

high performance service crane technologies

Due to ongoing improvement specifications and dimensions subject to change without notice.

cobra 12000 3H



HI-TECH

Advanced safety devices

Amazing crane rating/weight ratio

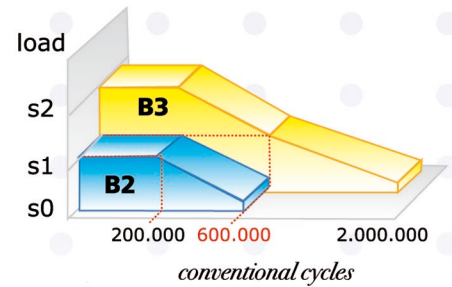
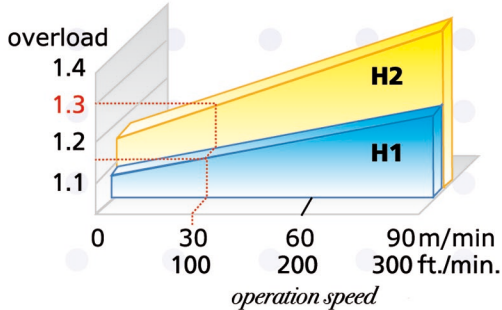
Continuous improvements in design

Crane structure designed according to :

DIN 15018 Standards, lifting class H2-B3.

This rating ensures a working life of 12-15 years in normal usage.

Crane complies ANSI B30.5 - (1989 and Rev. 1992) and OSHA. Title 29, part 1910.180 dtd 07-01-1991.



A rating concerning the resistance to overloads while operating is assigned to the metal structures by the letters from **H1** to **H4**. Many manufacturers have a rating **H1**, while our cranes comply with a rating **H2**, which is much better because:

if you stay within the curve **H1** with an operating speed of 30 m/min, for instance, you will have an overload capacity of **1,15 (15%)**

if you stay within the curve **H2** considering the same speed, you will have an overload capacity of **1,3 (30%)**, i.e. **DOUBLE** than the above one.

A rating is assigned to the metal structures which must last for a long time (such as bridges, cranes, etc.) depending on the requirements they can meet.

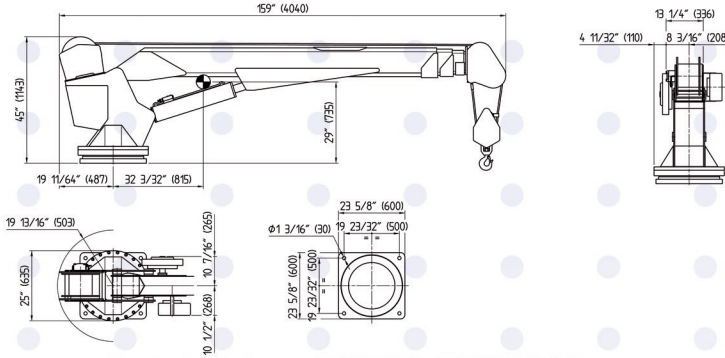
As far as cranes are concerned, the **DIN 15018** norm assigns a range from **B1** to **B7**.

The truck cranes must comply with a min. rating **B2**, while our cranes comply with a rating **B3**, which is much better because:

if you stay within the curve **B2**, for instance with a definite load **S1**, you will have a structural life of **200.000** conventional cycles, corresponding to about **50** loading/unloading operations per day for 10 years

