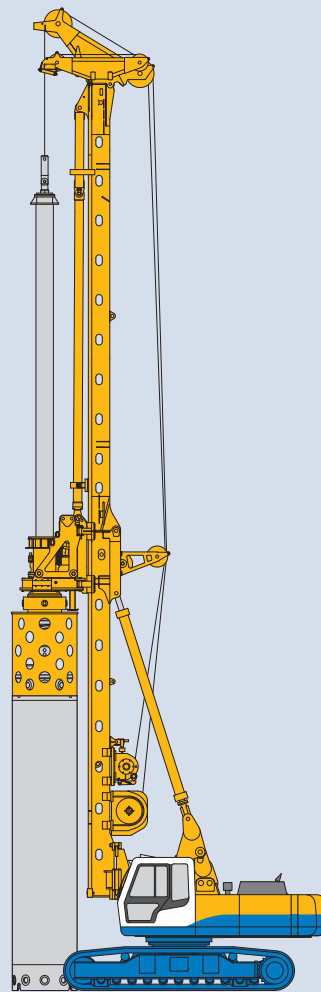
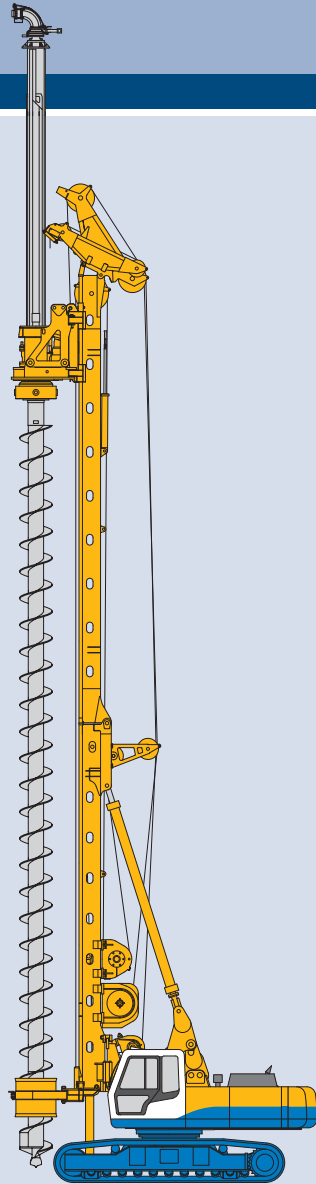


