

 **HYDREMA**



**Hydrema**  
**912G Series**

**ARTICULATED DUMPTRUCKS**

# Innovative earthmoving since 1959

Since 1959 Hydrema has developed, manufactured, sold and serviced high-tech construction machines. Efficient, innovative and high-quality machines. Our products distinguish themselves from other products on the market through their technical and physical capabilities. Very well suited to perform specialized tasks in construction and installation work.

 **HYDREMA**





## HYDREMA 912G SERIES:

# Compact, highly mobile and off-road superior.

**Articulated, compact dumptrucks. High power, low weight, durable and easy to operate. Providing efficiency and flexibility - every day, year after year.**

In 1983 Hydrema launched our first compact dumptruck. Today these small, agile and robust dumptrucks work all over the globe. The 912G Series is the 9th generation.

### Stable

The main reason for the success of the Hydrema 912 dumptruck is found in the articulated and oscillating pivot point.

The center pivot with hydraulic stabilisers keep the machine stable and safe by automatically transferring the weight to where it is needed. Furthermore the 912GS/912HM has a patented front axle suspension with auto levelling, which always gives a safe and comfortable drive.

The chassis design ensures that the front and rear wheels are running in the same

track, while the standard twin tyres give outstanding traction with minimum ground damage. The centrally placed articulation point increases the maneuverability with a small turning radius of just 20' and great positioning characteristics.

### Easy to operate

Operating the 912G is easy and the driver becomes familiar with the machine functions and maneuverability in no time.

User-friendly controls, joystick operation, unrivalled visibility and a well-designed cabin ensures the best working conditions.

A well proven 6 speed ZF Soft-Shift transmission offers full auto or manual shift. This intelligent transmission will automatically shift 2 gears in the right conditions to smoothly increase acceleration regardless of the payload.

### Strong and efficient

Whether the 912 is working on steep gradients or in poor ground conditions, it has the power to cope; state of the art 147 hp Cummins engine offers one of the best power-to-weight ratios on the market.

The high torque offers power at low revs. Together with an electrically controlled cooling fan which only operates when needed, the fuel economy and noise levels are improved. Great for both environmental and financial reasons.

Furthermore the engine has an upgraded, fully welded cooler, resulting in 10% increased cooling capacity.





**Working in poor ground conditions and where space is limited**

The compact design along with smart features like the swiveling body - MultiTip - allow the truck to work where space is limited.

The unique combination of high stability, outstanding traction and lots of power provides the dump truck with great driving abilities even in rough, hilly and muddy conditions.

The low weight provides a very low ground pressure - down to 12 psi - when carrying a full 22,000 lb load. Together with tracking of the wheels this ensures minimal ground

damage and makes it perfect on sensitive surfaces like golf courses, landscaping and for environmental work.

**Rental friendly**

The 912 dumptrucks are engineered and built to last for many years. Low maintenance costs, ease of use and utilization in a wide range of applications make it particularly suitable for rental.

**Visibility**

Extensive LED lights offerings are available as options.

Orange flashing LED lights - front and rear - increase the visibility of the dump truck.

Up to 12 powerful LED work lights and the new LED headlights make night into day during the dark hours.



**ADVANTAGES**

- High mobility due to center pivot steering and hydraulic stabilizers.
- High quality. Heavy duty construction. Built to last.
- Low weight of the truck provides a very low ground pressure.
- Strong Cummins B4.5 stage 5 engine with DOC, DPF and SCR catalyst. Great torque.
- User friendly. Safe and comfortable. Perfect for rental.

**EASY UNLOADING:**

# Unloading that works for you.

**The body is the backbone of the dumptruck. The unloading process is optimized through the body-design and by utilizing smart features like automatic tipping throttle and MultiTip.**

**Strong and robust body**

The body is manufactured in durable high tensile steel and a rigid frame along the top provides high strength.

Two strong double-acting tipping cylinders, underneath the body, ensure that the body is lowered into place regardless of the inclination of the machine.

