

# SM-40

Lattice boom crawler crane  
*Gru cingolata a braccio tralicciato*



**SOILMEC** 

# SM-40

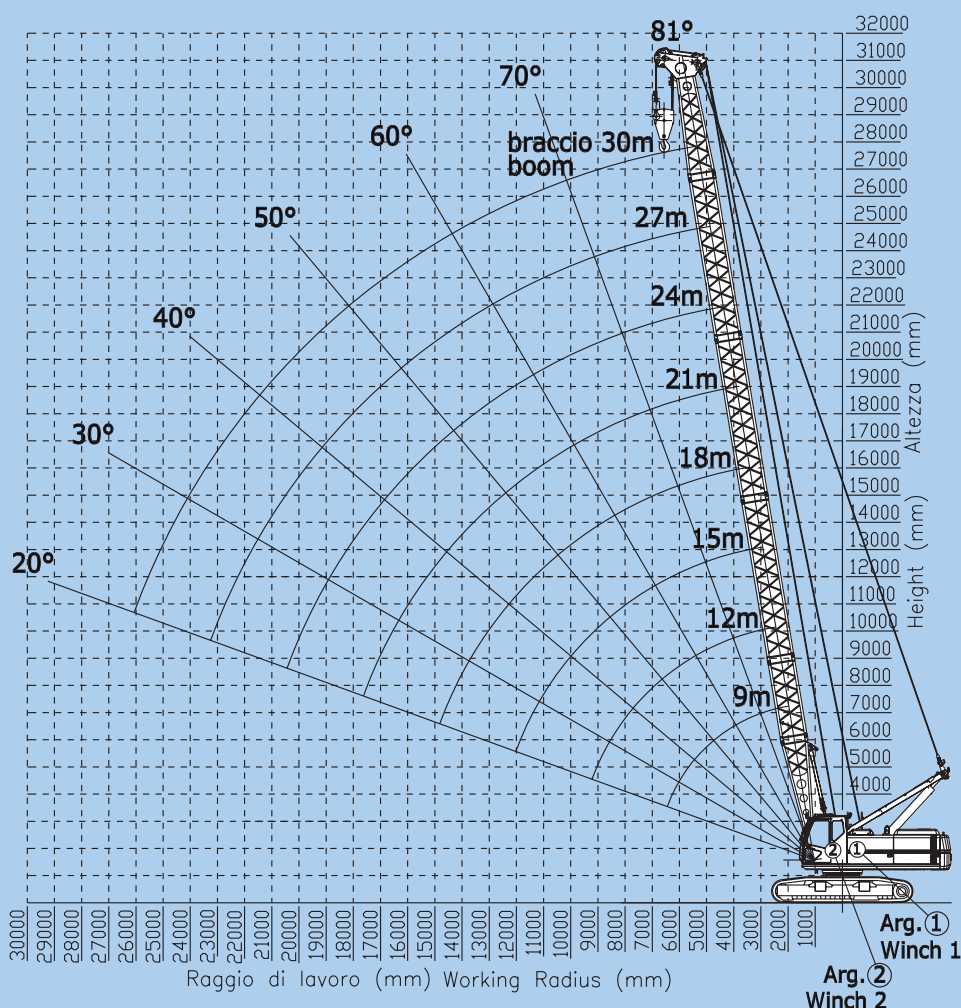
Crawler mounted crane designed to meet features and standards of lifting units adding characteristics of the cranes for foundations jobs.

Thanks to reduced time of set-up and new design it is ideal for small-medium size jobs sites.

Its dimensions allow an easy transport and reduced set-up time.

## Main features

- ▶ Multi element lattice boom.
- ▶ Fast boom hoist by a single hydraulic piston.
- ▶ Extendable undercarriage.
- ▶ Cummins QSB 5.9 diesel engine (240 HP).
- ▶ Controlled descent or free fall type winches.
- ▶ Comfortable operator's cab.
- ▶ Mechanical and hydraulic fittings for casing oscillator.
- ▶ Self-lifting counterweight.
- ▶ Tracks removable (optional)
- ▶ Wide range of optional.

