## LIFTING CHARTS - Carry Decks



## STERLING CRANE

| CAPACITIES IN POUNDS FOR OPERATION ON FIRM LEVEL SURFACE |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l\|} \hline \text { LOAD } \\ \text { RADIUS } \\ \text { FEET } \\ \hline \end{array}$ | MAIN BOOM ONLY |  |  |  | BOOM EXTENSION |  |  |  |
|  | ON RUBBER |  | ON OUTRIGGERS |  | ON RUBBER |  | ON OUTRIGGERS |  |
|  | $360^{\circ}$ | FRONT | $360{ }^{\circ}$ | FRONT | $360{ }^{\circ}$ | FRONT | $360{ }^{\circ}$ | FRONT |
| 6 | 16000 | 16400 | 30000 | 30000 | － | －－－ | － | －－－ |
| 8 | 12500 | 13000 | 22400 | 22400 | －－－ | －－－ | －－－ | －－－ |
| 10 | 10000 | 10500 | 18500 | 18500 | 7500 | 7500 | 7500 | 7500 |
| 12 | 8050 | 8700 | 15700 | 15700 | 7500 | 7500 | 7500 | 7500 |
| 14 | 6500 | 7200 | 13500 | 13500 | 7500 | 7500 | 7500 | 7500 |
| 16 | 5300 | 6200 | 10800 | 10800 | 6150 | 7500 | 7500 | 7500 |
| 18 | 4450 | 5400 | 9550 | 9550 | 5000 | 6450 | 7500 | 7500 |
| 20 | 3700 | 4700 | 8550 | 8550 | 4200 | 5400 | 7500 | 7500 |
| 22 | 3150 | 4200 | 7700 | 7700 | 3550 | 4650 | 6850 | 6850 |
| 24 | 2650 | 3700 | 6950 | 6950 | 3050 | 4000 | 6250 | 6250 |
| 26 | 2300 | 3200 | 6300 | 6350 | 2650 | 3500 | 5750 | 5750 |
| 28 | 1950 | 2800 | 5550 | 5800 | 2300 | 3100 | 5300 | 5300 |
| 30 | 1700 | 2450 | 4800 | 5300 | 2000 | 2700 | 4900 | 4900 |
| 32 | 1450 | 2150 | 4200 | 4900 | 1700 | 2400 | 4550 | 4550 |
| 34 | 1250 | 1850 | 3700 | 4500 | 1500 | 2100 | 4250 | 4250 |
| 38 | 900 | 1300 | 2950 | 3850 | 1150 | 1650 | 3500 | 3750 |
| 42 | 650 | 950 | 2400 | 3350 | 850 | 1300 | 2950 | 3350 |
| 46 | 400 | 650 | 1850 | 2900 | 600 | 1050 | 2450 | 2950 |
| 50 | 0 | 550 | 1750 | 2500 | 400 | 800 | 2050 | 2600 |
| 54 | － | －－－ | －ーー | －－－ | 0 | 600 | 1700 | 2300 |
| 58 | －－－ | －－－ | －－－ | －－－ | 0 | 400 | 1350 | 2000 |
| 62 | －－ | －－－ | －－－ | －－－ | 0 | 300 | 1150 | 1750 |
| 66 | －－－ | ーーー | ーーー | －－－ | 0 | 0 | 900 | 1500 |
| $\begin{array}{\|c\|} \hline \text { BOOM } \\ \text { EXT. } \\ \text { ANGLE } \end{array}$ | BOOM EXTENSION－STRAIGHT OR OFFSET |  |  |  |  |  |  |  |
|  | MAIN BOOM ANGLE |  |  |  |  |  |  |  |
|  | $0^{\circ}$ | $15^{\circ}$ |  |  |  | $0^{\circ}$ | $60^{\circ}$ | $70^{\circ}$ |
| $0^{\circ}$ | 3000 | 3100 |  |  |  | 550 | 6000 | 7500 |
| $15^{\circ}$ | － | 3000 |  |  |  | 000 | 3700 | 5000 |
| $30^{\circ}$ | －ax | － |  |  |  | 00 | 3100 | 3800 |

LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED．
EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE，IS HAZARDOUS，AND VOIDS
CAUTION BO
CAPACITE O EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY．DO NOT PICK AND CARRY WITH LOADS ON BOOM EXTENSION． CAPACITIES ON OUTRIGGERS ARE 35\％OF TIPPING LOADS．CAPACITIES ON RUBBER ARE 75\％OF TIPPING LOADS．CAPACITIES BELOW BOLD BOOM EXTENSION DEDUCT：400 LES．WHEN STOWED ON MAIN BOOM．


## GENERAL:

| Weight: | IC-200-2H | IC-200-3H |
| :---: | :---: | :---: |
|  | 28,500 lbs | 31,080 lbs |
|  | (12,940 kg) | ( $14,110 \mathrm{~kg}$ ) |
| Boom Movement: |  |  |
| Rotation | Continuous | Continuos |
| Elevation | $0^{\circ}$ to $73^{\circ}$ | $0^{\circ}$ to $73^{\circ}$ |
| Extension | 21' 0" (6.4m) | 34' '" $^{\prime}(10.5 \mathrm{~m})$ |
| Boom Speeds: |  |  |
| Rotation | 1.9 RPM | 1.8 RPM |
| Elevation | 20 sec . | 20 sec . |
| Extension | 36 sec . | 55 sec . |
| Gradeability: | 54\% (28 Degrees) |  |
| Turning Radius: | 14' 5" (4.42m) |  |
| ENGINE: | Standard | Optional |
| Make | GM* | Cummins** |
| Model | 4.3L V-6 | QSB3. 3 |
| Type | Gasoline | Turbo-Diesel |
| No. Cyl. | 6 | 4 |
| Displacement | 262 CID (4.3L) | 199 CID (3.3L) |
| HP@ Gov. Speed | 93 H.P. (69 kW) | 100 H.P. (75 kW) |
| Fuel Tank Capacity | 30 Gallons (113L) |  |
| *Electronic Fuel Injection with Dual Fuel \& Engine Management System, US EPA Tier 2 |  |  |
| ${ }^{* *} \text { Charge Air Cooler }$ | rid Heater US EPA Ti | er 4i Emissions Ce |

TRANSMISSION:
Powershift transmission with 4-speeds forward and reverse. Provides powershifts at any engine speed in any gear. All shifting is done with a single lever electrical control mounted on the steering column. Equipped with torque convertor and transmission oil cooler. Torque convertor has stall ratio of 2.2:1.