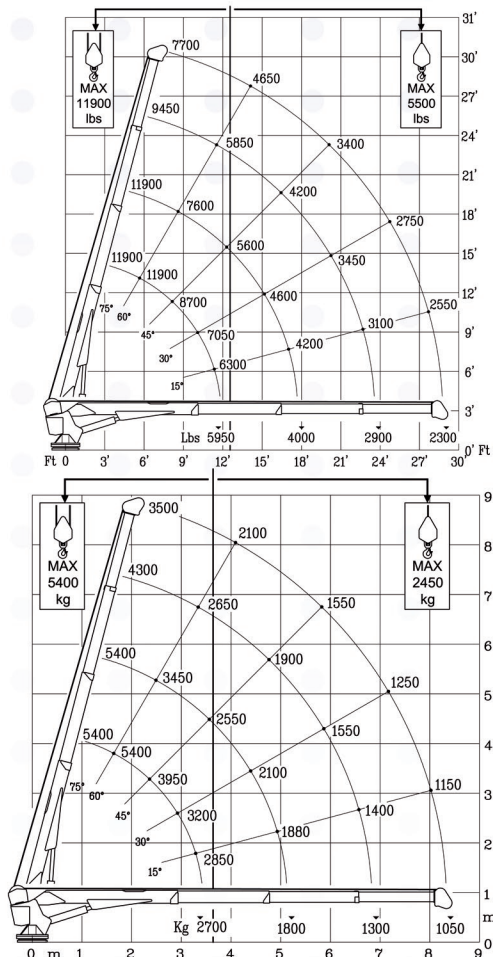
if you stay within the curve **B3** with the same load **S1**, you will have a structural life of **600.000** conventional cycles, i.e. three times bigger.

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Technical data : COBRA 12000.3 H

Crane rating	ft.lbs.	67,000	kNm.	90,8
Hydraulic extension	ft.	16'	mm.	4.900
Horizontal extension (from center of rotation)	ft.	27' 7"	mm.	8.420
Slewing rotation	Continuous (non stop)			
Slewing torque	ft.lbs.	6,640	kNm.	9
Boom elevation angle	-10°/+75°			
Suggested oil flow	gpm.	5.8-6.5	l./min.	22-25
Max. working pressure	psi.	3,045	bar.	210
Winch :				
° single line capacity	lbs.	6,720	Kg.	3.050
° double line	lbs.	11,900	Kg.	5.400
Capacity :				
° line pull speed	ft./min.	36-42	m/min.	11-13
° rope diameter	in.	15/32"	mm.	12
° rope length	ft.	115'	m.	35
Crane weight	lbs.	2,270	Kg.	1.030



OPTIONAL Outrigger system to increase stability and reduce the load on the truck springs while lifting.



LOAD LIMITING DEVICE

Crane and its operator are protected from overloads by the load limiting device LLD (with transducer). The relevant sensor is incorporated in the boom elevation cylinder and protected from external damage. The LLD is equipped with a LCD screen that shows when 90% and 100% of rated load is reached. Only booming-in and booming down remain operable.

BOOM SYSTEM

Booms are made of extra-high strength, fine grained Swedish steel hexagonally shaped. Stages made of a single piece robot welded. Telescopic hexagonal sections are self-aligning at any condition and at any boom elevation. Rectangular sections made of commercial grade steel, or hexagonal sections made in two parts do not deliver high performances.

BOOM ELEVATION

Crane has -10° to 75° hydraulically powered boom elevation. The elevation cylinder is double acting, incorporating an overcenter (holding + counterbalance + smooth lowering) valve.

REMOTE CONTROL

Crane is equipped with a 32' ft. (10 mt.) length pendant control for operating all the functions. The pendant is connected to the side of the crane column. Radio available (optional).

ROPE SHEAVE

All sheaves are made in anti-friction, high strength weather proof polymer, with maintenance free, sealed bearings.

PLANETARY HOIST WINCH

A heavy duty load brake provides safe dependable control of loads. The winch has a 6,720 lbs. (3.050 kg.) first layer capacity, its drum houses 115' ft. (35 mt.) of 15/32" (12 mm.) non twisting cable with minimum **30,750 lbs. (13.950 Kg.) breaking strength**.
Hoist speed for single line operation:
36'-42' ft./min. (11-13 m/min.)
Hoist speed for double line operation:
18'-21' ft./min. (6-7 m/min.)

SLEWING

Crane has a continuous rotation, hydraulically powered, for uncompromised versatility and ease of use delivering a total coverage of the working area. Positive locking of the slewing system prevents from uncontrolled movements at any time.

ANTI-TWO BLOCK

Crane has an anti-two-block as standard equipment. The preventer protects the crane from accidental two-blocking of the travelling block by making hoist up, boom down and extend out functions inoperable.

TRAVELLING BLOCK

A tip proof, travelling block is supplied. The hook has a capacity of two metric tons, equipped with safety latch and can swivel under load.

PINS WITH BUSHING

Big size pins are nitrated and greased. For lower maintenance and long life time.



Next Hydraulics

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