

Technical data
Hydraulic crawler crane

HS 885 HD

Litronic®

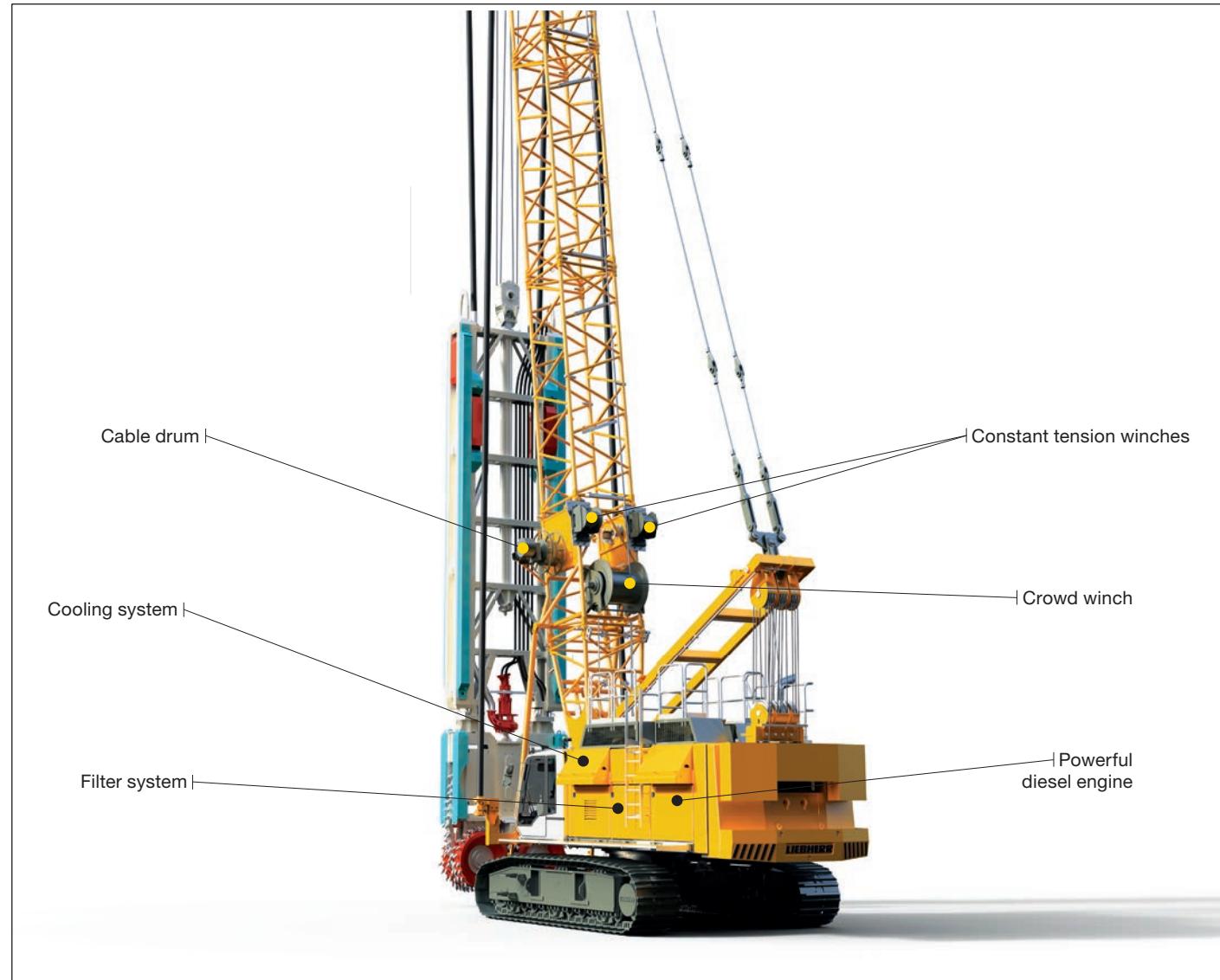
With Casagrande hydromills FD60 and FD100



LIEBHERR

Concept and characteristics

HS 885 HD with hydromill



Multi-function crane with optional free-fall winches:

- Hydromill crane
- Grab crane
- Service crane

Engine:

- Powerful diesel engine – 670 kW (898 hp).
- No additional power pack required for hydromill.
- Less investment.
- Less operational costs.
- Less maintenance costs.

