

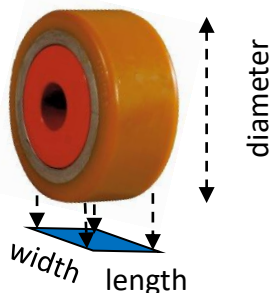
Skate:

**A20/B20**

## WEIGHT DISTRIBUTION ON FLOOR

For machine skate models A20 (JLB 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

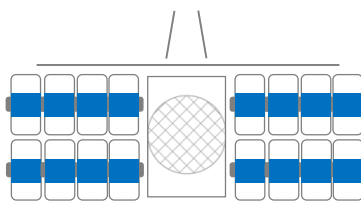
#### Footprint per wheel:

- ▶ **3.02 in<sup>2</sup>** | 19.47cm<sup>2</sup>

### Skate Footprint

Skate Model

**A20**



Footprint per skate: ▶ **48.32 in<sup>2</sup>**

Skate Model

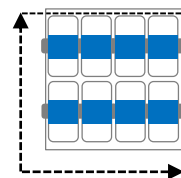
**B20**



Footprint per skate: ▶ **48.32 in<sup>2</sup>**

### Footprint per ft<sup>2</sup>

Maximum footprint within any 1 ft<sup>2</sup> area



**1 ft<sup>2</sup>**  
area

Footprint per ft<sup>2</sup> :

- ▶ **24.16 in<sup>2</sup>**

#### 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 in<sup>2</sup> for concerns about indenting soft floor

$$\text{Pressure (psi)} = \frac{\text{Load weight (lbs) per skate}}{\text{Footprint (in}^2\text{) per skate}}$$

Pressure per in<sup>2</sup> at maximum load capacity ▶ **828 psi**

### Pressure per ft<sup>2</sup> for concerns about breaking through supported floor

$$\text{Pressure (psf)} = \frac{\text{Load weight (lbs) per skate} \times \text{Footprint (in}^2\text{) per ft}^2}{\text{Footprint (in}^2\text{) per skate}}$$

Pressure per one ft<sup>2</sup> at maximum capacity ▶ **20,000 psf**



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