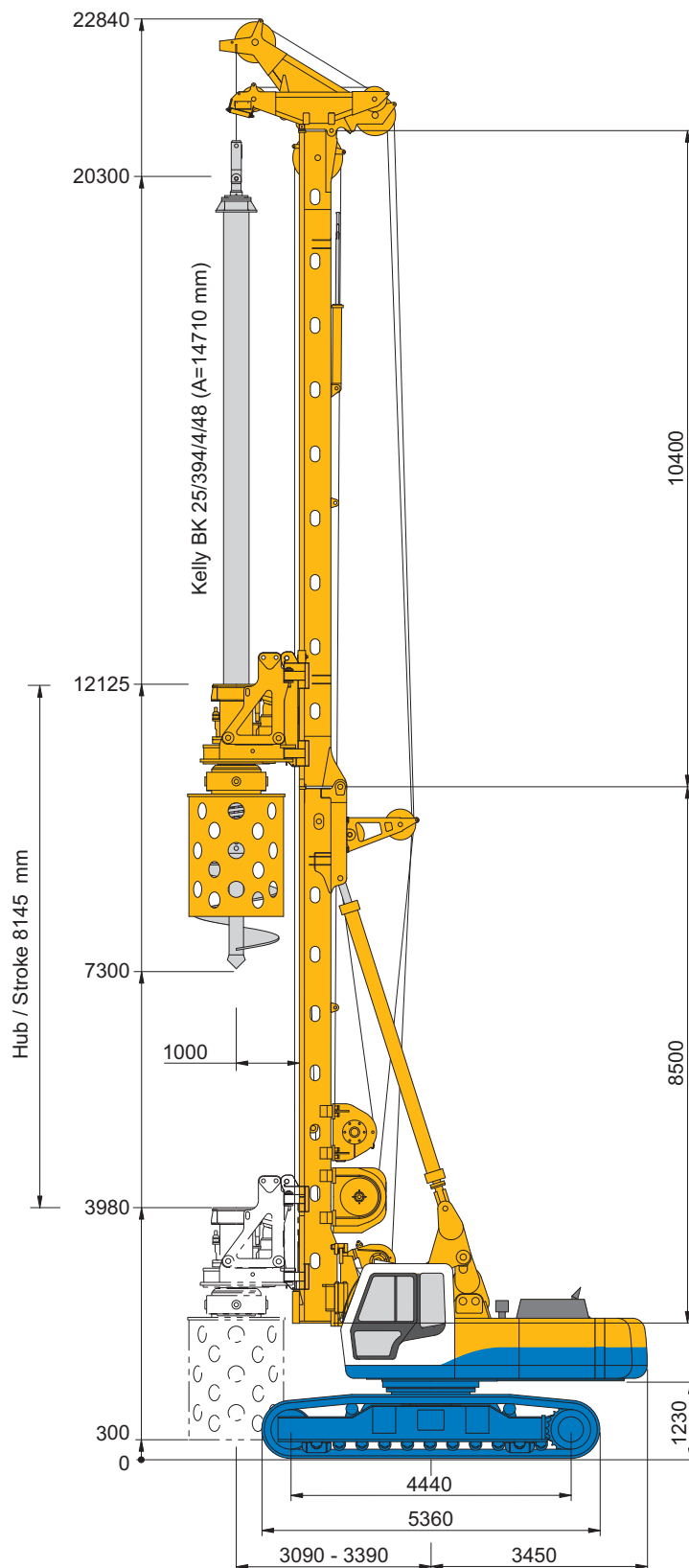
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Base Carrier BH 70



The **BG 25 C (BH 70)** rotary drilling rig has an operating weight of approx. 70 to. It is ideally suited for:

- Drilling cased boreholes (installation of casing by rotary drive or optionally by hydraulic oscillator – both are powered by the drilling rig)
- Drilling uncased deep boreholes that are stabilised by drilling fluid
- Drilling boreholes with long hollow stem augers (CFA system), with or without kelly extensions
- Displacement piles

