6000

Series Telescopic Crane

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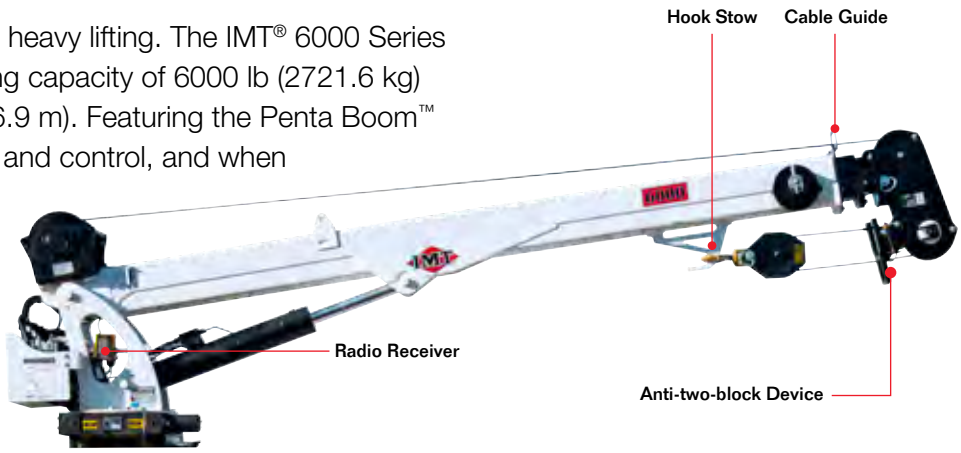
Let our telescopic cranes take on the heavy lifting. The IMT® 6000 Series telescopic crane has a maximum lifting capacity of 6000 lb (2721.6 kg) and a horizontal boom reach of 22' (6.9 m). Featuring the Penta Boom™ design, this crane is built for strength and control, and when combined with an IMT Dominator® mechanics truck, it creates the ultimate service and maintenance truck.



Standard Features

- 22' (6.9 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

- Boom tip lights

Body Sizes

- Dominator I
- Dominator II

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

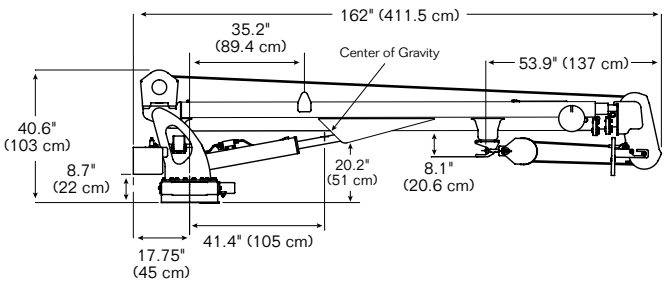
Chassis Style	Conventional Cab
Front Axle Rating (GAWR)	5000 lb (2268 kg)
Rear Axle Rating (GAWR)	9500 lb (4309.1 kg)
Wheelbase	154" (391 cm)
Cab-to-Axle	60" – 120" (152 – 305 cm)
Resistance to Bending Moment Minimum	600,000 in-lb (69,127 kg-m)
Frame Section Modulus	14.2 cu in (232.7 cm^3)
Gross Vehicle Weight Rating	15,000 – 26,000 lb (6805 – 11,793 kg)

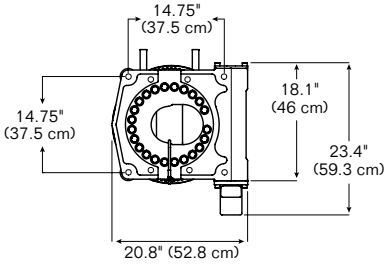
In addition to these specifications, heavy-duty electrical and cooling systems are required. It is recommended that the vehicle be equipped with an engine tachometer, auxiliary brake lock, and power steering.

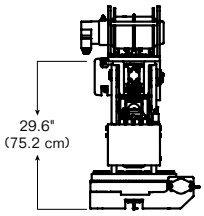
Penta Boom Design
Different material thickness to address structural requirements, while controlling the weight of the crane.

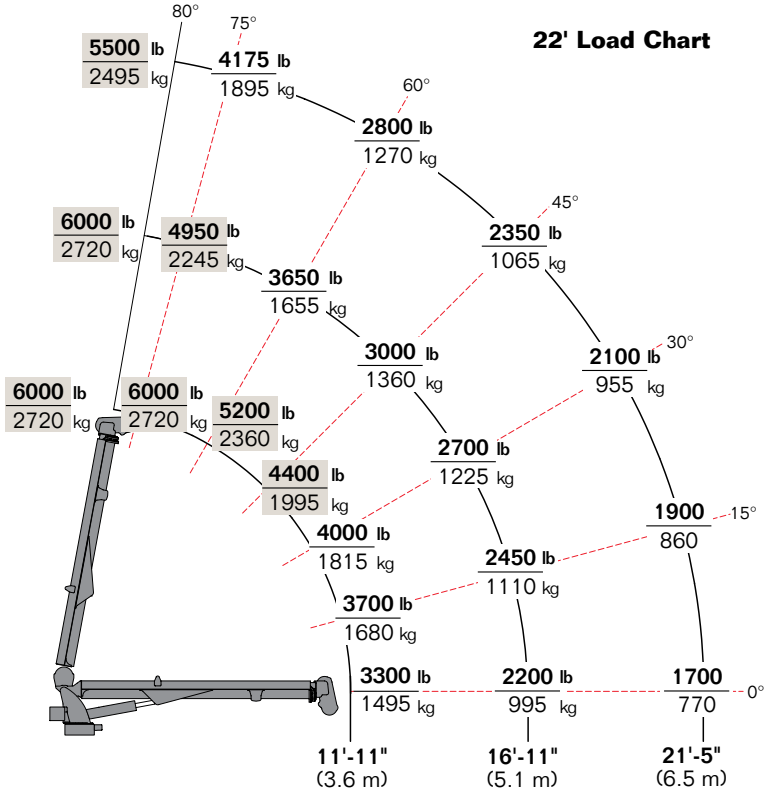
6000 Series Specifications	22' Boom
Crane Rating*	39,000 ft-lb (6.7 tm)
Max. Capacity	6000 lb (2721.6 kg)
Max. Horizontal Reach (with flip sheave up)	22' 6" (6.9 m)
Max. Horizontal Reach (with flip sheave down)	21' 8" (6.6 m)
Max. Capacity @ Max. Reach	1700 lb (771.1 kg)
Fully Retracted	11' 11" (3.6 m)
Hydraulic Extensions	59.7" (151.6 cm) 57.2" (145.3 cm)
Lifting Height (with flip sheave down)	23' 10" (6.5 m)
Crane Weight	1785 lb (809.7 kg)
Crane Storage Height	40.6" (103.1 cm)
Center of Gravity Horizontal from CL of rotation Vertical from bottom of crane base	 42" (106.7 cm) 19.6" (49.8 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	14.75" x 14.75" (37.5 x 37.5 cm)
Rotational Torque	9000 ft-lb (1.3 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.









- Maximum one-part line weight is 4300 lb (1950 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 23.5 hp (17.5 kW) based on 10 gpm at 3000 psi (37.9 L/min at 206.8 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 4400 lb (1996 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 6000 lb (2721.6 kg)
- Equipped with 85' (25.9 m) of 3/8" (9.5 mm) of 6 x 25 FW PRF LRL 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 10 gpm (37.9 L/min) optimum oil flow at 3000 psi (206.8 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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