Hydraulic system:

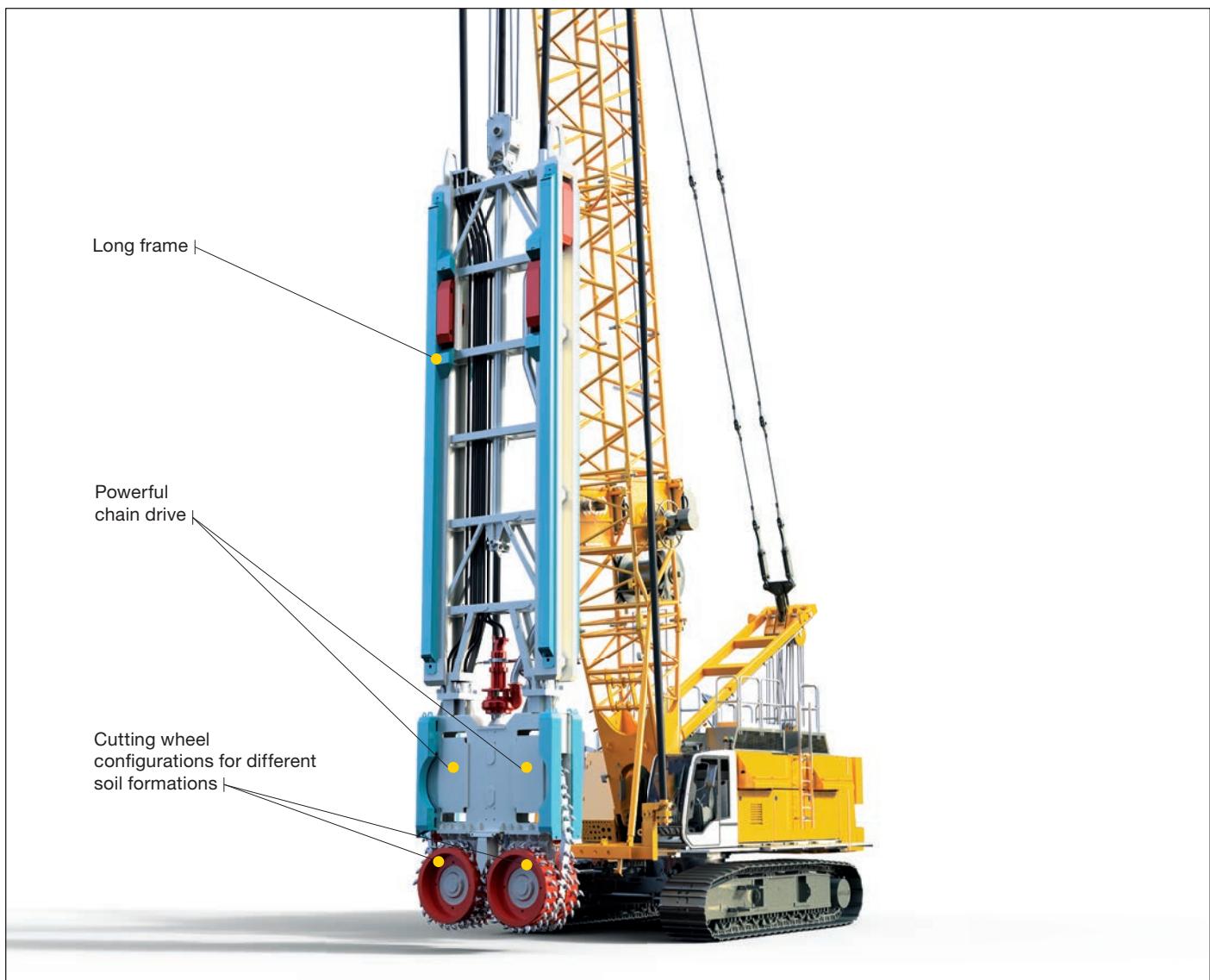
- Maximum safety for hydraulic system through filtration of all hydraulic flows returning from hydromill.
- Lower risk of contamination with mud.
- Prevents downtime and expensive repairs.

