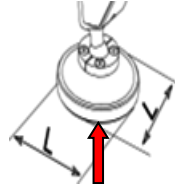

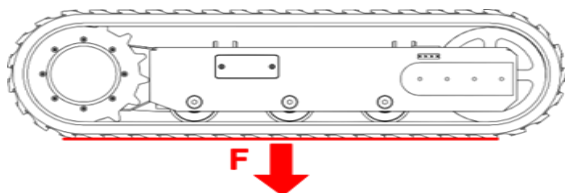
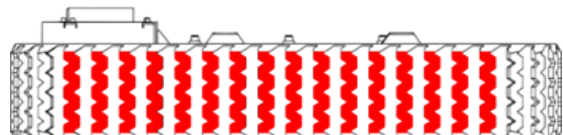


# Teupen TL63A

Pressures and Force:

Stable ground

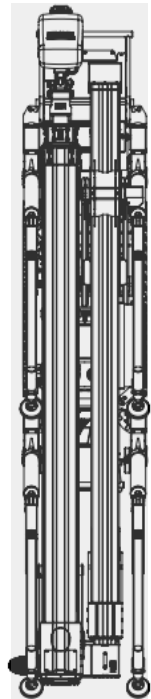
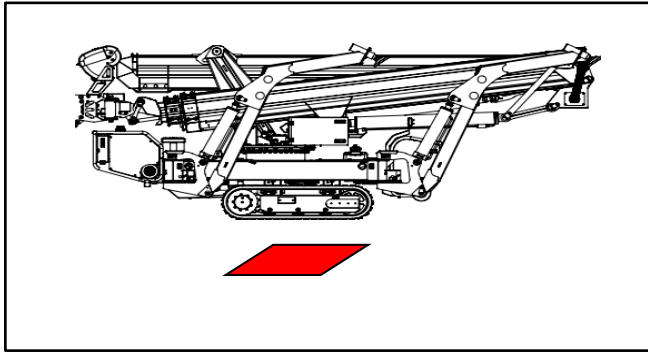
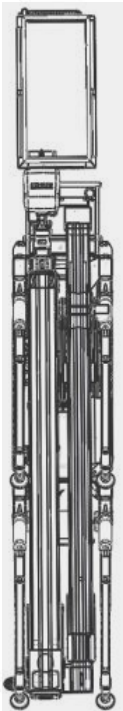
I. Force Impact		
1. Machine Effect on Floor Surface Material - Outriggers		
Maximum Force on Floor Material under single outrigger (fully loaded machine with max basket capacity)	23.7 kN	 5328 lb force
Total area of a single outrigger foot (based on foot diameter of 175mm)	240 cm <sup>2</sup> *	37.2 sq in
Max. ground pressure (force / area of foot)	98.7 N/cm <sup>2</sup> *	143.1 psi
Required synthetic underplate for outrigger (max psi reduced when using underplate)		
40cm x 35cm (15.8x13.8in), 2911 / 0349	16.9 N/cm <sup>2</sup>	24.5 psi
65cm x 22cm (25.6x8.6in), 2911 / 0456	16.5 N/cm <sup>2</sup>	23.9 psi
70cm x 22cm (27.5x8.6in), 200148	15.3 N/cm <sup>2</sup>	15.3 psi
		
2. Machine Effect on Floor Surface Material – Tracks		
Max. load under one track (machine weight / 2) (2980kg / 2)	14.6 kN / 3282 lb force	
Crawler area in contact with surface	600 cm <sup>2</sup> *	93 sq in
Max. ground pressure	24.3 N/cm <sup>2</sup> *	35.2 psi
  <div>35.2 psi</div>		

## 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 (projected area with basket)	6.4 m <sup>2</sup>	68.8 sq ft
Area in transport position (projected area without basket)	5.0 m <sup>2</sup>	53.8 sq ft
Machine loading in transport position	29.2 kN	6564 lb force
Live Load with basket	4.5 kN/m <sup>2</sup>	94 psf
Live Load without basket	5.8 kN/m <sup>2</sup>	121 psf



Track dimension is 8" wide x 57" long  
or 456 square inches x 2 = 912 sq in.  
912 sq in = 6.33 sq ft  
6585 lbs / 6.33 = 1040 psf

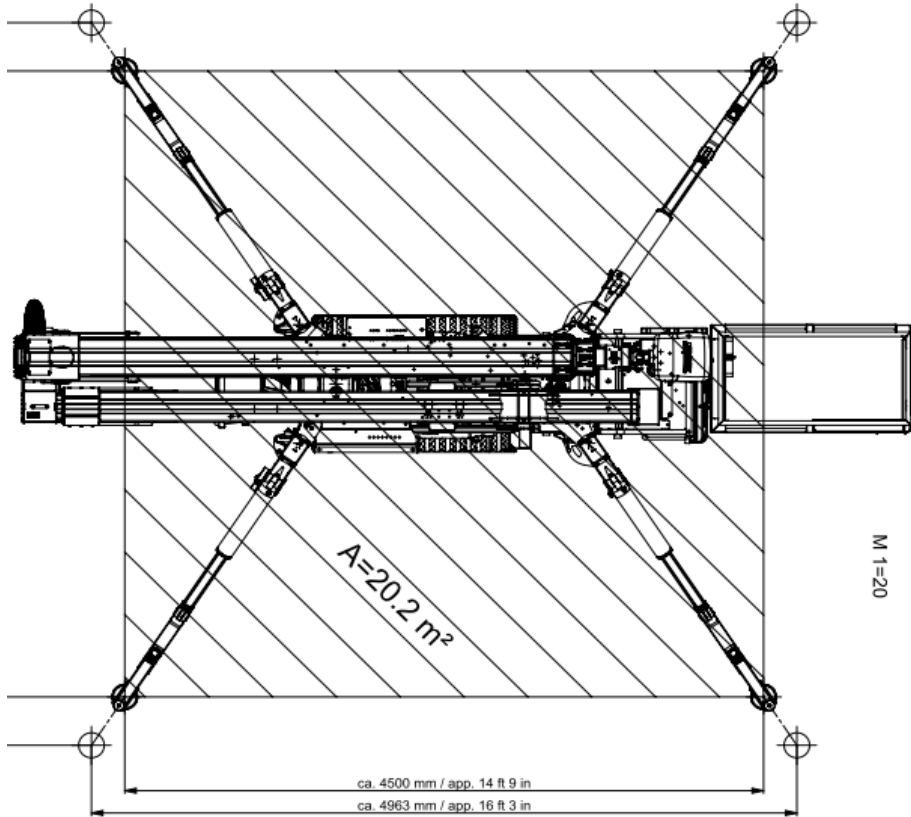
This calculation is only for dead load on track surface and not the live load effect over the entire area the machine would operate on.

with Basket  
94 psf

without Basket  
121 psf

## 2. Area pressure in working position

Area in working position	20.2 m <sup>2</sup>	217.3 sq ft
Machine loading in working position (with full load in basket)	31.7 kN	7136 lb force
Area pressure (Live Load)	1.56 kN/m <sup>2</sup>	32.8 psf



2980 kg + 250 kg = 3230 kg (machine weight + loaded basket)  
 $3230 \times 9.81 / 20.2 = 1568$  or 1.56 kN/m<sup>2</sup>  
 6585 lbs + 551 lbs = 7136 lbs     $7136 / 217.3 = 32.8$  psf



909 South Route 83  
Elmhurst IL 60126

630.530.8550

rentnow@usmrents.com