

# 6x6 CHALLENGER

ALL TERRAIN—ALL WHEEL DRIVE TRUCK

**ROLLIGON CORPORATION**

Manufacturer of Special Ground Equipment



## GENERAL DESCRIPTION

The Rolligon 6x6 Challenger vehicle is an all wheel drive, low ground pressure truck designed for operation in areas where conventional trucks cannot operate. Equipped with the Rolligon 72x68-28 low pressure tire the truck is widely used in marsh, swamp, beach front, desert and arctic regions.

## ENGINE OPTIONS

Standard—Cummins-6CT8.3-215 HP  
 Optional—Caterpillar-3208-210 HP  
 Optional—Detroit Diesel-6V53-210 HP

## TRANSMISSION

Funk-2000 series Full Power Shift six (6) speed

Forward	1	2	3	4	5	6
MPH	3	5	6	9	13	22
Km/H	4.8	8.0	9.6	14.5	21	35.5

Optional: Clark 28000 series

For complete specifications, pricing and additional information please contact:

## AXLES-DIFFERENTIAL

Rockwell SPRC-1356 planetary axles with Detroit no spin  
 Optional: Clark BD-45-50 planetary axles

## TIRES AND WHEELS

Rolligon 72x68-28 V4 Tubeless Radial Tires  
 Rated Strength: 40 Ply.  
 Optional: Goodyear Super Terra Grip 66x43-25 10PR tubeless.  
 Steel wheels installed in all tires.

## CAPACITIES-PERFORMANCE

Vehicle Weight	21,000 lbs.	9,525 Kg.
Payload	30,000 lbs.	13,608 Kg.
G.V.W.	51,000 lbs.	23,133 Kg.
Ground Pressure Full Load	3.3 psi	0.2 Kg/cm <sup>2</sup>
Max Speed	28 MPH	45 Km/H
Ground Clearance	28 in	711 mm
Gradeability	60% For	45% side

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# ROLLIGON CORPORATION

MANUFACTURER OF SPECIAL GROUND TRANSPORTATION EQUIPMENT

14 x 14 KHAN TRANSPORTER



The Rolligon 14x14 Khan vehicle is designed and built for extreme conditions where conventional trucks are incapable of operating. The truck features twin diesel engines, all wheel drive and Rolligon 72x68-28 V6 tires. Drill rig moving in desert sand, swampy marsh and frozen arctic regions is a primary application for this versatile, heavy duty vehicle.

## ENGINES, QTY: TWO (2)

Cummins-NTA 855C. 360 HP  
Optional. Caterpillar 3406 TA 375 HP  
Optional. Detroit Diesel 8V71T 362 HP

## TRANSMISSIONS, QTY: TWO (2)

Allison CLBT 754. Powershift

## AXLES-DIFFERENTIAL

Rockwell SPRC-1357 & EPRC 1357  
Optional: Clark BD-90 Series

## CAPACITIES-PERFORMANCE

Vehicle Weight	83,000 lbs.	37,648 Kg.
Payload	120,000 lbs.	54,432 Kg.
G.V.W.	203,000 lbs.	92,080 Kg.
Max Speed	28 MPH	45 Km/H
Ground Pressure Full Load	5.6 psi	0.4 Kg/cm <sup>2</sup>
Trailer Deck Length	54 ft	16.5 m
Trailer Deck Width	9 ft	2.7 m
Fording Depth	5.5 ft	1.67 m
Gradeability	60% For	45% side

This vehicle is also available in a 16x16 version with 150,000 lbs. (68,040 Kg) payload capacity.

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# 6x6 CHALLENGER



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## All Terrain—All Wheel Drive Truck

Vehicle pictured may feature optional equipment.



