

4-Stage Telescopic Crane

TX160

APPLICATION & ATTACHMENT

Model Code : TX160
Engine Rated Power : 83 kW (112 HP)
Operating Weight : 16 600 kg
Max. Lifting Capacity : 8.0 t x 2.5 m
Max. Working radius : 0.9 t x 13.2 m



Powerful Crane Operation in Urban Tight Workplace, Including Underground, behind Numerous Safety Devices

The Hitachi TX160, equipped with the robust 4-stage box-section telescopic boom, gives wide working ranges and high working stability. These features allow efficient lifting jobs in confined job sites. An array of safety devices, including the moment limiter, working range control limiter, and overhoist prevention device are provided.

Moment Limiter



To prevent over-turning of the crane due to overload, sounds buzzer and stops crane operation automatically (hook hoisting, boom lowering and boom extending) when reaching the limit. Indicates digitally the rated load, actual load, working radius, boom length and boom angle. Operator settable limits.

Overhoist Auto-Stop

The hook, when overhoisted, stops automatically with alarm to avoid line failure.

Rugged Boom Construction

The telescopic boom is the box-section construction with large sectional area and high rigidity for tough crane operation.

Ample Lift under the Ground

Ample drum winding capacity gives ample lifting under the ground. Two hoist line speeds – high and low – are selectable to suit jobs: high lifting, inching and much more.

Maximum lift under ground : 18.0 m (5 reeving)

Rear view camera



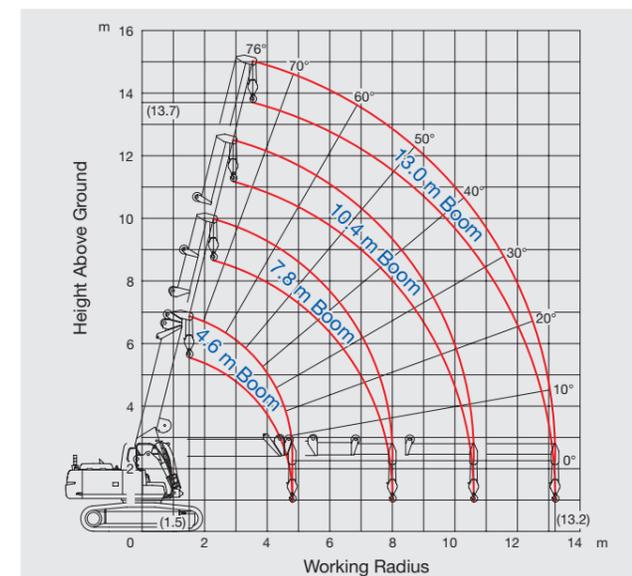
The widescreen color LCD, teamed up with the rear view camera on the counterweight provides rearward viewing.

The rear view camera automatically works when traveling, and can also be manually turned on with a select switch on the monitor.



SPECIFICATIONS

WORKING RANGES



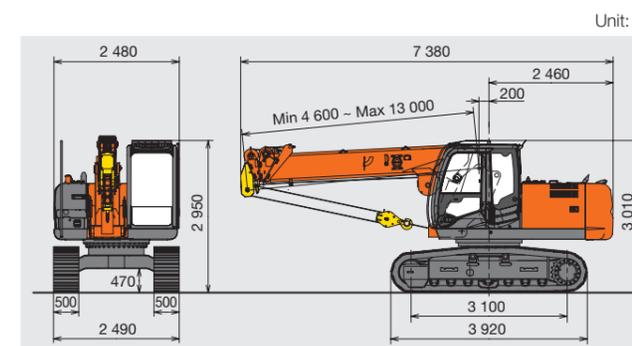
Notes: 1. This graph shows working ranges with the load, and does not include boom deflection.
2. The crane can be operated with the load in the range of 0 degree to 76 degree.

SPECIFICATIONS

		TX160 (Grouser shoe)
Operating weight	kg	16 600
Overall length	mm	7 380
Crane capacity		
Max. lifting load x Working radius	t x m	8.0 x 2.5
Max. hook height above ground	m	13.7 (5 reeving)
Max. hook lift under ground	m	18.0 (5 reeving)
		49.0 (2 reeving)*
Boom length	m	4.6 ~ 13.0
Boom elevation angle	degree	-3 ~ 76
Boom elevation speed	s	9.0 (-3 degree ~ 76 degree)
Boom extension speed	m/min	8.4 / 14.0
Hoisting rope speed	m/min	High : 97 / Low : 66
Hoisting rope	diameter mm/m	10 x 111
Swing speed	min ⁻¹ (rpm)	2.0 (2.0)
Travel speed	km/h	3.4
Engine		
Model		Isuzu AI-4JJ1X
Rated power	kW/min ⁻¹ (HP/rpm)	83 / 2 000 (112 / 2 000)

Notes: 1. Data shown above are in SI units, followed by data in conventional units in ().
2. *When hook lift becomes large, the rope is likely to be kinked.