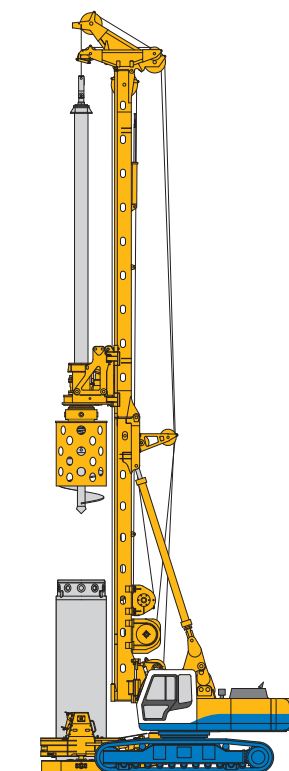
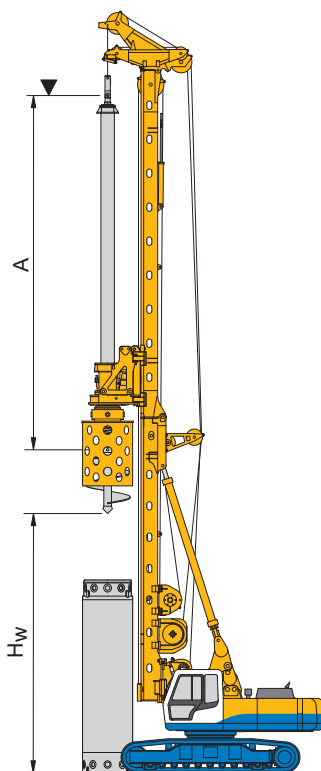
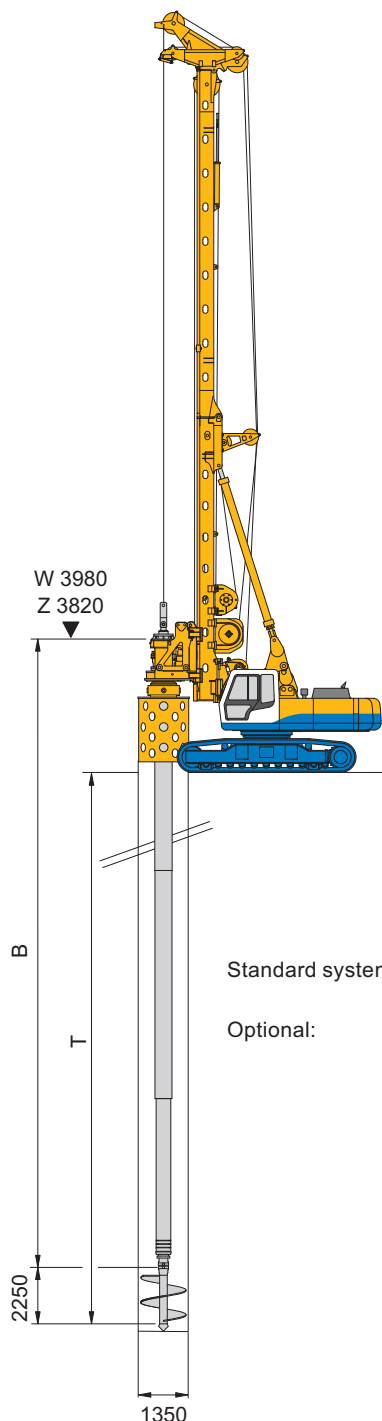


Drilling processes with standard equipment:

Kelly drilling (without casing oscillator)

CFA drilling (pre-equipped with hydraulic and electric installations)

FDP Full-Displacement-Piling (pre-equipped with hydraulic and electric installations)



Zusatzausstattung / optional equipment:

Attachment of hydraulic oscillator
BV 1180 HD-03

Standard system: Uncased drilling or installation of casing with rotary drive
Optional: Installation of casing with hydraulic oscillator attached to the drilling rig

Specifications of the Kelly Bar

Bohrtiefen				Drilling depths			
				Windenvorschub Crowd winch		Zylindervorschub Crowd cylinder	
Kellytyp Type of kelly bar	A (m)	B (m)	Gewicht Weight (kg)	Hw (m)	T (m)	Hw (m)	T (m)
BK 25/394/4/40	12,71	43,47	7.730	6,15	41,20	6,15	41,35
BK 25/394/4/48	14,71	51,47	8.850	4,15	49,20	4,15	49,35

Bohrdurchmesser		Drilling diameter	
Unverroht	Uncased	1.700 mm	1.900 mm
Verroht	Cased	1.400 mm	1.600 mm

Bohrrohrlängen		Length of casing sections	
Ohne BV	Without casing oscillator	Hw – 0,5 m	Hw – 0,5 m
Mit BV	With casing oscillator	Hw – 1,5 m	Hw – 1,5 m

For further details on the acquisition of drilling data please refer to "Kelly Bars 905.518.1"

