



119 kW (Stage IIIa)

129 kW (Stage IV)



40 t



30 m



MULTICAB

643E

Mobile telescopic crane

Stage IV

643E Advanced. The E-Series



Telescopic crane TX10

What makes up the E-Series

- Over 25 years of experience in construction and building of highly specialized telescopic cranes
- Uncompromisingly high performance in all areas
- Technology that can be mastered: High-quality components without over-engineering
- Long service life and high value stability

Your top benefits:

1

Green Efficiency

Save fuel – reduce operating costs
Work quietly – protect operator and environment



2

Peak performance

Robust boom system – work on an incline of up to 4°

3

Maximum usability

MultiCab – work in comfort
SENCON – work program selection made easy



4

Flexibility in service

Operate under full load – less space required
Strong undercarriage traction – good off-road capability

5

Easy transport

Mobile undercarriage with sliding beam support – ready to go in no time

6

Maintenance and service made easy

SENNEBOGEN control system – easy error diagnostics
Simple maintenance – clear labeling

7

Consultation and support in your area

3 production sites – 2 subsidiaries
130 sales partners – over 350 service stations

Stage IV

- Most modern, powerful engine
- Fuel-efficient
- Clean emissions



643E Technical data, equipment

MACHINE TYPE

Model (type) **643**

ENGINE

Model Cummins diesel engine QSB 4.5
119 kW / 162 hp at 2,200 rpm
Compliant with Tier IIIa emission standards

Cummins diesel engine QSB 4.5
129 kW / 175 hp at 2,500 rpm
Compliant with Tier IV emission standards

Direct injection, turbo-charged,
charge air cooling, reduced emissions

Cooling Water-cooled

Diesel filter With water separator and heating system

Air filter Dry filter with integrated pre-separator,
automatic dust discharge, main element and
safety element, contamination indicator

Fuel tank **360 l**

DEF tank **38 l**

Electr. system **24 V**

Batteries **2 x 155 AH** battery disconnect switch

Options

- Low-temperature package with engine pre-heating and heated diesel filter for temperatures below -20 °C
- Electric diesel fuel pump

UPPERCARRIAGE

Design Torsion-resistant box design, precision-crafted,
steel bushings for boom bearings. Extremely
service-friendly design, longitudinal engine

Electrical system Central electrical distributor, battery disconnect
switch

Cooling system 3-circuit cooling system with high cooling
capacity, electronically regulated fan drive for
water, charge air and oil cooler

Safety Rearview and right sideview cameras, LED
lighting package

Options

- Additional LED headlights
- Up to 2 additional cameras
- Maritime climate varnishing as corrosion protection
- Low-temperature package for use at temperatures below -20 °C

Options

- Automatic central lubrication for boom pivot point, luffing cylinder, slewing ring track and winch drum bearing
- Pinion tooth lubrication for slewing ring

HYDRAULIC SYSTEM

Load sensing/LUDV hydraulic system, electrohydraulic pilot-controlled work functions, load limit sensing control

Pump type Swashplate-type variable-displacement piston pump, load pressure-independent flow distribution for simultaneous, independent control of work functions

Pump control Zero-stroke control, on-demand flow control – the pumps only pump as much oil as will actually be used, pressure purging, load limit sensing control

Operating pressure **max. 330 bar**

Filtration High-performance filtration with long change interval

Hydraulic tank **500 l**

Control system Proportional, precision electrohydraulic actuation of work movements, 2 electric servo joysticks for work functions, including winch motion display via vibration transducer, additional functions via switches and pedals

Safety Hydraulic circuits secured with safety valves
Pipe fracture safety valve for luffing and telescoping cylinders

Options

- Bio-oil
- SENNEBOGEN HydroClean 3 µm hydraulic microfilter
- Electric heater for hydraulic tank for temperatures below -20 °C

SLEWING DRIVE


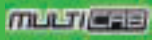
Gearbox Compact planetary gear with slant-axis hydraulic motor, integrated brake valves


Slewing gear brake Spring-loaded disk brake, pedal for individual braking

Slewing ring Externally geared slewing ring, sealed


Rotation speed **0-2 rpm**, variable


643E Technical data, equipment

|  CAB  | |
|--|---|
| Cab type | Multicab, can be inclined by 15° |
| Cab equipment | Flexibly mounted comfortable cab with super sound insulation. All-weather design, all-round glazing in safety glass and large roof window, adjustable windshield. Flexibly mounted comfortable seat, adjustable according to weight and shock-absorbent. Dashboard overview with swiveling steering column. Variable, controllable cab heating with air circulation stage and particle filter, automatic climate control |
| Options | <ul style="list-style-type: none"> ■ Cab type E240, can be elevated 240 cm ■ Cab can be tilted 20° ■ Auxiliary heating system with timer ■ Activated carbon filter for cabs ■ Armored-glass windshield ■ Armored-glass sunroof ■ Protective roof grating ■ FOPS protective roof grating ■ Radio with USB and SD connection, MP3 and Bluetooth function |

|  ATTACHMENTS | |
|--|--|
| Design | Decades of experience, state-of-the-art computer simulation, maximum stability and service life, oversized and low-maintenance bearing points, sealed special bearing bushes, precision-crafted |
| Telescopic boom | 4-part with pulley head, continuous hydraulic telescoping to 9–30 m |
| Hoisting winch | Drive using inclined axis hydraulic motor with compact planetary gear, traction 35 kN (40 kN in the 1st position), cable speed 0–95 m/min., cable diameter 14 mm, 160 m cable length. |
| Safety brake | Spring-loaded disk brake |
| Crane safety | Next-generation load moment monitoring, straightforward panel displaying all important data through SENCON display, lifting limit switch, cable exit protection, pressure relief valves and pipe fracture safety device with Eventrecorder |
| Cylinders | Hydraulic cylinders with high-quality sealing and guide elements |