The ground clearance when tipping is 45 in. This provides opportunity to unload material over edges, or in high piles in order to save space.

**Efficient unloading**

With a tipping time of only 6 seconds the 912 unloads quickly. The dumptruck is fitted

with an automatic tipping throttle, which means that the machine increases the engine revs., when the tipping function is activated to quickly raise the body.

In addition, the body can be raised to an angle of 75 degrees and is designed with rounded corners, so even wet and sticky material will easily slide off when tipping.

In cases where additional stability is required - for example, unloading over the side - the pivot lock can be activated.

**Precise and flexible unloading**

A popular optional feature is the MultiTip. The dumptruck can turn the body 90° to each side and deliver the payload anywhere you want in that 180° area with high precision.

MultiTip makes several working situations easier. For example when tipping a certain amount of payload sideways, whilst moving forward, or into a trench. MultiTip also allows you to work in areas with limited space.

**Just push the button**

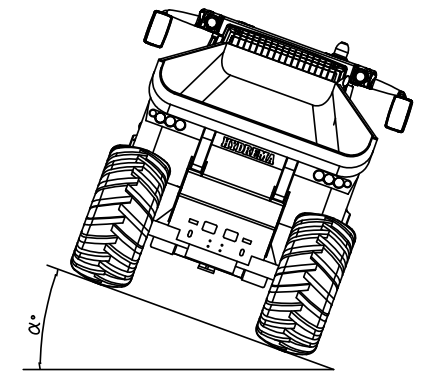
With the optional Auto-Body-Return function, the body is automatically lowered onto the chassis with a push of a button. It allows the operator to instantly drive on to the next task, fully concentrated on what happens in front of the dump truck. It saves valuable time.

**Stable even on inclines**

The low center of gravity and good weight distribution between the chassis parts provide great stability, no matter if the dump-truck is carrying load or not.

Via the new optional hoist-assistance, the operator gains information about the machine's gradient both sideways and longitudinal in the dashboard.

Should the inclination become too severe, a warning will appear in the display, letting the operator know it is unsafe to tip.



**Driving on inclines**

(Slope angle where the machine overturns).

	912F		912FS		912HM	
	EMPTY	LOADED	EMPTY	LOADED	EMPTY	LOADED
Going straight	40°	32°	39°	38°	39°	38°
Turning up-hill	39°	29°	31°	28°	31°	28°





**COMFORTABLE WORK SPACE:**

# One-step access, excellent visibility and easy operation.



**One step into comfort**

The spacious cab offers great visibility and a soft touch, "easy to clean" interior. All instrumentation is ergonomically placed. The steering wheel, seat and armrests are all multi-adjustable. To further increase comfort, an air-suspended seat with ventilation and automatic weight adjustment can be fitted.

The joystick is an integrated part of the right armrest. Here you operate the main functions e.g tipping, gear selection, and differential lock.

The air-conditioning system has 8 air nozzles for optimal indoor climate. Automatic entry/exit lighting increases safety during darkhours. To reduce vibration, the cab mountings are spring dampened.

**A great view**

The engine is placed behind the forward facing cab, which gives the operator a safe, unobstructed view from the seat. In combination with the optional rear view camera, the operator has superb all round visibility, which meets the ISO standards 5006 & 14401.

**Automatic battery isolator**

An automatic battery isolator shuts off all electric systems when you turn off the ignition key and leave the dump truck. When you return, door sensors turn the electric system back on.

You can manage the time of the shut-down via the dashboard. An emergency battery isolator is located inside the cab.







**CONFIGURATIONS:**

# Multiple choice.

## The 912G-Series dump truck range offers many different options to suit your needs and requirements.

**The 912G** is the standard dumptruck.

**The 912GS and 912HM** have a suspended front axle. An electro-hydraulic suspension system provides unprecedented comfort for this size of dumptruck. The system has independent suspension cylinders with electronic level control that aligns the machine in an optimal position. This substantially reduces vibrations, especially on longer hauls and minimizes operator fatigue. The built-in computer automatically adjusts the suspension, depending on how much it is carrying.