Technical specifications

	Windenvorschub Crowd winch
Overall height	22.840 mm
Operating weight (approx.) (with kelly BK25/394/3/24)	70.000 kg
Rotary Drive	KDK 250 K
Torque (nominal) at 320 bar	237 kNm
Speed of rotation (max.)	30 U/min (RPM)
Crowd system	
Crowd pressure / pull (effective)	260 / 260 kN
Crowd force push / pull measured at the casing drive adapter on the rotary drive	260 / 210 kN
Stroke (kelly system)	8.145 mm
Stroke (CFA system)	15.800 mm
Speed (down/up)	2,5 / 2,5 m/min
Fast speed (down/up)	20 / 20 m/min
Main winch	
Winch classification	M6 / L3 / T5
Line pull (1st layer) effective/nominal	200 kN / 250 kN
Rope diameter / Length	28 mm / 88 m
Line speed (max.)	81 m/min
Auxiliary winch	
Winch classification	M6 / L3 / T5
Line pull (1st layer) effective/nominal	80 kN / 100 kN
Rope diameter / Length	20 mm / 50 m
Line speed (max.)	45 m/min
Mast inclination	
Backward / forward / lateral	15° / 5° / 5°
Motor Diesel	Cummins QSC 8.3 C280

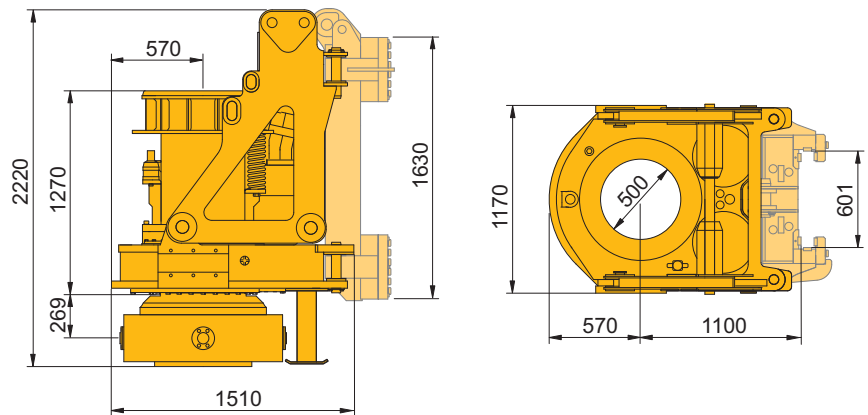
Standard equipment

- Rotary drive KDK 250 K (single gear drive)
- Main winch with hydraulically operated freewheeling
- Main and auxiliary winch with special grooving
- Hoist limit switch on main and auxiliary winches
- Crowd in fast or slow mode
- Swivel for main rope
- Pivoted anchor points for main and auxiliary ropes
- Transport supports for upper and lower mast sections

Measuring and control equipment

- Analog display of pump pressures (3 pressure gauges)
- Bauer extended monitor incl. diagnostic functions
- Display of fault messages as plain text
- Mast inclination measurement on x/y axes (digital / analog display)
- Automatic vertical alignment of mast
- Depth measuring device on main winch
- Swivel alignment function on main winch

Rotary drive



Standard equipment:

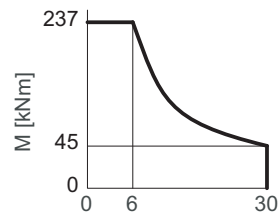
- Integrated kelly damping system
- Wear pads exchangeable without removal of rotary drive
- Exchangeable kelly drive adapter
- Exchangeable kelly drive keys
- Cardanic joint
- Quick-release couplers on hydraulic hoses
- 3 selectable modes of operation (refer to diagrams)
- Transport supports
- Slings gear for rotary drive

Gewicht ohne Schlitten 4,9 to
Weight without sledge

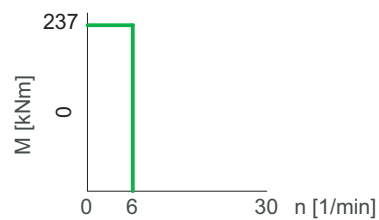
KDK 250 K (Standard)

