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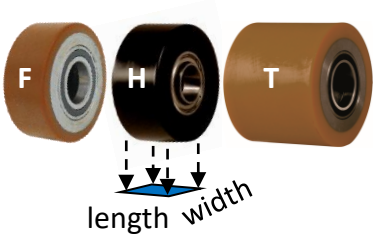
Skate:
EP25/B40

WEIGHT DISTRIBUTION ON FLOOR

For machine skate models EP25 (JLA-e 25/50H) and B40 (JFB 40H)

Wheel Footprint

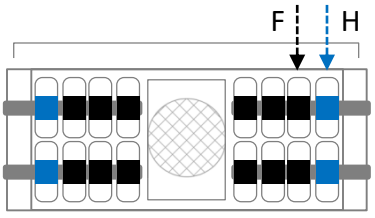


Wheel contact surface with floor
- **F** ▶ width: 1.97" | 50mm
- **F** ▶ length: 3.35" | 85mm
- **H** ▶ width: 0.45" | 11mm
- **H** ▶ length: 3.35" | 85mm
- **T** ▶ width: 1.58" | 40mm
- **T** ▶ length: 6.70" | 170mm

Footprint per wheel:
- **F** ▶ **6.60 in²** | 42.5cm²
- **H** ▶ **1.50 in²** | 9.35cm²
- **T** ▶ **10.59 in²** | 68cm²

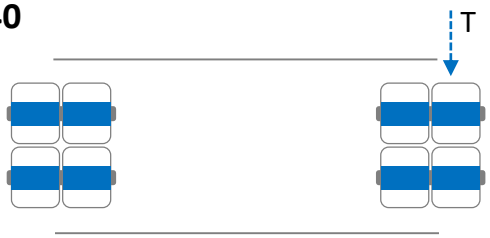
Skate Footprint

Skate Model
EP25



Footprint per skate: ▶ **44.4 in²**

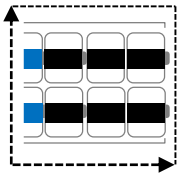
Skate Model
B40



Footprint per skate: ▶ **84.72 in²**

Footprint per ft²

Footprint within 1 ft² area with the highest pressure



1 ft² area

Footprint per ft² :
▶ **16.65 in²**

Variations in Footprint:
The yellow JUWAthan wheel is elastic and spreads out under weight. This gives the wheel a larger footprint for traction. The black JUWAmid wheel is harder to help carry the weight and provide improved turning characteristics. ⓘ 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

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

Max pressure per in² at maximum load capacity ▶ **1126 psi**

Pressure per ft² for concerns about breaking through supported floor

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

Pressure per one ft² at maximum capacity ▶ **18,750 psf**