Rolligon 6 x 6 Challenger vehicle is a high traction, medium capacity vehicle designed for low ground pressure applications where limited amphibious capabilities are desirable. The unit is standard equipped with forward operator's cabin, 210 hp (158 kw) diesel engine, planetary axles, walking beam suspension on rear frame and power hydraulic articulated steering. Capable of transporting up to 30,000 lbs (13,608 kg) of cargo over soft sand, marsh and swampy terrain, the 6 x 6 Challenger is totally amphibious with up to 10,000 lbs (4,536 kg) of rear deck cargo.

The truck is designed for wet/dry season tire interchangeability allowing high utilization of the vehicle regardless of the weather conditions. Unstable terrain requires the Rolligon 72 x 68 - 28 tire, while dryer, firmer terrain may support the 66 x 43 - 25 Terra Tire.

For dust conditions Rolligon offers heavy duty air intake systems equipped with precleaners and separators. The operators cabin can be pressurized as well as fully winterized for arctic environments. Special Rolligon Winterization packages are available for this medium duty unit. Several configurations of cargo decks are available as well as optional ancillary equipment, i.e., gen poles, hydraulic cranes, rear deck winches, etc.

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## ENGINE OPTIONS (All Diesel)

Std: Cummins 6CT8.3 Turbo 210 BHP (157 kw) @ 2100 RPM  
Opt: Caterpillar 3208 NA 210 BHP (157 kw) @ 2100 RPM  
Air Compressor standard. Heavy duty cooling system standard.  
Arctic equipment available. Heavy duty air intake with pre-cleaner - Std.

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## TRANSMISSION

Full straight powershift six speed transmission electric, air or hydraulic shift.  
High capacity oil cooling system is standard.  
Torque converter lock up system is optional.  
Funk system standard. Clark, Allison - Optional.

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## AXLES

Std: Clark BD-45-50 series planetary axles.  
Opt: Rockwell SPRC 1356 series planetary axles.  
All axles feature no spin.

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## STEERING

Full hydraulic power steering, dual cylinders. Steering wheel located on left side of vehicle cabin. Optional joy stick control steering available.  
Steering by frame articulation

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## BRAKES

Std: Drum and shoe air activated, all wheels.  
Opt: Internal wet disc brake system, all wheels.

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## TIRES AND WHEELS

Std: Rolligon 72 x 68 - 28 V4 tire.  
Opt: Rolligon 72 x 82 - 28 V6 tire.  
Opt: Goodyear 66 x 43 - 25 Terra Tire.  
Rolligon tire recommended for wet season, desert operations where conventional type tire not successful. For dryer, hard ground, and limited on highway operations the Terra tire is recommended.  
All steel wheels standard on this truck.

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## OPERATOR'S STATION

Completely enclosed operator cabin, air-conditioned and heated. Seating for two (2) men in individual seats with arm rests. Operator sits to left side of cabin. Full compliment of monitor gauges mounted in console. Keyed ignition switch. All seats feature fore/aft adjustment. Cabin can be fully winterized for arctic operations. Optional four (4) and six (6) man cabs available. Optional open platform operator station available with R.O.P.S., F.O.P.S or standard enclosure.

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## FRAME

Dual 12 inch (30.5 cm) T-1 steel channel front and rear. All welded assembly with roll/pivot section at articulation joint. Heavy T-1 steel plate steering trunions with lubricated 3 inch (7.6 cm) articulation pins.

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## CARGO DECK - Standard

All steel structure and substructure.  
Steel surface with tail roller. Optional wood surface available.  
Dimensions: Length: 18 ft. (5.4 m)  
Width: 8 ft. (2.4 m)  
Deck features stake pockets which do not protrude above deck level. Guide pins at rear for winching. Deck can be parallel to rear frame or sloped at 5 degree angle front to rear at buyers option.  
Option: 30,000 lb. (13,608 kg) rear deck winch.  
Option: 30,000 lb. (13,608 kg) gen pole set.  
Option: 30,000 lb. (13,608 kg) hydraulic crane.