| | |
|---------|--|
| Options | <ul style="list-style-type: none"> ■ 6.5 m fly boom, tiltable (0°, 40°), extremely fast and easy setup without auxiliary devices, locked on basic boom when not in use ■ Fly boom extension to 13 m, tiltable (0°, 40°) ■ Wind movement display using vibrating joystick ■ Auxiliary jib, 3.5 t load capacity, 1-strand ■ 2nd crane winch: traction 35 kN (4th position), cable speed 0–95 m/min, cable diameter 14 mm, 130 m cable length ■ Additional load charts accepted for 2°/4° incline position ■ 7.5 kW electrohydraulic emergency unit ■ Remote radio control ■ Working range restriction |
|---------|--|

|  UNDERCARRIAGE | |
|--|--|
| Design | Strong mobile undercarriage with integrated 4-point outrigger, steering axle as hydraulically locking pendulum axle. Pendulum axle cylinder with pipe-fracture safety valves |
| Travel drive | All-wheel drive powered by an adjustable hydraulic motor with direct-mounted, automatically actuated brake valve and 2-stage power shift transmission. Strong 40 t planetary axles with integrated steering cylinders, 2-circuit multi-disk service brake. |
| Steering | All-wheel steering |
| Parking brake | Spring-loaded disk brake |
| Tires | 12.00-20, 8x |
| Speed | 0–6 km/h off-road, 0–25 km/h on-road |

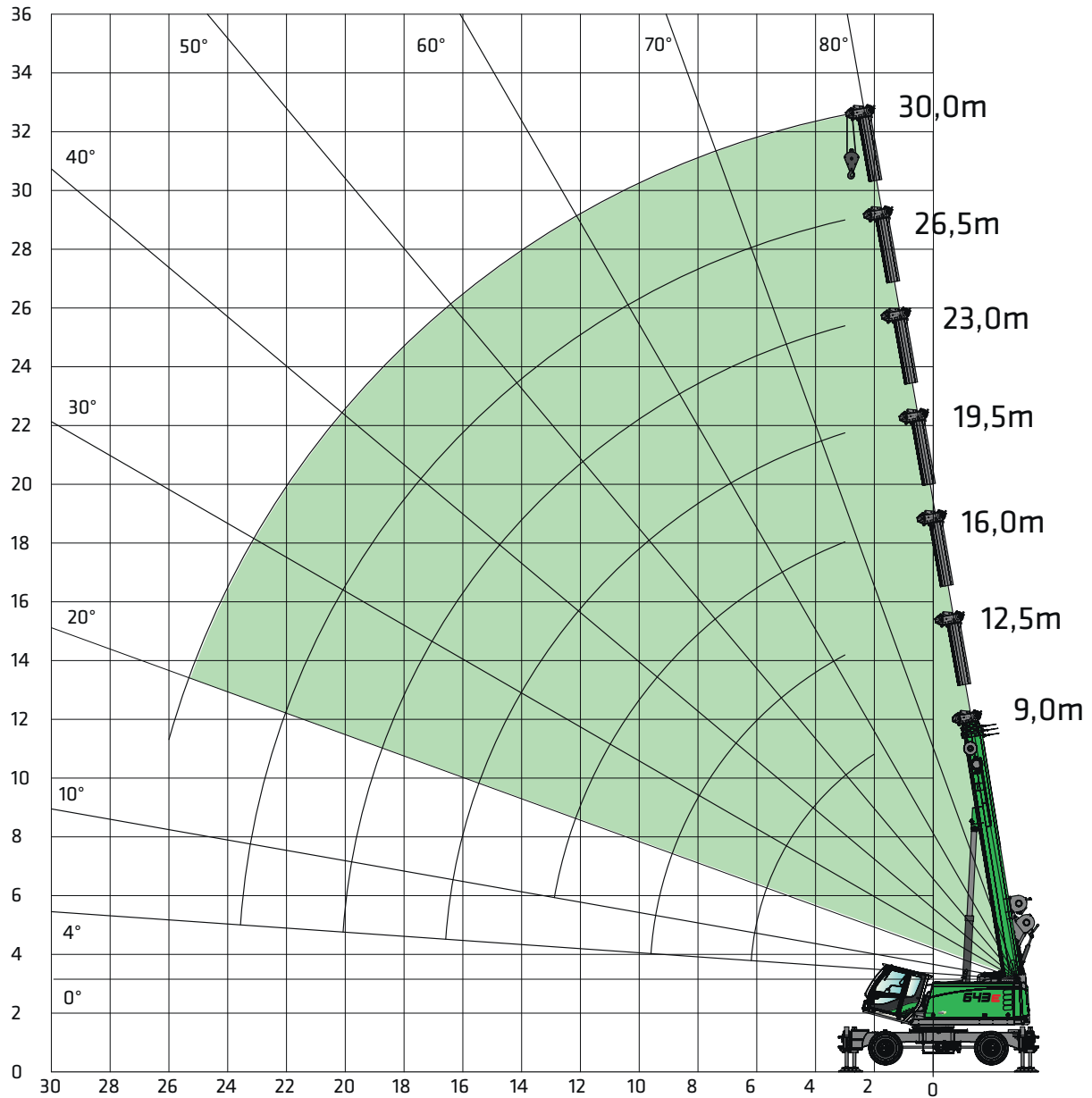
|  OPERATING WEIGHT | |
|---|--|
| Mass | Approx. 27 t with 30 m telescopic boom, 13 m fly boom, 1.9 t counterweight, 25 t hook, 2 hoisting winches. |
| Notice | Operating weight varies by model. |



643E Crane equipment



30 m main boom (HA)



Hook

| Capacity | Weight | Number of strands | | | | | | | | |
|-------------------------|---------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| | | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 32 t 4-pulley | 300 kg | 31,500 kg | 28,000 kg | 24,500 kg | 21,000 kg | 17,500 kg | 14,000 kg | 10,500 kg | 7,000 kg | 3,500 kg |
| 25 t 3-pulley | 220 kg | | | 24,500 kg | 21,000 kg | 17,500 kg | 14,000 kg | 10,500 kg | 7,000 kg | 3,500 kg |
| 4 t | 40 kg | | | | | | | | | 3,500 kg |