Gear Ratio:

| First | $5.72: 1$ | Second | $3.23: 1$ |
| :--- | :--- | :--- | :--- |
| Third | $1.77: 1$ | Fourth | $1.00: 1$ |

## AXLES:

## Front Axle:

Planetary drive/steer front axle with 15.78 to 1.0 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame

| Gear | Travel Speed | Drawbar Pull* |
| :--- | :---: | :---: |
| First | 3 MPH | $17,000^{*}$ |
| Second | 5 MPH | $8,900^{*}$ |
| Third | 10 MPH | $5,100^{*}$ |
| Fourth | 18 MPH | $2,700^{*}$ |

*Drawbar pull is calculated for GM 4.3L engine.
Rear Axle:
Standard (2-Wheel Drive):
Steering axle with 1-1/2 degree oscillation in either direction.
Optional (4-Wheel Drive):
Planetary drive/steer axle with 24.98 to 1.0 ratio. Differential is not "limited slip" in rear axle. 1-1/2 degree oscillation in either direction. Axle ratio compatible with 4 -wheel drive transmission output for front axle match. Transmission equipped with electrohydraulic control for shifting between 2 -wheel drive and 4 -wheel drive.

## STEERING:

Full hydraulic steering unit with two 3-inch ( 7.6 cm ) cylinders attached to each axle. Allows limited steering when engine is not running. A switch on the control panel is used to select rear-wheel steering, four-wheel steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

## BRAKES:

Service: Split-system, 4-wheel hydraulic-boosted multipleplate wet disc brakes.
Parking: Hand lever actuated disc-type parking brake on transmission.
TIRES: $15 \times 22.5,16$-ply rating.

## OPERATOR COMPARTMENT:

Provides one-position access to all chassis and crane functions. Includes adjustable operator's seat, retracting seat belts, fire extinguisher and bubble level.

## CHASSIS:

Cargo Deck:
66 square feet $\left(6 \mathrm{~m}^{2}\right)$ of deck area. $17,000 \mathrm{lbs}(7,700 \mathrm{~kg})$ capacity on deck when load is centered over or between axles. Steps located on front corners.
Lifting Rings: Lifting rings at each corner of load deck so sling can be attached for lifting crane.
Outriggers:
Four hydraulic outriggers of box beam construction with directconnected holding valves. Independent controls for each outrigger. Outrigger pad dimension: $11^{\prime \prime} \times 16$ " ( $28 \mathrm{~cm} \times 41 \mathrm{~cm}$ ).

## Accessory Storage Box:

Storage box is $14^{\prime \prime}(35 \mathrm{~cm})$ deep $\times 10-1 / 2^{\prime \prime}(26 \mathrm{~cm})$ long $\times 36-1 / 2^{\prime \prime}$ $(93 \mathrm{~cm})$ wide, located in front cargo deck.

## ELECTRICAL:

12 Volt System
Lighting Package:
One pair headlights with high and low beams, tail, brake and turn signal lights and back-up lights in rear, front turn signals and emergency flasher switch at operator's station.
Instrument Package:
Fuel gauge and hourmeter records hours only during actual engine operations. Also includes warning lights for low oil and transmission pressure, check engine, high coolant and transmission temperature,turn signals, high beams, hazard lights, parking brake and four-wheel drive.
Back-Up Alarm:
Provides pulsating sound when transmission is in reverse.
Outrigger Alarm System:
Two-tone alarm is activated when "outrigger down" controls are operated.

## HYDRAULIC SYSTEM:

Tandem pump, direct-driven by engine crankshaft, rated at 29 GPM ( $110 \mathrm{~L} / \mathrm{min}$ ) and 34 GPM ( $129 \mathrm{~L} / \mathrm{min}$ ) at rated RPM. Hydraulic oil tank capacity of 54 gallons ( 204 L ).

## BOOM ASSEMBLY:

Three or four section boom assembly equipped with bearing pads, double-acting hydraulic cylinders with direct-connected holding valves and boom angle indicator on each side of boom.

## Boom Rotation:

Heavy-duty ball bearing rotation gear with external teeth. Rotation is powered by hydraulic motor and worm gear drive.

## Boom Hoist:

Turret mounted planetary gear hoist hydraulically powered with a baredrum line pull of $10,000 \mathrm{lbs} .(4536 \mathrm{~kg})$ at a line speed of 100 FPM ( $30 \mathrm{~m} / \mathrm{min}$ ). Includes downhaul weight, swivel hook and sheave block for 4-part line and $240 \mathrm{ft}(73 \mathrm{~m})(2 \mathrm{H})$ and $291 \mathrm{ft}(89 \mathrm{~m})(3 \mathrm{H})$ of 1/2" ( 13 mm ) hoist rope.

## Anti-Two-Block Device:

Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

## Sheave Block, Four Part Line:

Double sheave block for 4-part line requirements.

## Rated Capacity Limiter:

Warns operator of impending overload with audible and visual signals.
Prevents overloads by stopping boom functions that cause overloads.