Konstantgetriebe
Single gear rotary drive

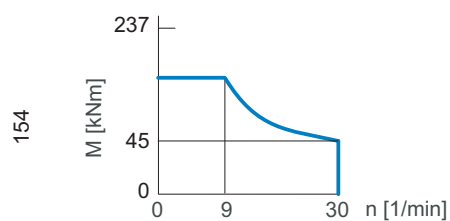
1st gear standard mode



1st gear Set up and rock drilling

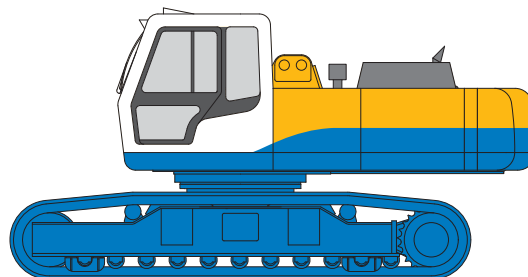


eduziert
1st gear M_D reduced



2nd gear standard mode

nominal torque values,
not to scale



Engine	Cummins 6 CTA 8.3-260
Rated output ISO 3046-1	190 kW @ 2.200 U/min (rpm)
Engine conforms to Exhaust Emission Standard	EEC 97/68EC Stage I und EPA/CARB TIER I
Diesel tank capacity	500 l
Ambient air temperature (at full power)	bis (up to) 40° C
Sound pressure level in cabin (EN 791, Annex A)	L_{pA} 75 dB(A)
Sound power level (2000/14/EG u. EN 791, Annex A)	L_{WA} 113 dB(A)
Hydraulic system	Zweikreisbohrhydraulik 2-hydraulic circuit system for drilling
Hydraulic power output (measured at inlet to rotary drive)	142 KW
Hydraulic pressure	320 bar
Flow rates (main circuits)	2 x 210 l/min
Hydraulic oil tank capacity	285 l
Undercarriage (Retractable crawler frames)	UW 65
Crawler type	B 60
Track width (retracted/extended)	2.300 / 3.700 mm
Overall width of crawlers (retracted/extended)	3.000 / 4.400 mm
Width of triple grouser track shoes	700 mm
Overall length of crawlers	5.360 mm
Traction force effective/nominal	444 / 546 kN
Travel speed	1,3 km/h

Standard equipment

- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Removable counterweight (6,2 tonnes + 6,2 tonnes)
- Removable crawler side frames
- Transport securing lugs on crawler units
- On-board lighting set (4 spotlights)
- On-board tool set
- Electric refuelling pump
- High-comfort operator's cab (width 950 mm)
- Protective roof grate (FOPS compliant)
- Air conditioning system
- Radio and CD player
- Catwalk (on side of operator's cab)

Optional equipment

Additional equipment options

Base carrier

Tempered safety glass panels
Independent cab heater with time switch
Catwalk in front of operator's cab)

Drilling equipment

Freefall main winch
Freefall auxiliary winch
Swivel for auxiliary rope
Mast access ladder
Mast support unit
Upper kelly guide
Auger cleaner (for kelly system)
Central lubrication system
Video camera attachment
Torque multiplier
Mechanical attachment for automatic casing drive adapter
Pre-equipped for automatic casing drive adapter
(hydraulic / electrical)
Oscillator attachment (max. BV 1180 HD-03)

