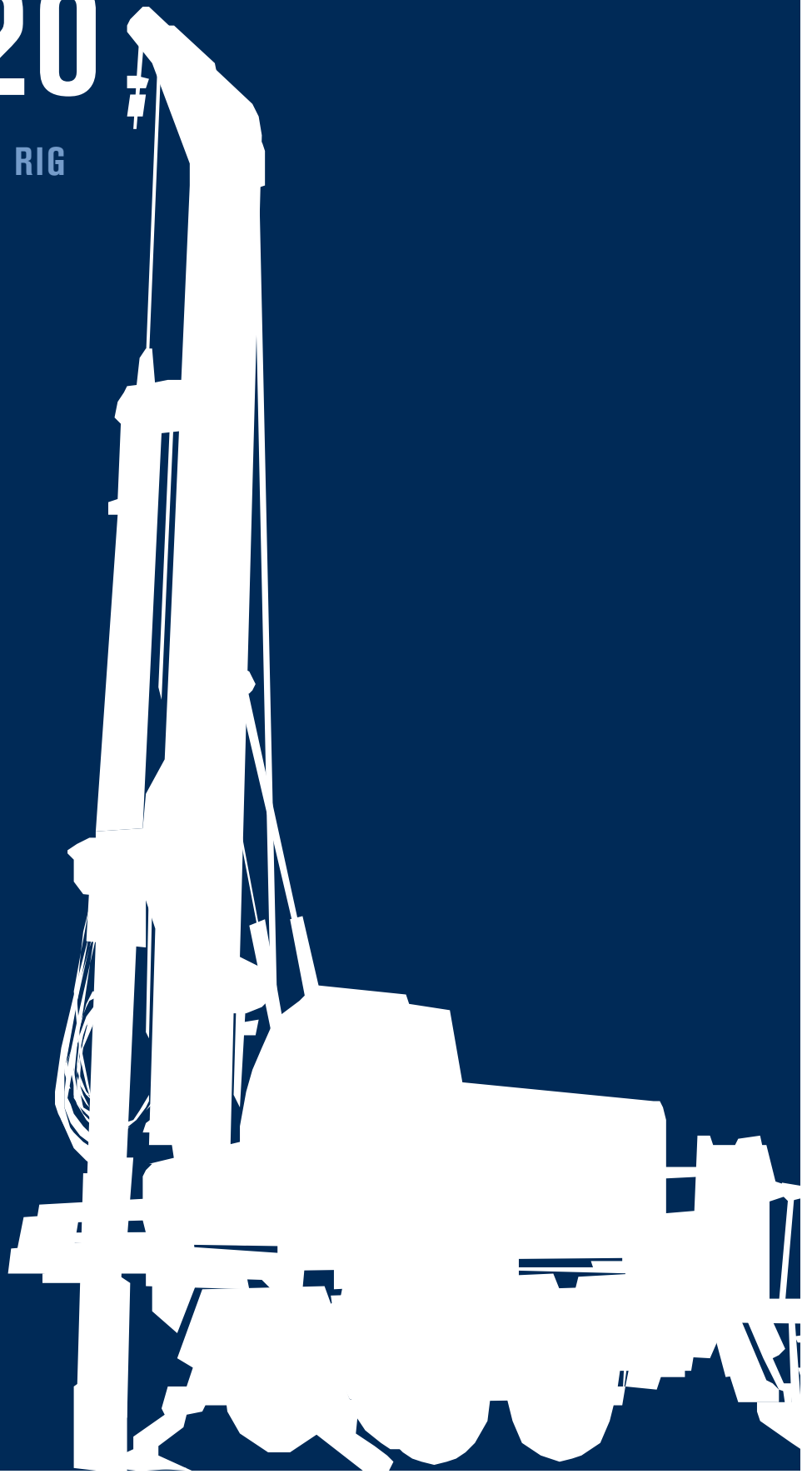


STM-20

TRUCK MOUNTED
HYDRAULIC DRILLING RIG



soilmeco 
Drilling and Foundation Equipment

STM-20

TRUCK MOUNTED HYDRAULIC DRILLING RIG

A new model

STM-20 is a drill unit designed to be fast, highly productive and easy to operate.

