

Teupen TL156AX

Pressures and Force:

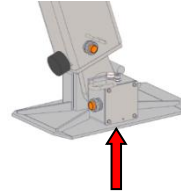
Stable ground

I. Force Impact

1. Machine Effect on Floor Surface Material - Outriggers

Maximum Force on Floor Material under single outrigger (fully loaded machine with max basket capacity)

81 kN



8209 lb force

Total area of a single outrigger foot (based on length and width 43,6 x 27 cm)

1177 cm²*

182.4 sq in

Max. ground pressure (force / area of foot)

68.8 N/cm²*

99.76 psi

Required synthetic underplate for outrigger (max psi reduced when using underplate)

109cm x 39cm (42.9x15.4in), 300584

19 N/cm²

27.5 psi



2. Machine Effect on Floor Surface Material – Tracks

Max. load under one track (machine weight / 2) (13500kg / 2)

66.2 kN

14882 lb force

Crawler area in contact with surface

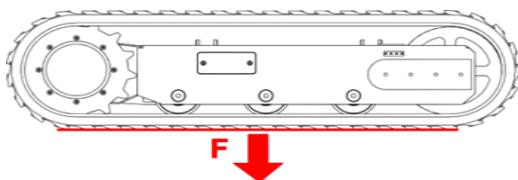
3026 cm²*

469 sq in

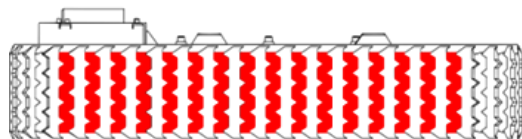
Max. ground pressure

22.5 N/cm²*

32.6 psi



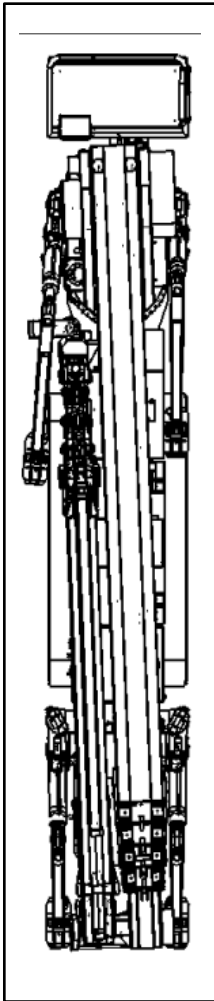
32.6 psi



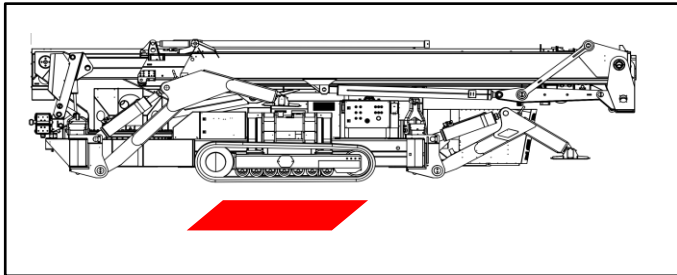
II. Live Load (Weight and Pressure) Impact on Structure (The Machine Live Load over projected area of machine.)

1. Area load in transport position (Unloaded basket)

Area in transport position (cordoned area 10m x 2,4m – 32ft 10in x 7ft 10in)	24 m ²	258.3 sq ft
Machine loading in transport position	132,4 kN	29764 lb force
Live Load with basket	5.5 kN/m ²	114 psf



with Basket
114 psf



Track dimension is 15,8" wide x 95" long
or 1501 square inches x 2 = 3002 sq in.
3002 sq in = 20.9 sq ft
25,808 lbs / 20.9 = 1,234.8 psf

This calculation is only for dead load on track surface and not the live load effect over the entire area the machine would operate on.

