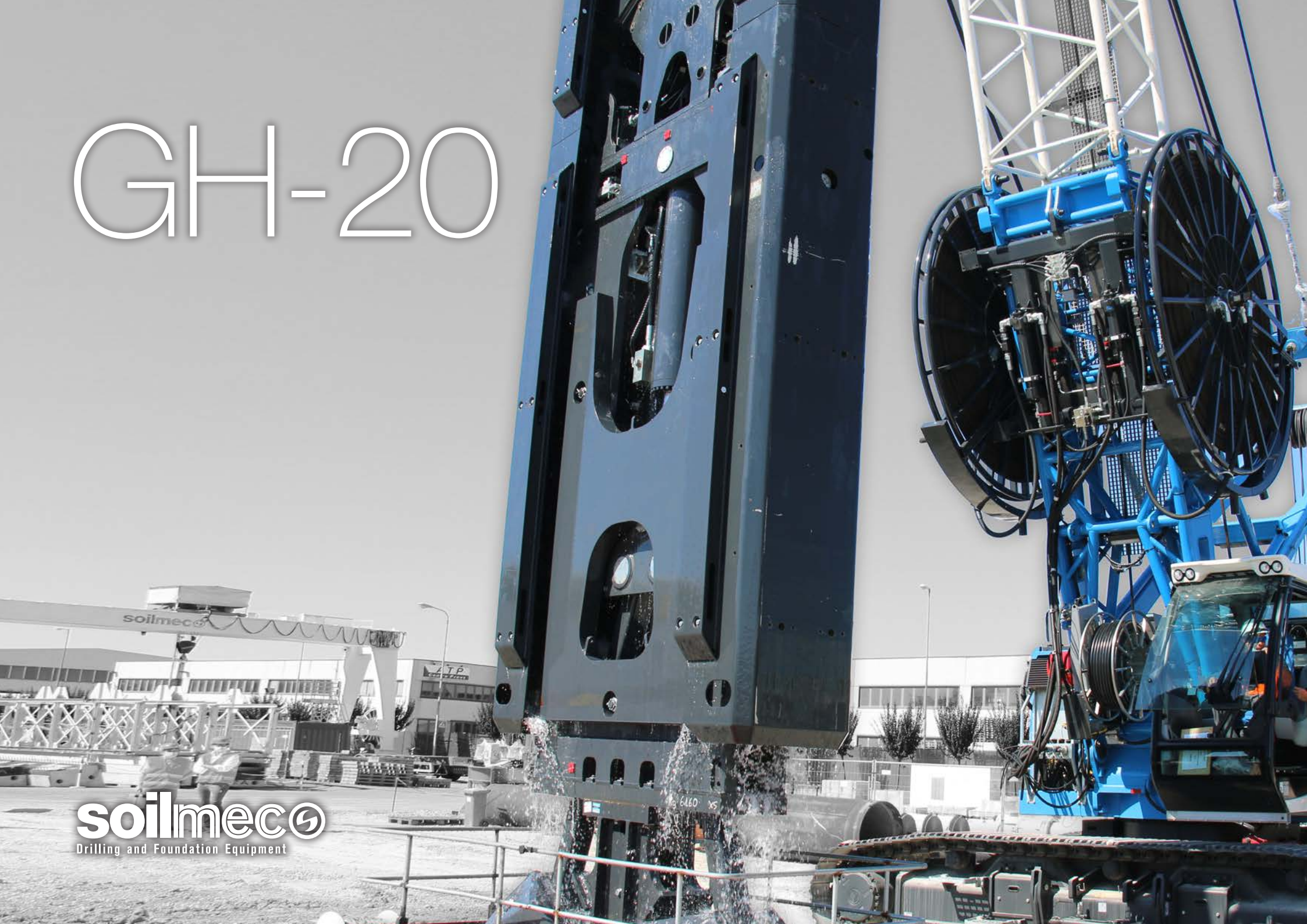


GH-20



soilmec®
Drilling and Foundation Equipment

The versatile grab combining accuracy and toughness

The GH-20 hydraulic grab brings together in a single product the precision of the new verticality control system and the strength and freefall abilities of all the previous Soilmecc equipments dedicated to diaphragm walls excavation.