643E Load ratings



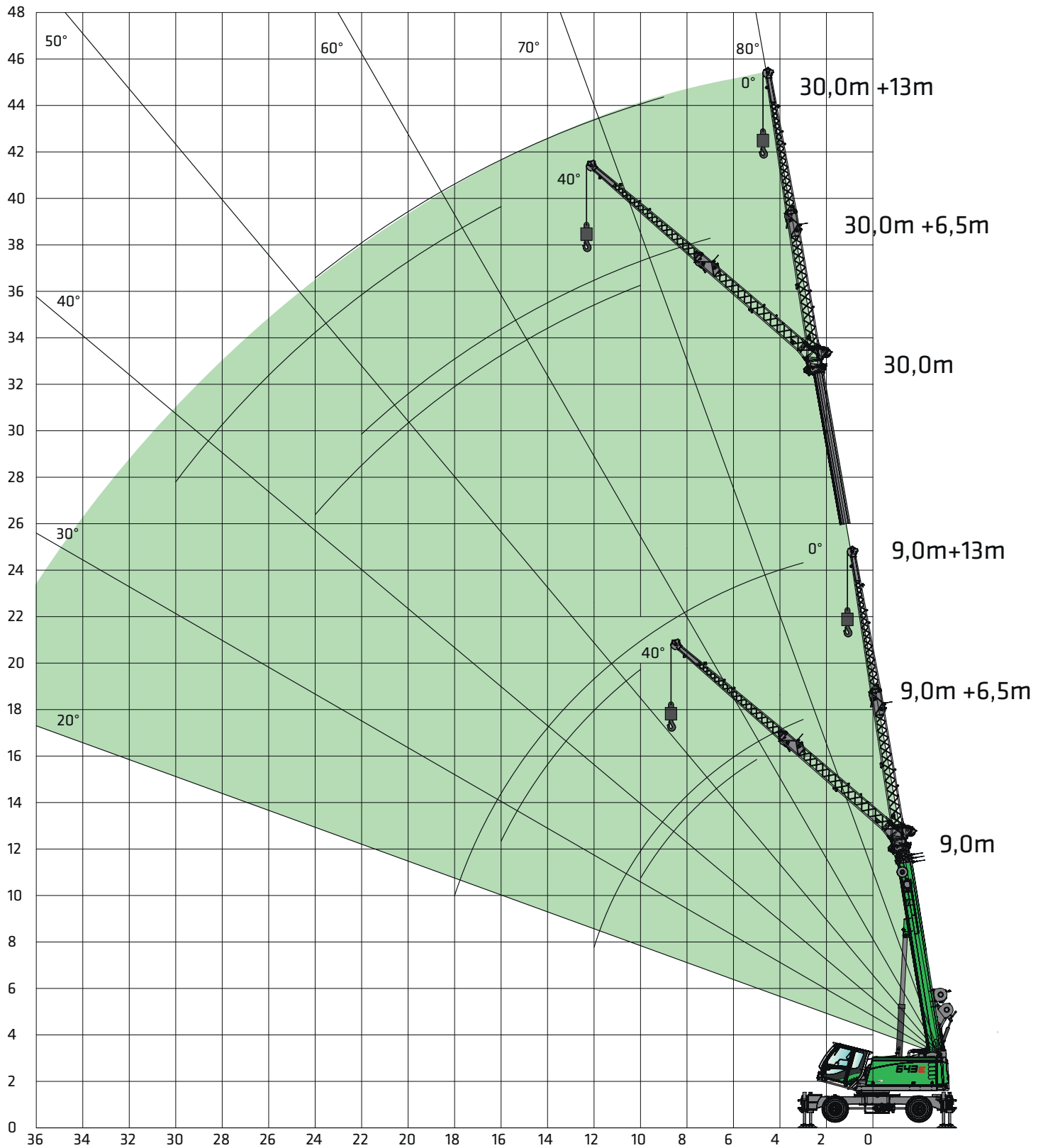
30 m main boom (HA)