Measuring and control equipment

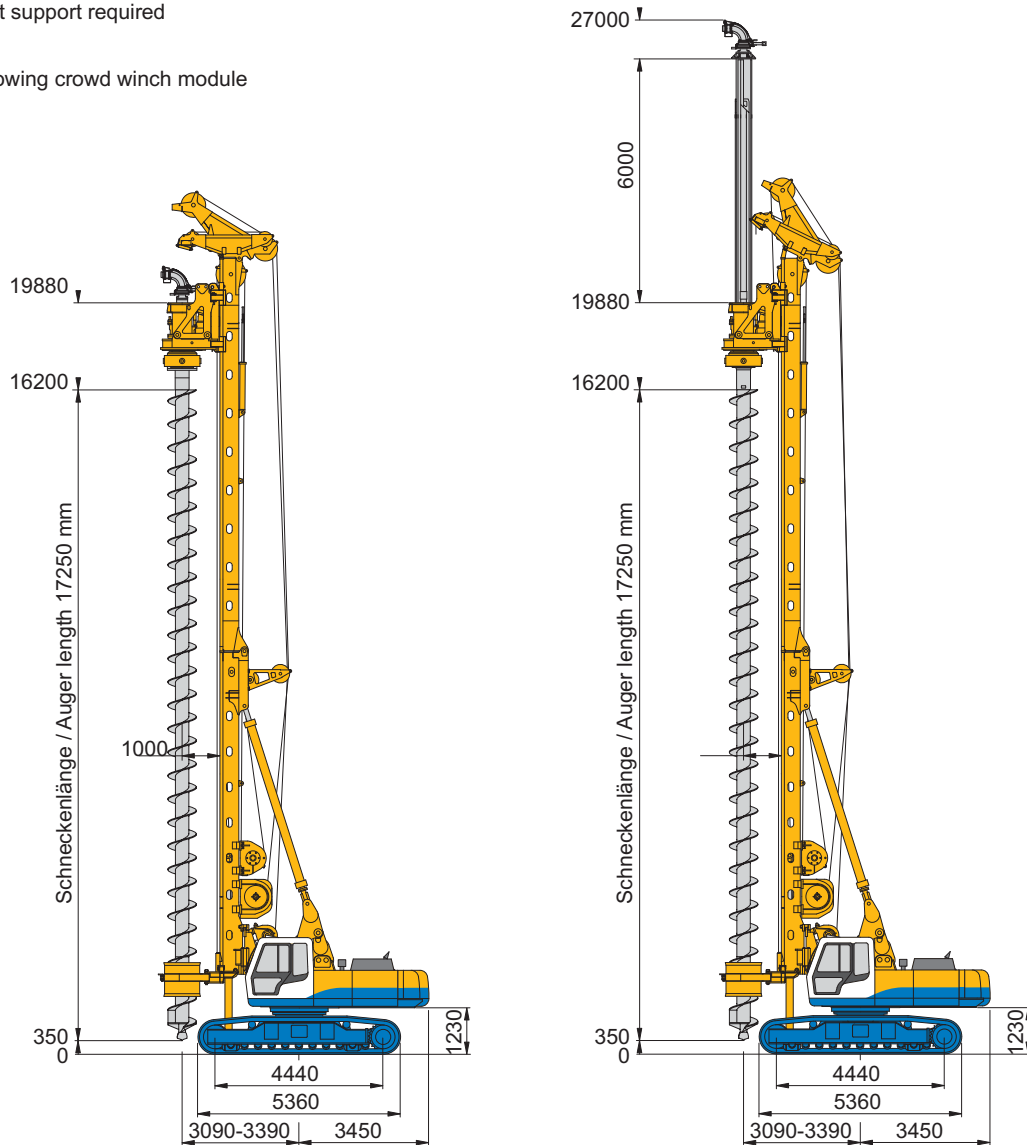
Recording of operating data
Remote transmission operating data
Uni-directional impact function on KDK (for auger discharge)
Overload protection device on main rope
Electronic load sensing on main rope
Electronic load sensing on auxiliary rope
Depth measuring device on crowd winch

Alternative equipment options

Rotary drive KDK 250 S (multi-gearred)
Engine Cummins QSC 8.3-C 280 (224 kW @ 1.900 RPM) – TIER III
Triple crowd cylinder

hydraulic mast support required

Illustration showing crowd winch module



1000

Vorschubsystem Crowd system	Windenvorschub Crowd Winch	
Kellyverlängerung Kelly extension	--	6,0 m
Bohrtiefe mit Schneckenputzer Drilling depth with auger cleaner	14,20 m	20,20 m
Bohrtiefe ohne Schneckenputzer Drilling depth without auger cleaner	15,20 m	21,20 m
Max. Bohrdurchmesser Max. drilling diameter	800 mm	800 mm
Max. Zugkraft (eingeschert) Max. extraction force (sheaved)	260 kN	260 kN
Max. Anpresskraft Max. crowd force	260 kN + Schnecke 260 kN + auger	
Schneckenlänge L (inkl. Anfänger) Continuous flight auger length L (incl. starter auger)	17,25 m	17,25 m

