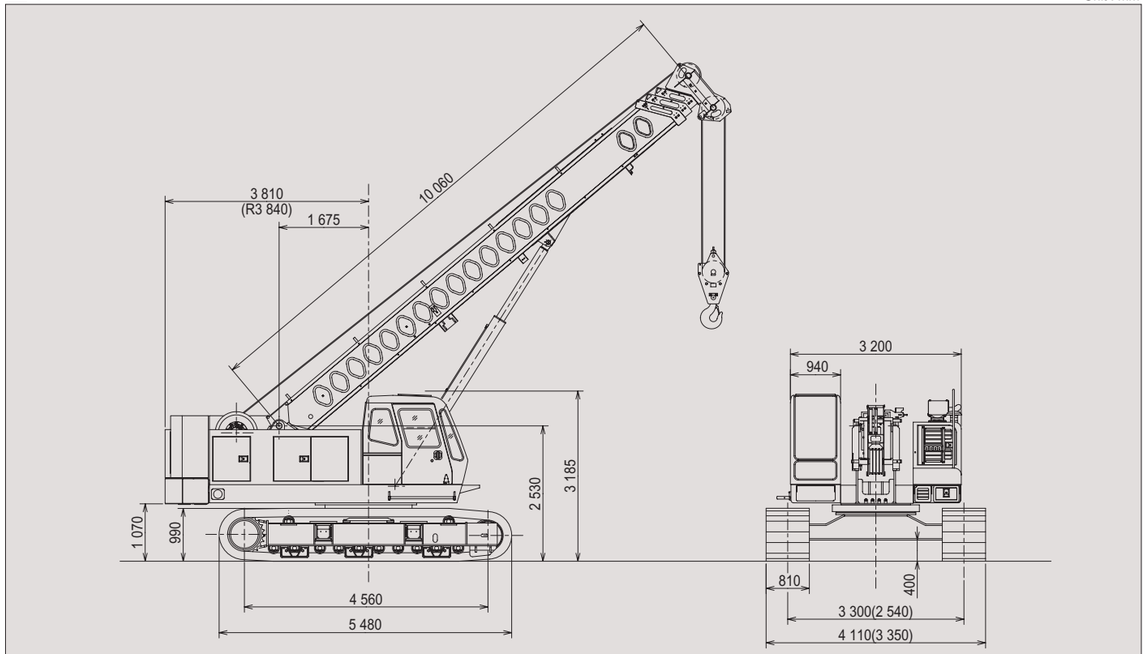
# SCX400T

## ■GENERAL DIMENSIONS

Unit : mm




## ■SPECIFICATIONS

| | | | Liftcrane application |
|---|---|---|---|
| Model | | | SCX400T |
| Max. lifting capacity | | t × m | 40 × 2.5 |
| Basic boom length | | m | 10.06 |
| Max. boom length | | m | 32.00 |
| Boom telescoping speed | | sec | approx. 70 sec (from 10.06 m to 32.00 m) |
| No. of boom section | | | Four (4) |
| Drum rope line speed (*1) | Main | m/min | 100 |
| | Aux. (option) | m/min | 100 |
| Wire rope | Main | mm | 18 |
| | Aux. (option) | mm | 18 |
| Boom elevating speed | | sec | approx. 40 sec (from 0° to 78.0°) |
| Swing speed | | $min^{-1}$ | 3.7 |
| Travel speed (*2) | | km/h | 1.9 |
| Gradeability | | % (°) | 40.0 (22.0) |
| Engine | Make & Model | | ISUZU 4HK1X |
| | Rated output | $kW/min^{-1}$ | 147 / 2 100 |
| Ground contact pressure | | kPa | 55.8 |
| Operating weight | | t | 45.2 |

Notes :
1. These figures are based on drum first layer and rated engine rpm with no load,and vary under load and operating conditions. (*1)
2. Travel speed and gradeability are based on flat, level and firm supporting surface, and under the conditions that no load must be applied . (*2)

- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this catalog are shown under International System of Unit ; the figures in parenthesis are under Gravitational System of Units as old one.
- Illustrations may include optional equipment and accessories, and may not include all standard equipment.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HITACHI SUMITOMO

# SCX400T

40 Ton Telescopic Boom Crawler Crane.

EUROPEAN ISSUE

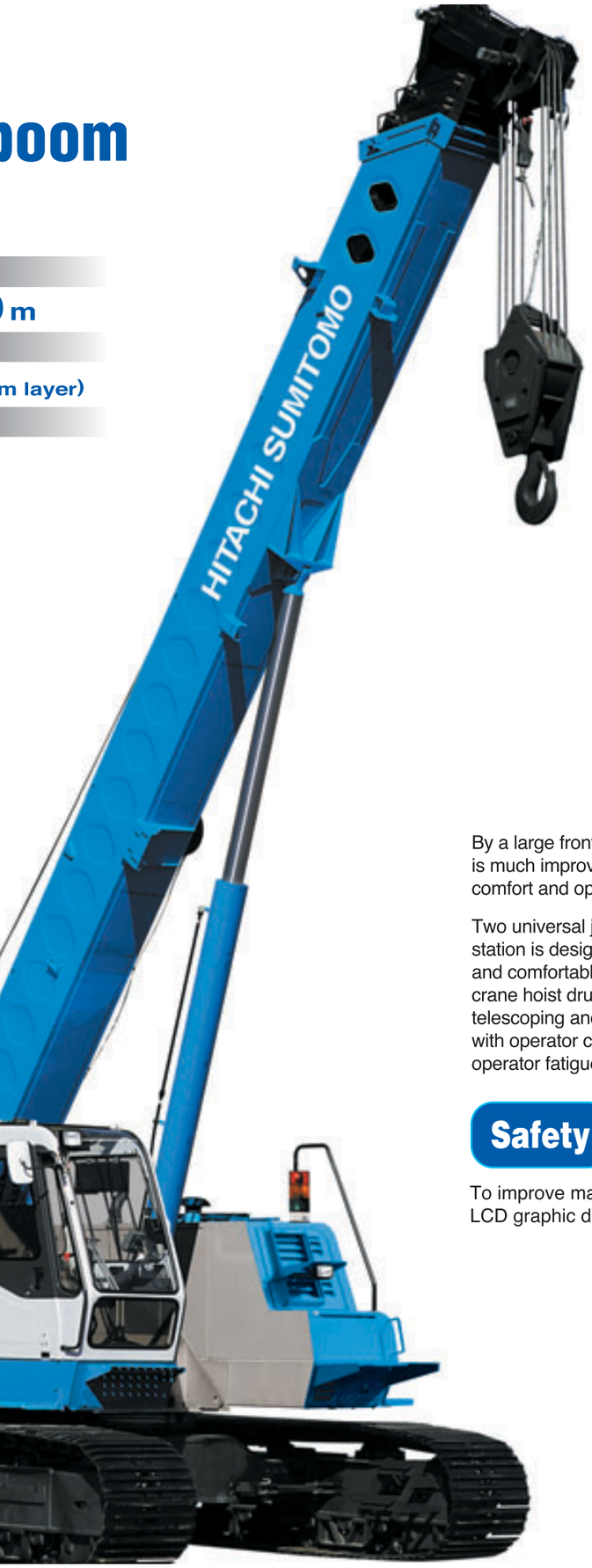
# Take a closer look.
# The SCX400T, 40ton telescopic boom crawler crane.

