

100 Ton Airframe Jack Recovery System

Model 8294B



The Model 8294B 100 Ton Airframe Jack Recovery Set includes one multi-stage hydraulic jack and one air operated hydraulic power cart and is suitable for most commercial aircraft. A minimum of two sets must be ordered to obtain a complete system.

Model 8294B is built to withstand harsh environmental conditions, rugged use and to provide many years of continuous service. Our customers are guaranteed a quality product with each purchase and are assured of our continued product support whenever and wherever the need arises.

Standard Features:

- One multi-stage hydraulic jack
- One power cart assembly (included with jack)

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Malabar systems provide the following benefits:

Versatility: Since every recovery situation is different and unpredictable, versatility of recovery equipment is very desirable. Malabar provides versatility through compact design, low profile and “trackable” hydraulic jacks.

Simplicity: Even though trained personnel should always operate recovery equipment, training opportunities are limited, and the inevitable stress of recovery operations increases the likelihood of error. Recovery equipment, therefore, should be as simple and as “failsafe” as possible. Each Malabar jack is operated and controlled from a portable console which incorporates a fluid reservoir, air operated pump, hand pump, rapid advance valve, lowering valve and load gauge. A hydraulic fuse is incorporated in the jack to prevent accidental lowering in the event of a hose rupture.

Portability: Ease of transport is essential both for air or ground shipment as well as positioning at the recovery site. The size and weight of the Malabar system provides easy transportation, saves time and reduces the possibility of structural damage to the aircraft when positioning and lifting.

High output: Malabar recovery systems are factory proofed tested. The Malabar design makes it unnecessary to de-rate the equipment at lower heights. In fact, the capacities are even greater at lower heights. Providing equipment which incorporates conservative ratings is of even greater importance due to varying recovery conditions; adverse weather, unpredictable ground conditions and airframe stability.

Compatibility: Air frame manufacturers as well as aircraft operators recognize the need for airbags as well as recovery jacking systems. Most manufacturers and airlines have concluded that both jacking systems and airbags complement each other and both types of equipment should be readily available.

Malabar jacks are telescopic, offering high lifts with minimum low heights. The swivel base permits the jack to follow or “track” the aircraft jack point arc without inducing side loads at the aircraft structure. Jacks accommodate up to 100 US Tons at 8.3° at an extended height of 140 inches.

At no load, built-in leaf springs retain the jack cylinder in the normal or vertical position. The swivel bearing at the jack base permits continuous lifting or lowering operations in most cases without the need to reposition the jack while in mid-position, therefore minimizing risk and loss of time.

Malabar engineers have worked closely with major airframe manufacturers and airlines in the development of this recovery system. Several Malabar systems have been purchased by major airlines and have been field proven in many recovery operations.

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Specifications:

Jack Assembly Model 8294B

Capacity	100 tons (90.8 m. tons)
Low Height	37 inches (940 mm)
Hydraulic Lift	91 inches (2311 mm)
Screw Extension	12 inches (305 mm)
Maximum Extended Height	140 inches (3556 mm)
Base Diameter	44 inches (1118 mm)
Maximum Ground Load	144 psi (10.1 kg/sq cm)
Net Weight	2700 lbs (1136 kgs)

Power Cart Assembly (included with Jack)

Air Supply Pressure Required	90 - 120 psig
Air Consumption	56 scfm
Hydraulic Operating Pressure	up to 5200 psig
Unit Size	44" L x 24" W x 50" H
Unit Weight (wet)	700 lbs

Model 8294B Typical Aircraft Applications:

Suitable for most commercial aircraft.

Packaging Codes & Options

(Specify with order)

- : Domestic Skid
- EC: Export Crate (Additional Cost)

Shipping Data:

NOTE: Unless otherwise specified, Model 8294B is shipped on a wood skid.

Packaging Code	Length inches (mm)	Width inches (mm)	Height inches (mm)	Weight lbs (kg)
—	52 (1321)	52 (1321)	54 (1372)	3400 (1542)
EC	54 (1372)	57 (1448)	56 (1422)	3700 (1679)