

# MALABAR

## INTERNATIONAL Aircraft Recovery Systems

**80 to 100 Ton Systems for Emergency Aircraft Recovery Operations.**



**Malabar Recovery Systems are suitable for most commercial aircraft. Each system includes multi-stage hydraulic jacks and air operated hydraulic power carts.**

### **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 pumps, 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 compliment 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 10° from vertical for models capable of 118 inches of extended height or 8.3° for models able to reach 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 these recovery systems. Several Malabar systems have been purchased by major airlines and has been field proven in many recovery operations.

## Specifications:

### Jack Assembly:

#### **Model 8207:**

Capacity: 80 US Tons (72.8 MT)  
 Low Height: 30 inches (762 mm)  
 Hydraulic Lift: 76 inches (1930 mm)  
 Screw Extension: 12 inches (305 mm)  
 Max. Extended Ht.: 118 inches (2997 mm)  
 Base Diameter: 44 inches (1118 mm)  
 Max. Ground Load: 105 psi (7.3 kg/cm<sup>2</sup>)  
 Net Weight: 2350 lbs. (1068 kgs)

#### **Model 8272:**

Capacity: 80 US Tons (72.8 MT)  
 Low Height: 37 inches (940 mm)  
 Hydraulic Lift: 91 inches (2311 mm)  
 Screw Extension: 12 inches (305 mm)  
 Max. Extended Ht.: 140 inches (3556 mm)  
 Base Diameter: 44 inches (1118 mm)  
 Max. Ground Load: 105 psi (7.3 kg/cm<sup>2</sup>)  
 Net Weight: 2500 lbs. (1136 kgs)

#### **Model 8294:**

Capacity: 100 US Tons (90.8 MT)  
 Low Height: 37 inches (940 mm)  
 Hydraulic Lift: 91 inches (2311 mm)  
 Screw Extension: 12 inches (305 mm)  
 Max. Extended Ht.: 140 inches (3556 mm)  
 Base Diameter: 44 inches (1118 mm)  
 Max. Ground Load: 144 psi (10.1 kg/cm<sup>2</sup>)  
 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.

### Recovery System: Two Jack Assemblies & Two Power Carts



**Power Cart**

**Jack Assembly**

### Shipping Data (Jack & Power Cart-Dry):

Standard Skid: 52"L x 52"W x 54"H, 3400 lbs  
 Export Crate: 54"L x 57"W x 56"H, 3700 lbs

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Malabar Recovery Systems are 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.

### **MALABAR International**

220 W. Los Angeles Ave, PO Box 367, Simi Valley, CA 93062

Tel: 805 581 1200 Fax: 805 584 1624 Web: [www.malabar.com](http://www.malabar.com)