**The 912HM** model also features taller tires, higher ground clearance and can accommodate up to 800mm wide tires to minimize ground pressure.

**The 912's** are as standard mounted with a rear tip body, but can be fitted with the optional MultiTip, which allows the body to turn in a 180° area.

**The 912HM Flatbed** is also available. The rear chassis is extended to accommodate the increased length of the body.

**The MultiChassis** version is a universal platform to mount a variety of customized solutions, such as water tanks, concrete mixers or salt spreaders.

Furthermore, items like brushes and snow blades can be mounted both front and rear.

Customized machine colors are available.

	912G	912GS	912HM
<b>Std. tip (rear tip)</b>			
<b>180° MultiTip</b>			
<b>MultiChassis</b>			
<b>MultiChassis w/ 180° MultiTip</b>			
<b>Flatbed w/ rear tip</b>			





## SERVICE & MAINTENANCE:

# Service access made easy.

**Maximize the uptime with ground level access, quick servicing and online monitoring through Hydrema Telematics.**

### Easy service access

Opening the large engine bonnet provides easy, ground-level access to the different service points. The new engine bay layout means it is easier than ever to control oil levels and the different filters, while wider steps let you safely reach all parts of the engine with ease.

Easy and fast access to the cooling pack through the service door behind the seat.

### Easy maintenance

Drain valves make it easier to drain oil, you have full control over the process.

With the optional, automatic central greasing kit, the machine takes care of its own lubrication requirement.

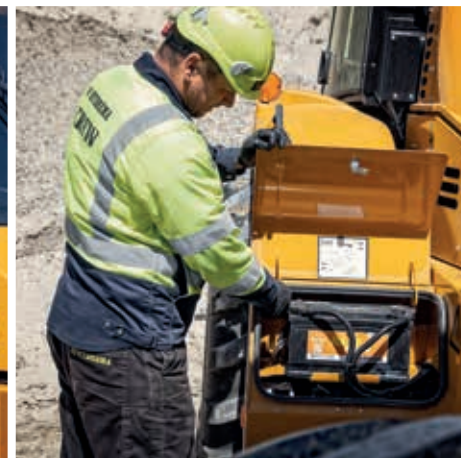
### Hydrema Telematics

The 912G can be equipped with the new Hydrema Telematics tracking system. It is a data collection tool which collects information from the machine via sensors and electronics.

Users can individually log on to the online portal and gain access to downloaded data from the engine, transmission and other key components along with realtime reports of working hours and the location of the machine.

By analyzing the collected data, the owner/operator can optimize both operational and financial control of the machine.

This system can also help the Hydrema Service team diagnose problems fast and precise - via display alarm codes, and other vital data from the machine via the online portal.



**TECHNICAL DATA:**

# Designed and built to last.

**Chassis**

Articulated chassis in a heavy-duty robot-welded construction. 912G has rigid integral axles, whilst the 912GS and 912HM have front axle suspension in heavy-duty pivot bearings and two suspension cylinders. Pivot with pendulum bar and double hydraulic stabilizers with the option of locking the oscillation movement. The pivot is fitted with large spherical pivot bearings. The fuel, AdBlue and hydraulic tanks are integrated into the front chassis. Oscillation: +/- 12°

**Axles**

The 912G has fixed, rigid axles. The 912GS and 912HM has electronically suspension with two independent suspension cylinders on the front axle. The axles have planetary reduction in the wheel hubs and separate oil reservoirs in the hubs. The front axle has automatic limited-slip differential lock and the rear axle has an electro-hydraulically activated 100% differential lock.

**Engine**

Cummins B4.5, European emissions Stage 5 engine, which meets and exceeds EPA tier 4F. With diesel exhaust fluid (DEF). 4.5 liter, 16 valve common rail turbo diesel engine with intercooler and electronically variable turbo charger. Max power: 108 kW (147 hp) at 2000 rpm. Max. torque: 600 Nm (442 lb.ft) at 1500 rpm.