The GH-20 is available with various add-on resulting in a wide range of sizes and configurations to fit your specific needs.

Accurate digging

- Verticality control has been ensured by the means of double or triple axis sensors
- Mobile guides for verticality adjustment



Fully customizable

- Additional counterweight to vary the weight
- Body extension to modulate and increase the height
- Special spacer to extend digging width and length

Performing on job site

- Rotation system conceived for T-panel execution or for other orientation
- Hydraulic winders on lattice boom foot for FOW (Front of Wall) applications
- Digging depth up to 100 m
- 600 x 2500 mm < trench dimension < 1800 x 4200 mm



Verticality Control System

The GH-20 is set up with the DMS verticality control system for grabs developed to monitor the trajectory continuously during excavation.

The system is composed by a double axis sensor, to measure the trench deviation along in the x- and y-axis, or on demand by a triple axis sensor to which is also added the rotation round z-axis.

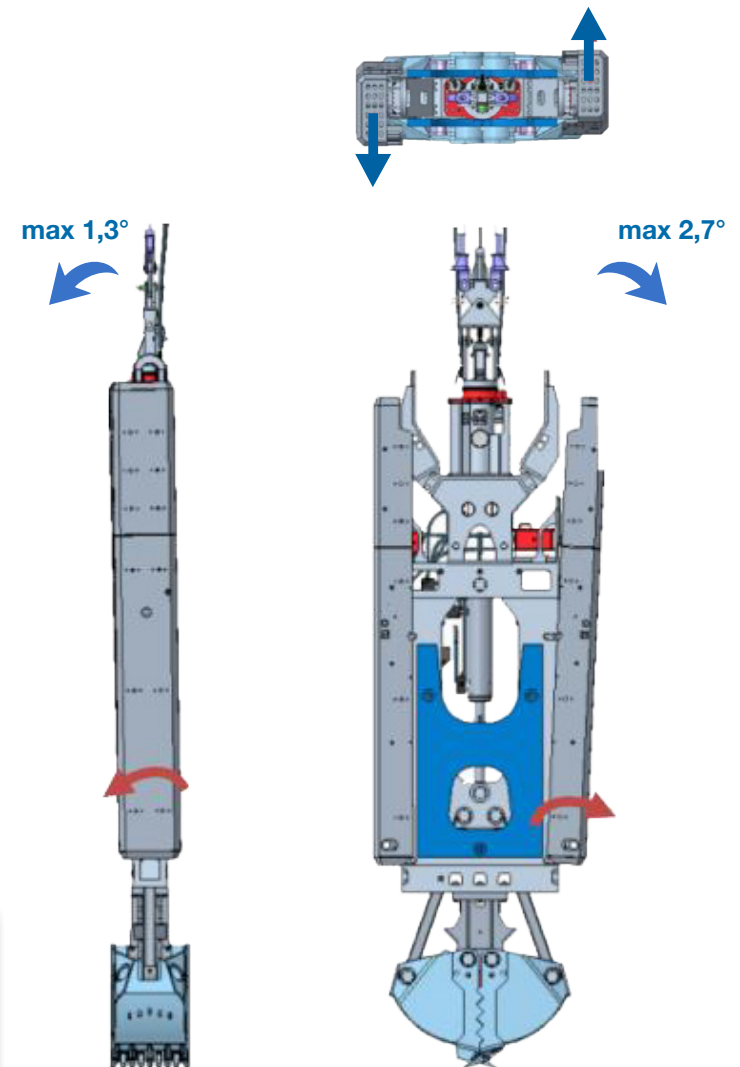
The sensor is feed by a heavy-duty electrical cable complete with recoil system to following every movement of the grab.

Data transfers are carried out via Bluetooth when grab is out of the trench and are visualized on the 12" touch screen monitor on cab.

The verticality adjustment is made by hydraulically tilting guide bars.

The main data that are displayed and recorded are:

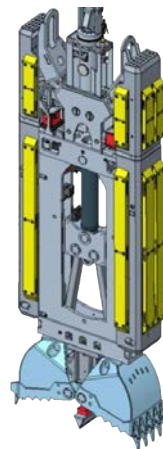
- Depth and time of excavation
- Digging rate
- Deviation of the trench along the x, y and z axes
- Inclination of the lattice boom



Custom solutions to fit your needs

The GH-20 has developed with a modular grab body that can be configured with various lengths, weights and trench dimensions.