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## ACCESSORIES - Standard

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

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## OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight (Std)	32,000 lbs.	( 14,515 kg)
Ground Pressure w/72x68-28	3.1 psi	(0.21 kg/cm <sup>2</sup> )
Maximum Land Payload	30,000 lbs	( 13,608 kg)
Ground Pressure w/max load	4.5 psi	(0.31 kg/cm <sup>2</sup> )
Ground Clearance	30 in	( 76 cm)
Forward Gradeability	60 %	
Side Gradeability	40%	
Maximum Forward Speed	24 mph	(38 kmph)
Turning Radius	50 ft.	( 15.2 m)
Dimensions:		
Length	34 ft.	( 10.3 m)
Width, 72x68-28	15 ft.	( 4.5 m)
66x43-25	11 ft.	( 3.3 m)
Height	12.6 ft.	( 3.8 m)
Fuel Capacity	100 gal.	(378.5 l)

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# 8x8 BRUTE I

## HIGH FLOTATION - ALL TERRAIN

## ALL WHEEL DRIVE TRUCK

Vehicle pictured may feature optional equipment.



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Manufacturer of Special Ground Equipment



The Rolligon 8 x 8 Brute I vehicle is a high traction, heavy capacity unit designed for extremely low ground pressure applications where a high degree of amphibious capabilities is desirable. The unit is equipped with forward operator's cabin, 250 hp (186 kw) diesel engine, planetary axles, walking beam suspension on front and rear frame and power hydraulic articulated steering. Capable of transporting up to 50,000 lbs (22,680 kg) of cargo over soft sand, marshy and swampy terrain, the 8 x 8 Brute I is also totally amphibious with up to 15,000 lbs (6,804 kg) of rear deck cargo, when equipped with the Rolligon tire.

The truck is designed for wet/dry season tire interchangeability allowing high utilization of the vehicle regardless of the weather conditions. Soft, severe terrain requires the Rolligon 72 x 68 - 28 tire, while dryer terrain may support the 66 x 43 - 25 Terra Tire.

For high dust conditions Rolligon offers heavy duty air intake systems equipped with precleaners and separators. The operators cabin can be pressurized and fully winterized for arctic environments and comes standard air-conditioned and heated. Full winterization packages are available for this heavy duty, high capacity truck.

Desert operations are ideal for the 8 x 8 Brute I.

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## ENGINE OPTIONS (All Diesel)

Std: Caterpillar 3208T 250 BHP (157 kw) @ 2600 RPM  
Opt: Cummins 6CTA8.3 235 BHP (187 kw) @ 2500 RPM  
Opt: Cummins NT855P 280 BHP (157 kw) @ 2100 RPM  
Air compressor, heavy cooling system - Std.  
Heavy duty air intake with precleaner - Std.

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## TRANSMISSION

Full powershift eight (8) speed transmission with torque converter lock up. Transmission is integral mount. Drives all power systems and hydraulic systems for vehicle. Features high capacity oil cooling system.

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## AXLES

Std: Clark BD-50-60 series planetary axles.  
Opt: Rockwell SPRC 1356 series planetary axles.  
Axles suspended by heavy duty walking beams.  
Optional air suspension available.

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## STEERING

Full hydraulic power steering, dual cylinders. Steering wheel located to left side of vehicle cabin. T-1 steel steering joint consists of heavy members all solid welded and treated.  
Articulated steering.

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## BRAKES

Std: Drum and shoe air activated, all wheels.  
Opt: Internal wet disc brakes, fully enclosed, all wheels.

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## TIRES AND WHEELS

Std: Rolligon 72 x 68 - 28 V6 tire.  
Opt: Rolligon 72 x 82 - 28 V6 tire.  
Opt: Goodyear 66 x 43 - 25 Terra Tire.  
Rolligon tire required in all amphibious operations. (Not recommended for extended road use) Rolligon tire recommended for wet season, soft desert operations where conventional type tire not successful. For dryer, hard ground operations or extended road/highway use, the Terra tire is recommended.  
All steel wheels standard on this truck.