Cooling system:

- High cooling capacity.
- Operation at ambient temperature of up to 45°C at full engine power.
- Operation at ambient temperature of up to 50°C at 500 kW engine power.

Concept and characteristics

HS 885 HD with hydromill



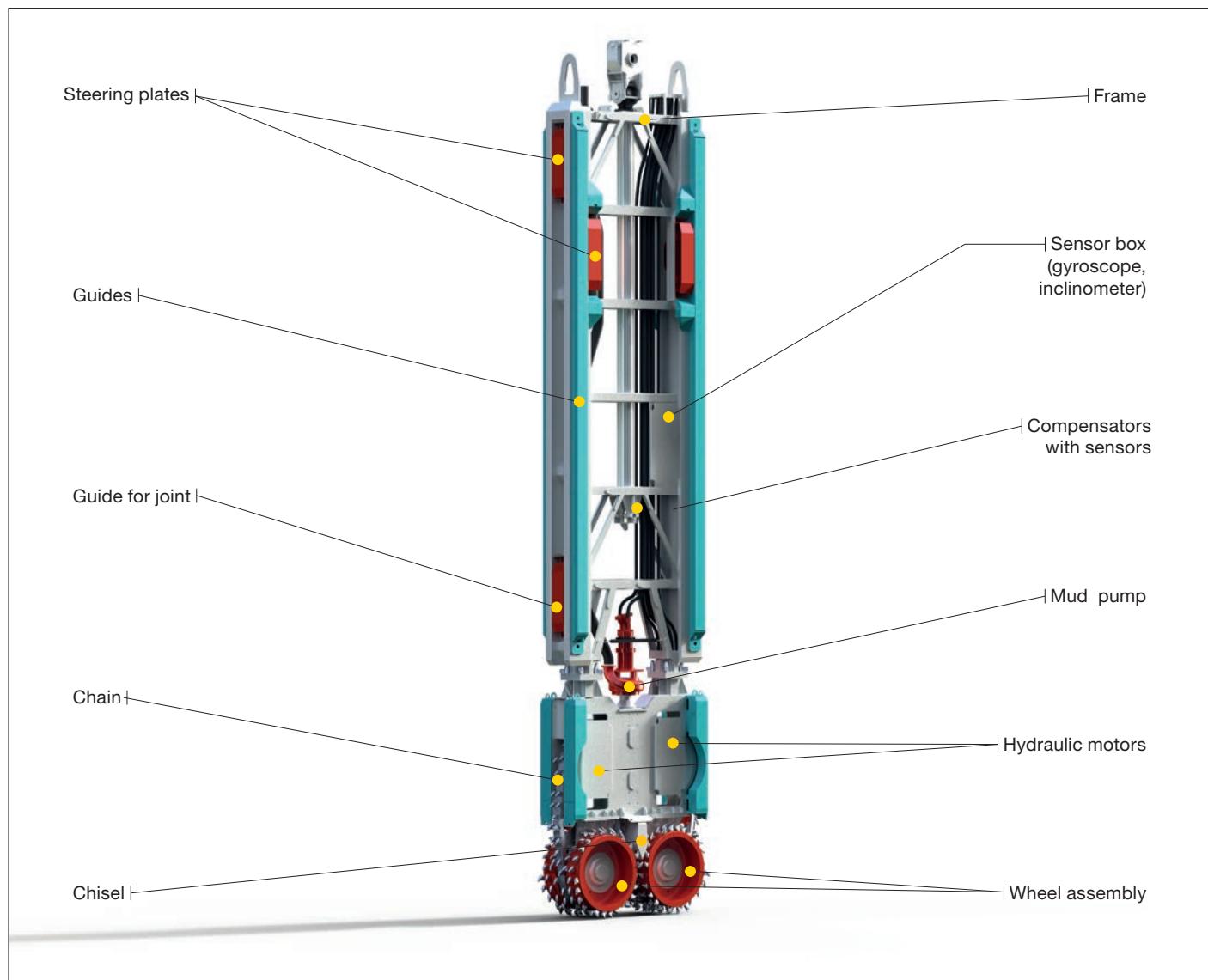
Hydromill:

- Heavy construction of hydromill allows excellent penetration of difficult soils.
- Long frame provides outstanding guidance and verticality.
- Inclinometer with gyroscope to measure and indicate verticality and orientation. Verticality control via steering plates.

