



Rezayat Sparrow

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CRANE HIRE AND LIFTING SPECIALISTS



**TADANO TR-600EXL
60 METRIC TONS CAPACITY
HYDRAULIC ROUGH TERRAIN CRANE**

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HYDRAULIC ROUGH TERRAIN CRANE

TR-600EXL

 (Left hand steering)

GENERAL DATA

CRANE CAPACITY	60,000 kg at 3.0 m		
BOOM	5-section, 11.0 m – 42.2 m		
DIMENSION	Overall length	approx.	13,630 mm
	Overall width	approx.	3,315 mm
	Overall height	approx.	3,780 mm
MASS	Gross vehicle mass	approx.	46,500 kg
	-front axle	approx.	23,250 kg
	-rear axle	approx.	23,250 kg
PERFORMANCE	Max. travelling speed	computed	40 km/h
	*Gradeability(tan θ)	computed	57 % (at stall)

* Machine should be operated within the limit of engine crankcase design(30°: MMC 6D16-TUA).

CRANE SPECIFICATIONS

MODEL

TR-600EXL

CAPACITY

60,000 kg at 3.0 m

BOOM

5-section full power partially synchronized telescoping boom of hexagonal box construction with 6 sheaves at boom head.

Extension speed.....31.2 m in 148 s

JIB

2-staged swingaround boom extension. Dual offset (5°/30°) type. Box type top section telescopes from lattice type base section which stores alongside base boom section with single sheave at jib head.

Length.....9.8 m and 17.1 m

SINGLE TOP (AUXILIARY BOOM SHEAVE)

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

ELEVATION

By a double-acting hydraulic cylinder, fitted with holding valve.

Elevation speed.....-1.3° to 80° in 68 s

HOIST – Main winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer.

Equipped with automatic brake (Neutral brake) and counterbalance valve.

Controlled independently of auxiliary winch.

Single line pull.....46.1 kN{4,700kgf}

Single line speed.....140 m/min

(at the 4th layer)

Wire rope.....No-spin type

Diameter X length.....19 mm X 231 m

HOOK BLOCK – 40 t capacity

4 sheaves, swivel type hook with safety latch.

CRANE SPECIFICATIONS

HOIST – Auxiliary winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer.

Equipped with automatic brake (Neutral brake) and counterbalance valve.

Controlled independently of main winch.

Single line pull.....54.9kN{5,600kgf}

Single line speed.....120 m/min (at the 2nd layer)

Wire rope.....No-spin type

Diameter X length.....19 mm X 129 m

HOOK BLOCK 5.6 t capacity

Swivel hook with safety latch for single line use.

SWING

Hydraulic axial piston motor driven through planetary speed reducer.

Equipped with manually locked/released swing brake.

Swing speed.....2.4 min⁻¹{rpm}

HYDRAULIC SYSTEM

Pumps.....2 variable piston pumps for telescoping, elevating and winches. Tandem gear pump for steering, swing and optional equipments.

Control valves.....Multiple valves actuated by hand levers with integral pressure relief valves.

Circuit.....Equipped with air cooled type oil cooler.

Oil pressure appears on AML display for main circuit.

Hydraulic oil tank capacity... approx. 740 liters

Filters.....Return line filter

CRANE CONTROL

By 5 control levers based on ISO standard layout.

CAB

Both crane and drive operations can be performed from one cab mounted on rotating superstructure. One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side, rear and roof.

Operator's 3 way adjustable seat with high back and seat belt.

TADANO Automatic Moment Limiter (Model:AML-L)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload. With working range (load radius and/or boom angle and/or tip height) limit function.

Eight functions are constantly displayed.

Digital liquid crystal display:

Boom angle

Either boom length or potential hook height

Either actual load radius or swing angle

Actual working radius

Actual hook load

Permissible load

Either jib offset angle or number of parts of line of rope

Boom position indicator

Either outrigger position or on-tire indicator

Bar graphical display :

Either moment as percentage or main hydraulic pressure and torque converter oil pressure (Display changes by alternation key)

OUTRIGGERS

Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab.

Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width.

All cylinders fitted with pilot check valves.

Equipped with extension width detector for each outrigger.

Extended width

Fully.....7,200 mm

Middle.....6,700 mm

Middle.....5,500 mm

Minimum.....2,800 mm

Float size (Diameter).....500 mm

COUNTERWEIGHT

Integral with swing frame (contained removable weight)

Mass.....7,600 kg

NOTE : Each crane motion speed is based on unladen conditions.