| | Boom length [m] | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---------|---------|---------|---------|---------|------|------|------|----------|----------|------|------|------|----------|----------|-----|-----|------|-----|-----|
| | 9.0 | | | 12.5 | | | 16.0 | | | 19.5 | | | 23.0 | | | 26.5 | | | 30.0 | | |
| Counterweight [t] | | | | | | | | | | | | | | | | | | | | | |
| Outrigger width [%] | | | | | | | | | | | | | | | | | | | | | |
| Outreach [m] | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 40.0 | 35.0 | 21.6 | | | | | | | | | | | | | | | | | | |
| 3.0 | 30.1 | 27.1 | 12.0 | 20.0 | 20.0 | 12.0 | 15.0 | 15.0 | 12.0 | 14.0 | 14.0 | 12.5 | 11.0 | 11.0 | 11.0 | 8.9 | 8.9 | 8.9 | 5.0 | 5.0 | 5.0 |
| 4.0 | 24.8 | 20.4 | 7.3 | 20.0 | 20.0 | 7.1 | 15.0 | 15.0 | 7.1 | 14.0 | 14.0 | 7.6 | 11.0 | 11.0 | 7.8 | 8.9 | 8.9 | 8.1 | 5.0 | 5.0 | 5.0 |
| 5.0 | 18.8 | 12.8 | 4.9 | 18.5 | 12.6 | 4.8 | 15.0 | 12.5 | 4.7 | 13.3 | 13.1 | 5.1 | 11.0 | 11.0 | 5.4 | 8.6 | 8.6 | 5.6 | 5.0 | 5.0 | 5.0 |
| 6.0 | 13.4 | 9.0 | 3.4 | 13.2 | 8.9 | 3.3 | 13.1 | 8.8 | 3.2 | 12.0 | 9.3 | 3.6 | 10.3 | 9.6 | 3.8 | 8.3 | 8.3 | 4.0 | 5.0 | 5.0 | 4.0 |
| 7.0 | 12.7/6.2 | 8.6/6.2 | 2.8/6.2 | 9.9 | 6.6 | 2.1 | 9.9 | 6.6 | 2.1 | 10.4 | 7.0 | 2.5 | 9.5 | 7.3 | 2.8 | 7.8 | 7.5 | 3.0 | 5.0 | 5.0 | 2.9 |
| 8.0 | | | | 7.8 | 5.1 | 1.4 | 7.8 | 5.0 | 1.4 | 8.2 | 5.4 | 1.7 | 8.6 | 5.7 | 2.0 | 7.4 | 5.9 | 2.2 | 5.0 | 5.0 | 2.2 |
| 9.0 | | | | 6.2 | 3.9 | 1.0 | 6.2 | 3.9 | 1.0 | 6.6 | 4.3 | 1.3 | 7.0 | 4.6 | 1.4 | 6.9 | 4.8 | 1.6 | 5.0 | 5.0 | 1.6 |
| 10.0 | | | | 5.5/9.6 | 3.4/9.6 | 0.6/9.6 | 5.1 | 3.1 | 0.6 | 5.5 | 3.4 | 0.8 | 5.8 | 3.7 | 1.1 | 6.0 | 3.9 | 1.3 | 5.0 | 4.1 | 1.2 |
| 11.0 | | | | | | | 4.2 | 2.5 | | 4.5 | 2.8 | 0.5 | 4.9 | 3.0 | 0.7 | 5.1 | 3.2 | 0.9 | 5.0 | 3.4 | 0.9 |
| 12.0 | | | | | | | 3.4 | 2.0 | | 3.8 | 2.2 | | 4.1 | 2.5 | 0.5 | 4.3 | 2.7 | 0.6 | 4.5 | 2.9 | 0.6 |
| 13.0 | | | | | | | 2.8 | 1.5 | | 3.2 | 1.8 | | 3.5 | 2.1 | | 3.7 | 2.3 | 0.4 | 3.9 | 2.4 | 0.4 |
| 14.0 | | | | | | | | | | 2.7 | 1.5 | | 3.0 | 1.7 | | 3.2 | 1.9 | | 3.4 | 2.0 | |
| 15.0 | | | | | | | | | | 2.3 | 1.1 | | 2.5 | 1.4 | | 2.8 | 1.6 | | 2.9 | 1.7 | |
| 16.0 | | | | | | | | | | 1.9 | 0.9 | | 2.2 | 1.1 | | 2.4 | 1.3 | | 2.5 | 1.4 | |
| 17.0 | | | | | | | | | | 1.7/16.6 | 0.7/16.6 | | 1.8 | 0.9 | | 2.1 | 1.1 | | 2.2 | 1.2 | |
| 18.0 | | | | | | | | | | | | | 1.6 | 0.7 | | 1.8 | 0.9 | | 1.9 | 1.0 | |
| 19.0 | | | | | | | | | | | | | 1.3 | 0.5 | | 1.5 | 0.7 | | 1.7 | 0.8 | |
| 20.0 | | | | | | | | | | | | | 1.1 | | | 1.3 | 0.5 | | 1.4 | 0.7 | |
| 21.0 | | | | | | | | | | | | | | | 1.1/20.1 | 1.1 | | | 1.2 | 0.5 | |
| 22.0 | | | | | | | | | | | | | | | | 0.9 | | | 1.1 | | |
| 23.0 | | | | | | | | | | | | | | | | 0.7 | | | 0.9 | | |
| 24.0 | | | | | | | | | | | | | | | | 0.7/23.6 | | | 0.7 | | |
| 25.0 | | | | | | | | | | | | | | | | | | | 0.6 | | |
| 26.0 | | | | | | | | | | | | | | | | | | | 0.5 | | |
| 27.0 | Table no.: 643M-30.0/75/2642/1.9/12.16 | | | | | | | | | | | | | | | | | | | | |
| 28.0 | Table no.: 643M-30.0/75/2000/1.9/12.16 | | | | | | | | | | | | | | | | | | | | |
| Number of strands | 9 | 8 | 4 | 6 | 6 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 2 | 2 |
| I | 0% | | | 50% | | | 100% | | | 100% | | | 100% | | | 100% | | | | | |
| II | 0% | | | 0% | | | 0% | | | 25% | | | 50% | | | 75% | | | 100% | | |
| III | 0% | | | 0% | | | 0% | | | 25% | | | 50% | | | 75% | | | 100% | | |
| at collapsible jib | | | | | | | | | | | | | | | | | | | | | |
| Load capacity reduction [kg] | 570 | | | 420 | | | 330 | | | 280 | | | 240 | | | 210 | | | 180 | | |

643E Crane equipment



6.5 m or 13 m fly boom (SA)



643E Load ratings



6.5 m fly boom (SA)

