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Power:

TISABAS gets its power from the belt loader with a quick plug-in connection. It is a gas/diesel belt loader we convert the 14-volt system to the 24 volts needed. If it is an electric belt loader, we use resistors to reduce to the required voltage.

Weight:

The unit weighs 82k (180 pounds). I designed it, so it is not lifted once it is on the belt loader. It simply slides into and out of position. A rack secures the unit in the area behind the driver's seat. The rack swivels and places the unit on the belt or takes it back off.

Floor bearing information:

The unit slides on HUMW (high-density plastic), and I designed it to be well below the floor bearing weight of 150 pounds per square foot (ft²) by itself and with items on it.

Folded up, the HUMW (plastic) that touches the floor is 16" x 19" or 2.1 (ft²) at 200 pounds that distributes to 95 pounds (ft²).

Folded out, the HUMW (plastic) that touches the floor is 19" x 6" or .79 (ft²) for each of the eight 25-pound sections distributing the weight to 32 pounds (ft²).

Length:

Four sections are 1.5 meters (5feet) in length, each with a total folded out length of 6 meters (20 feet). We can easily remove with tools the sections in 5-foot increments. We are working on a design where you can add or remove sections without tools.

Speed:

It has two speeds that can be adjusted to your operational needs. Currently, the slow speed moves one more bag a minute than the manual method, and our fast speed moves nine more bags than the manual.

NTO:

Both Boeing and Airbus have told us that an NTO (No Technical Objection) is not required for ground service equipment and have indicated that they have no concerns with TISABAS damaging to aircraft belly.