It's a fully hydraulic drilling rig mounted on standard, heavy duty truck.

Thanks to its power, reliability, and novel configuration STM-20 meets the needs for a highly capable, easily mobilized drilling rig.

Features of STM-20:

- All States no transport permits
- Max. weight 28 tons including truck
- All position drilling
- Sliding cradle and outriggers on rigid sub-frame
- Pull down system 1.8 m
- Locking kelly or friction kelly (3 or 4 elements)
- Max drilling depth: 30 m
- New rotary: max torque 100 kNm
- Cummins 6BT 5.9 C engine with sound proofed housing
- Enclosed air conditioned operator cab
- Electronic depthmeter and inclinometer

Optional features:

- Low head room version
- Extended depth, heavy version
- Tieback capability

Large diameter bored pile

Max. pile diameter	mm	1800
Pile max. depth	m	30
Max nominal torque	kNm	100 @ 35 MPa (9 rpm)
Max drilling speed	rpm	43
Spin - off speed	rpm	178
Main winch nominal line pull (ISO M5 - L2 - T5)	kN	102
Service winch nominal line pull (ISO M5 - L2 - T5)	kN	41
Engine	Type	CUMMINS 6BT 5.9C-30-T
Installed power	kW (HP)	116 (156) @ 2200 rpm
Cylinder crowd	kN	73.5 / 124
Cylinder stroke	mm	1800
Approx.weight with truck (Depending on truck model)	ton	25.5 / 28

The nominal values are referred to 100% total efficiency.