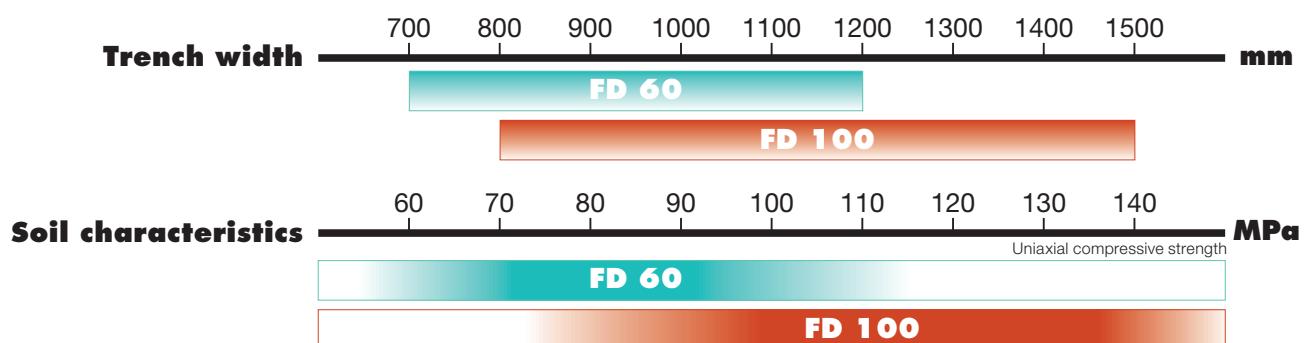
Hydromill drive system:

- Powerful chain drive provides high torque and speed for the cutting wheels.
- Chain tensioner works as shock absorber.
- Full-face excavation through chain drive increases production rate.
- Chain drive allows cutting of panel joint.
- Cutting wheel configurations for different soil formations available.
- No gearbox required to power the cutting wheels. Quick exchange. Low maintenance costs.

Set-up hydromill



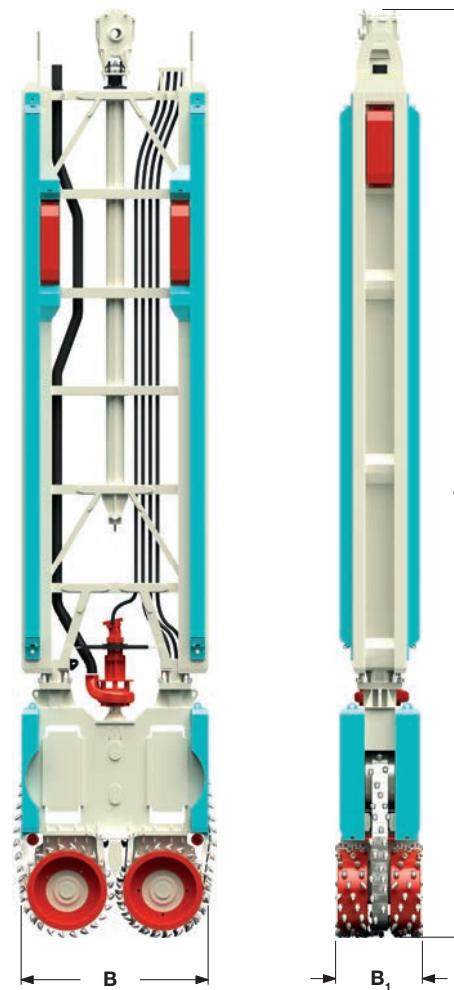
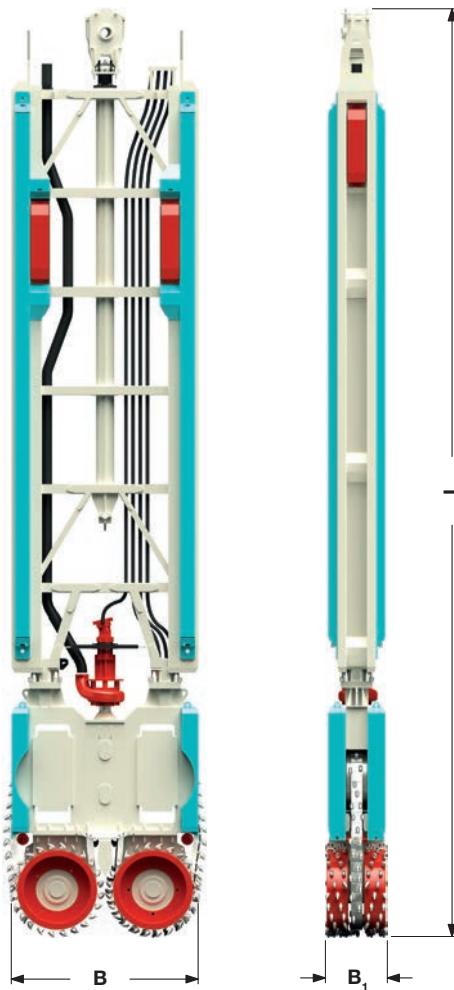
Hydromill selection



