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Newport 01633 759148        Yeovil 01935 609148
COMPACT AND TOUGH
IDEAL FOR RESTRICTED WORKING AREAS
SUITS ALL TYPES OF TERRAIN
HIGHLY MANOEUVRABLE
SUPER EFFICIENT
Tight spots and rough terrain pose no problems for the CX-3T & CX-8T Starlifters. With 360° slew and telescopic boom providing accurate and safe load positioning, the compact and tough Starlifters excel in industry, mining and tunnelling, civil engineering, shipping and in military operations. Highly manoeuvrable, Starlifters provide unique lifting solutions, above or below ground... even afloat.

**Starlifter CX-3T**

**Operating Weight:**
- Canopy, rubber tracks: 3310kg (7300lbs)
- Cabin, rubber tracks: 3480kg (7670lbs)

**Engine:**
- Kubota V1305 water cooled: 20kW @ 2500rpm (26 bhp)

**Electrics:**
- 12 Volt system

**Hydraulic System:**
- Pump: Tandem gear type.
- 29 + 29 l/min @ 210 bar (7.6 + 7.6 US galls/min @ 3090 psi)
- Track Motors: Axial piston motor / gearbox + motion control valve & automatic fail to safe brake
- Slew Motor: Axial piston motor / gearbox + cross line relief valve
- Winch Motor: Axial piston motor / gearbox + overcentre valve + automatic fail to safe brake
- Derricking ram: 100mm (4") double acting, built-in overcentre valve
- Telescoping ram: 60mm (2.5") double acting, built-in dual overcentre valves

**Hydraulic Power Take Off (PTO)**
- Optional: 29 l/min @ 140 bar (7.6 US galls/min @ 2060 psi)

**Filtration**
- 10 microns absolute return line filter

**Controls:**
- Proportional double acting circuits.
- 2-4 way joystick control for derrick, telescope, winch and slew
- Hand lever control for tracks
- Single lever control for PTO
- Hand or foot operated engine revolution accelerator

**Sound Levels:**
- LWA 99.5 LPA 86

**Safety Devices:**
- Mechanical boom angle/load indicator.
- Warning alarm for tracking mode.
- Mechanical anti-slew lock
- Hydraulics’ cut out lever on operators entry/exit.
- Hydraulic pressure relief valves throughout.

**Automatic Safe Load Indicator or Moment Limiter:**
- Overcentre valves on winch and boom - derrick and telescope.
- Fail to safe brake on winch, slew & tracks.

**Performance Data:**
- See full load chart in operators manual for complete range of duties.

**Boom:**
- Retracted: 3970mm (13’ 0")
- Extended: 6055mm (19’ 9")
- Boom angle: 0-58 degrees
- Derricking time: 14 seconds (0-58°)
- Telescoping time: 17 seconds
- Hoisting speed: 27 metres/minute (88’ 7”/min)
- Wire rope: 48M x ø10mm
  - 36M drop on single fall
  - 18M drop on 2 falls
  - 12M drop on 3 falls

**Machine Overall Dimensions:**
- Width 1890mm, Length 4520mm, Height 2310mm, Tail Rad. 1400mm, Legs deployed footprint 1890 x 2400mm

**Slew:**
- Continuous 360 degrees at 1.5 RPM

**Gradability:**
- 32 degrees - (58%)

**Travel speed:**
- 0 - 2.3 k/h (0-1.4mph)

**Track Equipment:**
- Standard specification is for rubber track with 100mm (4") pitch
- Width: 320mm (12.5")
- Ground Length: 1650mm (65")
- Ground pressure (Canopy): 0.31kg/cm² (4.5lbs/ins²)
- Ground pressure (Cabin): 0.33kg/cm² (4.7lbs/ins²)

**Instruments:**
- Warning lights for ignition, engine temp. & oil pressure, hours metre, machine levelling indicator

**Fuel Tank Capacity:**
- 75 litres (19.8 US galls) Sight gauge for level check

**Hydraulic Reservoir:**
- 120 litres (31.7 US galls) Sight gauge for level check

**Optional Equipment:**
- Hydraulic Power Take Off (PTO)
- All weather cabin with “up & over” opening front screen, polycarbonate roof light, tinted glass, screen wiper/wash, heater/blower
- Air conditioned cabin
- Steel track undercarriage - double bar grouser 300mm (12") wide.
- 100mm (4") pitch
- Dual fail to safe brake for winch
- Overhoist limiter - anti-two (block to block type)
- Fly Jib - 2.4m (7’ 10")

- **CX-3T - TONNES SAFE WORKING LOAD**
- **Boom min. extension**
  - 58˚: 3000
  - 50˚: 2380
  - 40˚: 1820
  - 30˚: 1560
  - 20˚: 1347
  - 10˚: 1084
  - 0˚: 1079

- **Boom max. extension**
  - 58˚: 40°
  - 50˚: 30°
  - 40˚: 20°
  - 30˚: 10°
  - 0˚: 0°

- **S.W.L. Radius No.of S.W.L. Radius No.of**
  - Kgs metres falls Kgs metres falls
  - 3000 1.07 3 1300 2.30 2
  - 1350 1.35 3 1030 2.90 2
  - 1560 1.80 2 790 3.65 1
  - 1470 2.25 2 675 4.30 1
  - 1347 2.60 2 584 4.75 1
  - 1084 2.99 2 469 5.10 1
  - 1079 3.00 2 467 5.11 1

