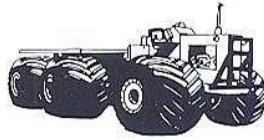


4x4 ROUGHNECK All Terrain—Four Wheel Drive



Vehicle shown with Rolligon Kingstar Geoseismic drill rig and Flo Grip Tires.

The 4x4 Roughneck vehicle is designed to be a versatile and long life unit. Capable of mounting many different types of off-road tire the unit finds great application in the geophysical industry as well as in general utility work.

More Rolligon Roughneck vehicles are at work on the North Slope of Alaska than any other type of Rolligon. The rugged design, heavy duty axles and smooth ride of the unit make it ideal for sustained, harsh environment applications. Arctic packages available.

The vehicle comes standard with 115 h.p. diesel engine, powershift transmission equipped with live P.T.O., comfortable operator station, full set of operation gauges and hydraulic wet disc brakes. The wide rear frame will accept a utility bed, flat cargo deck, geophysical drill rig, ice road drill rig, water tank, fuel tank, seismic cabin or various other frame mounted items.

When equipped with the Rolligon 72 x 68 - 28 tire the unit is completely amphibious. This vehicle is used extensively as a winch support vehicle for rotary ditching operations.

Many different options make the Roughneck a versatile and profitable unit.



Rolligon standard 4 x 4 Roughneck vehicle with Rolligon 72 x 68 - 28 high flotation tires.

ENGINE OPTIONS (All Diesel)

Std: Deere 6359 NA 115 BHP (86 kw) @ 2500 RPM
Opt: Cummins 6B5.9 119 BHP (89 kw) @ 2600 RPM
Opt: Cummins 6BT5.9 152 BHP (114 kw) @ 2600 RPM
Heavy duty air intake system, high capacity cooling with various intake configurations.

TRANSMISSION

Std: Six speed powershift with hi/lo range. Drives steering pump and hydraulic system for winch power. Transmission equipped with oil cooler.
Opt: Full Hydrostatic drive system.

AXLES

Std: Heavy duty 22,000 lb (9,979 kg) planetaries.
Opt: For Rolligon 96 inch wide tire installation 36,000 lb. (16,329 kg) planetaries required.

STEERING

Full hydraulic power steering, dual cylindes. Steering wheel located on centerline of vehicle for ease of driving judgment.
Opt: Joy stick steering control available.
Steering is articulated.

BRAKES

Hydraulic wet disc brakes housed in each end of planetary axle. Enguaged by foot pedal. All four (4) wheels brake.
All brakes completely sealed and water proof.

TIRES AND WHEELS

Buyers Choice:

- Rolligon 72 x 68 - 28 tire. - Amphibious
- Rolligon 72 x 82 - 28 tire. - Amphibious
- Rolligon 72 x 96 - 28 tire. - Amphibious
- Goodyear 66 x 43 - 25 Terra Tire
- Goodyear 67 x 34 - 25 Flo Grip Tire
- Goodyear Rice and Cane Tractor Tire

All Rolligon tires available in 20, 40, or 60 ply strength grades, and features integral cleats molded into tire at curing, not added after cure.

Steel wheels standard.

OPERATOR'S STATION

Located centerline of vehicle, single seat with fold down arm rests. Full set engine gauges, keyed ignition switch and headlight switches.

- Optional R.O.P.S. available.
- Optional canopy top/sun shield available.
- Optional enclosed cabins available.

FRAME

Tubular front and rear frame, 3" x 8" x 0.25" wall (7.6x 20.3 x .63 cm) alloy steel. Front and Rear frame joined through articulation joint. Front axles oscillates under front frame. Frame designed for bolt on mounting of major components.

Steering section reinforced.

REAR THREE POINT HITCH - Optional

Category two (2) three point hitch and hydraulic lift/tilt system. Activated by dual hydraulic cylinders system capable of lifting 5,000 lb. (2258 kg) implements. All components T-1 steel. Ideal for implement use.

REAR POWER TAKE OFF-Opt.-Larger Engine Req.

- Opt: Full hydraulic flow and pressure at vehicle three point hitch, quick disconnects attach.
- Opt: Rolligon heavy duty live P.T.O. box mounted at rear of frame, provides 540 RPM, 170 hp.
- Opt: 1000 RPM P.T.O. Box

ACCESSORIES - Standard

- Dual headlights
- Tire inflation kit
- Tire puncture kit
- Front grill guard
- Wheel lug wrench
- Operation and Maintenance Manual

OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight Std.	12,500	(5670 kg)
Ground Pressure w/72x68-28	1.5 psi	(0.1 kg/cm)
Ground Pressure w/66x43-25	5.1 psi	(0.36 kg/cm)
Ground Pressure Rice & Cane	7.9 psi	(0.55 kg/cm)
Ground Clearance	30 in	(76 cm)
Forward Gradeability	60 %	
Side Gradeability	40%	
Maximum Forward Speed	24 mph	(38 kmph)
Turning Radius	16 ft.	(4.8 m)
Dimensions:		
Length	24 ft.	(7.3 m)
Width, 72x68-28	15 ft.	(4.5 m)
66x43-25	11 ft.	(3.3 m)
Rice & Cane	8 ft.	(2.4 m)
Height, 72x68-28	9.6 ft.	(2.9 m)
Fuel Capacity	70 gal.	(265 l)

For additional please contact:

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Roughneck (4x4) All Terrain-Four Wheel Drive



Vehicle shown with Rolligon Kingstar Geoseismic drill rig and Flo Grip Tires.

