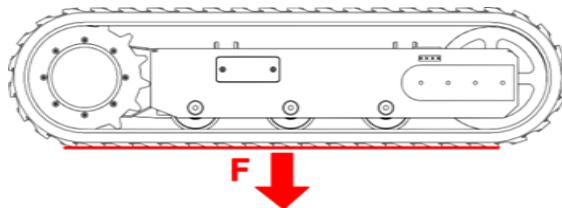
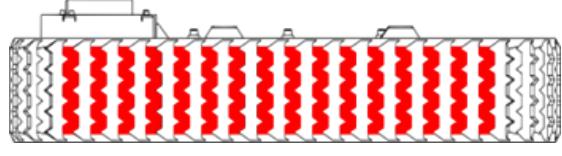


Teupen TL123AX

Pressures and Force: Stable ground

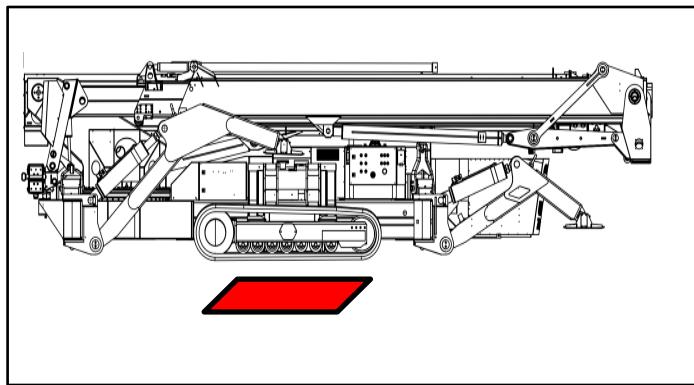
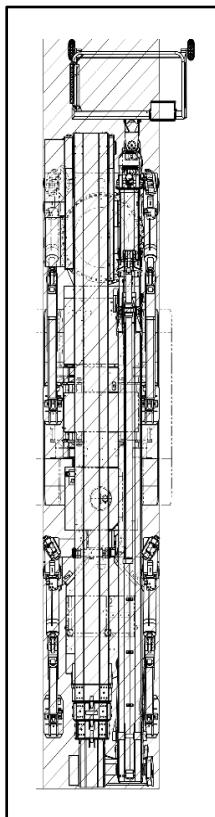
I. Force Impact		
1. Machine Effect on Floor Surface Material - Outriggers		
Maximum Force on Floor Material under single outrigger (fully loaded machine with max basket capacity)	75 kN	16860 lb force
Total area of a single outrigger foot (based on length and width 43,6 x 27 cm)	1177 cm ² *	182.4 sq in
Max. ground pressure (force / area of foot)	63.7 N/cm ² *	92.4 psi
Required synthetic underplate for outrigger (max psi reduced when using underplate)		
109cm x 39cm (42.9x15.4in), 300584	17.6 N/cm ²	25.5 psi
2. Machine Effect on Floor Surface Material – Tracks		
Max. load under one track (machine weight / 2) (11700kg / 2)	57.4 kN / 12,904 lb force	
Crawler area in contact with surface	2314 cm ² *	358.7 sq in
Max. ground pressure	24.8 N/cm ² *	28.5 psi
 28.5 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	114.8 kN	25,808 lb force
Live Load with basket	4.78 kN/m ²	100 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.

with Basket
100 psf

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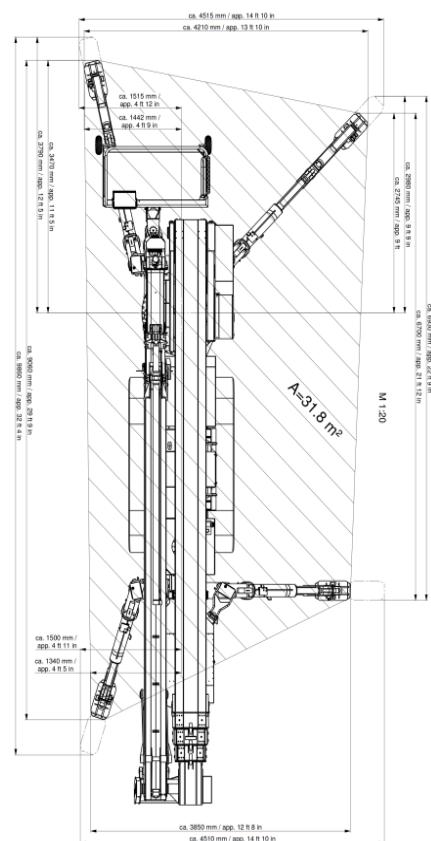
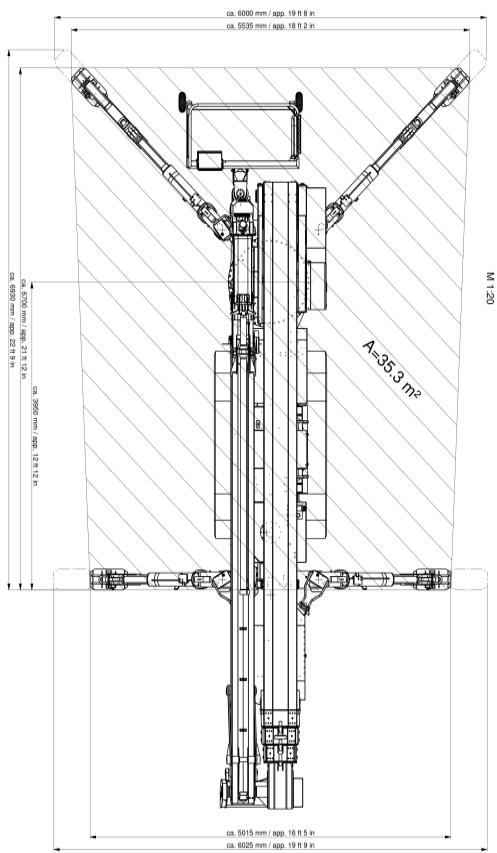
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2. Area pressure in working position

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)	118.7 kN	26,685 lb force
Area pressure (Live Load) (outrigger wide/wide)	3.36 kN/m ²	71 psf
Area pressure (Live Load) (outrigger narrow/wide)	3.73 kN/m ²	78.9 psf



Machine loading in working position (with full load in basket)	120,6 kN	27126 lb force
Area pressure (outrigger wide / wide)	3.4 kN/m ²	71 psf
Area pressure (outrigger narrow / wide)	3.7 kN/m ²	77 psf