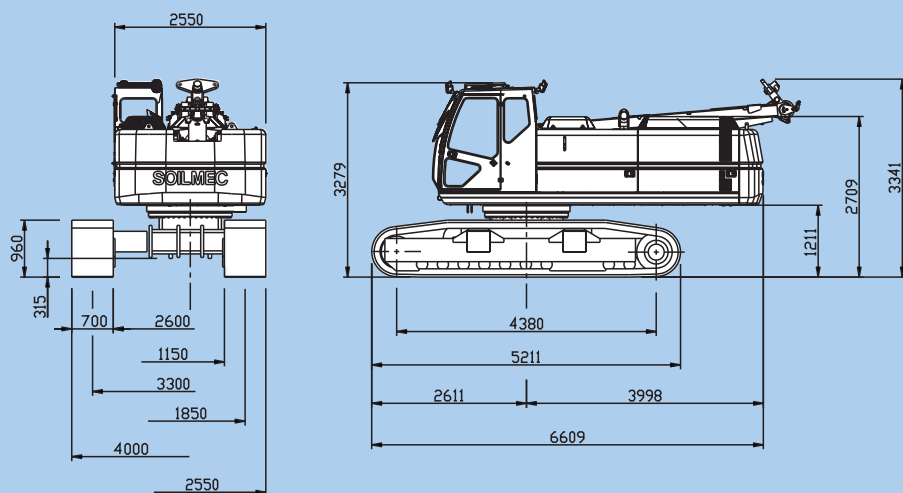


## Notes

- 1 - The rated loads are based on machine at firm level ground and without travelling.
- 2 - The rated loads are in metric tons valid for 360° degree swing.
- 3 - The rated loads are calculated to comply DIN 15018, DIN 15019 and do not exceed 75% of tipping load.
- 4 - The rated loads include the weight of all lifting attachments.
- 5 - Crawlers must be extended at max track gauge during operations.
- 6 - The users derate or limit the lifted loads to allow for adverse conditions such as: soft or uneven ground, out of level, wind, side loads, pendulum action, jerking or sudden stopping of load, inexperience of personnel, and possible travelling with a load.
- 7 - The max line pull for crane operation is only approximate. It must be referred to used rope with end terminations, in accordance to CEE directive.
- 8 - Lifting chart values must be applied in complete optimum boom assembly and head with plastic sheaves.



# Lattice boom crawler crane Gru cingolata a braccio tralicciato



Gru cingolata progettata per combinare le caratteristiche e normative delle unità di sollevamento con le caratteristiche delle gru da cantiere.

Grazie alla rapidità di assemblaggio e al nuovo design è la macchina ideale per cantieri di piccole-medie dimensioni.

Le sue dimensioni permettono un facile trasporto e un ridotto tempo di messa in ordine di lavoro.

## Caratteristiche principali

- ▶ Braccio tralicciato modulare.
- ▶ Sollevamento braccio mediante pistone.
- ▶ Sottocarro apribile.
- ▶ Motore diesel Cummins QSB 5.9 (240 HP).
- ▶ Possibilità di montare argani a discesa controllata o a caduta libera.
- ▶ Confortevole cabina di comando.
- ▶ Predisposizione idraulica e meccanica per morse giracolonna.
- ▶ Zavorra autosollevante.
- ▶ Cingoli removibili (optional)
- ▶ Ampia varietà di optional.