Hydromill options

FD 60

FD 100



FD 60

Trench length (B)	Trench width (B ₁)	Length (L)	Weight
mm	mm	mm	t
3200*	700 - 1200	15400	33 - 37

FD 100

Trench length (B)	Trench width (B ₁)	Length (L)	Weight
mm	mm	mm	t
3200*	800 - 1500	15400	38 - 45

Torque at wheel axle	Wheel speed	Suction pump
kNm	rpm	m ³ /h
2 x 67	0 - 30	450

Torque at wheel axle	Wheel speed	Suction pump
kNm	rpm	m ³ /h
2 x 99	0 - 27	450

Verticality control

X axis	Y axis
Wheels and steering plates	Steering plates

Verticality control

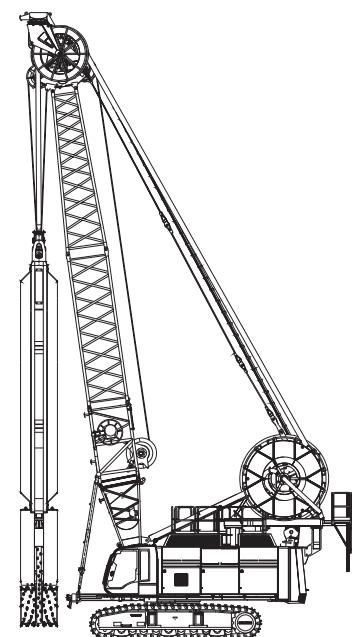
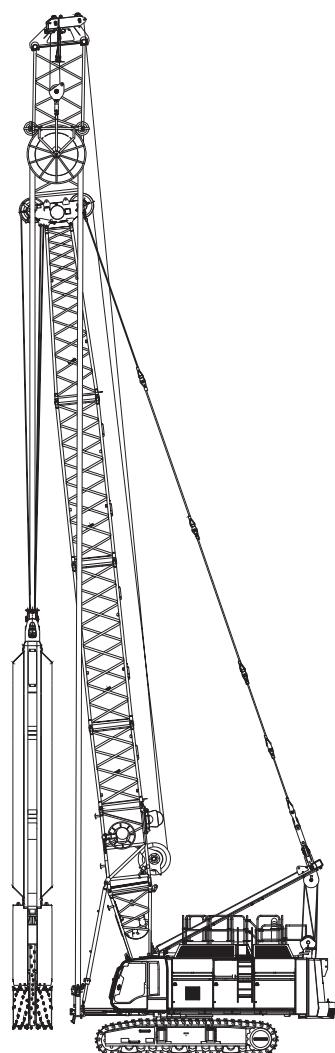
X axis	Y axis
Wheels and steering plates	Steering plates

*) Other trench widths upon request.

