

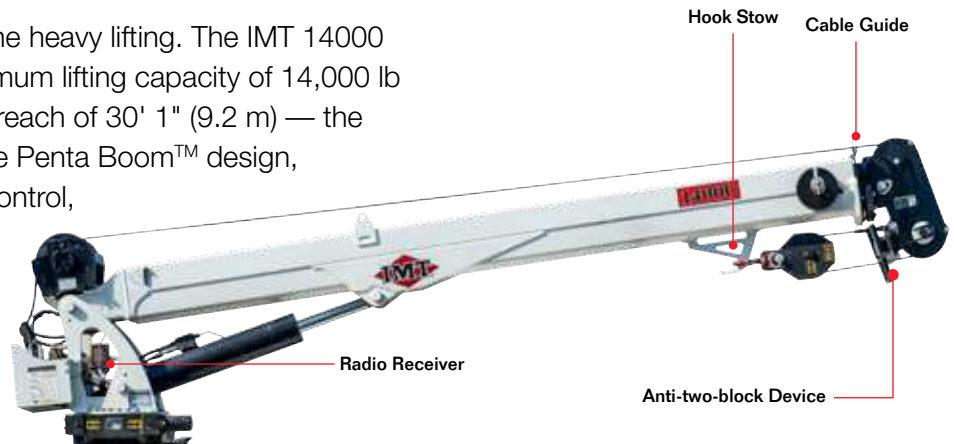
14000

Series Telescopic Crane



► 14000 Series Telescopic Crane

Let our telescopic cranes take on the heavy lifting. The IMT 14000 Series telescopic crane has a maximum lifting capacity of 14,000 lb (6350.3 kg) and a horizontal boom reach of 30' 1" (9.2 m) — the longest in the industry. Featuring the Penta Boom™ design, this crane is built for strength and control, and when combined with an IMT Dominator® mechanics truck, creates the ultimate service and maintenance truck.



Standard Features

- 30' 1" (9.2 m) of boom reach
- Fully proportional "pistol grip" radio remote control
- Flip sheave boom tip
- Boom angle -10° to +80° (-0.2 to 1.4 rad)
- Increased capacity
- Patented hook stow
- Patented anti-two-block device
- Radio remote control receiver

Options

- 25' (7.6 m)
- Boom tip lights

Body Sizes

- Dominator IV



Radio Remote Control

Our pistol grip handle is ergonomic while increasing comfort and decreasing hand fatigue and is available with joystick or toggle switch controls.



Radio Remote Control Receiver

To simplify troubleshooting and increase productivity, our radio remote control receiver provides an LED readout detailing error codes. It also uses programmable logic for precise control of individual functions.



Flip Sheave

Our unique flip sheave allows operators to work in tighter areas by reducing the boom tip profile height by 8" (20.3 cm).

Minimum Chassis Specifications

Chassis Style	Conventional Cab
Front Axle Rating (GAWR)	12,000 lb (5443.1 kg)
Rear Axle Rating (GAWR)	21,000 lb (9525 kg)
Wheelbase	189" (480 cm)
Cab-to-Axle	120" (305 cm)
Resistance to Bending Moment Minimum	1,700,000 in-lb (19,586 kg-m)
Frame Section Modulus	14.2 cu in (232.7 cm ³)
Gross Vehicle Weight Rating	33,000 lb (14,968 kg)

In addition to these specifications, heavy-duty electrical and cooling systems are required. It is recommended that the vehicle be equipped with an engine tachometer, auxiliary brake lock, and power steering.



Penta Boom Design

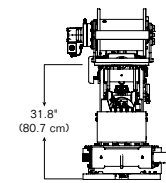
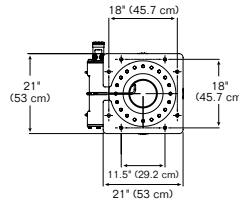
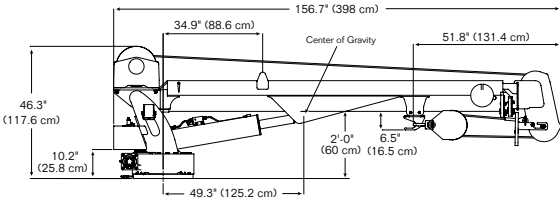
Different material thickness to address structural requirements, while controlling the weight of the crane.