| 1.9 t | Telescopic boom length [m] | | | | | | | |
|--------------------------|--|----------|----------|----------|----------|----------|----------|----------|
| | 9.0 | | 16.0 | | 23.0 | | 30.0 | |
| 100% | 0° | 40° | 0° | 40° | 0° | 40° | 0° | 40° |
| Outreach [m] | | | | | | | | |
| 2.0 | | | | | | | | |
| 3.0 | 6.0 | | 6.0 | | | | | |
| 4.0 | 6.0 | | 6.0 | | | | | |
| 5.0 | 5.5 | 3.5 | 6.0 | | 6.0 | | | |
| 6.0 | 4.9 | 3.3 | 6.0 | 3.6 | 6.0 | | | |
| 7.0 | 4.4 | 3.1 | 5.9 | 3.4 | 6.0 | | 3.5 | |
| 8.0 | 4.0 | 2.9 | 5.4 | 3.3 | 5.9 | 3.4 | 3.5 | |
| 9.0 | 3.7 | 2.8 | 5.0 | 3.2 | 5.5 | 3.3 | 3.5 | |
| 10.0 | 3.4 | 2.7 | 4.6 | 3.1 | 4.7 | 3.2 | 3.5 | 3.2 |
| 11.0 | 3.1 | | 4.3 | 3.0 | 4.0 | 3.2 | 3.5 | 3.0 |
| 12.0 | 2.8 | | 3.7 | 2.8 | 3.5 | 3.1 | 3.2 | 2.9 |
| 13.0 | | | 3.2 | 2.8 | 3.0 | 3.0 | 2.8 | 2.8 |
| 14.0 | | | 2.8 | 2.8 | 2.6 | 2.9 | 2.5 | 2.7 |
| 15.0 | | | 2.4 | | 2.3 | 2.8 | 2.1 | 2.5 |
| 16.0 | | | 2.1 | | 2.0 | 2.4 | 1.9 | 2.4 |
| 18.0 | | | 1.5 | | 1.5 | 1.8 | 1.4 | 1.8 |
| 20.0 | | | | | 1.1 | 1.3 | 1.0 | 1.3 |
| 22.0 | | | | | 0.7 | | 0.7 | 1.0 |
| 24.0 | | | | | | | | 0.6 |
| 26.0 | | | | | | | | |
| 28.0 | | | | | | | | |
| 30.0 | | | | | | | | |
| 32.0 | | | | | | | | |
| 34.0 | | | | | | | | |
| 36.0 | | | | | | | | |
| 38.0 | Table no.: 643R-30.0/75/2642/1.9/12.16 SA6.5 | | | | | | | |
| Number of strands | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| I | 0% | | 100% | | 100% | | 100% | |
| II | 0% | | 0% | | 50% | | 100% | |
| III | 0% | | 0% | | 50% | | 100% | |

643E Load ratings



13 m fly boom (SA)

| 1.9 t | Telescopic boom length [m] | | | | | | | |
|-------------------|---|-----|------|-----|------|-----|------|-----|
| | 9.0 | | 16.0 | | 23.0 | | 30.0 | |
| 100% | 0° | 40° | 0° | 40° | 0° | 40° | 0° | 40° |
| Outreach [m] | | | | | | | | |
| 2.0 | | | | | | | | |
| 3.0 | 3.0 | | | | | | | |
| 4.0 | 3.0 | | | | | | | |
| 5.0 | 3.0 | | 3.0 | | | | | |
| 6.0 | 3.0 | | 3.0 | | | | | |
| 7.0 | 2.9 | | 3.0 | | 3.0 | | | |
| 8.0 | 2.6 | | 3.0 | | 3.0 | | | |
| 9.0 | 2.3 | | 2.9 | | 3.0 | | 2.0 | |
| 10.0 | 2.1 | 1.6 | 2.7 | | 2.9 | | 2.0 | |
| 11.0 | 2.0 | 1.5 | 2.5 | | 2.7 | | 2.0 | |
| 12.0 | 1.8 | 1.4 | 2.4 | 1.5 | 2.6 | | 2.0 | |
| 13.0 | 1.7 | 1.4 | 2.2 | 1.5 | 2.5 | | 2.0 | |
| 14.0 | 1.6 | 1.3 | 2.1 | 1.5 | 2.4 | 1.5 | 2.0 | |
| 15.0 | 1.6 | 1.3 | 2.0 | 1.4 | 2.3 | 1.5 | 2.0 | |
| 16.0 | 1.5 | 1.3 | 1.9 | 1.4 | 2.2 | 1.4 | 2.0 | 1.5 |
| 18.0 | 1.1 | | 1.7 | 1.3 | 1.8 | 1.4 | 1.7 | 1.4 |
| 20.0 | | | 1.6 | 1.3 | 1.5 | 1.3 | 1.3 | 1.4 |
| 22.0 | | | 1.3 | | 1.1 | 1.3 | 1.0 | 1.3 |
| 24.0 | | | 1.0 | | 0.9 | 1.3 | 0.8 | 1.3 |
| 26.0 | | | | | 0.6 | 1.0 | | 1.0 |
| 28.0 | | | | | | | | 0.7 |
| 30.0 | | | | | | | | 0.5 |
| 32.0 | | | | | | | | |
| 34.0 | | | | | | | | |
| 36.0 | | | | | | | | |
| 38.0 | Table no.: 643R-30.0/75/2642/1.9/12.16 SA13 | | | | | | | |
| Number of strands | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| I | 0% | | 100% | | 100% | | 100% | |
| II | 0% | | 0% | | 50% | | 100% | |
| III | 0% | | 0% | | 50% | | 100% | |

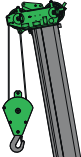
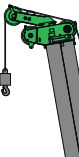























643E Load ratings



Auxiliary jib (HA-S)

