

ROUGH TERRAIN CRANE

TR-250M

JAPANESE SPECIFICATIONS

TR

OUTLINE	SPEC. NO.
4-section Boom, 2-staged Power Tilt Jib X-type Outrigger	TR-250M-7-00101

Control No. JA-01

TR-250M

CRANE SPECIFICATIONS

CRANE CAPACITY

9.5m Boom	25,000kg	at 3.5m	(8part-line)
16.5m Boom	19,000kg	at 4.0m	(6part-line)
23.5m Boom	12,500kg	at 5.0m	(4part-line)
30.5m Boom	7,000kg	at 8.0m	(4part-line)
8.0m Jib	3,000kg	at 72°	(1part-line)
13.0m Jib	2,000kg	at 76°	(1part-line)
Single top	3,500kg		(1part-line)

MAX. LIFTING HEIGHT

Boom	31.3m
Jib	44.2m

MAX. WORKING RADIUS

Boom	28.0m
Jib	35.0m

BOOM LENGTH

9.5m - 30.5m

BOOM EXTENSION

21.0m

BOOM EXTENSION SPEED

21.0m/90s

JIB LENGTH

8.0m, 13.0m

MAIN WINCH SINGLE LINE WINDING SPEED

120m/min (4th layer)

MAIN WINCH HOOK SPEED

15.0m/min (8 part-line)

AUXILIARY WINCH SINGLE LINE WINDING SPEED

120m/min (4th layer)

AUXILIARY WINCH HOOK SPEED

120m/min (1 part-line)

BOOM ELEVATION ANGLE

0° - 83°

BOOM ELEVATION SPEED

0° - 83°/45s

SWING ANGLE

360° continue

SWING SPEED

2.6min⁻¹ (rpm)

WIRE ROPE

Main Winch

16mm x 170m (Diameter x Length)
Spin-resistant wire rope

Auxiliary Winch

16mm x 98m (Diameter x Length)
Spin-resistant wire rope

BOOM

4-section hydraulically telescoping boom of hexagonal box construction

(stage 2: sequential; stages 3,4: synchronized)

BOOM EXTENSION

2 double-acting hydraulic cylinders

1 wire rope type telescoping device

JIB

Quick-turn type (2-staged type which stores alongside below the base boom section and extendible from under the boom (with 2nd stage being a pull-out type))

Hydraulic non-stage offset (5° - 45°) type

SINGLE TOP

Single sheave. Mounted on main boom head for single line work.

HOIST

Driven by hydraulic motor and via spur gear reducer. With free-fall device.

Automatic brake (with foot brake for free-fall device)

2 single winches

With flow regulator valve with pressure compensation

BOOM ELEVATION

1 double-acting hydraulic cylinder

With flow regulator valve with pressure compensation

SWING

Hydraulic motor driven planetary gear reducer

Swing bearing

Swing free/lock changeover type

Negative brake

OUTRIGGERS

Fully hydraulic X-type (floats mounted integrally)

Slides and jacks each provided with independent operation device.

Fully extended width 6.3m

Middle extended width 5.9m, 5.0m, 3.6m

Minimum extended width 3.1m

OPERATION METHOD

Hydraulic pilot valve operation

MAX. VERTICAL LOAD CAPACITY OF OUTRIGGER

26.8t

POWER TAKE-OFF

PTO wet multi-plate clutch

HYDRAULIC PUMPS

2 variable piston pumps

2 gear pumps

HYDRAULIC OIL TANK CAPACITY

380 liters

SAFETY DEVICES

Automatic moment limiter (AML)

Swing automatic stop device

Elevation slow down and stop device

Over-winding cutout device

Working area control device

Free-fall interlock device

Outrigger extension width detector

Winch drum lock

Level gauge

Hook safety latch

Hydraulic safety valve

Telescopic counterbalance valve

Elevation counterbalance valve

Power tilt counterbalance valve

Jack pilot check valve

Swing lock

EQUIPMENT

Air-conditioner with dehumidifier

Hydraulic oil temperature indication lamp

Radio

Oil cooler

Visual-type winch drum rotation indicator

Operation pedals

ISO arrangement: for telescoping/auxiliary hoist

TADANO arrangement: for elevating/telescoping

Television (option)