**Developed under accumulated and current advanced technologies to answer any of demands and requirements from crawler crane user, especially foundation job specialists throughout the world along concept themes of "good manoeuvrability", "high work-efficiency", "transportation ease" and so on.**

**Boom length**
**10.06—32.00 m**

**Rope line speed**
**100 m/min (1st drum layer)**

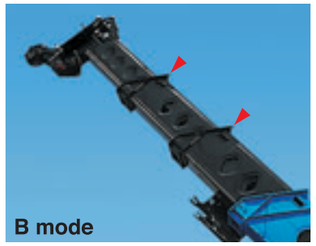
**Rated line pull**
**49 kN(5tf)**




## Productivity

**A strong machine with high boom strength and attachment features.**

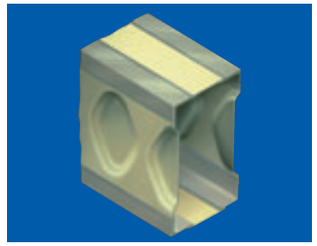

A mode


B mode

To enhance performance, the exclusive boom telescoping mode "A" extends only the second section to 17.37m offering substantially increased capacities for in-close, maximum capacity picks while the other boom telescoping mode "B" is available as basic boom extension mode that offers a full power, synchronized mode of telescoping all sections proportionally to 32.00m. By activating a switch located at instrument panel of operator cab, it is easily choose these boom telescoping modes.

Further, to get high lifting performance, boom head machinery takes a light-weight nylon sheaves. An optional lifting sheave is designed with the same too.

Hammerhead boom nose allows the operator to work at high boom angle without fouling wire rope. In addition, a Quick Reeve Boomhead is exclusively designed to allow rope to be easily reeved over boomhead without removing rope socket from wedge.



Embossed sidewall stiffeners with a 689.5MPa high strength angle chord at 4 comers where maximum stress is concentrated is exclusively designed on boom for "maximum strength with minimum weight" under maximum structural integrity.

## Transportability

**As a general, the telescopic boom crawler crane features a good manoeuvrability whenever transport from site to site as disassembling/assembling of a 4-section boom is only required.**

In the meantime, dimensions and weight for complete machine transport with boom are:
- Dimensions (L×W×H) : 12.5×3.35×3.19
- Weight : Approx. 45.2t

## Manoeuvrability

**Undercarriage is designed with tractor type tracks.**

To get further smooth travelling, a tractor type tracks with 3-bar grouser shoes is standardized with hydraulic track adjusting device (with grease cyl.) like hydraulic excavator.

## Controllability

**Operator comfort with simplified & functional control station layout.**

The cab is mounted on cushion rubber, and is designed with a high airtight sliding door. It accordingly results in lower noise in cab and greatly reducing operator fatigue during operation.

A simplified layout of control levers and monitoring panel is provided for operation ease too.

To set most of suitable operator position, a full adjustable reclining seat and electrically tiltable control stand are well designed further more.

By a large front window, the visibility is much improved for operator comfort and operation ease.

Two universal joystick control station is designed for a good, easy and comfortable operation for main crane hoist drum, swing, boom telescoping and boom elevating with operator comfort under less operator fatigue.

## Safety

**New Load Moment Indicator (LMI) of English WYLIE brand is provided.**

To improve machine operation safety more than ever, LCD graphic display panel with refrectionless is standardized.

## A Keen attention to Environment

The engine meets current EU Emission Regulations for Off-Road Diesel Engine-Stage 3, and Japanese Standard for Diesel Construction Equipment-Stage 3. And, the SCX400T clears low noise levels as defined by Ministry of Land,Infrastructure and Transport of Japan under new noise measuring methods regulated by ISO.

