

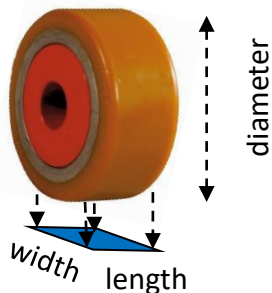
Skate:

T20/B20

WEIGHT DISTRIBUTION ON FLOOR

For tandem machine skate models T20 (JTL 20G) and B20 (JFB 20G)

Wheel Footprint



Wheel size

- ▶ length: 2.3" | 59mm
- ▶ diameter: 5.5" | 140mm

Wheel contact surface with floor

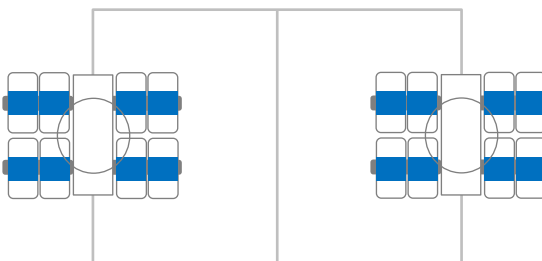
- ▶ width: 1.30" | 33mm
- ▶ length: 2.32" | 59mm

Footprint per wheel:

- ▶ **3.02 in²** | 19.47cm²

Skate Footprint

Skate Model
T20



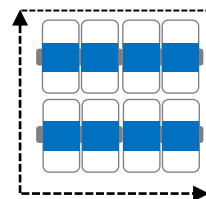
Skate Model
B20



Footprint per skate: ▶ **48.32 in²**

Footprint per ft²

Maximum footprint
within any 1 ft² area



**1 ft²
area**

Footprint
per ft²:

- ▶ **24.16 in²**

Variations in Footprint:

With increasing weight, the elastic JUWATHAN wheel material spreads out and increases the contact area with the floor. The enlarged footprint divides the weight over a larger area so that the pressure onto the floor is drastically reduced. The footprint above is measured at maximum load capacity. Ⓢ The size of the actual footprint and in turn the actual psi may vary based on actual load weight, temperature, load bearing duration, etc.. Therefore the data provided is an estimate to be used as a general guideline only.

Pressure per in² for concerns about indenting soft floor

$$\text{Pressure (psi)} = \frac{\text{Load weight (lbs) per skate}}{\text{Footprint (in²) per skate}}$$

Pressure per in² at maximum load capacity ▶ **828 psi**

Pressure per ft² for concerns about breaking through supported floor

$$\text{Pressure (psf)} = \frac{\text{Load weight (lbs) per skate} \times \text{Footprint (in²) per ft²}}{\text{Footprint (in²) per skate}}$$

Pressure per one ft² at maximum capacity ▶ **20,000 psf**



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