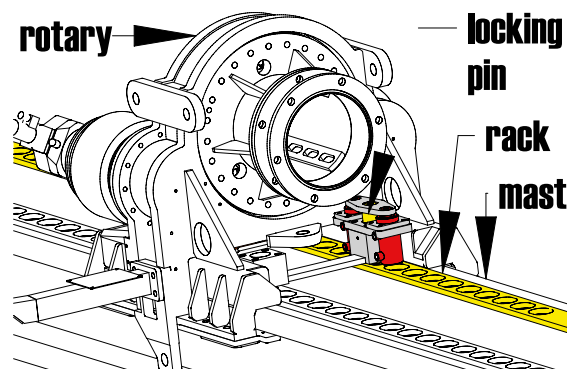
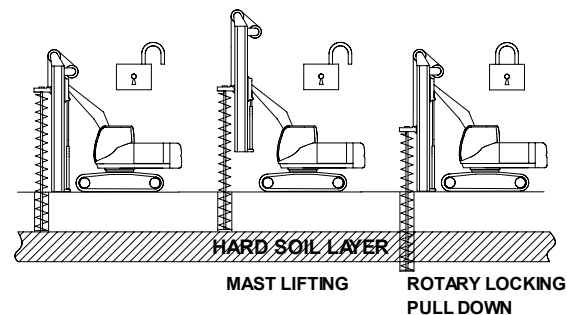
|                    |          |              |
|--------------------|----------|--------------|
| Max pile diameter¹ | mm - in  | 600 - 24     |
| Pull down force    | kN - lbf | 120 - 27.000 |
| Extraction force   | kN - lbf | 215 - 48.340 |
| Mast stroke        | mm - ft  | 1.600 - 5.25 |

| L version             |         |             |
|-----------------------|---------|-------------|
| Max pile depth        | m - ft  | 14.3 - 47   |
| Rotary stroke on mast | mm - ft | 9.630 31.6  |
| Total rotary stroke   | mm - ft | 11.230 36.8 |
| Max auger length      | mm - ft | 9.500 31.2  |