Configuration and excavation depth

Hose Tension System HTS

Hose Drum System HDS



FD 60

Trench width	Excavation depth	Trench width	Excavation depth
700 mm	70 m		
800 mm	70 m	800 mm	64 m
1000 mm	64 m	1000 mm	64 m
1200 mm	64 m	1200 mm	58 m
		1500 mm	58 m

FD 100

FD 60

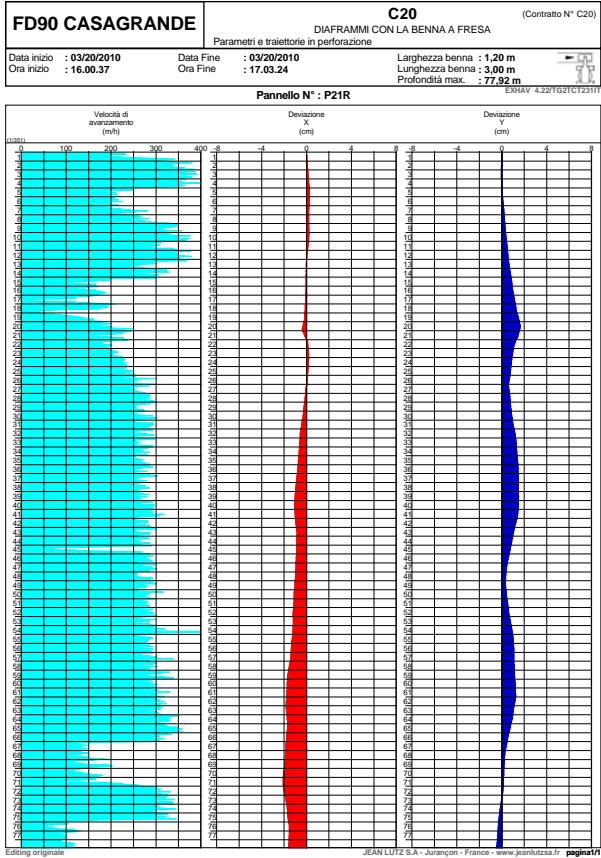
Trench width	Excavation depth	Trench width	Excavation depth
700 mm	100 m		
800 mm	100 m	800 mm	100 m
1000 mm	100 m	1000 mm	100 m
1200 mm	100 m	1200 mm	100 m
		1500 mm	100 m

Excavation depths

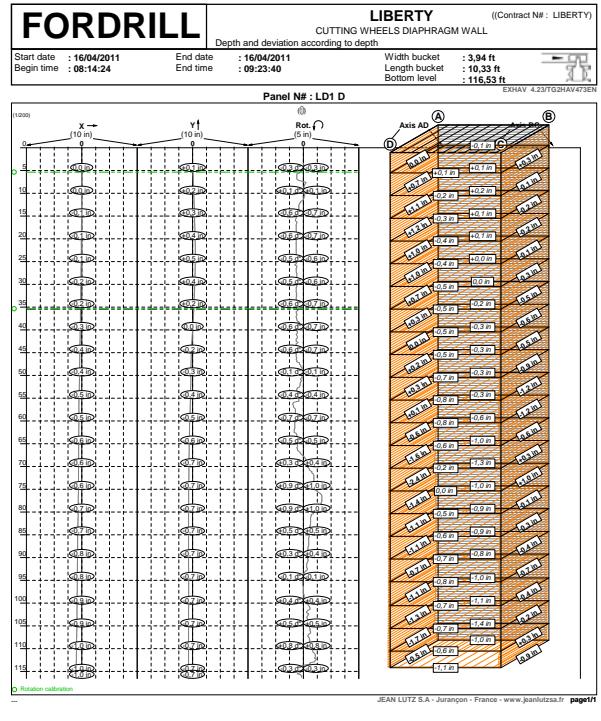
Excavation depth	Boom length	Vertical extension
58 m	29 m	6 m
64 m	32 m	6 m
70 m	35 m	6 m

Control system and data recording

Data evaluation - verticality



Data evaluation - orientation



Control unit in operator's cab

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