14000 Series Specifications

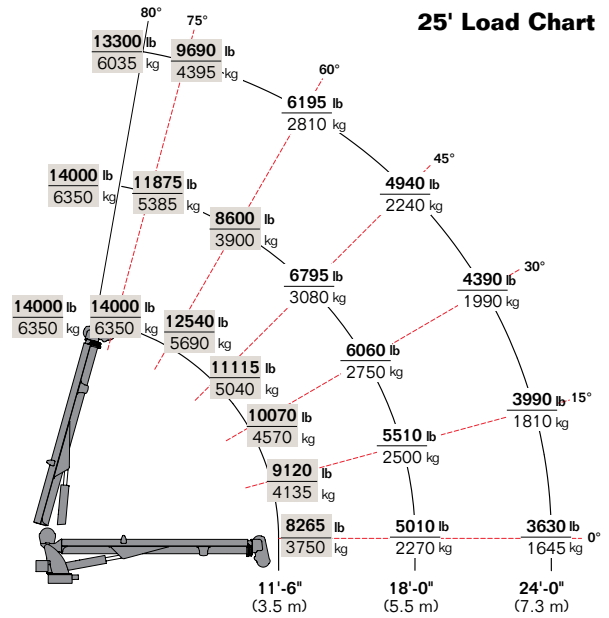
25' Boom

Crane Rating*	95,000 ft-lb (13.3 tm)
Max. Capacity	14,000 lb (6350.3 kg)
Max. Horizontal Reach (with flip sheave up)	24' 10" (7.6 m)
Max. Horizontal Reach (with flip sheave down)	24' (7.3 m)
Max. Capacity @ Max. Reach	3630 lb (1645 kg)
Fully Retracted	11' 5" (3.5 m)
Hydraulic Extensions	75" x 2 (190.5 cm x 2)
Lifting Height (with flip sheave down)	26' 3" (8 m)
Crane Weight	3100 lb (1406.1 kg)
Crane Storage Height	46.3" (117.6 cm)
Center of Gravity	
Horizontal from CL of rotation	46.2" (117.3 cm)
Vertical from bottom of crane base	21.4" (54.3 cm)
Required Mounting Space for Crane Base	24" x 25" (61 x 63.5 cm)
Optimum Pump Capacity	10 – 12 gpm (37.9 – 45.4 L/min)
Tie-Down Bolt Pattern	11.5" x 18" (29.2 x 45.7 cm)
Rotational Torque	11,000 ft-lb (1.5 tm)
Main Boom Elevation Speed	12 sec
Extension Boom Extend Speed	33 sec

*Crane rating (ft-lb) is the rated load (lb) x the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.



25' Load Chart



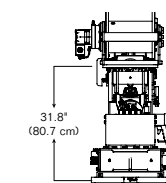
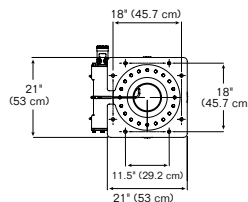
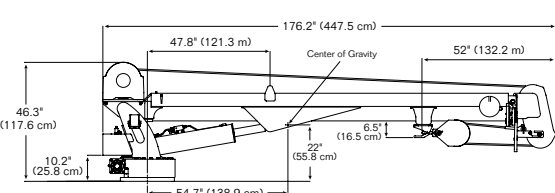
- Maximum one-part line weight is 7000 lb (3175 kg)
- The weight of load-handling devices is part of the load lifted and must be deducted from the rated capacity