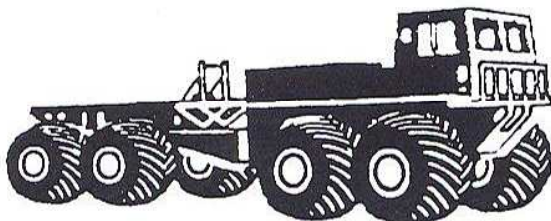
The 4x4 Roughneck vehicle is designed to be a versatile and long life unit. Capable of mounting many different types of off-road tires, the unit finds great application in the geophysical industry as well as in general utility work.

Rolligon has been building Roughnecks for over 30 years. More Rolligon Roughneck vehicles are at work around the world and in the U. S. Gulf Coast than any other type of Rolligon. The rugged heavy duty axles and smooth ride of the unit make it ideal for sustained, harsh environment applications.

The vehicle comes standard with a 152 h.p. diesel engine, powershift transmission with power take off, comfortable operator station, full set of operation gauges and enclosed hydraulic wet disc brakes. The two section chassis articulates and oscillates at the center section. This feature provides stability, visibility and safety for the operator. The wide rear frame will accept a multitude of equipment including a utility bed, flat cargo deck, geophysical drill rig, water tank, fuel tank, or seismic cabin.

When equipped with Rolligon 72 x 68 - 28 tires the unit is completely amphibious. When equipped with Rice and Cane or Flo-Grip tires the vehicle is used extensively as a drill rig

carrier or drilling support vehicle. Many different options make the Roughneck a versatile and profitable unit.



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"GO ANYWHERE ANYTIME"

ENGINE OPTIONS (All Diesel)

Std: Cummins 6BT5.9 152 BHP (114 kw) @2500 RPM
Opt: John Deere 6068T 170 BHP (127 kw) @2500 RPM
Opt: Cummins 6B5.9 119 BHP (89 kw) @2600 RPM
Opt: Cummins 6BTA5.9 174 BHP (130 kw) @2500 RPM
Heavy duty air intake system, high capacity cooling with various intake configurations.
Other engines available on request.

TRANSMISSION

Std: Six speed powershift with hi/lo range. Drives steering pump and hydraulic system for winch power. Transmission equipped with oil cooler.
Opt: Full Hydrostatic drive system.

AXLES

Std: Heavy duty 22,000 lb (9,979 kg) planetaries.
Opt: For Rolligon 96 inch wide tire installation 36,000 lb. (16,329 kg) planetaries required.
Rear Axle: Fixed Mount—Front Axle: Fixed Mount

STEERING

Full hydraulic power steering, dual cylinders. Steering wheel located on centerline for maximum visibility and safety.
Opt: Joy stick steering control available.

Steering is articulated $\pm 40^\circ$ left to right
Oscillation: Frame Center Tube, Oscillation $\pm 20^\circ$

BRAKES

Hydraulic wet disc brakes housed in each end of planetary axle. Engaged by foot pedal. All four (4) wheels brake.

All brakes completely sealed and water proof.

TIRES AND WHEELS

Buyers Choice:

Firestone 28L x 26
Goodyear Rice and Cane Tractor Tire
Goodyear 67 x 34-25 Flo Grip Tire
Goodyear 66 x 43-25 Terra Tire
Rolligon 72 x 68-28 tire—Extremely low ground pressure plus amphibious capabilities

All Rolligon tires available in 20, 40, or 60 ply strength grades, and features integral cleats molded into tire at curing.

OPERATOR'S STATION - Center Mount

Located centerline of vehicle, single seat with fold down arm rests. Full set gauges, keyed ignition switch and headlight switches. Equipped with fold down and telescoping steering column.

Optional R.O.P.S. available.
Optional canopy top/sun shield available.
Optional enclosed cabins available.

FRAME

Tubular front and rear frame, 3" x 8" x 0.25" wall (7.6~ 20.3 cm) alloy steel. Front and Rear frame joined through articulation joint. Roll pivot section provides constant, equal loading of all four tires. Frame designed for bolt on mounting of major components.

Steering section reinforced.

VEHICLE OPTIONS

- Category II three point hitch and hydraulic lift/tilt system
- Rear power take off 540 or 1000 RPM gear box
- Roll over protection system
- Fully enclosed cabin, air conditioned and heated
- Arctic winterization package
- Front or rear winches
- Murphy safety engine shut-down system

ACCESSORIES - Standard

Dual headlights
Tire puncture kit
Front grill guard
Wheel lug wrench
Telescoping steering column
Seat belts
Operation and maintenance manual

OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight Std.	10,500	(4773 kg)
Ground Pressure w/172x68-28	1.5 psi	(0.1 kg/cm)
Ground Pressure w/66x43-25	5.1 psi	(0.36 kg/cm)
Ground Pressure Rice & Cane	7.9 psi	(0.55 kg/cm)
Ground Clearance	30 in	(76 cm)
Forward Gradeability	60%	
Side Gradeability	40%	
Maximum Forward Speed	24 mph	(38 kmph)
Turning Radius	16 ft.	(4.8 m)
Dimensions:		
Length	24 ft.	(7.3 m)
Width 72x68-28	15 ft.	(4.5 m)
66x43-25	11 ft.	(3.3 m)
Rice & Cane	8 ft.	(2.4 m)
Height 72x68-28	9.6 ft.	(2.9 m)
Fuel Capacity	55-80 gal.	

For additional information please contact:

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