DIMENSION



Rated Loads (5 and 2 reeving)

Unit : kg

m	4.6 m Boom		7.8 m Boom		10.4 m Boom		13.0 m Boom			
	*5	*2	*5	*2	*5	*2	*5	*2		
	A	B	A	B	A	B	A	A		
2.50	8 000	3 000	2 500	1 250						
2.70	7 600	3 000	2 500	1 250	7 000	3 000	2 500	1 250		
3.00	7 000	3 000	2 500	1 250	7 000	3 000	2 500	1 250		
3.50	5 500	2 750	2 500	1 250	5 500	2 750	2 500	1 250	4 900	2 500
4.00	4 900	2 450	2 500	1 250	4 900	2 450	2 500	1 250	4 900	2 500
4.50	4 150	2 075	2 500	1 250	4 250	2 125	2 500	1 250	4 300	2 500
4.80	3 775	1 885	2 500	1 250	-	-	-	-	-	-
5.00					3 650	1 825	2 500	1 250	3 650	2 500
6.00					2 820	1 410	2 500	1 250	2 820	2 500
6.50					2 500	1 250	2 500	1 250	2 500	2 500
7.00					2 250	1 125	2 250	1 125	2 250	2 250
8.00					1 820	910	1 820	910	1 820	1 820
9.00									1 550	1 550
10.00									1 320	1 320
10.60									1 220	1 220
11.00										1 160
12.00										1 020
13.00										920
13.20										900

*Number of reeving

A : Static Lift B : Traveling Lift

Notes: 1. The rated loads are determined according to DIN 15018 part 3 (lifting class H2, loading group B2).

The stability is according to EN13000.

The rated loads listed are based on the condition that the machine is stationed on firm, level ground.

2. The load to be actually lifted is the listed total load minus sling fittings such as hook. (8.0 t hook: 75 kg)

Rated Loads (1 reeving)

Unit: kg

m	4.6 m Boom		7.8 m Boom		10.4 m Boom	13.0 m Boom
	A	B	A	B	A	A
2.50	1 200	600				
2.70	1 200	600	1 200	600		
3.00	1 200	600	1 200	600	1 200	
3.50	1 200	600	1 200	600	1 200	1 200
4.00	1 200	600	1 200	600	1 200	1 200
4.50	1 200	600	1 200	600	1 200	1 200
4.80	1 200	600	-	-	-	-
5.00			1 200	600	1 200	1 200
6.00			1 200	600	1 200	1 200
6.50			1 200	600	1 200	1 200
7.00			1 200	600	1 200	1 200
8.00					1 200	1 200
9.00					1 200	1 200
10.00					1 200	1 200
10.60					1 200	1 200
11.00						1 160
12.00						1 020
13.00						920
13.20						900

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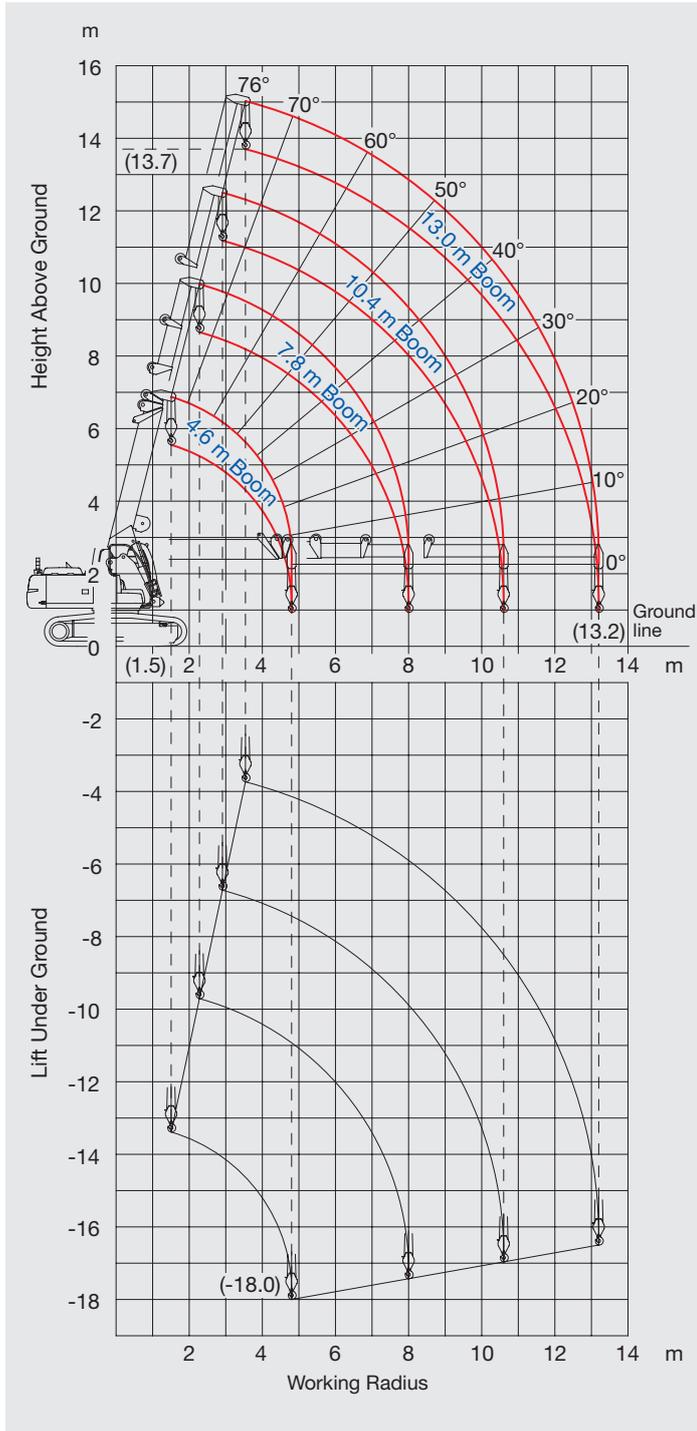
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SPECIFICATIONS

