Rolligon's model 4450 vehicle is designed for light duty application requiring carrying capacities up to 4,000 lbs. (1814 kg). The unit can be ordered with a small three point hitch and live P.T.O. Box at the rear frame for light implement use. The Rolligon 40 x 50 - 12 tire comes standard on the unit with an optional 54 x 68 - 18 Rolligon Tire for extremely low ground pressure applications. Higher ground pressure applications allow the use of small "Terra Tires".

The 4450 is full time four wheel drive (4x4) and is amphibious with Rolligon tires. The vehicle is easy to operate and maintain and can be ordered with full hydrostatic drive for low speed operations. This versatile, small vehicle is ideal for pipeline construction support, dredging and dragline support, a fule hauler, personnel carrier, general utility vehicle and general equipment support unit.
ENGINE OPTIONS (All Diesel)

Std: Cummins 4B3.9  65 BHP (49 kw) @ 2500 RPM
Opt: Cummins 4BT3.9  97 BHP (73 kw) @ 2500 RPM
Opt: Deere 3164 NA  52 BHP (39 kw) @ 2500 RPM

Heavy duty cooling system is standard.
Air cooled diesel engines also available.

FRAME

Six inch (15 cm) T-1 channel with articulation steering section integral to frame. Roll-pivot section allows independent front/rear frame roll to 28 degrees left or right. Stops prevent excessive roll.
All frame attachments bolt in place.

TRANSMISSION

Std: Manual, four (4) speed forward, one (1) speed reverse.
Heavy duty clutch, Rollign transfer case. Ratio - 1:1
Opt: Full Hydrostatic drive.

AXLES

Std: Dana 70 series bolted to frame member.
Opt: Dana 70 HD series bolted to frame member.
(70 HD required with Rollign 54 x 68 - 18 tires.

STEERING

Full hydraulic power steering, single cylinder. Steering wheel on center line of vehicle, frames articulate at pivot section.
Opt: Joy stick steering on operator's chair.

REAR CARGO DECK - Standard

All aluminum construction with stake pockets.
Dimensions: Length: 5 ft. 0 in. (1.52 m)
Width: 6 ft. 0 in. (1.82 m)
Assembly bolted to rear frame, houses fuel tank.
Fuel capacity: 20 U.S. Gallons (75 L)

FRONT WINCH

P.T.O. driven from transmission.
Capacity: 8,000 lbs. (3628 kg).
Complete with 100 ft. (30 m) steel line, hook and tail chain.
Operated from driver seat.

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 ________ 4,500 lbs. (2041 kg)
Payload, Land ________ 4,000 lbs. (1814 kg)
Payload Amphibious ________ 1,500 lbs. (680 kg)
Ground Clearance, 40 x 50-12 ________ 20 in. (51 cm)
Ground Clearance 54 x 68-18 ________ 27 in. (68 cm)
Forward Gradeability ________ 60 %
Side Gradeability ________ 40%
Maximum Forward Speed ________ 24 mph (38 kmph)
Turning Radius ________ 20 ft. ( 6 m)
Dimensions:
Length ________ 14 ft. ( 4.2 m)
Width, 40 x 50-12 ________ 10 ft. ( 3.0 m)
54 x 68-18 ________ 13 ft. ( 3.9 m)
Height, 40 x 50-12 ________ 7 ft. ( 2.1 m)
54 x 68-18 ________ 8 ft. ( 2.4 m)
Fuel Capacity ________ 20 gal. ( 75 l)

OPERATOR'S STATION

Located centerline of vehicle, single seat with fold down arm rests. Full set engine gauges, keyed ignition switch and headlight switches. Designed for operator comfort and safety. Seat mounted on aluminum platform.

For additional please contact:
ROLLIGON CORPORATION
10635 BRIGHTON LANE
STAFFORD, TEXAS 77477 U.S.A.
TELEPHONE: (713) 485-1140
FAX: (713) 485-1145, TELEX: 79-0515
Rolligon's 4x4 Hydrodrive Roughneck Tractor is a full hydrostatic, four wheel drive (4x4) vehicle designed for low and extremely low ground pressure applications. The unit features full flow hydraulic power take off outlets at the rear frame which support a three point hitch and hydraulic lift/lift system available in SAE category two or three class. The hydrostatic drive system is comprised of high pressure, high flow pumps and motors capable of delivering up to 120 gallons (454 l) of fluid per minute at up to 5,000 psi for heavy duty implement use. The unit is capable of travel speeds ranging between 5 feet (1.5 m) per minute and 24 miles per hour (38 km/h).

Operator comfort and safety are paramount in the design of this unit, resulting in more efficient and profitable operations. The operator seat swivels 320 degrees as do all major vehicle controls: steering, three point hitch lift/lift, and forward and reverse direction and speed control. These features allow the operator to drive the unit forward or reverse in maximum comfort. Steering is accomplished through joy stick control, a much more desirable system over the conventional steering wheel. A full range of hydraulic implements are available: brush cutters, mowers, rotary ditchers, etc.
ENGINE OPTIONS (All Diesel)

Std: Caterpillar 3208 NA, 210 BHP (157 kw) @ 2800 RPM
Opt: Caterpillar 3208 T, 250 BHP (187 kw) @ 2800 RPM
Opt: Cummins 6CT8.3, 210 BHP (157 kw) @ 2500 RPM
Opt: Cummins 6CT8.3, 235 BHP (176 kw) @ 2500 RPM
Extremely heavy duty cooling system standard.