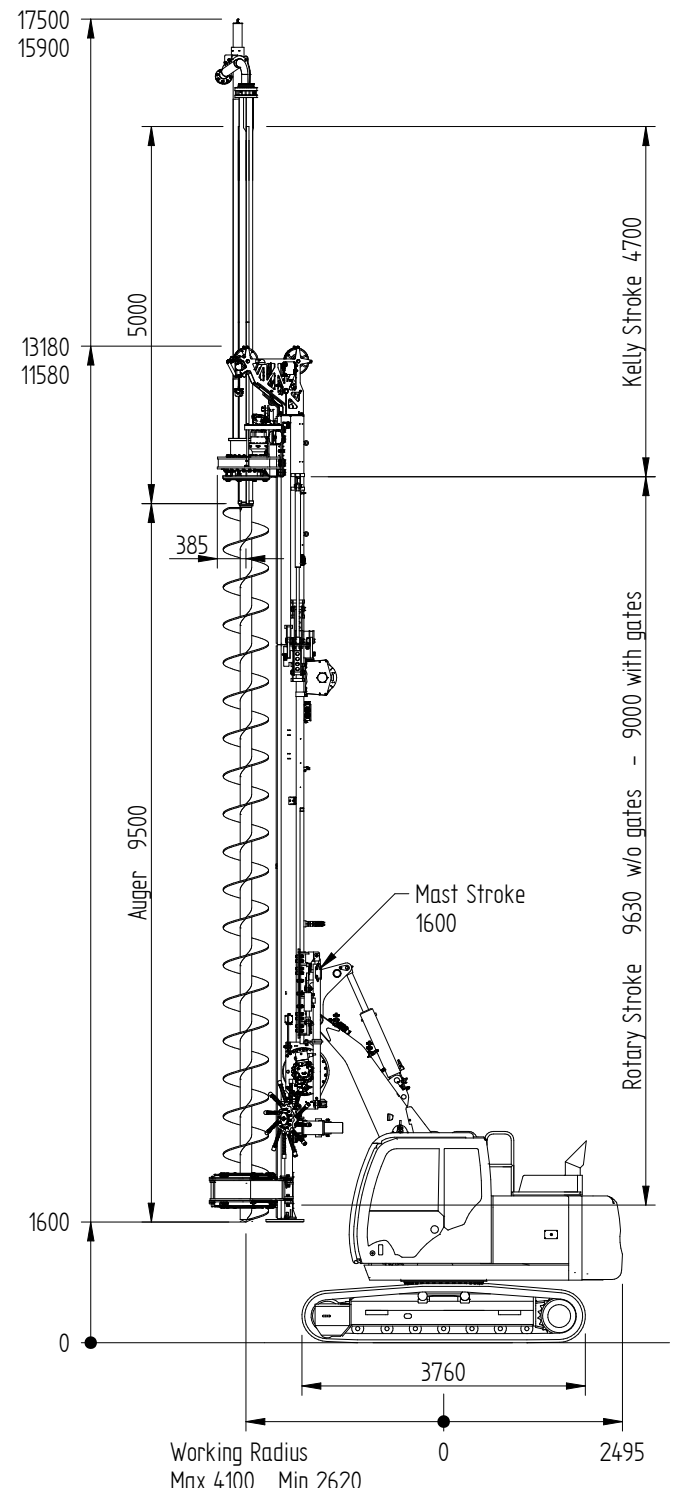
NOTES: 1. Recommended

## BPS Patented Crowd System

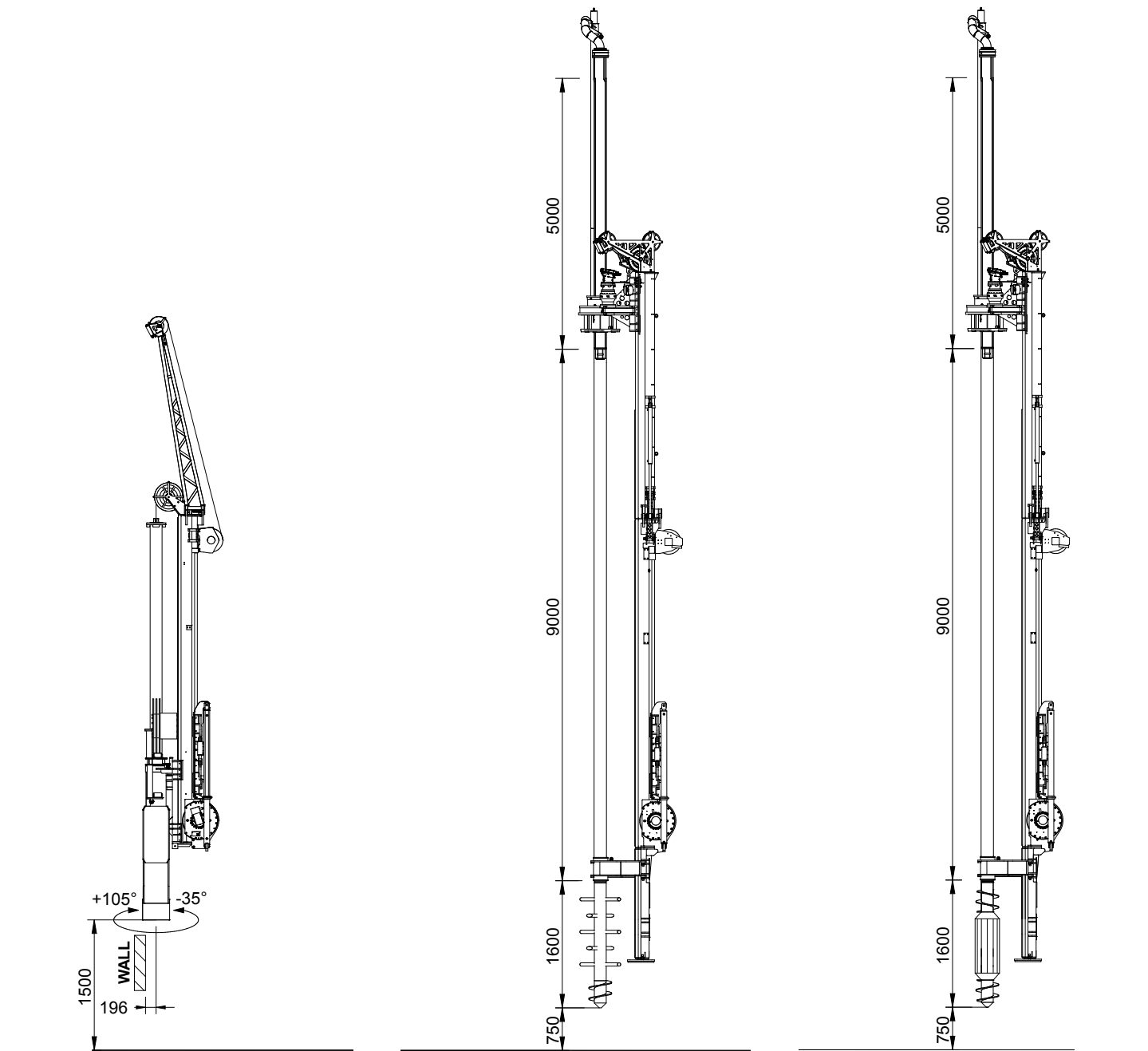
BPS is the Geax patented crowd system for CFA piling providing a mechanical locking system between the rotary head and the mast which creates a crowd force on the auger available along the entire length of the mast. The system is activated only when needed by the operator and requires no pulleys or rope