- The grab body has a double mounting position that allows you to vary the trench width of 200 mm with the same guide bars.
- Dedicated spacers, easily attachable to guide bars, enable to vary the thickness and width of the excavation.
- Additional counterweight to increase the weight up to 5.2 t resulting in a lowering of the center of gravity of the bucket in order to guarantee a better verticality during the excavation.
- Tailored counterweight elements can be study on demand to reach your desired total weight.
- 1,7 m long grab extension, complete with guide bars, can be fitted on main body to increase weight and length and therefore enhances the verticality of the trench.



Rotation system

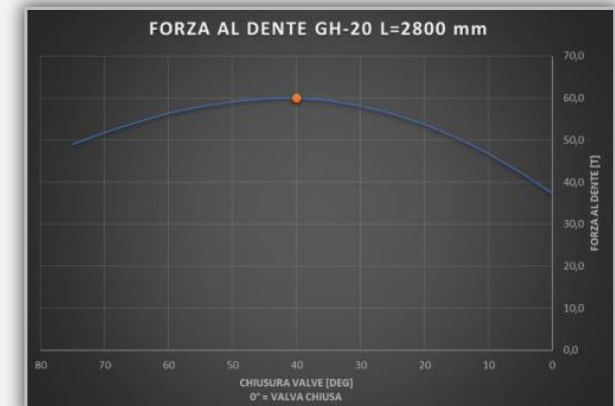
270° grab body rotation made by hydraulic revolving gearmotor allows you to perform T-panel and 180° complete rotation of the grab after each cycle.

Guide system

The semi-kelly guide the grab outside the trench facilitating rotation and alignment and accelerating discharge and positioning process.

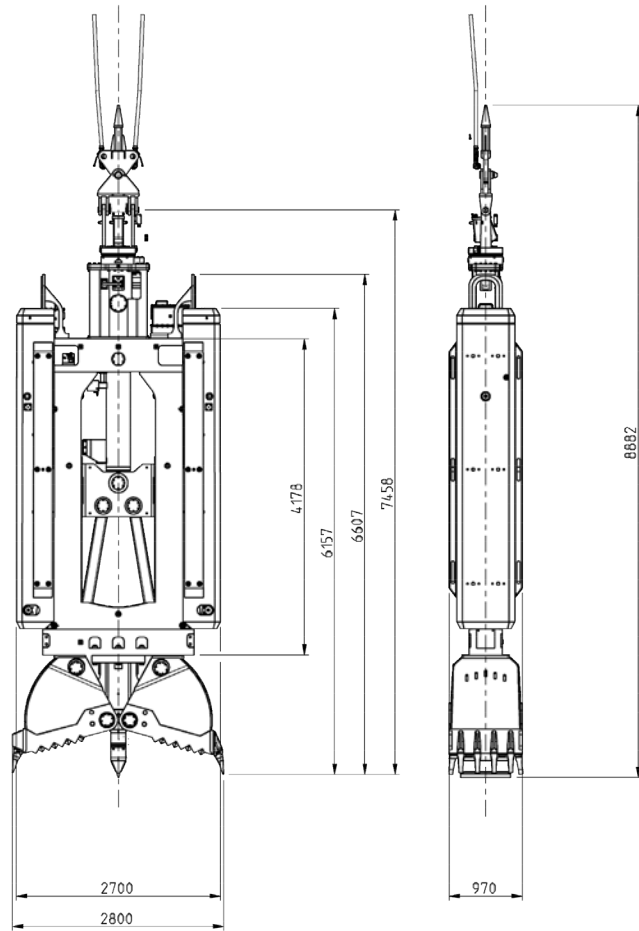
Closing system

Opening and closing of the grab is actuated by one single central cylinder with a maximum thrust of 167 t. The force on tooth is strictly related to excavation width, in 2800 mm configuration the maximum force is 60 t.