All Non-metric dimensions, volumes and weights are approximations.
Cranes of Unique Capability

**Starlifter CX-8T**

**Operating Weight:**
- Cabin, steel tracks/rubber shoes - 9030kg

**Engine:**
- Kubota V2003T turbocharged water cooled engine 41.8kW @ 2800 rpm (56bhp)

**Electrics:**
- 12 Volt system

**Hydraulic System:**
- **Pump:** Load sensing variable displacement, max. flow 140 litres/min, max. pressure 280 bar.
- **Track Motors** - Two speed axial piston motor gearbox + cross line relief + fail to safe park brake
- **Slew Motor** - Axial piston motor/ gearbox + cross line relief + fail to safe park brake
- **Winch Motor** - Gear motor/gearbox + overcentre + automatic fail to safe brake
- **Derricking ram** - 125mm (5") double acting + built-in overcentre valve
- **Telescoping ram** - 2 x 80mm (3.14") Double acting and built in overcentre valves
- **Stabilisers** - 4 x 100mm (4")
- **Rams** - Double acting + dual Pilot operated checks
- **Filteration** - 10 microns absolute return line filter

**Controls:**
- Electro-hydraulic proportional Double acting circuits
  2 x 4 way joystick control for derrick, telescope, winch and slew
  Hand lever control for tracks
  Interchanging with boom and winch control 4 x switch control for stabiliser legs

**Cab:**
- All weather cabin, designed to ROPS & FOPS criteria
- Tinted glass, up and over front
- Front wiper and interior light
- Opening window and protecting roof window
- Full suspension and armchair control seat
- Cab heater/blower, demist facility

**Safety Devices:**
- Full safe load indicator, A2B block to block cutout
- Winch wire out cutout
- Armchair lever control cutout on operator entry/exit
- Mechanical slew lock pin (operated from within cab)
- Total moment cutout limiter available (optional)
- Safety valves throughout all lift functions and fail to safe brakes

**Performance Data:**
See full load chart in operators manual for complete range of duties.

**Boom:**
- **Retracted** - 4350mm (14' 3")
- **Extended** - 12600mm (41' 4")
- 4 stage boom,
  2 stages - hydraulic cylinder operated
  1 stage - wire rope operated
- Maximum height under hook 12.5 metres
- **Boom Angle** - 0.73°
- **Derricking time** - 15 seconds (0-73°)
- Up: 20 seconds, Down: 19 seconds
- **Telescoping time** - Out: 37 secs, In: 34 secs
- **Hoisting speed** - 40 metres/minute
- **Wire rope** - 110M x 13mm
- 24M drop on 2 falls
- 48M drop on 2 falls
- 10 - 12 - 14 Metres

**Machine Overall Dimensions:**
- **Width** 2235mm, Length 5680mm, Height 2550mm,
- Tail Rad. 1560mm, Legs deployed footprint 3480 x 3480mm

**Fuel Tank Capacity:**
95 litres (25.0 US galls)

**Hydraulic Reservoir:**
160 litres (42.3 US galls)

**Optional Equipment:**
- Cab air conditioning, steel track undercarriage, all rubber track, dual fail to safe on winch, fly jib 5.0m (16' 4")

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Starlifter Cranes have a policy of continuous improvement and therefore reserve the right to change the specification without prior notice.
STARLIFTERS PROVIDE UNIQUE LIFTING SOLUTIONS

CX-3T
- Air-lifted onto sluice gate headings for Shuttering & Formwork duties at Cardiff Barrage

CX-8T
- Operating in confined area on London’s Dockland Light Railway - cut and cover tunnel
- Afloat on the River Avon, a CX-8T works installing Interlocking sheet piling under the low headroom of a mainline London/East Coast railway bridge.

CX-3T
- Riverbank piling duties along narrow canal banks with site accessed under low bridges
- A CX-8T being lifted into the underground access shaft for construction work on London’s Jubilee Line extension.

CX-8T
- Operating underground at London’s Westminster tube station with only 3.5 metres of working headroom. Three proximity cut-out switches wired to rubber faced nudge bars were fitted to the crane’s boom to avoid damage to finished concrete.

CX-3T
- Operating on London’s Dockland Light Railway - cut and cover tunnel
- A CX-8T operating underground at London’s Westminster tube station with only 3.5 metres of working headroom. Three proximity cut-out switches wired to rubber faced nudge bars were fitted to the crane’s boom to avoid damage to finished concrete.

CX-8T
- Riverbank piling duties along narrow canal banks with site accessed under low bridges
- Afloat on the River Avon, a CX-8T works installing Interlocking sheet piling under the low headroom of a mainline London/East Coast railway bridge.


CX-8T
- Two CX-3T Starlifters manoeuvred 3.5 tonne acrylic panels into position providing safe viewing windows for tourists visiting new aquaria in the basement at London’s old County Hall.

CX-8T – Underground on the Heathrow Express project lifting 1 Tonne tunnel segments into position at a radius of 6.5m with boom at 10m, from adjacent rail position.