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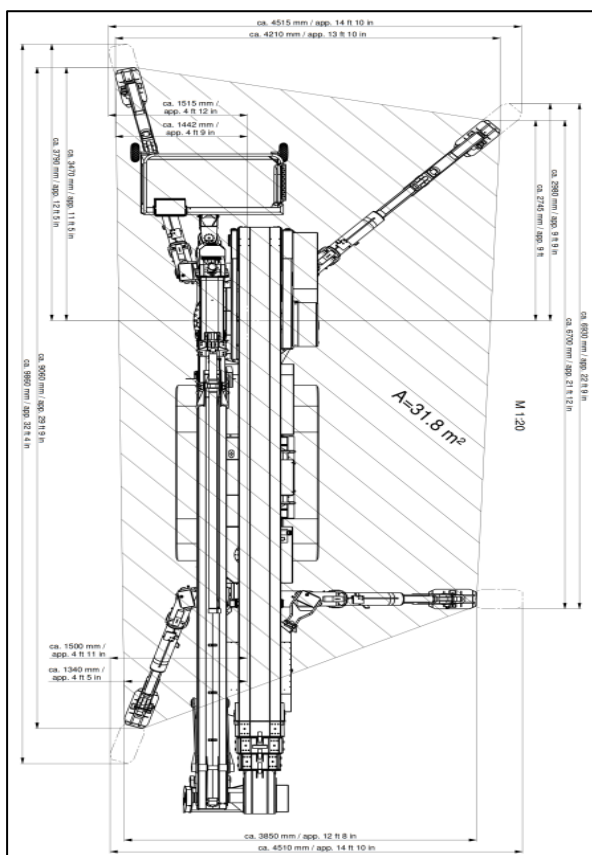
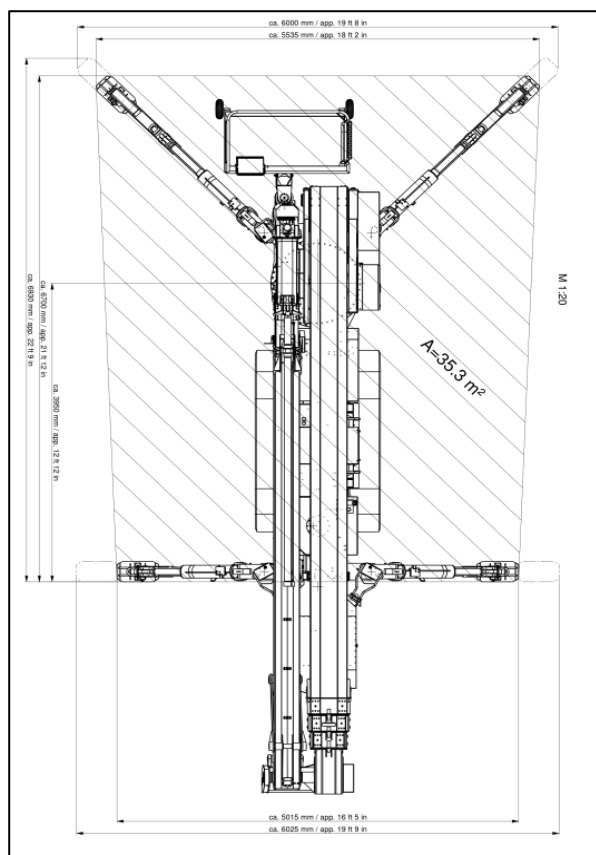
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2. Area pressure in working position

Area in working position (outrigger wide/wide)	35.3 m ²	380 sq ft
Area in working position (outrigger narrow/wide)	31.8 m ²	342.3 sq ft
Machine loading in working position (with full load in basket)	136.3 kN	26,685 lb force
Area pressure (Live Load) (outrigger wide/wide)	3.8 kN/m ²	79.3 psf
Area pressure (Live Load) (outrigger narrow/wide)	4.2 kN/m ²	87.7 psf



Machine loading in working position (with full load in basket)	136.3 kN	30641 lb force
Area pressure (outrigger wide / wide)	3.8 kN/m ²	79 psf
Area pressure (outrigger narrow / wide)	4.2 kN/m ²	88 psf