**Transmission**

ZF WG15 6-speed fully automatic »ERGO POWER« with full electronic control. 6 forward and 3 reverse gears. Electronically controlled pressure on each clutch ensures completely smooth gear shifts without any loss of tractive effort. Automatic or manual gear shifts; it is possible to shift manually using push buttons on the joystick. Constant 4WD.

**Steering**

Hydrostatic Load Sensing pivot steering with 2 double acting cylinders. Priority valve and integrated emergency steering. Steering cylinders with damping. Max. steering angle: +/- 35°

**Hydraulic System**

Hydraulic pump with 22 Gal/min for tipping function and with priority valve for steering function. Separate hydraulic pump for brakes and pivot stabilizers.

**Brakes**

Dual-circuit hydraulic servo system with oil-immersed brake discs on each wheel. The brakes are self-adjusted and maintenance-free. The parking brake is a Maintenance-free, »Fail-safe« brake with electro-hydraulic activation of the wet disc brakes on the front axle.

**Cab**

Spacious ROPS / FOPS approved cab with cab suspension. Mechanical or air-suspended seat. Adjustable steering wheel and multi-joystick control.

**Body**

7.3 yd<sup>3</sup> body fabricated in robotically welded high tensile steel.

**Electric System**

Standard 24V system with 70 Amp. alternator. Batteries: 2x 12V, 100Ah.

**Noise levels**

LpA: 72 dB(A) (inside cab)  
LwA: 102 dB(A) (outside cab)

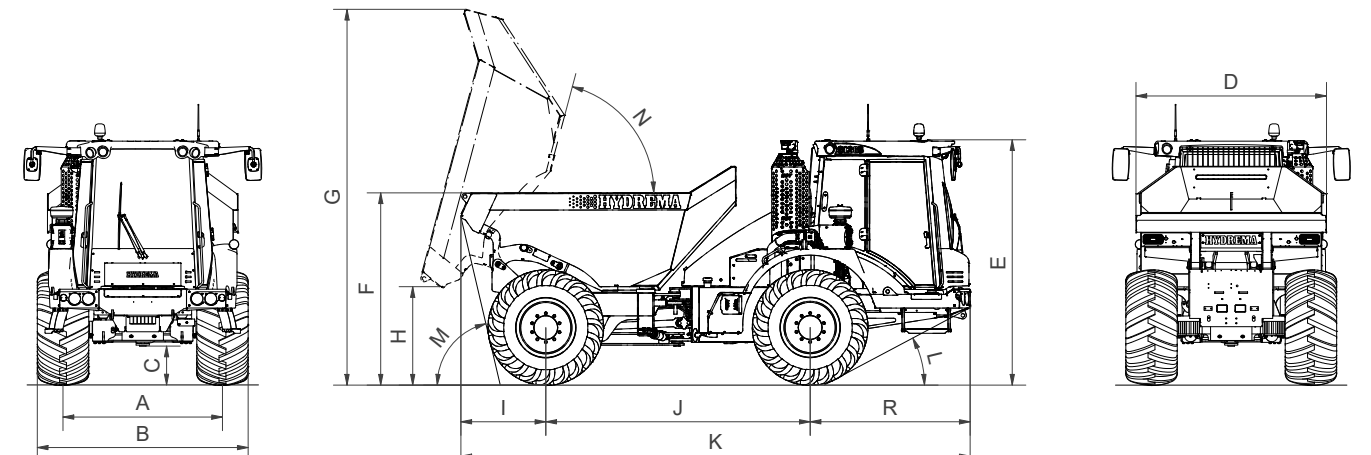
**Fuel**

Diesel: 36.98 Gal fuel tank.  
Ad Blue: 3.69 Gal tank.  
Integrated into the front chassis.