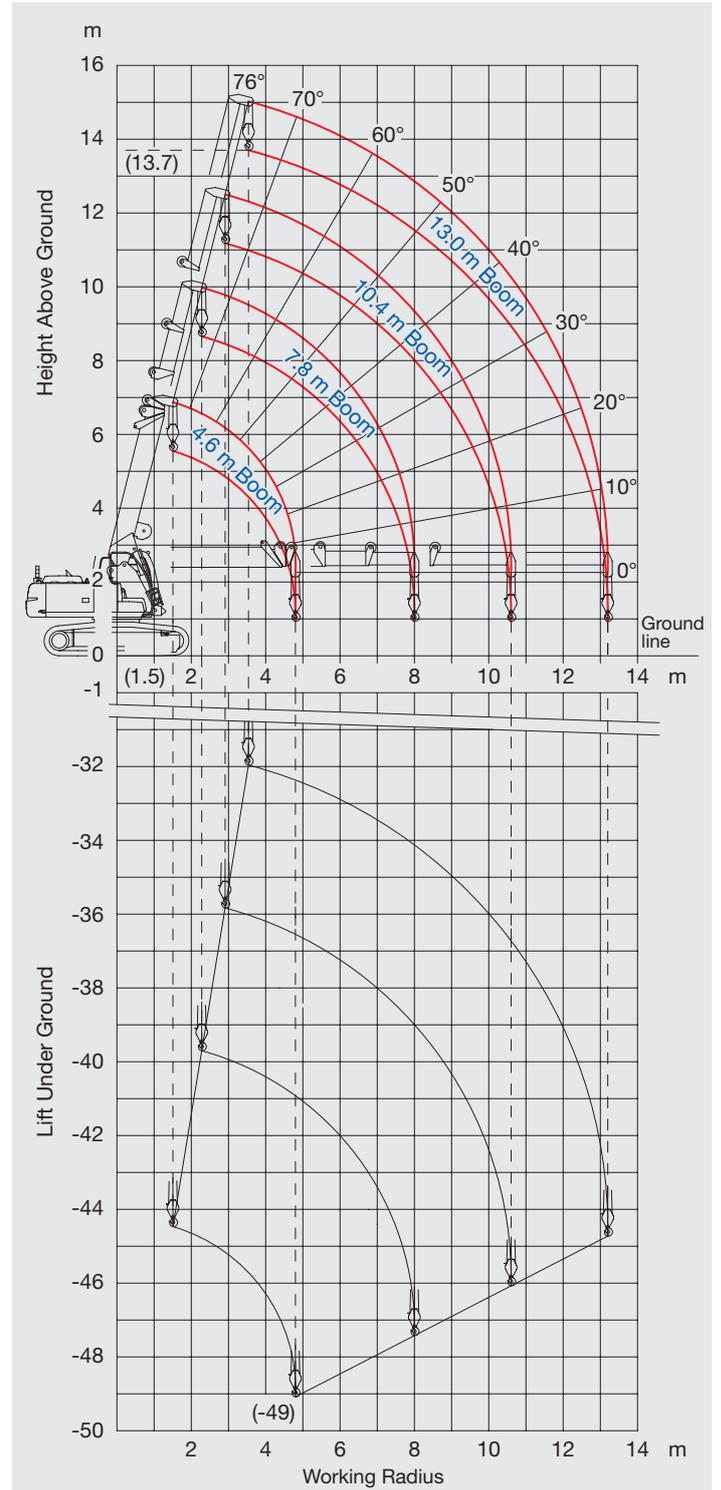
WORKING RANGES

Lift Under Ground : 5 reeving



- Notes:
1. This graph shows working ranges with the load, and does not include boom deflection.
 2. The crane can be operated with the load in the range of 0 degree to 76 degree.

Lift Under Ground : 2 reeving



These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in colour and features. Before use, read and understand the Operator's Manual for proper operation.