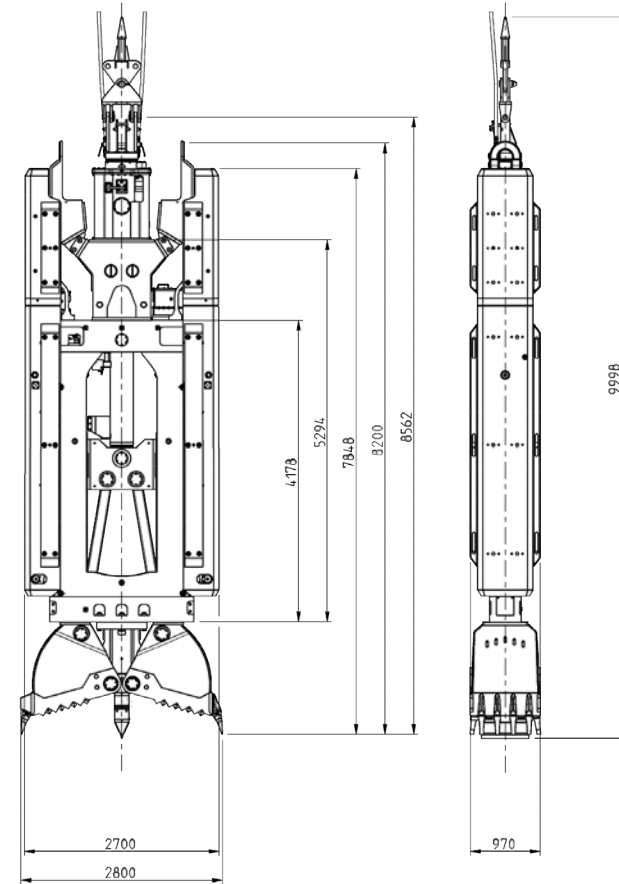


Working configuration

Standard version



Extended version



Technical data

GH-20 hydraulic grab

Max depth	100 m	328 ft
Grab rotation	270°	270°
Panel length	2500 / 4200 mm	98 / 165 in
Panel width	600 / 1800 mm	24 / 71 in
Grab length	6800 / 8500 mm	268 / 335 in
Grab weight	16500 / 26500 kg	36376 / 58422 lb
Additional grab weight	5300 kg	11684 lb
Cylinder closing force	1638 kN	368237 lbf
Max closing force at teeth	60 kN	13489 lbf

Configuration

Standard

- Rope connection with double direct pull
- Double axis sensor for verticality control
- Hydraulic cylinder for jaws opening and closing
- Jaws of different size and dimension
- Dedicated cathead complete with pulleys for ropes and hoses
- Lattice boom adapter for cathead connection
- 3300 mm (11 ft) semi-kelly guide
- Pulleys for hoses tensioning
- Hoses assembly for 100 m (328 ft) depth
- Grab controls integrated into the cab
- Electric cable reel
- Hydraulic hoses winders complete with transport frame
- Cleaners and chisel integrated into grab body

Optional

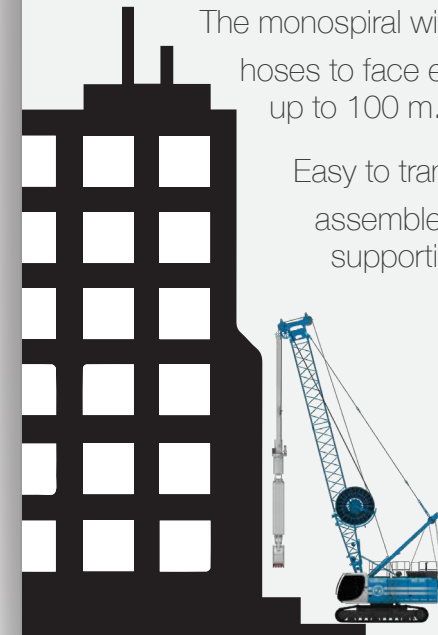
- 1,7 m (56 ft) long grab body extension
- 1,7 m (56 ft) long guide bars extension
- 5,2 t (5.7 US t) additional counterweight
- Triple axis sensor for verticality control
- Guide bars tilting kit for verticality correction
- 270° hydraulic joint
- Guide bars spacers
- Wide range of tooth

Close to the building? No Problem!

The monospiral hydraulic winder are installed on the lattice boom base bringing easily accessibility for maintenance and a front of wall application skill.

The monospiral winders can hold hoses to face excavating depth up to 100 m.

Easy to transport and quick to assemble thanks to its self-supporting frame.





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