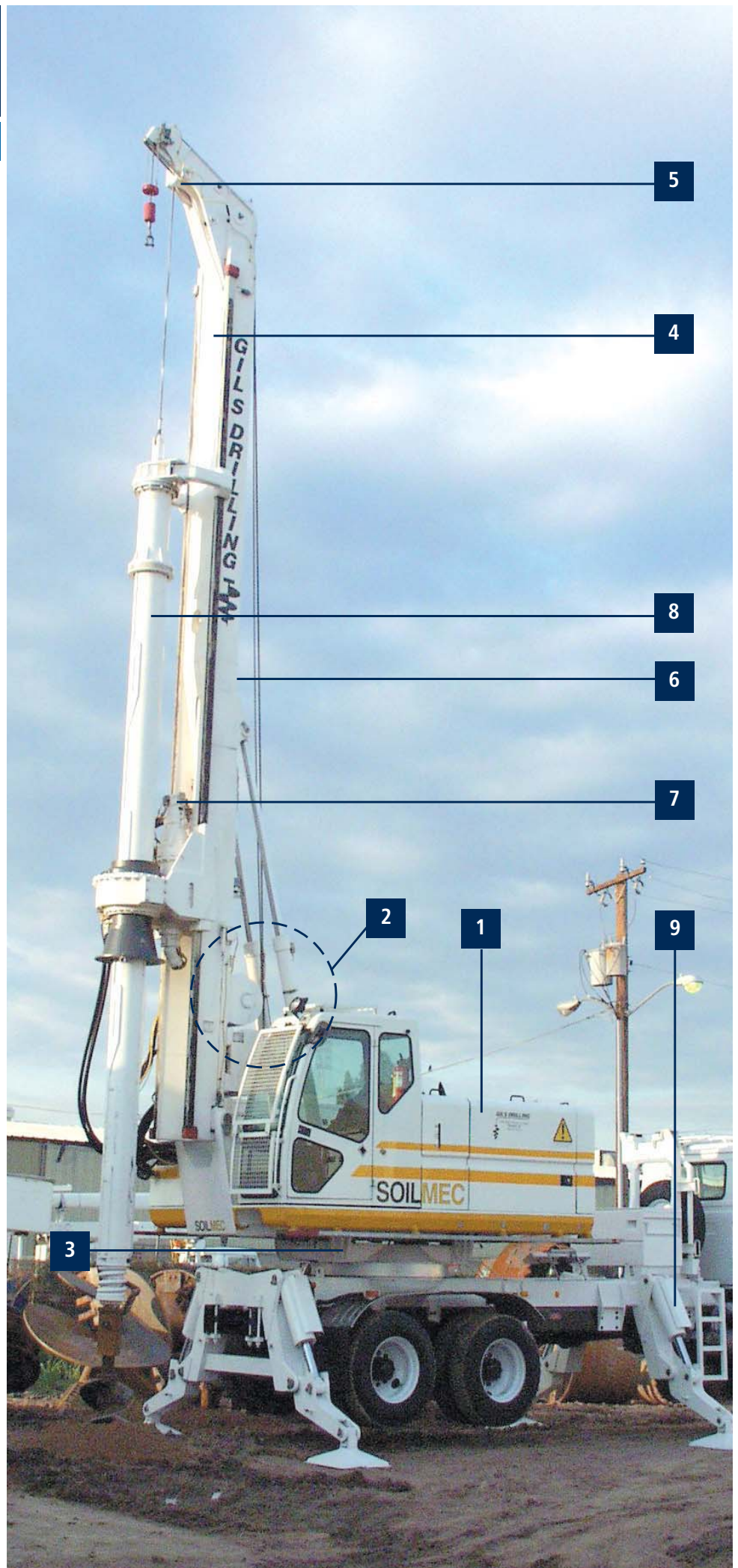
Friction kelly bar – Ø 324 mm

elements n°	length m	depth m	weight ton
3x	7,0	18,0	1,8
4x	7,0	24,0	2,4
5x	7,0	30,0	3,0