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## OPERATOR'S STATION

Completely enclosed operator cabin, air-condition and heated. Seating for two (2) men in individual seats with arm rests. Operator sits to left side of cabin. Full compliment of monitor gauges mounted in console. Optional four (4), six (6) and eight (8) man cabins available.

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## FRAME

Dual 12 inch (230.5 cm) T-1 steel channel front and rear. All welded assembly with roll/pivot section at articulation joint. Heavy T-1 steel plate steering trunions with lubricated 3 inch (7.6 cm) articulation pins. Artic rated.

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## CARGO DECK - Standard

All steel structure and substructure.  
Steel surface with tail roller and steel skids.  
Optional wood surface available with steel skids.  
Dimensions: Length: 24 ft. (7.3 m)  
Width: 8 ft. (2.4 m)

Deck features stake pockets which do not protrude above deck level. Guide pins at rear for winching. Deck can be parallel to rear frame or sloped at 5 degree angle front to rear at buyers option.

Option: 60,000 lb. (27,216 kg) rear deck winch.  
Option: 50,000 lb. (22,680 kg) gen pole set.  
Option: 35,000 lb. (15,876 kg) hydraulic crane.

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## ACCESSORIES - Standard

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

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## OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight (Std)	40,500 lbs.	( 18.370 kg)
Ground Pressure w/72x68-28	2.5 psi	(0.17 kg/cm <sup>2</sup> )
Maximum Land Payload	50,000 lbs	(22,680 kg)
Ground Pressure w/max load	4.5 psi	(0.32 kg/cm <sup>2</sup> )
Ground Clearance	30 in	( 76 cm)
Forward Gradeability	60 %	
Side Gradeability	40%	
Maximum Forward Speed	24 mph	(38 kmph)
Turning Radius	50 ft.	( 15.2 m)
Dimensions:		
Length	36 ft.	( 10.9 m)
Width, 72x68-28	15 ft.	( 4.5 m)
66x43-25	11 ft.	( 3.3 m)
Height	12.6 ft.	( 3.8 m)
Fuel Capacity: total capacity	140 gal.	( 530 l)

All specifications per standard unit.

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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.

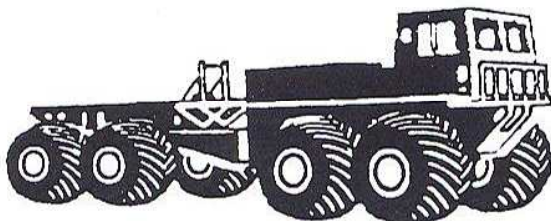
The 4x4 Roughneck vehicle is designed to be a versatile and long life unit. Capable of mounting many different types of off-road tires, the unit finds great application in the geophysical industry as well as in general utility work.

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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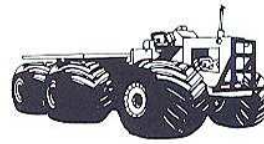
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**"GO ANYWHERE ANYTIME"**

# 8x8 SUPER BRUTE

## HIGH CAPACITY - ALL WHEEL DRIVE TRUCK

Vehicle pictured may feature optional equipment.



The Rolligon 8 x 8 Super Brute vehicle is a high traction, heavy capacity unit designed for off/limited on road applications where high carrying capacities are required. The standard unit is equipped with forward mounted operator's cabin, 650 hp (485 kw) diesel engine, heavy planetary axles, walking beam suspension on front and rear frame and power hydraulic articulated steering. Capable of transporting up to 85000 lbs (38,556 kg) of cargo over severe terrain, the 8 x 8 Super Brute is well suited for heavy duty oil field and similar applications.

The truck comes standard with the Goodyear/Firestone 73 x 44 - 32 "Terra Tire" featuring deep, aggressive cleats for high traction requirements. Capable of speeds of up to 35 mph (56.3 kmph) the truck is ideal for field to road back to field operations. Heavy air intake and cleaning systems, torque converter lock up, high capacity engine cooling combined with healthy horsepower allowances enable the truck to operate in multiple environments efficiently and profitably. The operators cabin can be pressurized and fully winterized for arctic environments, and comes standard air-conditioned and heated.

