

Telescopic Crane 8025

Technical Specifications

Material Handling Systems



Specifications	1 Hydraulic
Crane Rating*	80,000 ft-lb
Max. Horizontal Reach (from centerline of rotation)	25' 4"
Hydraulic Extensions (2)	108"
Lifting Height (from base of crane)	27' 6"
Crane Weight	3420 lb
Outrigger Span (required option)	15' 8"
Crane Storage Height	50"
Mounting Space Required (crane base)	24" x 33"
Optimum Pump Capacity	12 gpm
System Operating Pressure	2900 psi
Center of Gravity Horizontal from centerline of rotation Vertical from bottom of crane base	50" 28"
Tie-down Bolt Pattern (8 bolts) on center	20" x 29"
Rotational Torque	9000 ft-lb

*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.



An Oshkosh Truck Corporation Company

8025 Telescopic Crane

Performance Characteristics

Rotation	450° (7.85 rad)	36 seconds
Lower Boom	-10° to +80°	
Elevation	(-0.17 rad to +1.4 rad)	16 seconds
Extension	108 in (274.3 cm)	19 seconds
Cylinder Total		

Power Source

Hydraulic power is provided by an integral-mounted hydraulic pump and PTO. Other standard power sources may be utilized. Minimum power required is 24 hp based on 12 gpm at 2900 psi (45.4 L/min at 200 bar).

Cylinder Holding Valves

The holding sides of all cylinders are equipped with integral-mounted counterbalance valves or load-holding check valves to prevent sudden cylinder collapse in case of hose or other hydraulic component failure.

Rotation System

Rotation of the crane is accomplished through a turntable gear bearing powered by a high-torque hydraulic motor through ring-and-pinion type spur gear train. Standard rotation is 450°.

Hydraulic System

The hydraulic system is an open-centered, full-pressure system with pump requiring 12 gpm (45.4 L/min) optimum oil flow at 2900 psi (200 bar). It consists of a four-section, electric-remote, stack-type control valve with 40' tethered pendant control system or RF remote-control system. The system includes a hydraulic oil reservoir, suction line filter, return line filter, and control valve.

Excessive Load Limit System (ELLS)

The ELLS limits overloading of the crane. Dual pressure switches mounted on the lift cylinder sense various overload conditions. When in an overload situation, the winch up, extension out, and boom down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the winch.

Winch

The 7000-lb capacity planetary winch is powered by a high-torque hydraulic motor. The winch is operated at a line speed of 60 fpm (18.2 m/min) under no-load conditions. The lifting capacity of the winch is 7000 lb (3175 kg) one-part line. Maximum two-part line winch capacity is 14,000 lb (6350 kg). The winch is equipped with 100' (30.5 m) of 1/2" (1.27 cm) of 6 x 36 FW PRF RRL IWRC XIPS wire rope. A compact, anti-two-block device is included to prevent the lower block or hook assembly from coming in contact with the boom sheave assembly. The winch meets ANSI B30.5 standards.

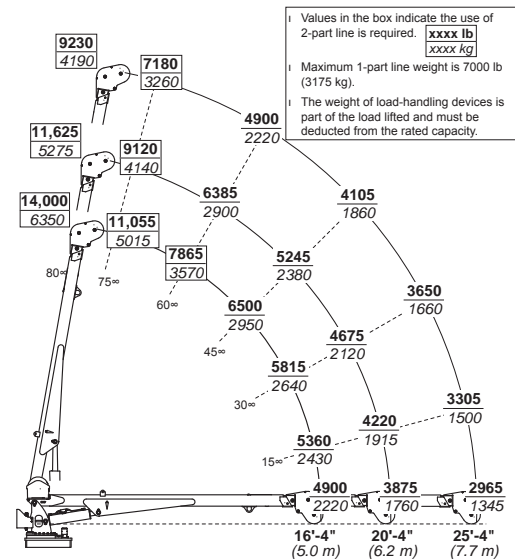
Minimum Chassis Specifications

Chassis Style	Conventional cab
Front Axle Rating (GAWR)	12,000 lb (5443 kg)
Rear Axle Rating (GAWR)	21,000 lb (9525 kg)
Wheelbase	189 in (480 cm)
Cab-to-Axle	120 in (305 cm)
Resistance to Bending Moment	900,000 in-lb (10,373 kg-m)
Frame Section Modulus	19.2 cu in (314.7 cc)
Frame Yield Strength	50,000 psi (3447.5 bar)
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.

Notes

1. GAWR means gross axle weight rating and is dependent on all vehicle components such as axles, tires, wheels, springs, brakes, steering, and frame strength meeting the manufacturer's recommendations. Always specify GAWR when purchasing a truck.
2. Minimum axle requirements may increase with use of diesel engines, longer wheelbase, or service bodies. Contact the factory for further information.
3. Weight distribution calculations are required to determine final axle loading.
4. All chassis, crane, and body combinations must be stability-tested to ensure stability per ANSI B30.5.



An Oshkosh Truck Corporation Company

Iowa Mold Tooling Co., Inc.

500 Highway 18 West • P.O. Box 189 • Garner, Iowa 50438-0189
641-923-3711 • Fax: 641-923-6063 • www.imt.com

800-247-5958

IMT reserves the right to make changes in engineering, design, and specifications; add improvements; or discontinue manufacturing at any time without notice or obligation.

IMT and the IMT LOGO are registered trademarks or trademarks of Iowa Mold Tooling Co., Inc., Garner, IA, USA.

© 2007 Iowa Mold Tooling Co. All Rights Reserved.