## ■LIFTCRANE CAPACITIES (1) - Boom telescoping mode "B"

| Boom length (m) / Working radius (m) | 10.06 | 12.19 | 5.24 | 18.29 | 21.34 | 24.38 | 27.43 | 30.48 | 32.00 |
|---|---|---|---|---|---|---|---|---|---|
| 2.5 | 40.00 | | | | | | | | |
| 3.0 | 35.00 | 15.80 | 15.80 | 15.80 | | | | | |
| 4.0 | 28.40 | 15.80 | 15.80 | 15.80 | 15.80/4.6 | | | | |
| 5.0 | 22.50 | 15.80 | 15.80 | 15.80 | 15.80 | | | | |
| 6.0 | 16.90 | 15.80 | 15.80 | 15.80 | 15.80 | 13.80/6.1 | 12.20/6.1 | | |
| 7.0 | 13.30 | 13.40 | 13.50 | 13.60 | 13.70 | 12.40 | 11.20 | 9.40/7.6 | 7.90/7.6 |
| 8.0 | 11.70/7.6 | 11.00 | 11.10 | 11.20 | 11.20 | 11.00 | 10.10 | 9.10 | 7.90 |
| 9.0 | | 9.20 | 9.30 | 9.40 | 9.40 | 9.50 | 9.10 | 8.40 | 7.90 |
| 10.0 | | | 7.90 | 8.00 | 8.10 | 8.10 | 8.10 | 7.70 | 7.30 |
| 11.0 | | | 6.90 | 6.90 | 7.00 | 7.00 | 7.10 | 7.10 | 6.70 |
| 12.0 | | | 6.00 | 6.10 | 6.10 | 6.20 | 6.20 | 6.20 | 6.20 |
| 13.0 | | | 5.80/12.2 | 5.30 | 5.40 | 5.40 | 5.50 | 5.50 | 5.50 |
| 14.0 | | | | 4.70 | 4.80 | 4.80 | 4.90 | 4.90 | 4.90 |
| 15.0 | | | | 4.20 | 4.30 | 4.30 | 4.30 | 4.40 | 4.40 |
| 16.0 | | | | 4.10/15.2 | 3.80 | 3.90 | 3.90 | 3.90 | 3.90 |
| 17.0 | | | | | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| 18.0 | | | | | 3.10 | 3.10 | 3.20 | 3.20 | 3.20 |
| 19.0 | | | | | | 2.80 | 2.90 | 2.90 | 2.90 |
| 20.0 | | | | | | 2.60 | 2.60 | 2.60 | 2.60 |
| 21.0 | | | | | | 2.30 | 2.40 | 2.40 | 2.40 |
| 22.0 | | | | | | | 2.20 | 2.20 | 2.20 |
| 23.0 | | | | | | | 1.90 | 1.90 | 2.00 |
| 24.0 | | | | | | | 1.70 | 1.70 | 1.70 |
| 25.0 | | | | | | | | 1.60 | 1.60 |
| 26.0 | | | | | | | | 1.40 | 1.40 |
| 27.0 | | | | | | | | 1.20 | 1.20 |

