



## LIFTING CHARTS - Crawler Cranes

### TEREX MODEL HC 80 - 80 TON CAPACITY

#### TECHNICAL DESCRIPTION

##### HYDRAULIC CRAWLER CRANE

###### Maximum lifting capacity

80 tons (73 mt).

###### Boom systems

47 HI Boom with Offset Tip

- 200 ft (61 m) maximum boom length.
- 230 ft (70 m) maximum boom and jib combination length.
- 47 HI Tubular chord boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 30 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 200 ft.

46 HR Angle Boom with 4 Sheave Tip

- 160 ft maximum boom length.
- 200 ft (61 m) maximum boom and jib combination length.
- 46 HR Angle Boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 30 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 160 ft.

###### Robust engine

- Cummins Model QSB 5.9 Turbocharged After Cooled diesel engine, 4 cycle, 6 cylinders, 359 cubic inch displacement, 5.9 liters, 185 BHP @2200 rpm, 60 gallons fuel tank capacity.

###### Environmental operator's cab

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 inch (0.91 m) wide cab has wide curve windows on both top and bottom.
- Easy-to-operate modular and ergonomically designed controls reduce operator fatigue and increase productivity.
- Load Moment Indicator with interactive screen features as shockless stop system. Operator can select from three display modes: loaded condition diagram, rated lifting curve or rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, fan, overhead and front wipers and drum rotation indicators are standard.

###### Heavy duty carbody and crawlers

- Fabricated steel carbody is deep box constructed with square axles for the crawler side frames. Precision machined top supports anti-friction swing circle and multiple pass hydraulic swivel joint.
- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with sealed rollers.
- 36" (914 mm) crawler shoes.
- Travel mechanism is set within shoe width.
- Side frames extended or retracted by cylinders inside the carbody.
- Two travel speed settings – 0.8 / 1.24 mph (1.3 / 2.0 km/h).
- 40 % (22°) gradeability.

###### Powerful, high-speed hoist system

- Identical inline, independent main and auxiliary load hoisting drums are grooved for 7/8 in. (22.4 mm) diameter rope. Line speed is 530 fpm (162 m/min.), line pull is 32,400 lb (14 697 kg).
- Each drum, including optional third, has power up/down and freefall. Load hoists are further controllable in stepless mode.
- Ample work space in front of the drums allows easy access for cable installation and maintenance.
- Internal expanding band clutch.
- 3.3 rpm swing speed.

###### High capacity, dependable hydraulic system

- Open circuit system has 2 variable displacement piston pumps with system capacity of 116 gpm (440 lpm).
- Hydraulic reservoir with 79 gallons (300 l) capacity and 10 micron filtration.
- Component working range is between -4 and 203° F (-20 and 95° C).
- Flip up doors provide easy access to engine and hydraulic components for service.

###### Three piece removable counterweight

- Three piece pin connected counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and utilizes the „A“ frame and crane auxiliary drum to make the HC 80 one of the most transportable cranes in its class.
- Moves on three trucks with full boom and #9HL jib. Carbody sideframes and boom weigh in at under 88,000 lb (39 917 kg). At 11 ft 9.75 in. (3.6 m) wide and 10 ft 2 in. (3.09 m) high, the HC 80 at working weight will transport on a standard lowboy trailer.

###### Options include

- Third drum
- Automotive type lights
- Hydraulic power take off
- Jib and jib inserts
- Luffing jib attachment
- 46HI angle boom
- Single sheave extension