## L version



DRILLING KITS



DIAPHRAGM WALL

Max depth 16 m  
Trench width 300 - 500 mm  
Trench length 2500 mm  
Closing force 120 kN

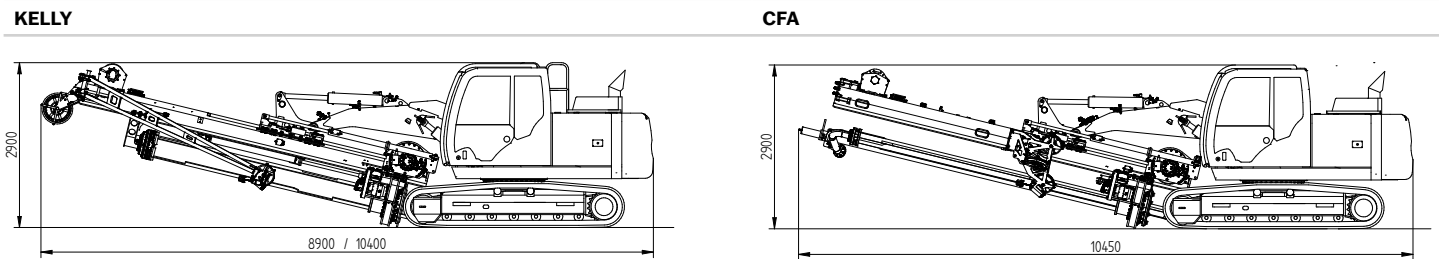
SOIL MIXING

Max depth 14.3 m  
Max diameter 600 mm  
Rotary speed 55 rpm

SOIL DISPLACEMENT

Max depth 14.3 m  
Max diameter 400 mm  
Pull down force 119 kN  
Extraction force 220 kN

TRANSPORT



TECHNICAL DATA SHEET

BASE CARRIER

|                    |         |                    |
|--------------------|---------|--------------------|
| Engine             | type    | G2 D34 - DL06      |
| Exhaust emission   | EU      | Stage V - III      |
|                    | EPA     | Tier4f - 3         |
| Engine power       | kW (hp) | 86 (115) - 71 (95) |
| Main pumps         | l/min   | 2x114              |
| Hydraulic pressure | bar     | 330                |

