

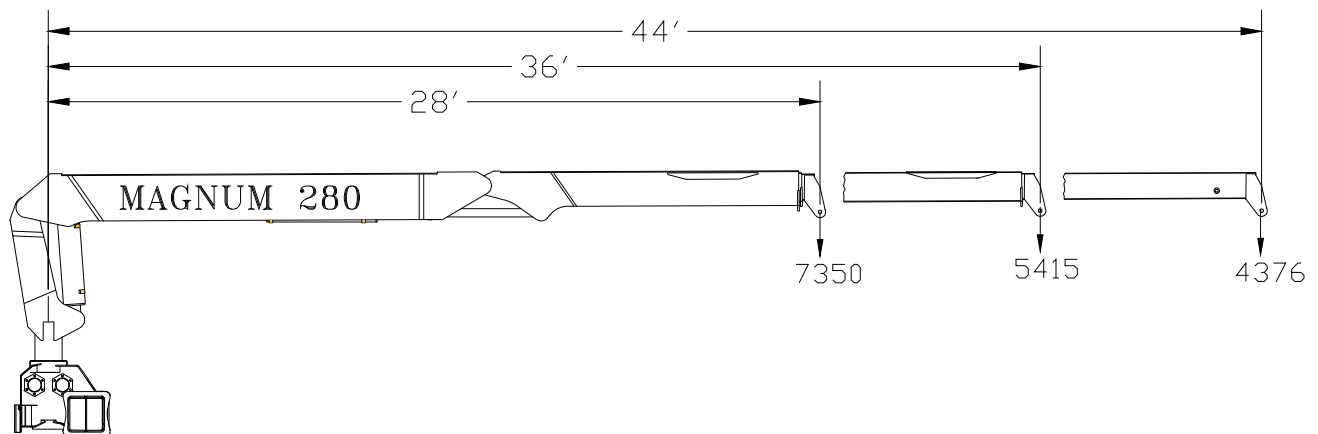
# **MAGNUM 280-44 TECHNICAL SPECIFICATION**

**Crane Rating:** 205800 ft-lbs. ( 28.5 Meter-Ton)

## **MAGNUM 280-44 Basic Data**

Nominal Crane Rating	205800 ft-lbs	28.5 Meter-Ton
Reach and Lifting Capacity	7350 lbs @ 28'	3341 kg @ 8.53m
	5414 lbs @ 36'	2461 kg @ 10.97m
	4376 lbs @ 44'	1989 kg @ 13.41m
Max. Horizontal Reach	44'	13.41m
Vertical Reach with 46" mounting height	56' 3"	17.2 m
Weights: Crane	7445 lbs	3384 kg
Stabilizers, 18'	1305 lbs	593 kg
Stabilizers, 20'	1525 lbs	693 kg
Stabilizers, 24'	1825 Lbs	830 kg
Top Seat	140 Lbs	64 kg
Oil Tank, Full	450 Lbs	205 kg
Slewing Angle	390 degrees	390 degrees
Rotation Torque	35000 ft-lbs	47.45 kNm
Hydraulic pump capacity	2 x 18 GPM	2 x 70 l/min
Hydraulic system pressure	3900 PSI	270 Bar
Stabilizer Spread	20' Hydraulic Standard	6.10 m Hydraulic Standard
	24' Hydraulic Optional	7.32 m Hydraulic Optional
Stabilizer leg extend	30" Hydraulic	0.76 m Hydraulic

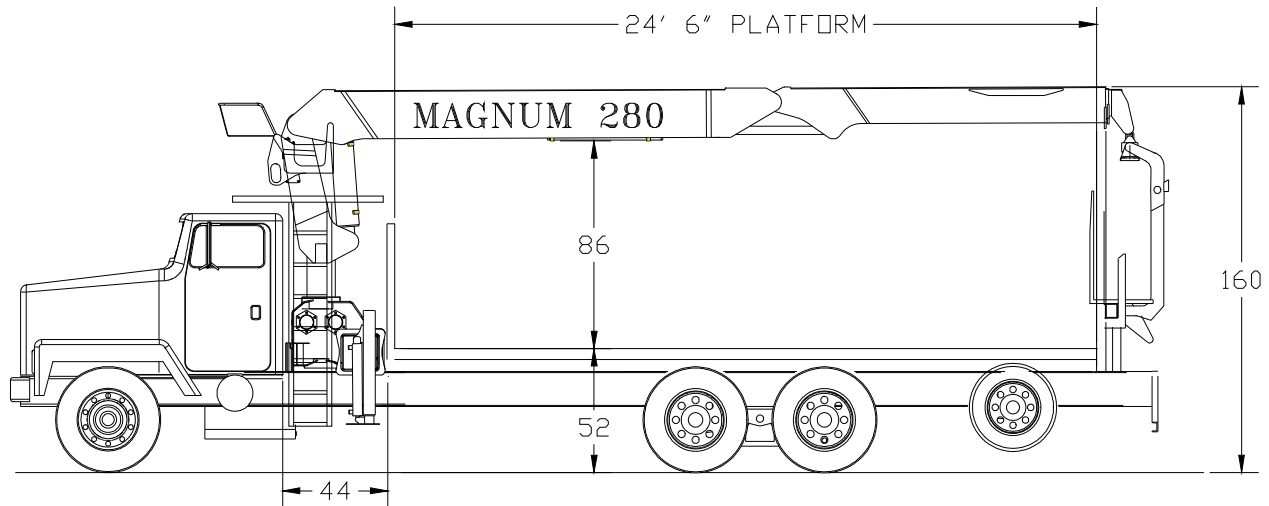
## **MAGNUM 280-44 Lifting Capacities**



# **MAGNUM 280-44 TECHNICAL SPECIFICATION**

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## **Magnum 280-44 Installation Layouts**



## **Features**

The Magnum Series of articulated cranes have been carefully designed to incorporate the latest crane innovations and technical advances both in materials and design. Blending both North American and European design and experience, have resulted in a high performance, simple rugged design. European DIN 15018, EN 130001 and ANSI B30.22 standards were referenced for all design parameters. 3D Solid Modeling CAD and FEA software was used for design and stress analysis.

## **Structural**

Fine grained high tensile steels are used throughout the crane. The boom assemblies are large welded box sections providing the optimum stiffness to weight ratio. This ensures lower boom deflection for better load control.

## **Rotation System**

Double Rack and pinion rotation system is used, incorporating a machined steel rack and bolted rotation cylinders for ease of maintenance.

## **Stabilizer System**

Post type square stabilizer legs are utilized. Cylinders are not subjected to side loads imposed by the crane which prolongs cylinder life.

## **Hydraulic System**

The hydraulic system is medium pressure open center type. System pressure is limited to 3900 psi (270 bar) for extended component life. All cylinders are dual acting with hard chromed rods. Load bearing cylinders are equipped with Counter balance valves. Stabilizer leg cylinders are equipped with load holding check valves, and manual shut off valves. SAE hoses and JIC fitting are used throughout.

## **Controls**

Riders seat with joystick controls are standard .  
Optional controls:  
Radio Remote

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## **Magnum Cranes**

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Magnum Ind. reserves the right to change specifications and design without notice