Mechanical kelly bar – Ø 324

elements n°	length m	depth m	weight tonn
3x	7,0	18,0	1,8
4x	7,0	24,0	2,4

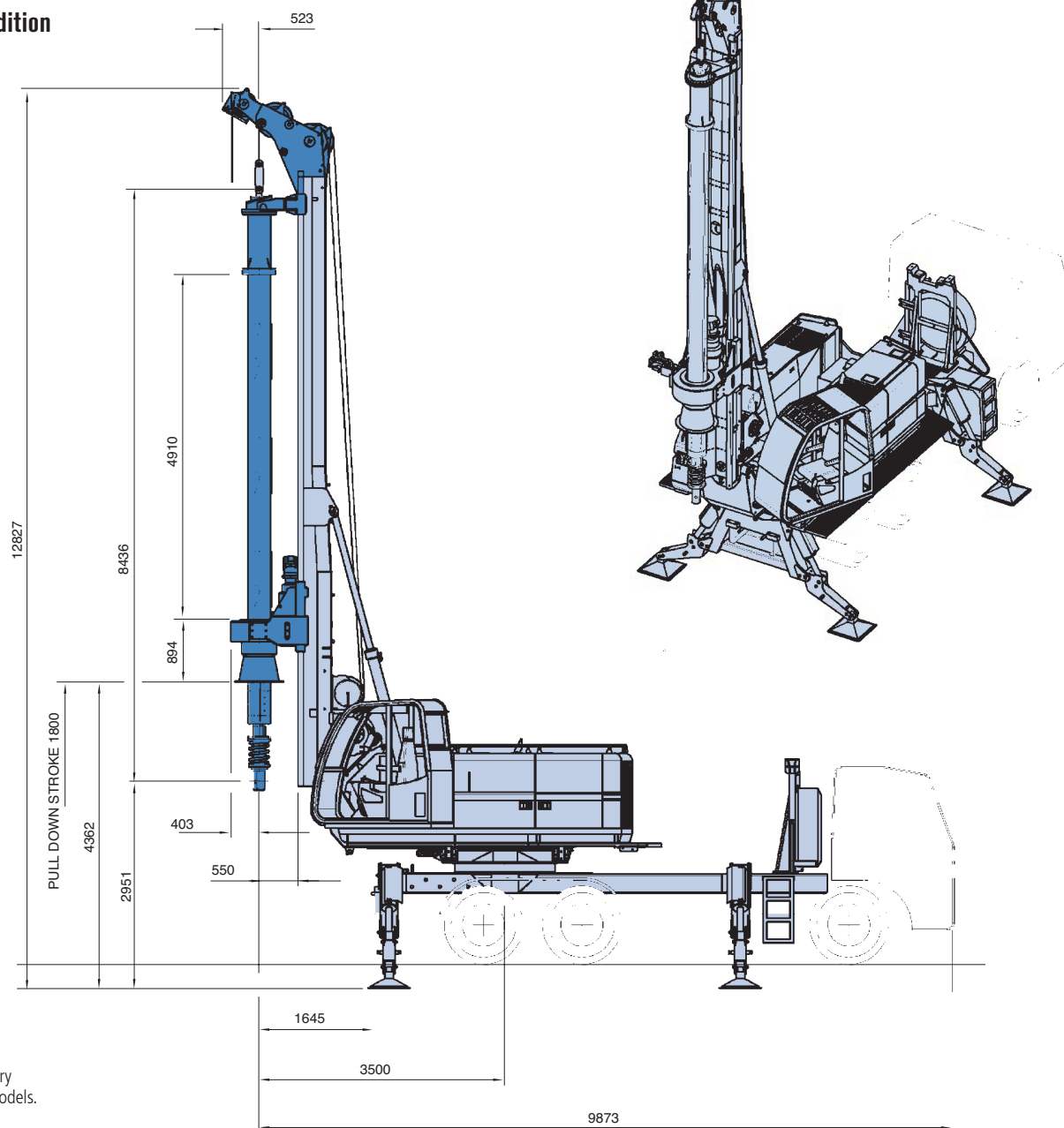
- 1 - **Rotaring turret** with Cummins diesel engine and sound proofed canopy, mounted on sliding cradle.
- 2 - **Winch** units 102 kN and 41 kN
- 3 - **Sliding cradle:** 1000 mm horizontal stroke
- 4 - **Self-erecting mast** withstanding the full torque all over the length. It's composed by one single element including sheave cathead.
- 5 - **Cathead** with service jib.
- 6 - **Crowd system:** 1,8 m stroke hydraulic cylinder.
- 7 - **100 kNm torque rotary** table c/w two hydraulic motors and reducers.
- 8 - **Telescopic kelly bar** with guide connection to mast with friction or mechanical locking type (see chart).
- 9 - **Four hydraulic stabilizers** mounted on sub-frame.



STM-20

TRUCK MOUNTED HYDRAULIC DRILLING RIG

Working Condition



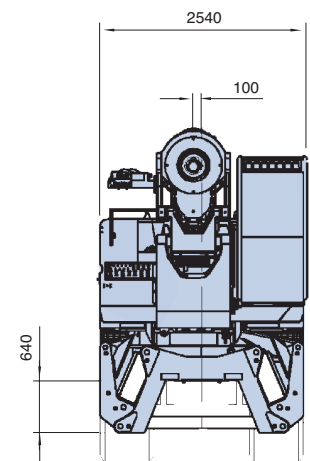
Truck dimensions can vary according to different models.

Pictures



TRUCK MOUNTED HYDRAULIC DRILLING RIG

Technical drawing of a truck-mounted crane in transport condition. The drawing shows the crane's profile with various dimensions. Key dimensions include: overall width 4088, overall height 4123, wheelbase 6440, and total length 9921. The crane arm is extended, and the center of gravity is marked. The truck frame load is 1020.







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In 1990 Soilmec was awarded with the certification of its Quality System complying with ISO 9001:2000 and ISO 14001:2004 standards.



SOILMEC S.p.A.

Drilling and Foundation Equipment

5819, via Dismano

47023 Cesena (FC) - Italy

tel. +39-0547-319111

fax +39-0547-318548

[http:// www.soilmec.it](http://www.soilmec.it)

e-mail: soilmec@soilmec.it

All technical data are purely indicative and subject to change without notice

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