| | Boom length [m] | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---------|---------|----------|----------|------|----------|----------|------|----------|----------|------|----------|-----|------|----------|-----|------|---------|---------|---------|
| | 9.0 | | | 12.5 | | | 16.0 | | | 19.5 | | | 23.0 | | | 26.5 | | | 30.0 | | |
| Counterweight [t] | | | | | | | | | | | | | | | | | | | | | |
| Outrigger width [%] | 100 | 50 | free | 100 | 50 | free | 100 | 50 | free | 100 | 50 | free | 100 | 50 | free | 100 | 50 | free | 100 | 50 | free |
| Outreach [m] | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5/3.5 | 3.5/3.5 | 3.5/3.5 |
| 4.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 5.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 6.0 | 3.5 | 3.5 | 3.3 | 3.5 | 3.5 | 3.2 | 3.5 | 3.5 | 3.1 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 7.0 | 3.5/6.7 | 3.5/6.7 | 2.2/6.7 | 3.5 | 3.5 | 2.0 | 3.5 | 3.5 | 2.0 | 3.5 | 3.5 | 2.4 | 3.5 | 3.5 | 2.7 | 3.5 | 3.5 | 2.9 | 3.5 | 3.5 | 2.9 |
| 8.0 | | | | 3.5 | 3.5 | 1.3 | 3.5 | 3.5 | 1.3 | 3.5 | 3.5 | 1.6 | 3.5 | 3.5 | 1.9 | 3.5 | 3.5 | 2.1 | 3.5 | 3.5 | 2.2 |
| 9.0 | | | | 3.5 | 3.5 | 0.9 | 3.5 | 3.5 | 0.9 | 3.5 | 3.5 | 1.2 | 3.5 | 3.5 | 1.3 | 3.5 | 3.5 | 1.5 | 3.5 | 3.5 | 1.6 |
| 10.0 | | | | 3.5 | 2.8 | | 3.5 | 3.0 | 0.5 | 3.5 | 3.3 | 0.7 | 3.5 | 3.5 | 1.0 | 3.5 | 3.5 | 1.2 | 3.5 | 3.5 | 1.2 |
| 11.0 | | | | 3.5/10.2 | 2.6/10.2 | | 3.5 | 2.4 | | 3.5 | 2.7 | | 3.5 | 2.9 | 0.6 | 3.5 | 3.1 | 0.8 | 3.5 | 3.3 | 0.9 |
| 12.0 | | | | | | | 3.3 | 1.9 | | 3.5 | 2.1 | | 3.5 | 2.4 | | 3.5 | 2.6 | 0.5 | 3.5 | 2.8 | 0.6 |
| 13.0 | | | | | | | 2.7 | 1.4 | | 3.1 | 1.7 | | 3.4 | 2.0 | | 3.5 | 2.2 | | 3.5 | 2.3 | |
| 14.0 | | | | | | | 2.3/13.7 | 1.0/13.7 | | 2.6 | 1.4 | | 2.9 | 1.6 | | 3.1 | 1.8 | | 3.3 | 1.9 | |
| 15.0 | | | | | | | | | | 2.2 | 1.0 | | 2.4 | 1.3 | | 2.7 | 1.5 | | 2.8 | 1.6 | |
| 16.0 | | | | | | | | | | 1.8 | 0.8 | | 2.1 | 1.0 | | 2.3 | 1.2 | | 2.4 | 1.3 | |
| 17.0 | | | | | | | | | | 1.6 | 0.6 | | 1.7 | 0.8 | | 2.0 | 1.0 | | 2.1 | 1.1 | |
| 18.0 | | | | | | | | | | 1.5/17.2 | 0.5/17.2 | | 1.5 | 0.6 | | 1.7 | 0.8 | | 1.8 | 0.9 | |
| 19.0 | | | | | | | | | | | | | 1.2 | | | 1.4 | 0.6 | | 1.6 | 0.7 | |
| 20.0 | | | | | | | | | | | | | 1.0 | | | 1.2 | | | 1.3 | 0.6 | |
| 21.0 | | | | | | | | | | | | | 1.0/20.7 | | | 1.0 | | | 1.1 | | |
| 22.0 | | | | | | | | | | | | | | | | 0.8 | | | 1.0 | | |
| 23.0 | | | | | | | | | | | | | | | | 0.7 | | | 0.8 | | |
| 24.0 | | | | | | | | | | | | | | | | 0.5 | | | 0.6 | | |
| 25.0 | | | | | | | | | | | | | | | | 0.5/24.2 | | | 0.5 | | |
| 26.0 | | | | | | | | | | | | | | | | | | | | | |
| 27.0 | Table no.: 643M-30.0/75/2642/1.9/12.16 HA-S | | | | | | | | | | | | | | | | | | | | |
| 28.0 | Table no.: 643M-30.0/75/2000/1.9/12.16 HA-S | | | | | | | | | | | | | | | | | | | | |
| Number of strands | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| I | 0% | | | 50% | | | 100% | | | 100% | | | 100% | | | 100% | | | | | |
| II | 0% | | | 0% | | | 0% | | | 25% | | | 50% | | | 75% | | | | | |
| III | 0% | | | 0% | | | 0% | | | 25% | | | 50% | | | 75% | | | | | |
| at collapsible jib | | | | | | | | | | | | | | | | | | | | | |
| Load capacity reduction [kg] | - | | | - | | | - | | | - | | | - | | | - | | | - | | |

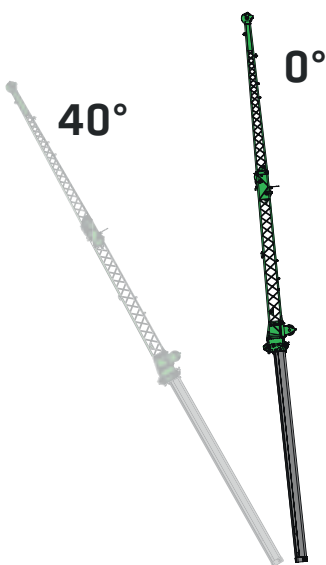
643E Load capacity programs

| | Main boom HA | | | Auxiliary jib HA-S | | | 6.5 m fly boom (SA) | | | Fly boom SA 13 m | | |
|---|--|--|--|--|--|--|---|---|--|--|---|--|
| Counterweight [t] |  | | |  | | |  | | |  | | |
| Undercarriage track width |  100% |  50% |  free |  100% |  50% |  free |  100% |  50% |  free |  100% |  50% |  free |
|  1.9 t |  360° |  360° |  360° |  360° |  360° |  360° |  360° | - | - |  360° | - | - |

Note:

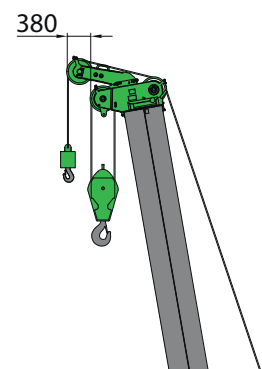
1. Specified load ratings only apply when machine is level ($\pm 0.3^\circ$) and stable.
2. Load ratings are specified in tons and apply to 360 degrees.
3. Load ratings are in accordance with DIN 15019.2 and ISO 4305.
4. The weight of the load handling devices (e.g., hook, suspension gear) must be subtracted from the load ratings.
5. Load ratings must be limited or reduced when conditions are unfavorable, such as soft or uneven ground, slopes, wind, lateral loads, swinging loads, jerking or sudden stopping of load, operator inexperience, driving with load.
6. Permissible rope winch per strand in crane mode for cable diameter 14 mm – 3,500 kg
7. The specified load ratings are for reference only. The currently valid load ratings can be found in the tables in the operating manual.
8. Optional load capacities are also available for a $2^\circ/4^\circ$ incline position.