MAST

|                      |         |              |
|----------------------|---------|--------------|
| Forward tilt         | deg     | >10          |
| Backward tilt        | deg     | >10          |
| Lateral tilt         | deg     | ± 6.5        |
| Mast vertical stroke | mm - ft | 1.600 - 5.25 |

WINCHES

|                                  |          | KELLY       | CFA             |
|----------------------------------|----------|-------------|-----------------|
| Main winch line pull (1st layer) | kN - lbf | 82 - 18.440 | 82x3 - 18.440x3 |
| Aux winch line pull (1st layer)  | kN - lbf | 33 - 7.420  | 33 - 7.420      |

DRILLING

|                                   |         | S version    |     | L version    |               |
|-----------------------------------|---------|--------------|-----|--------------|---------------|
|                                   |         | KELLY        | CFA | KELLY        | CFA           |
| Max pile diameter <sup>1</sup>    | mm - in | 1.200 - 48   | -   | 1.200 - 48   | 600 - 24      |
| Std pile depth                    | m - ft  | 21 - 69      | -   | 25 - 82      | 14.3 - 47     |
| Max pile depth                    | m - ft  | 21 - 69      | -   | 28 - 92      | 14.3 - 47     |
| Rotary stroke on mast             | mm - ft | 1.400 - 4.6  | -   | 1.400 - 4.6  | 9.630 - 31.6  |
| Total rotary stroke               | mm - ft | 3.000 - 9.85 | -   | 3.000 - 9.85 | 11.230 - 36.8 |
| Min working headroom <sup>2</sup> | mm - ft | 5.300 - 17.4 | -   | 6.650 - 21.8 | 8.580 - 28.1  |

TRANSPORT

|        |          | S version       |     | L version       |                 |
|--------|----------|-----------------|-----|-----------------|-----------------|
|        |          | KELLY           | CFA | KELLY           | CFA             |
| Length | mm - ft  | 8.900 - 29.2    | -   | 10.400 - 34.1   | 10.450 - 34.3   |
| Width  | mm - ft  | 2.490 - 8.2     | -   | 2.490 - 8.2     | 2.490 - 8.2     |
| Height | mm - ft  | 2.900 - 9.5     | -   | 2.900 - 9.5     | 2.900 - 9.5     |
| Weight | kg - lbs | 21.000 - 46.300 | -   | 22.000 - 48.500 | 21.000 - 46.300 |

- Values are effective except where otherwise specified.
- Technical data are provided as indicative information only, they are subject to change without prior notice

UNDERCARRIAGE

|               |         |              |
|---------------|---------|--------------|
| Tracks width  | mm - ft | 2.490 - 8.2  |
| Tracks length | mm - ft | 3.755 - 12.3 |
| Track shoes   | mm - ft | 500 - 1.64   |
| Tail radius   | mm - ft | 2.495 - 8.18 |

ROTARY HEAD

|                  |              |             |
|------------------|--------------|-------------|
| Torque (nominal) | kNm - lbf ft | 55 - 40.565 |
| Drilling speed   | rpm          | 10 - 55     |
| Spin-off speed   | rpm          | 55          |

CROWD SYSTEM

|                  |          | KELLY        | CFA          |
|------------------|----------|--------------|--------------|
| Pull down force  | kN - lbf | 105 - 23.600 | 120 - 27.000 |
| Extraction force | kN - lbf | 110 - 24.730 | 215 - 48.340 |

- NOTES:
1. Recommended
  2. With a short kelly bar



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- Kellystangen
- Drehteller
- Bohrrohre (div. Durchmesser)
- Kastenbohrer
- Schneckenbohrer
- Abfangschellen
- Betonierschüttrohre
- u.v.m.



**NEUF**  
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