Special Rolligon Winterization packages available for this heavy duty unit making it ideal for arctic and similar environments. A variety of compatible trailers is also available with this unit.



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## ENGINE OPTIONS (All Diesel)

Std: Cummins NTAA 19C650 650 BHP (485 kw) @ 2100 RPM  
Opt: Caterpillar 3412TT 650 BHP (485 kw) @ 2100 RPM  
Equipped with air compressor system and heavy cooling system. Arctic equipment available.

Heavy duty air intake with precleaner - Std.

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## TRANSMISSION

Full powershift eight (8) speed transmission with torque converter lock up. Transmission is integral mount. Drives all power systems and hydraulic systems for vehicle.

High capacity oil cooling system is standard.

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## AXLES

Std: Clark BD-90 series planetary axles.

Opt: Rockwell SPRC 1736 series planetary axles.

Both equipped with No-spin feature

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## STEERING

Full hydraulic power steering, dual cylinders. T-1 steel steering joint consists of heavy members all solid welded and treated.

Articulated steering.

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## BRAKES

Std: Drum and shoe air activated, all wheels.

Opt: Internal wet disc brakes, fully enclosed and protected, all wheels.

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## TIRES AND WHEELS

Std: Goodyear 73 x 44 - 32 20 ply Terra Tire.

Opt: Firestone 73 x 44 - 32 20 ply Terra Tire.

Terra Tire operation recommended at 30 psi (2.1 kg/cm<sup>2</sup>) air inflation pressure at 30 mph (48 kmph). Travel speed must be adjusted for terrain/operation conditions. Tire recommended for limited on road use.

All steel wheels standard on this truck.

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## OPERATOR'S STATION

Completely enclosed operator cabin, air-condition and heated. Seating for four (4) men in individual seats with arm rests. Operator sits to left side of cabin. Full compliment of monitor gauges mounted in console. Keyed ignition switch. All seats feature fore/aft adjustment

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## FRAME

Dual bent T-1 steel plate channels form front and rear frames. All welded assembly with roll/pivot section at articulation joint. Heavy T-1 steel plate steering trunions with lubricated 4 in O.D. (10.16 cm) articulation pins.

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## CARGO DECK - Standard

All steel structure and substructure.

Steel surface with tail roller. Optional wood surface available.

Steel skid rails standard

Dimensions: Length: 30 ft. (9.2 m)  
Width: 9 ft. (2.7 m)

Deck features stake pockets which do not protrude above deck level. Guide pins at rear for winching. Deck mounted on rear frame with 5 degree slop to rear of vehicle.

WINCH: 100,000 lb. (45,360 kg) Hydraulic deck winch.

Option: 60,000 lb. (27,216 kg) gen pole set.

Option: 35,000 lb. (15,876 kg) hydraulic crane.

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## ACCESSORIES - Standard

Dual headlights

Tire inflation kit

Tire puncture kit

Front grill guard

Wheel lug wrench

Operation and Maintenance Manual

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## OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight (Std)	84,000 lbs.	( 38.102 kg)
Ground Pressure No Load	10.5 psi	(0.73 kg/cm <sup>2</sup> )
Maximum Land Payload	85,000 lbs	(38,556 kg)
Ground Pressure w/max load	24.5 psi	(1.68 kg/cm <sup>2</sup> )
Ground Clearance	30 in	( 76 cm)
Forward Gradeability	60 %	
Side Gradeability	40%	
Maximum Forward Speed	35 mph	(56 kmph)
Turning Radius	60 ft.	( 18.2 m)
Dimensions:		
Length	47 ft.	( 14.3 m)
Width	11 ft.	( 3.4 m)
Height	12 ft.	( 3.6 m)
Ground to Cargo Deck	6.5 ft.	( 1.9 m)
Fuel Capacity: total capacity	360 gal.	( 1363 l)

All specifications per standard unit.

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