

ROUGH TERRAIN CRANE

TR-350M

JAPANESE SPECIFICATIONS

TR

OUTLINE	SPEC. NO.
5-section Boom, 2-staged Jib X-type Outrigger	TR-350M-3-00102

Control No. JA-01

TR-350M

CRANE SPECIFICATIONS

CRANE CAPACITY

9.5m Boom	35,000kg	at 3.0m	(10part-line)
16.2m Boom	22,500kg	at 4.0m	(7part-line)
22.9m Boom	14,000kg	at 5.5m	(5part-line)
29.6m Boom	10,000kg	at 7.0m	(4part-line)
36.3m Boom	7,000kg	at 8.0m	(4part-line)
8.0m Jib	3,400kg	at 78°	(1part-line)
13.0m Jib	2,200kg	at 77°	(1part-line)
Single top	3,500kg		(1part-line)

MAX.LIFTING HEIGHT

Boom	37.1m
Jib	50.1m

MAX.WORKING RADIUS

Boom	33.0m
Jib	37.6m

BOOM LENGTH

9.5m - 36.3m

BOOM EXTENSION

26.8m

BOOM EXTENSION SPEED

26.8m/113s

JIB LENGTH

8.0m, 13.0m

MAIN WINCH SINGLE LINE WINDING SPEED

126m/min (4th layer)

MAIN WINCH HOOK SPEED

12.6m/min (10 part-line)

AUXILIARY WINCH SINGLE LINE WINDING SPEED

126m/min (4th layer)

AUXILIARY WINCH HOOK SPEED

126m/min (1 part-line)

BOOM ELEVATION ANGLE

0° - 83°

BOOM ELEVATION SPEED

0° - 83°/53s

SWING ANGLE

360° continue

SWING SPEED

2.3rpm

WIRE ROPE

Main Winch

16mm x 200m (Diameter x Length)
Spin-resistant wire rope

Auxiliary Winch

16mm x 110m (Diameter x Length)
Spin-resistant wire rope

BOOM

5-section hydraulically telescoping boom of hexagonal box construction
(stage 2: sequential; stages 3,4,5: synchronized)

BOOM EXTENSION

2 double-acting hydraulic cylinders
2 wire rope type telescoping devices

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))
Triple offset (5°, 25°, 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 6.7m

Middle extended width 6.3m, 5.2m

Minimum extended width 3.8m

OPERATION METHOD

Hydraulic pilot valve operation

MAX. VERTICAL LOAD CAPACITY OF OUTRIGGER

35.0t

POWER TAKE-OFF

PTO wet multi-plate clutch

HYDRAULIC PUMPS

2 variable piston pumps

2 gear pumps

HYDRAULIC OIL TANK CAPACITY

450 liters

SAFETY DEVICES

Automatic moment limiter (AML)

Swing automatic 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

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 hoisting

TADANO arrangement: for elevating/telescoping

Television (option)