Transport data

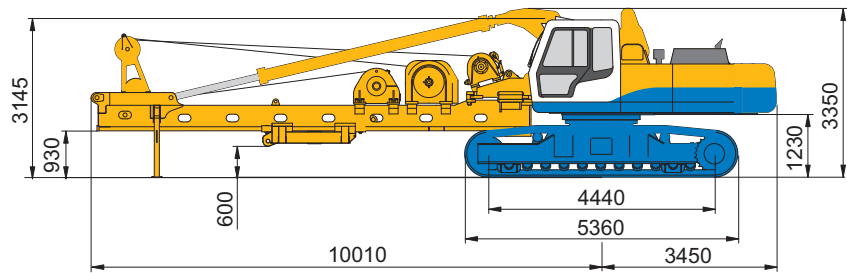
Crowd winch

G = 53,8 to

Zylindervorschub

Crowd cylinder

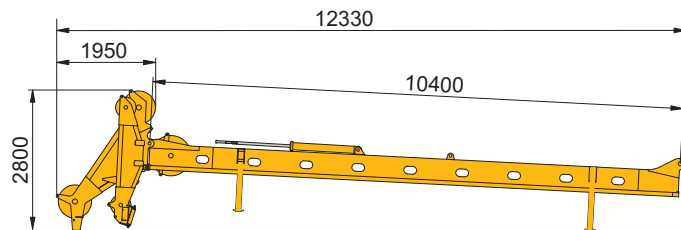
G = 52 to



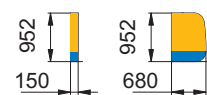
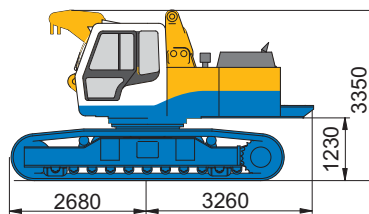
Crowd winch

G = 4,1 to

B = 1.700 mm



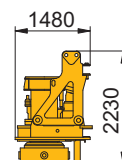
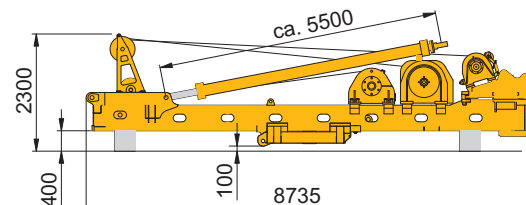
G = 28 to



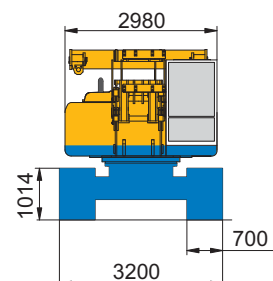
G = 2 x 6,2 to

Crowd winch

G = 13,4 to (B= 2.400 mm)



G = 5 to



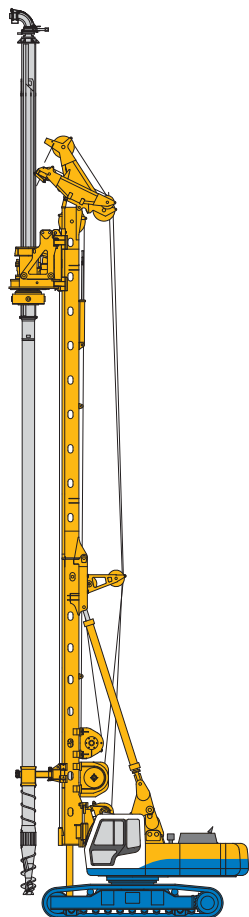
Weights shown are approximate values;
optional equipment may change
the overall weight

Anwendungen

Applications

FDP Verdrängerbohren

FDP Full displacement piling



Durchmesser	
Diameter	410 – 510 mm
Tiefe ca.	
Depth (approx.)	15 m
Tiefe mit Verlängerung	
Depth with extension	21 m
Drehgetriebe	
Rotary drive	KDK 250 K



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