643E Fly boom

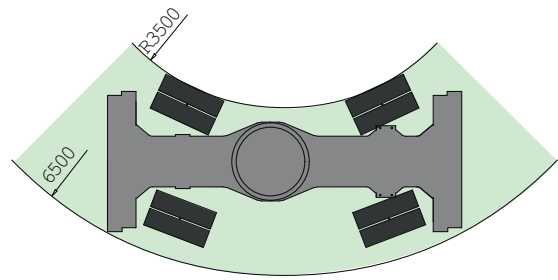
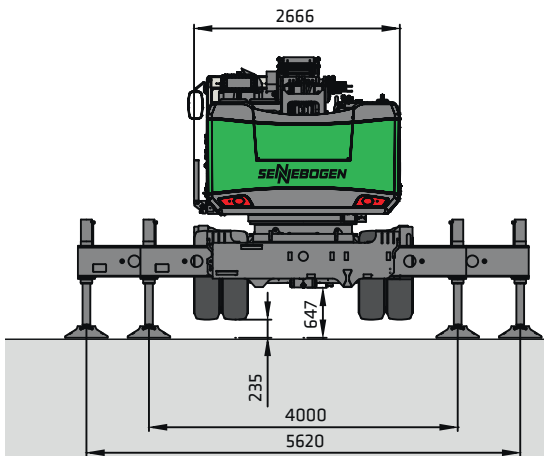


Fly boom variants

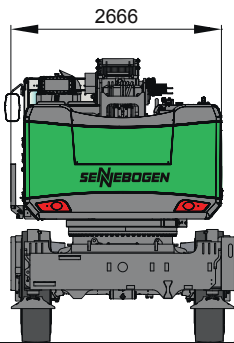
- **6.5 m fly boom***
Max. 2-strand, possible offset angle $0^\circ/40^\circ$
- **13 m fly boom***
with 6.5 m extension,
1-strand, offset angle $0^\circ/40^\circ$
- **Auxiliary jib**
3.5 t load capacity, 1-strand



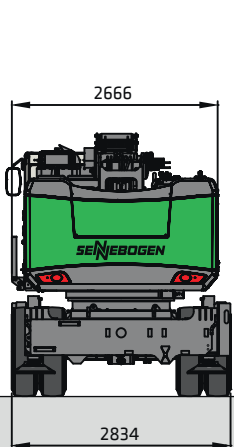
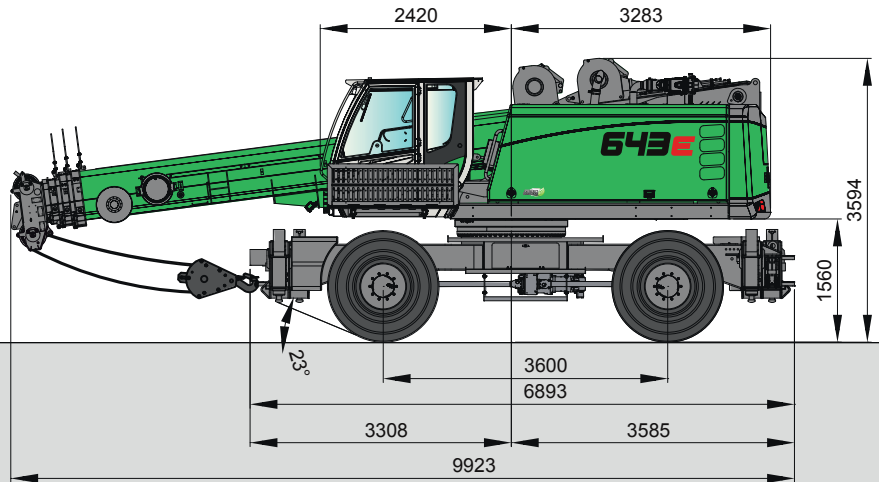
643E Transport dimensions and weights



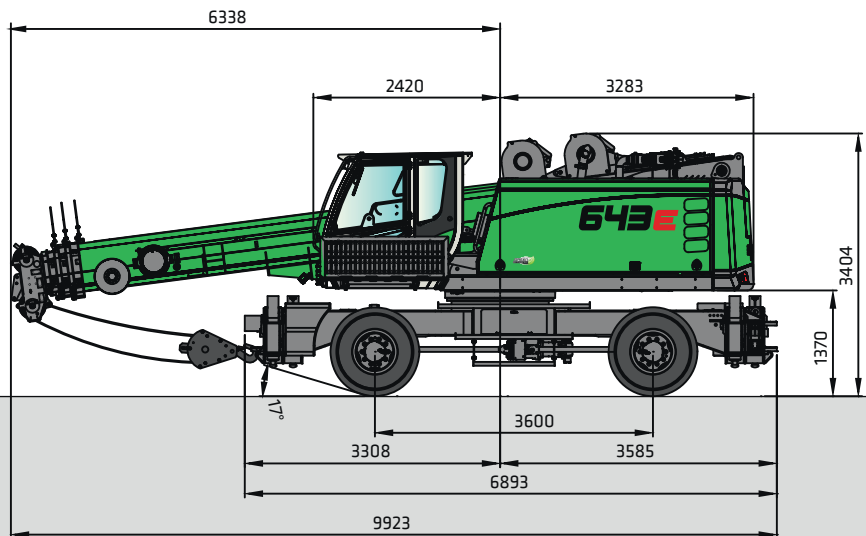
643 mobile undercarriage with integrated 4-point outrigger
 Service weight: approx. 27 t (with 13 m fly boom, 2 hoisting winches, 1.9 t counterweight and 25 t hook)