TRANSMISSION

Full hydrostatic four speed transmission driven by hydraulic pump powered from engine mounted triple pump drive. One pump drive powers traction drive, second pump drive powers P.T.O. implement drive, third powers auxiliary systems.

AXLES

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

STEERING

Full hydraulic power steering, dual cylinders. Steering joy stick control mounted on operator's chair arm rest, seat and control swivel.
Unit easily steers forward and reverse direction.

BRAKES

Hydraulic dynamic brakes provided by vehicle hydraulic traction drive system.
System identical for forward and reverse.

TIRES AND WHEELS

Std: Rolligon 72 x 68 - 28 V2 cleated rubber tires. 20 ply strength grade with integral cleats.
Opt: Rolligon 72 x 82 - 28 (Standard axle)
Opt: Rolligon 72 x 96 - 28 (Requires Heavy axle)
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.
All steel wheel and steel keeper ring assemblies standard equipment for all tire sizes.

OPERATOR'S STATION

Located centerline of vehicle, single seat with fold down arm rests. Full set engine gauges, keyed ignition switch and headlight switches. Station protected by R.O.P.S. with slide in/out lexan glasses on front, rear and right side. Operator seat and controls swivel 320 deg.

FRAME

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

REAR THREE POINT HITCH - Standard

At rear of rear frame vehicle features an S.A.E. category two (2) three point hitch and hydraulic lift/lift system. Activated by dual hydraulic cylinders system capable of lifting 5,000 lb (2,268 kg) implements. All components T-1 steel.

POWER TAKE OFF

Std: 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
Remote Mounted Oil Cooler
Tire inflation kit
90 Gallon (340 l) Hyd. Tank
Tire puncture kit
Removable Intake Screens
Front grill guard
Precleaner Air Intake Sys.
Wheel lug wrench
Operation and Maintenance Manual

OPERATION CHARACTERISTICS-Standard Vehicle

Empty Vehicle Weight (Std) 17,500 lbs.  (7938 kg)
Ground Pressure w/72x68-28 1.5 psi (0.1 kg/cm)
Ground Pressure w/72x82-28 1.1 psi (0.07 kg/cm)
Ground Pressure w/72x96-28 0.9 psi (0.06 kg/cm)
Ground Clearance 30 in (76 cm)
Forward Gradeability 60 %
Side Gradeability 40 %
Maximum Forward Speed 24 mph (38 km/h)
Turning Radius 16 ft. (4.8 m)

Dimensions:
Length 21 ft. (6.4 m)
Width, 72x68-28 15 ft. (4.5 m)
72x82-18 17 ft. (5.2 m)
72x96-28 19 ft. (5.8 m)
Height 12 ft. (3.6 m)
Fuel Capacity 120 gal. (454 l)

For additional information please contact:

ROLLIGON CORPORATION
10635 BRIGHTON LANE
STAFFORD, TEXAS 77477 U.S.A.
TELEPHONE: (281) 495-1140
FAX: (281) 495-1145
INTERNET: www.rolligon.com
Model RA-15 (4x4)
All Terrain-Four Wheel Drive

The 4x4 RA-15 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.

More Rolligon RA-15 vehicles are at work on the North Slope of Alaska than any other type of Rolligon. The rugged frame design and smooth ride of the unit make it ideal for sustained, harsh environment applications. Arctic cabs and wintertization packages are available.

The vehicle comes standard equipped with a 152 h.p. diesel engine, powershift transmission with Power Take-Off, comfortable operator station, and heavy duty axles with enclosed hydraulic wet disc brakes. The wide rear frame will accept a utility bed, flat cargo deck, geophysical drill rig, geophone cage, water tank, fuel tank, seismic cabin or other frame mounted equipment. The RA-15 vehicle is used extensively as a seismic drill rig carrier, water tank support unit, or derrick/digger carrier, for the utility industry.

When equipped with the Rolligon 72 X 68-28 tire the unit is completely amphibious. This and the other time proven features make the Rolligon RA-15 model the choice for safe, comfortable, and profitable off-highway transportation.

Rolligon standard 4 x 4 RA-15 vehicle with Rolligon 72 x 68 - 28 high flotation tires.

"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 685.9 119 BHP (89 kW) @2600 RPM
Opt: Cummins 6BTAS.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. Drives steering pump and hydraulic system for accessories. Transmission equipped with oil cooler.
Opt: Full Hydrostatic drive system.
Mechanical Transmission hi/lo range

AXLES

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

STEERING

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

BRAKES

Hydraulic enclosed 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.
Parking Brake: Standard

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 - Forward Mount

Located centerline of vehicle, single seat with fold down arm rests. Full set gauges, keyless 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 0.5” heavy wall (7.6–20.3 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.