**MultiTip (optional)**

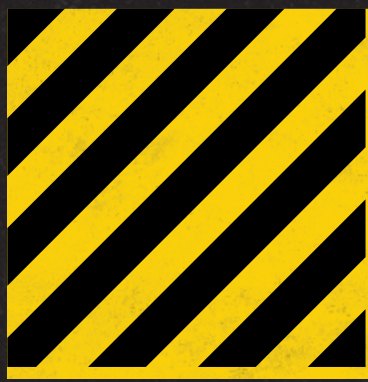
Compact slewing system with rapid unloading at the rear and to both sides. The slewing system is supported in a robust ball-bearing slewing ring. Pivotal movement takes place by means of 2 double acting cylinders. Tipping function by means of 2 double acting cylinders.

# Dimensions.



		912G			912GS			912HM				
		STD. TIP	MULTITIP	MULTICHAS.	STD. TIP	MULTITIP	MULTICHAS.	STD. TIP	STD. TIP	MULTITIP	MULTICHAS.	FLATBED
Tires		600/55-26,5	600/55-26,5	600/55-26,5	600/55-26,5	600/55-26,5	600/55-26,5	800/45x30,5	600/60x30,5	800/45x30,5	800/45x30,5	800/45x30,5
Total weight	lbs	38,074	39,087	39,683	38,669	39,683	39,683	40,256	39,617	41,270	39,683	40,256
Unladen weight	lbs	16,028	17,042	13,448	16,623	17,637	13,669	18,210	17,571	19,224	15,212	18,210
Load capacity	lbs	22,046	22,046	26,235	22,046	22,046	25,794	22,046	22,046	22,046	24,471	22,046
Body capacity	ft <sup>3</sup>	197.8	197.8	-	197.8	197.8	-	197.8	197.8	197.8	-	197.8
Turning radius	ft	20'	20'	20'	20'	20'	20'	20'8"	20'	20'8"	20'8"	22'11"
Ground pressure (loaded)	Psi	17.69	17.84	-	17.84	18.13	-	12.33	16.39	12.47	-	12.33
Suspended front axle					X	X	X	X	X	X	X	X
A. Track	ft-in	6'1"	6'1"	6'1"	6'1"	6'1"	6'1"	6'9"	6'3"	6'9"	6'9"	6'9"
B. Total width	ft-in	8'1"	8'1"	8'1"	8'1"	8'1"	8'1"	9'5"	8'4"	9'5"	9'5"	9'5"
C. Clearance	ft-in	1'6"	1'6"	1'6"	1'6"	1'6"	1'6"	1'8"	1'8"	1'8"	1'8"	1'8"
D. Dump truck body width	ft-in	7'3"	7'3"	-	7'3"	7'3"	-	7'3"	7'3"	7'3"	-	8'2"
E. Total height	ft-in	9'	9'	9'	9'2"	9'2"	9'	9'5"	9'5"	9'5"	9'5"	9'5"
F. Loading height	ft-in	7'4"	7'10"	-	7'4"	7'11"	-	7'8"	7'8"	8'2"	-	6'5"
G. Height with raised body	ft-in	14'5"	14'11"	-	14'5"	14'11"	-	14'8"	14'8"	15'2"	-	14'2"
H. Tipping clearance	ft-in	3'8"	4'2"	-	3'8"	4'2"	-	3'11"	3'11"	4'6"	-	1'4"
I. Overhang, rear	ft-in	3'3"	2'12"	-	3'3"	2'12"	-	3'3"	3'3"	2'12"	-	5'6"
J. Wheel base	ft-in	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	11'5"
K. Length	ft-in	19'6"	19'3"	18'6"	19'6"	19'3"	18'6"	19'6"	19'6"	19'3"	18'10"	23'
L. Approach angle, front	°	27	27	27	28	28	28	30	30	30	30	30
M. Approach angle, rear	°	75	80	-	75	80	-	80	80	83	-	45
N. Tipping angle	°	75	75	-	75	75	-	75	75	75	-	72
R. Overhang, front	ft-in	6'2"	6'2"	-	6'2"	6'2"	-	6'2"	6'2"	6'2"	-	6'2"





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**MORE INFO**  
[www.hydrema.us](http://www.hydrema.us)

