ROUGH TERRAIN CRANE
GR-120NL
12 METRIC TON CAPACITY

New Partner for New Century!
SPECIFICATIONS

MAXIMUM CAPACITY
12,000kg at 2.0m

TRAVELLING SPEED (MAX) 6.9 km/h

GRADEABILITY (TAN 7) 46% 

WEIGHT Gross vehicle mass
- front 13,365kg
- rear 6,900kg

MIN. TURNING RADIUS
- 5.5m (2-wheel steering) 3.8m (4-wheel steering) at center of extreme outer tire

ECCM
4-section full length power telescoping boom of box construction

FULLY RETRACTED LENGTH 5.3m
FULLY EXTENDED LENGTH 20.1m
ELEVATION SPEED 18.5m in 52s
- 7.5m in 28s

JIB
2-staged extension type, Triple offset (5°/25°/45°) type Single sheave at jib head, Stored under base boom section, 7.5m and 3.5m

MAIN WINCH
Grooved drum driven by hydraulic axial piston motor through winch speed reducer.
14.7KN (1,500kgf)
124 m/min. (at the 8th layer)

AUXILIARY WINCH
Grooved drum driven by hydraulic axial piston motor through winch speed reducer.
17.7KN (1,600kgf)
106 m/min. (at the 3rd layer)

SWING SPEED
2.4 rpm/90mm

HYDRAULIC SYSTEM
Pumps... Two variable piston pumps for telescoping, e-trolley and winders.
Tandem gear pump for swing, steering and accumulator.
Control valves...
Multiple valves actuated by pilot pressure with integral pressure relief valves.
Circuit...Equipped with air cooled type of cooler.
Oil pressure switch on AML display for main circuit and accumulator.
Hydraulic oil tank capacity...
172 liters
Filters...
Return line filter

TADANO Automatic Moment Limiter
Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions (including swing motions) before overload within working radius or boom angle and/or swing range limit function.

Digital liquid crystal display.
- Either boom angle or crane angle
- Either actual working radius or swing angle
- Actual hook load
- Permissible load
- Either jib offset angle or boom position indicator
- Either outriggers position or on/off indicator

Bar graphical display.
- Either moment as percentage or main hydraulic pressure and accumulator pressure.

OUTRIGGERS
Hydraulically operated H-type outriggers.
Each outrigger controlled simultaneously or independently from the cab. Equipped with sight level gauge.
All outrigger fitted with jack retracted in vehicle width.

ENGINE
Model... MITSUBISHI 4M50-TL22A
Type...4-cylinder turbocharged and after cooled, DOHC, 4 valves in line, direct injection, water cooled diesel engine
Piston displacement... 4,859 cm³
Bore x Stroke... 114mm x 120mm
Max. output... 125kW (170PS) / 5,800 min⁻¹ (rpm)
Max. torque... 453kNm (46.0kgfm) at 1,800 min⁻¹ (rpm)

TRANSMISSION
Full automatic transmission with torque converter

STEERING
Hydraulic power steering controlled by steering wheel.

4 steering modes available:
- 2-wheel front
- 2-wheel rear
- 4-wheel coordinated
- 4-wheel crab

SUSPENSION
Front... Semi-elliptic leaf springs with hydraulic lockout device.
Rear... Semi-elliptic leaf springs with hydraulic lockout device.

TIRES
Front... 275/80R22.5 148/145J, Single X 2
Rear... 275/80R22.5 148/145J, Single X 2

*Some specifications are subject to change.

Continuing technical development requires Tadano to retain the right to make specifications, equipment and price changes without notice.

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