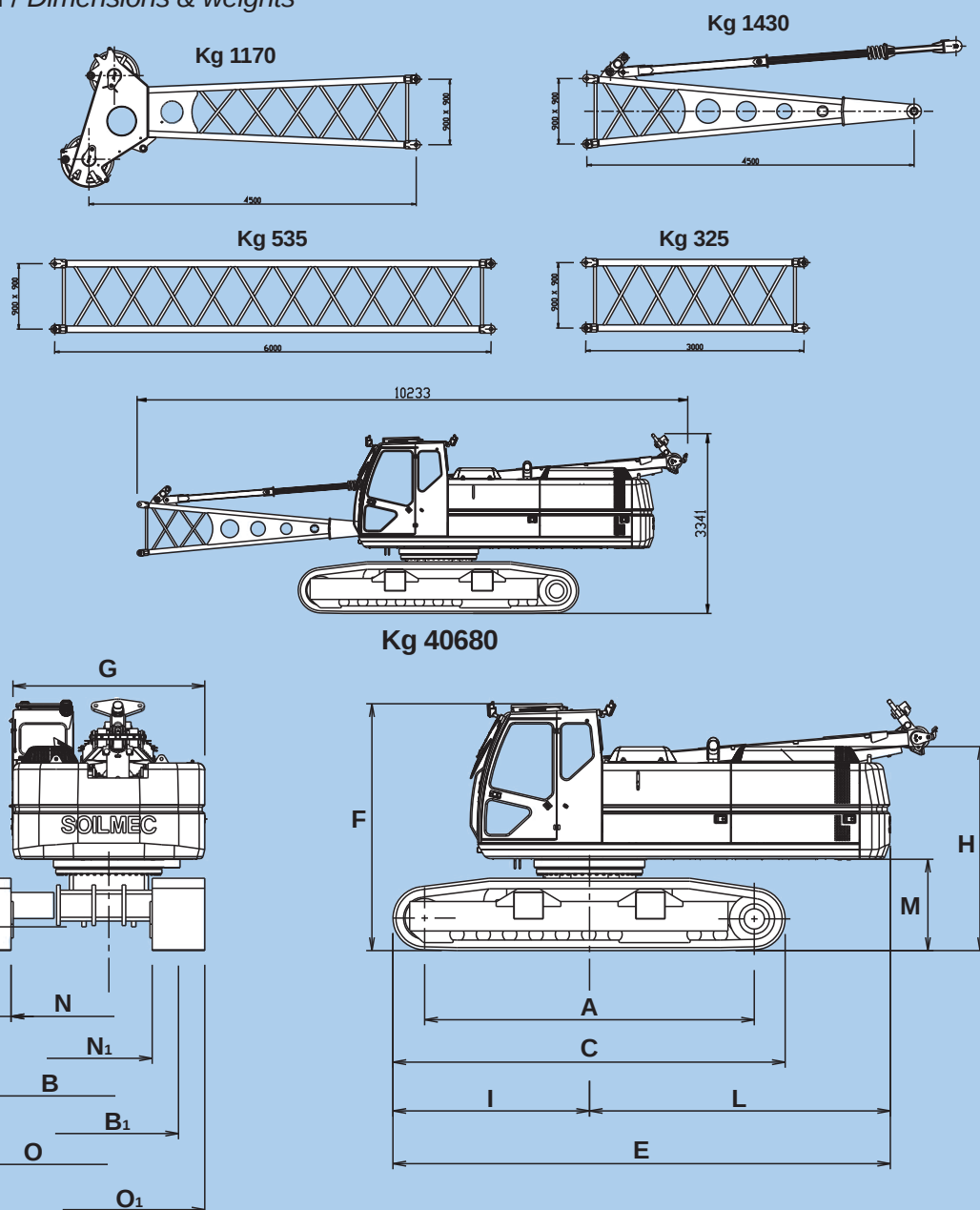
| ENGINE / MOTORE                                                                                          |             |                                                                             |           |
|----------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------|-----------|
| Make and model / Marca e modello                                                                         |             | CUMMINS QSB5.9                                                              |           |
| Rated Power SAE J 1995 / Potenza tarata                                                                  | BHP (kW)    | 240 (179) @ 2000 rpm                                                        |           |
| Cylinders / Cilindri                                                                                     | n°          | 6 - in line                                                                 |           |
| Power supply / Alimentazione                                                                             |             | turbocharged aftercooler air to air                                         |           |
| HYDRAULIC SYSTEM / IMPIANTO IDRAULICO                                                                    |             |                                                                             |           |
| Max flow / Portata max                                                                                   | l/min (MPa) | 214+214 (30)                                                                |           |
| Controls / Comandi                                                                                       |             | proportional / proporzionali                                                |           |
| WINCHES free fall / ARGANI discesa libera                                                                |             |                                                                             |           |
| Model / Modello                                                                                          |             | LFF130                                                                      | LFF160*1  |
| Line pull / Tiro effettivo (1 <sup>st</sup> layer)                                                       | kN          | 130,8                                                                       | 160       |
| Rope diameter / Diametro fune                                                                            | mm          | 26                                                                          | 26        |
| WINCHES controlled descent / ARGANI discesa controllata                                                  |             |                                                                             |           |
| Model / Modello                                                                                          |             | LW130                                                                       | LW160*1   |
| Line pull / Tiro effettivo (1 <sup>st</sup> layer)                                                       | kN          | 129,6                                                                       | 158       |
| Rope diameter / Diametro fune                                                                            | mm          | 26                                                                          | 26        |
| TURRET / TURRET                                                                                          |             |                                                                             |           |
| Max width / Larghezza, max                                                                               | mm          | 2550                                                                        |           |
| Rotation speed / Velocità rotazione                                                                      | rpm         | 3,4-0                                                                       |           |
| UNDERCARRIAGE / CARRO CINGOLATO                                                                          |             |                                                                             |           |
| Type / Tipo                                                                                              |             | Extending gauge / Carraggiata allargabile - Coaxial beams / Sfilì coassiali |           |
| Shoes width / Larghezza suole                                                                            | mm          | 700                                                                         |           |
| Center of wheels / Passo                                                                                 | mm          | 4380                                                                        |           |
| Max track length / Lunghezza cingolo, max                                                                | mm          | 5210                                                                        |           |
| Track gauge retracted (track gauge extended) / Carreggiata chiuso (aperto)                               | mm          | (3300)                                                                      |           |
| Retracted tracks width (extended tracks width) / Larghezza cingoli chiusi (aperti)                       | mm          | (4000)                                                                      |           |
| Max travelling speed / Velocità max                                                                      | km/h        | 1,9                                                                         |           |
| Tracks removable - Cingoli removibili                                                                    |             | Optional (Each track / Ogni fiancata: 5.2 ton)                              |           |
| GENERAL FEATURES / CARATTERISTICHE GENERALI                                                              |             |                                                                             |           |
| Tailswing / Raggio di coda                                                                               | mm          | 4000                                                                        |           |
| Max transport width / Larghezza di trasporto, max                                                        | mm          | 2550                                                                        |           |
| Max transport height / Altezza di trasporto, max                                                         | mm          | 3350                                                                        |           |
| BOOM / BRACCIO                                                                                           |             |                                                                             |           |
| Tubular boom / Braccio tubolare                                                                          | mm          | B x H                                                                       | 900 x 900 |
| WEIGHTS / PESI                                                                                           |             |                                                                             |           |
| Base machine / Macchina base                                                                             | t           | 39,5                                                                        |           |
| In working conditions / In opera, max                                                                    | t           | 43                                                                          |           |
| Transport configuration with counterweight / In trasporto con contrappeso                                | t           | 40,5                                                                        |           |
| Counterweight / Contrappeso                                                                              | t           | 7                                                                           |           |
| The shown weights may vary in different outfittings / I pesi possono variare con differenti allestimenti |             |                                                                             |           |