## ■LIFTCRANE CAPACITIES (2) - Boom telescoping mode "A"

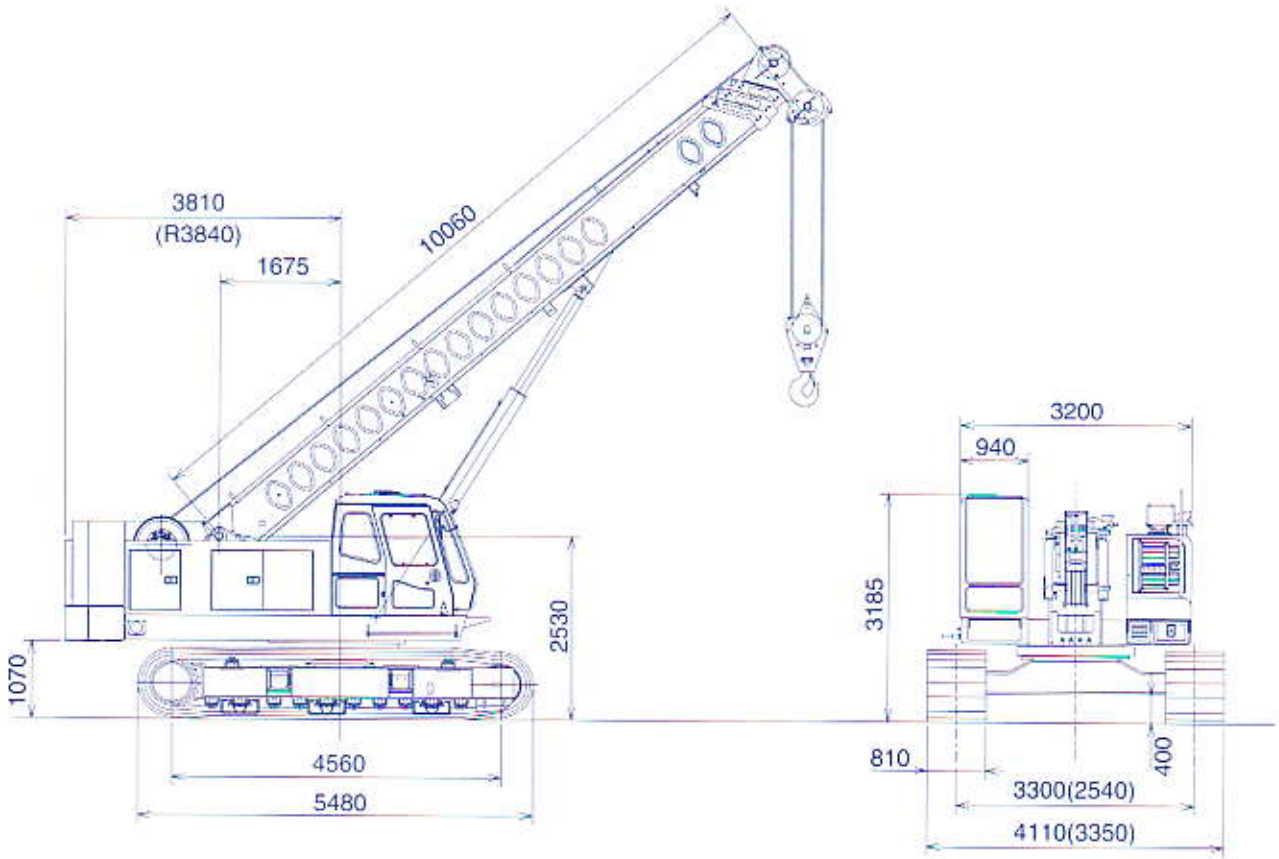
| Boom length (m) / Working radius (m) | 10.06 | 12.19 | 15.24 | 17.37 |
|---|---|---|---|---|
| 2.5 | 40.00 | | | |
| 3.0 | 35.00 | 32.50 | 31.50 | 19.50 |
| 4.0 | 28.40 | 27.00 | 26.00 | 19.00 |
| 5.0 | 22.50 | 21.70 | 21.00 | 16.80 |
| 6.0 | 16.90 | 16.60 | 16.30 | 14.50 |
| 7.0 | 13.30 | 13.00 | 12.80 | 12.50 |
| 8.0 | 11.70/7.6 | 10.60 | 10.40 | 10.30 |
| 9.0 | | 8.80 | 8.70 | 8.60 |
| 10.0 | | | 7.30 | 7.20 |
| 11.0 | | | 6.30 | 6.20 |
| 12.0 | | | 5.40 | 5.30 |
| 13.0 | | | 5.30/12.2 | 4.60 |
| 14.0 | | | | 4.10 |
| 15.0 | | | | 3.50 |
| 16.0 | | | | 3.40/15.2 |

## ■WORKING MASS & GROUND PRESSURE:

| Shoe width | Mass | Pressure |
|---|---|---|
| 810mm | 45.2t | 55.8kPa <0.57kg/cm²> |

Note: Working mass shown above is with a 4-section telescopic boom, 11.5ton counterweight, and 40t hook block.

# General Dimensions (w/Service refill capcities data)




(mm)

Note: The figures in parenthesis are in the case that crawler side frames are fully retracted.

**Service Refill Capacities (in liters):**

| | |
|---|---|
| Full tank | 300 |
| Engine coolant | 27 |
| Engine oil | 23 |
| Main crane hoist drum reduction gear unit | 11.5 |
| Swing reduction gear unit | 8 |
| Travel reduction gear unit | 11.5×2 |
| Hydraulic system, including reservoir tank capacity | 650 |
| Hydraulic oil reservoir | 450 |