Single tires
 4 x 14.00-24

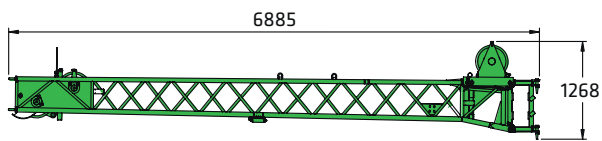


Twin tires
 8 x 12.00-20



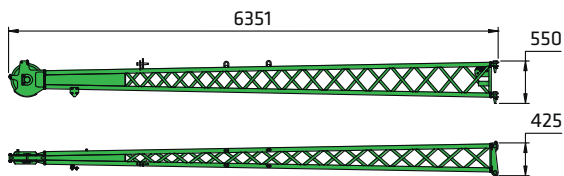
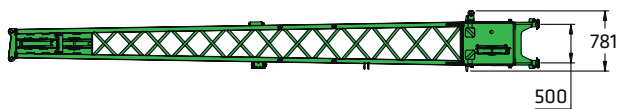
Transport weight: approx. 27,000 kg (13 m fly boom, 2 hoisting winches)

643E Transport dimensions and weights



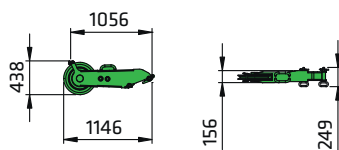
6.5 m fly boom

600 kg



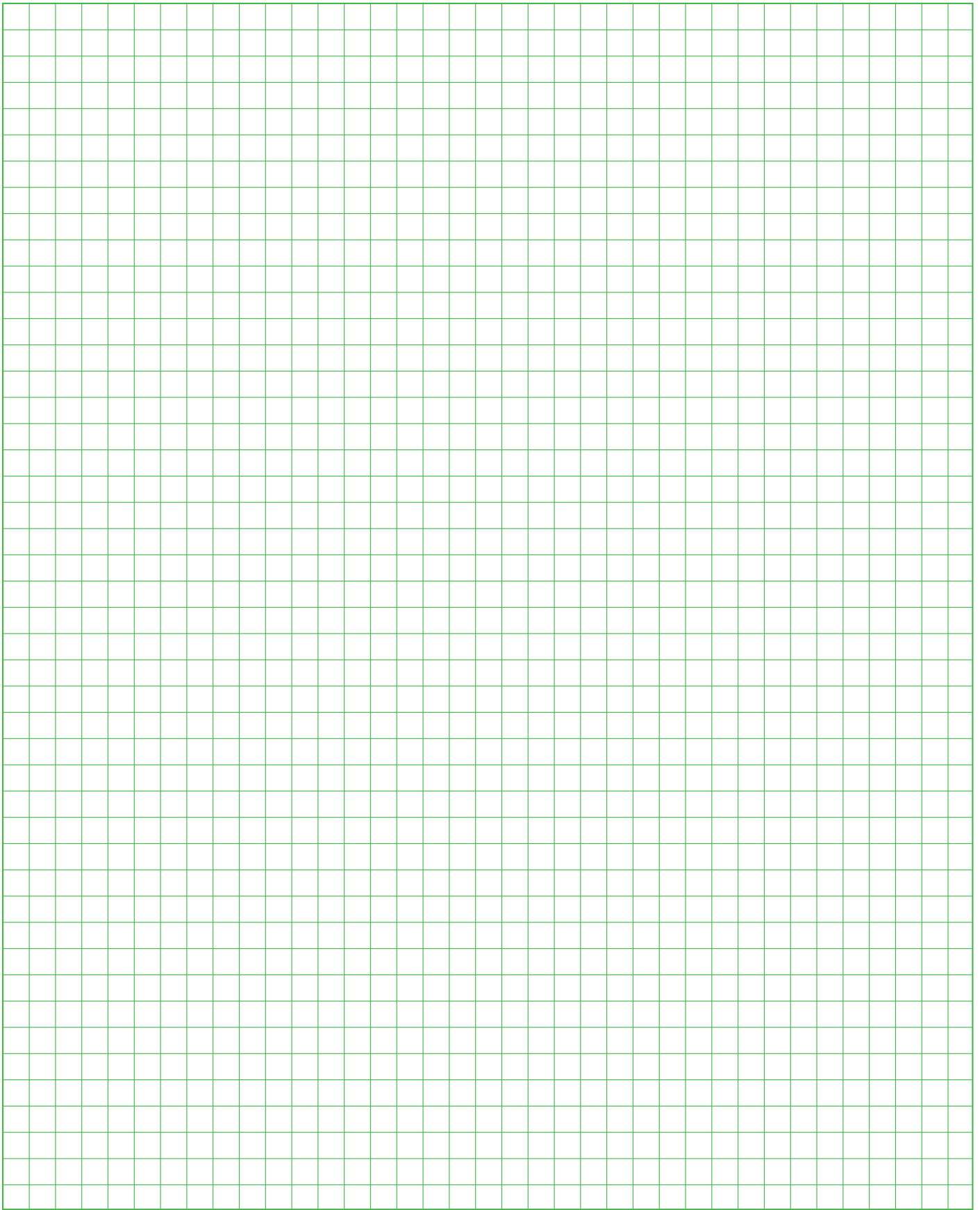
6.5 m fly boom extension

250 kg



Auxiliary jib

50 kg



643E

M



This catalog describes machine models, scopes of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines delivered by SENNEBOGEN Maschinenfabrik. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary in a tolerance range depending on the country to which the machines are delivered, especially in regard to standard and optional equipment

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