\*1 No safety ratio for crane



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## Dimensioni e pesi / Dimensions & weights

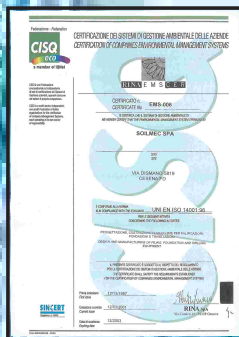


|                      |                                                        |    |             |
|----------------------|--------------------------------------------------------|----|-------------|
| <b>A</b>             | Passo cingoli<br>Track wheel centre to centre distance | mm | <b>4380</b> |
| <b>B</b>             | Carreggiata aperto<br>Track gauge open                 | mm | <b>3300</b> |
| <b>B<sub>1</sub></b> | Carreggiata chiuso<br>Track gauge closed               | mm | <b>1850</b> |
| <b>C</b>             | Lunghezza cingoli<br>Track length                      | mm | <b>5211</b> |
| <b>D</b>             | Larghezza pattini<br>Shoe width                        | mm | <b>700</b>  |
| <b>E</b>             | Lunghezza macchina base<br>Length of base machine      | mm | <b>6609</b> |
| <b>F</b>             | Altezza macchina base<br>Height of base machine        | mm | <b>3279</b> |
| <b>G</b>             | Larghezza torretta<br>Turret width                     | mm | <b>2550</b> |
| <b>H</b>             | Altezza max. cofanatura<br>Max. height of hoods        | mm | <b>2709</b> |

|                      |                                                                           |    |              |
|----------------------|---------------------------------------------------------------------------|----|--------------|
| <b>I</b>             | Sbalzo anteriore<br>Radius of front end                                   | mm | <b>2611</b>  |
| <b>L</b>             | Sbalzo posteriore<br>Tail swing radius                                    | mm | <b>3998</b>  |
| <b>M</b>             | Altezza sotto contrappeso<br>Counterweight ground clearance               | mm | <b>1211</b>  |
| <b>N</b>             | Larghezza interna sottocarro aperto<br>Width of undercarriage open        | mm | <b>2600</b>  |
| <b>N<sub>1</sub></b> | Larghezza interna sottocarro chiuso<br>Width of undercarriage closed      | mm | <b>1150</b>  |
| <b>O</b>             | Larghezza totale sottocarro aperto<br>Total width of undercarriage open   | mm | <b>4000</b>  |
| <b>O<sub>1</sub></b> | Larghezza totale sottocarro chiuso<br>Total width of undercarriage closed | mm | <b>2550</b>  |
| <b>P</b>             | Luce libera ( sotto il carro )<br>Ground clearance ( below crawler unit ) | mm | <b>315</b>   |
|                      | Peso macchina base senza braccio<br>Weight of base machine w/out boom     | kg | <b>39250</b> |

Tutti i dati tecnici sono da considerare indicativi.  
La SOILMEC si riserva la facoltà di modificarli opportunamente.

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



### Certificazioni di Qualità Aziendale

Il Sistema di Qualità Soilmec è certificato ISO 9001 dal 1990, API dal 1995 e ISO 14001 dal 1997.

### Certified Quality System

In 1990 Soilmec Quality System was certified under ISO 9001 standard in 1995 under API Q1 Specification and in 1997 under ISO 14001.



# SOILMEC

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