14000 Series Specifications

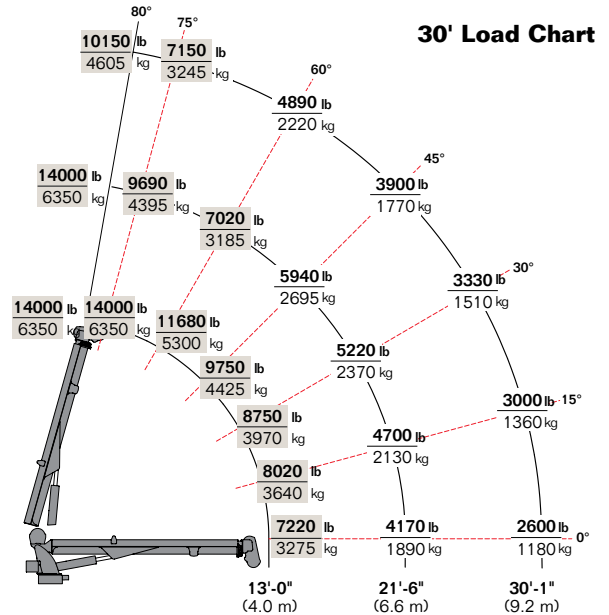
30' Boom

Crane Rating*	94,000 ft-lb (13.1 tm)
Max. Capacity	14,000 lb (6350.3 kg)
Max. Horizontal Reach (with flip sheave up)	30' 11" (9.4 m)
Max. Horizontal Reach (with flip sheave down)	30' 1" (9.2 m)
Max. Capacity @ Max. Reach	2600 lb (1179.3 kg)
Fully Retracted	13' 2" (4 m)
Hydraulic Extensions	102" x 2 (259 cm x 2)
Lifting Height (with flip sheave down)	32' 3" (9.8 m)
Crane Weight	3280 lb (1487.8 kg)
Crane Storage Height	46.3" (117.6 cm)
Center of Gravity	
Horizontal from CL of rotation	56.3" (143 cm)
Vertical from bottom of crane base	22.8" (58 cm)
Required Mounting Space for Crane Base	20" x 21" (50.8 x 53.3 cm)
Optimum Pump Capacity	10 – 12 gpm (37.9 – 45.4 L/min)
Tie-Down Bolt Pattern	11.5" x 18" (29.2 x 45.7 cm)
Rotational Torque	11,000 ft-lb (1.5 tm)
Main Boom Elevation Speed	12 sec
Extension Boom Extend Speed	33 sec

*Crane rating (ft-lb) is the rated load (lb) x the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.



30' Load Chart



- Maximum one-part line weight is 7000 lb (3175 kg)
- The weight of load-handling devices is part of the load lifted and must be deducted from the rated capacity

Power Source

- Power provided by integral-mounted hydraulic pump and PTO
- Min. requirement is 24 hp (17.9 kW) based on 12 gpm at 2900 psi (45.4 L/min at 200 bar)
- Other standard power sources can be utilized

Cylinder Holding Valves

- All cylinders equipped with integral-mounted counterbalance valves
- Prevent sudden cylinder collapse in case of component failure

Rotation System

- Consists of a worm gear and turntable gear bearing
- Powered by a high-torque hydraulic motor
- Standard rotation is 400° (6.98 rad)
- Speed rotation is 30 seconds

Excessive Load Limit System (ELLS)

- Pressure transducer used to sense overload
- When overloaded, the following functions are stopped: boom down, extension out, and winch up

Planetary Winch

- Capacity of 7700 lb (3493 kg) powered by high-torque hydraulic motor
- Single line operating speed of 60 fpm (18.2 m/min) under no-load conditions
- Maximum two-part line capacity of 14,000 lb (6350.3 kg)
- Equipped with 100' (30.5 m) of 1/2" (1.27 cm) of 6 x 36 FW PRF RRL IWRC XIPS wire rope
- Anti-two-block prevents the snatch block assembly from coming in contact with boom tip
- Speed of winch is 60 fpm (0.3 m/sec)
- Meets ANSI B30.5 standards

Hydraulic System

- Open-centered, full pressure system
- System requires 12 gpm (45.4 L/min) optimum oil flow at 2900 psi (200 bar)
- Fully proportional control valve with "pistol grip" radio remote control system
- Includes radio elimination cable, hydraulic oil reservoir, and suction and return line filters



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