VEHICLE OPTIONS

Category II three point hitch (5000 #) with hydraulic lift/lift system
Front stabilizer blade
Arctic winterization packages
Roll-over protection system
Fully enclosed cabin with air conditioning and heat
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.
Ground Pressure w/172x68-26
Ground Pressure w/66x43-25
Ground Pressure Rice & Cane
Ground Clearance
Forward Gradeability
Side Gradeability
Maximum Forward Speed
Turning Radius
Dimensions:
Length
Width
Height
Fuel Capacity

For additional information, please contact:

ROLLIGON CORPORATION
10635 BRIGHTON LANE
STAFFORD, TEXAS 77477 U.S.A.
TELEPHONE: (281) 495-1140
FAX: (281) 495-1145
Internet: www.rolligon.com
Model 4460

Vehicle pictured may feature optional equipment.

The Model 4460 is a rugged and versatile 4-wheel drive all-terrain work vehicle. The Rolligon 4460 is designed to transport 5 ton payloads in remote, rough and difficult terrain areas.

Features

- Four 54x68-18 Rolligon Tires
- Center-Frame Articulation Steering
- Amphibious Calculated Load
- Low Center of Gravity
- Ease of Operation & Maintenance
- Standard Heavy-Duty Components

For additional information please contact:

Rolligon Corporation
10635 Brighton Lane
Stafford, Texas 77477 U.S.A.
Telephone: (281) 495-1140
Fax: (281) 495-1145
Internet: www.rolligon.com
Engine
Cummins 6-Cylinder Diesel producing 116 hp @ 2500 rpm. Geared by a 4-speed Manual Transmission with 12" Dry Clutch. Forward gear ratio’s (6.32/3.99/1.89/1:1) 1-Speed Reverse gear ratio (7.44:1). Dry Type Air Cleaner, Oil and Fuel Filters, 12-volt starter, battery and 12-volt 61 amp alternator. Radiator and Guard. Exhaust Muffler and Stack Foot Throttle, Hand Throttle, 35 Gallon Fuel Tank.

Drive Line
All wheels powered. Spicer 1350 Universal Joints from power plant. Rolligon Transfer Case, 2.64:1 ratio, self oiling quadruple roller chain. Two Rockwell type L-155 Axles, 18,500 lb. Rating, 6.17 ratio, with "no-spin" differentials & 10 stud hubs with 11-1/4" B.C. Steel Wheels with welded bolting flange.

Frame
Front frame on one axle, rear frame on one axle, coupled by articulated joint. Welded alloy steel construction with dual 6" channels. Integral welded mounts for assembly of components.

Articulated Joint
Welded alloy steel construction. Upper and lower 1-1/2" thick gudgeons welded to pivot section. Upper and lower trunnion pairs welded to heavy front frame end plate. Pair 2" dia. tool steel pivot pins mounted in self-aligning ball bushings.

Steering
32" maximum steering angle left or right from center. Full hydraulic power steering. Hydraulic pump driven by power plant. Two heavy duty steering cylinders.

Wheels
Welded and machined steel wheels. Each wheel with 54" diameter by 68" wide lugged Rolligon Tire mounted onto wheel end flanges with aluminum Tire Keeper Rings. Tire inflatable to 6 psi. from engine exhaust by inflation hose.

Cargo Deck
All welded steel structure bolted to rear frame.

Brakes
Disc brake on front axle drive shaft hydraulically operated by foot pedal. Drum brake on transmission output shaft mechanically operated by hand lever with ratchet.

Front Winch
10,000 lb. capacity. Mechanically driven.

Operator Platform
Operator platform with aluminum floor plate and welded steel structure. One operator seat.

Instruments
Dial Instruments with lights: Ammeter, Oil Pressure, Water Temperature, Fuel Quantity, Hourmeter & Ignition Key Switch.

Standard Accessories

Optional Equipment
10,000 lb. hydraulic driven Rear Cargo Deck Winch. Front A-Frame, Rear A-Frame, Cargo Deck Cable Roll, Trailer Fifth Wheel, Arctic and Standard Enclosed Cabs, Brush Guard, Canopy Top, Front Tow Hook

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Maximum Payload on Land</td>
<td>10,000 lbs.</td>
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<tr>
<td>Tire Displacement (4 tires @ 5000# each)</td>
<td>20,000 lbs.</td>
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<td>Vehicle Weight, no payload, no operator, no fuel</td>
<td>8,000 lbs.</td>
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<td>Minimum Ground Clearance at Pivot</td>
<td>25 inches</td>
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<tr>
<td>Maximum Forward Gradeability</td>
<td>60%</td>
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<tr>
<td>Maximum Side Gradeability</td>
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<td>Maximum Angle of Approach</td>
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<td>Maximum Angle of Departure</td>
<td>80 degrees</td>
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<tr>
<td>Minimum Turning Radius</td>
<td>22 feet</td>
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<tr>
<td>Maximum Forward Speed</td>
<td>24 MPH on land</td>
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