

A yellow Hydrema 912FS compact dump truck is shown in a mining or construction environment. The truck is loaded with dark material in its bed and is driving on a rocky, uneven terrain. The sky is blue with scattered white clouds. The truck has "HYDREMA" written on the side of the bed and "912FS" on the front. The front grille also features the "HYDREMA" logo.

HYDREMA

Hydrema
912F Series

COMPACT 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 912F SERIES

Compact, highly mobile and off-road superior.

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

In 1983 Hydrema launched the first compact dump truck. Today these small, agile and robust dump trucks work all over the globe.

Stable

The main reason for the success of the Hydrema 912 dump truck is found in the articulated and oscillating pivot point. The center pivot with hydraulic stabilizers keep the machine stable and safe by automatically transferring the weight to where it is needed for added stability.

The chassis design ensures that the front and rear wheels are running in the same track, and the standard twin tires gives outstanding traction with minimum ground

damage. The pivot, which is centrally placed, increases maneuverability with a low turning radius of just 20' producing great positioning characteristics.

Easy to operate

Operating the 912F 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 environment.

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 but fuel efficient

A state of the art 147 hp Cummins engine offers one of the best power-to-weight ratios on the market. Whether the machine is working on steep gradients or in poor ground conditions, the 912F-series has the power to ensure productivity.

The high torque offers more power at lower revs, which improves fuel economy and noise levels. Positive for both environmental and operating costs.





Working on poor ground conditions and where space is scarce

The compact design along with smart features like the swiveling dump body - Multi-Tip - allow the truck to work in constricted space on narrow and congested sites.

The unique combination of high level of stability, outstanding traction and lots of power provides the 912F-series dump trucks with great driving abilities even in rough, hilly and muddy conditions.

Due to a low net weight the dump truck has very low ground pressure - down to 12.3 Psi - when carrying a full load of 11 ton. Together with tracking of the wheels this ensures minimal ground damage which is great for

working on sensitive surfaces like golf courses, landscaping and for environmental work.

When other dump trucks give up the Hydrema 912 keeps going, giving the operator a major advantage. That is why it is chosen for a wide variety of tasks and jobs with low accessibility.

Rental friendly

The 912 dumptruck is well-known for its robustness, low maintenance costs and usage in a wide range of applications. The truck is engineered and produced to give many years of solid performance which combined with its ease of operation makes it particularly suitable for rental applications.

Visible safety

To increase the visibility of the dump truck, orange flashing LED lights can be mounted both front and rear (option). Furthermore, up to 4 rearwards facing LED working lights can be fitted to the dump truck body in order to ease the work during the dark hours.



ADVANTAGES

- High mobility due to center pivot steering and hydraulic stabilizers.
- Quality made. Heavy duty construction. Build to last.
- Low weight of the truck provides a very low ground pressure.
- Strong Cummins QSB 4.5 Tier 4 Final engine with DOC and SCR catalyst. Great torque.
- User friendly and easy to operate. High operator comfort and safety. Perfect for rental.

EASY UNLOADING

Unloading that works for you.

The dump truck body is the backbone of the vehicle. The unloading process is optimized through a re-designed body and by utilizing smart features like automatic tipping throttle and MultiTip.

Quick unloading

A tipping time of 6 seconds means the material can be unloaded quickly. The truck is fitted with an automatic tipping throttle, where the machine will automatically increase the engine speed when the tipping function is activated to quickly raise the body and thereby increase the efficiency.

The ground clearance when tipping is 3'7" FtIn, which provides the opportunity to unload the material over edges, or in high piles in order to save space.

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

In addition, the body 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, loading over the side - the pivot lock can be activated.

Precise and flexible unloading

A popular optional feature is the MultiTip, where the dump truck can turn the body 90 degrees to each side and deliver the payload anywhere you want in the 180 degrees radius 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 very narrow conditions.

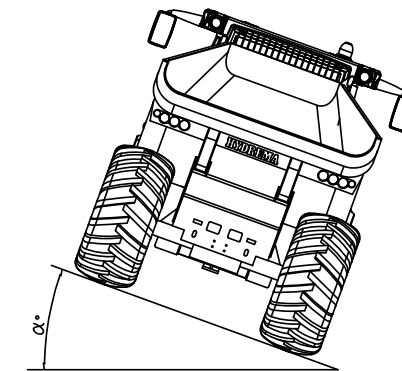
Greater efficiency with Auto-Body-Return

With the (optional) Auto-Body-Return function, the body is automatically lowered back onto the chassis with a push of a button. In other words, the operator does not have to look backwards when the body is being lowered - instead he can move on to the next task while the body lowers itself into the resting position. It saves valuable hours and allows the operator to focus on what happens in front of the truck.

Stable even on inclines

The low center of gravity of the 912F series dump trucks and good weight distribution between the chassis parts provide great stability, no matter if the dump truck is carrying load or not.

Driving on in-clines
(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°





COMFORT AND SERVICE:

Optimal visibility, comfort and service access.

Optimal operator comfort

The spacious cab offers great visibility and a soft touch interior that is easy to clean. All the instrumentation is ergonomically placed and the steering wheel, seat and arm rests are fully adjustable to suit the individual operator.

A joystick is installed as an integrated part of the right armrest. From here you operate the main dumper functions such as tipping, gear selection, forwards / reverse and differential lock. This provides easy control at your fingertips.

An air-conditioning system is incorporated as standard, with 8 air nozzles placed throughout the cab for optimal indoor climate. The cab is also fitted with automatic

entry/exit lighting for safer nighttime operation. To reduce vibration the cab-mountings are spring dampened.

A great view

The engine is placed behind the cab, which gives the operator an unobstructed forward view from the driver's seat for safer operation. An optional rearview camera provides greater visibility when reversing.

Front-axle suspension minimizes operator fatigue

The front axle on the 912FS/HM models is equipped with an electro-hydraulic suspension system that provides unprecedented comfort for this type of machine. The system has independent suspension cylinders

and level control of the two front wheels. This reduces the vibration level substantially over long working day, especially on longer hauls.

The built-in computer automatically adjusts the suspension depending on how much the dumper is loaded so that the vehicle is comfortable to drive both with and without loads.

Easy service access

Opening the large bonnet gives easy access to the different service points: engine, oil level, hydraulic system, etc. The two front fenders have integrated storage and built-in battery housing.

MACHINE DATA

Specifications.

Chassis

Articulated chassis in a heavy-duty robot-welded construction. 912F has rigid integral axles, whilst the 912FS 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 912F has fixed, rigid axles. The 912FS 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 QSB 4.5L Stage 4 engine with DOC and SCR catalysts with Ad-Blue additive. 16 valve common rail turbo diesel engine with intercooler, electronically variable turbo charger and EGR with cooling. Max power: 108 kW (147 hp) at 2000 rpm. Max. torque: 440 ft-lb at 1500 rpm.

Transmission

ZF WG115 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 yd³ 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.



Many machine configurations.

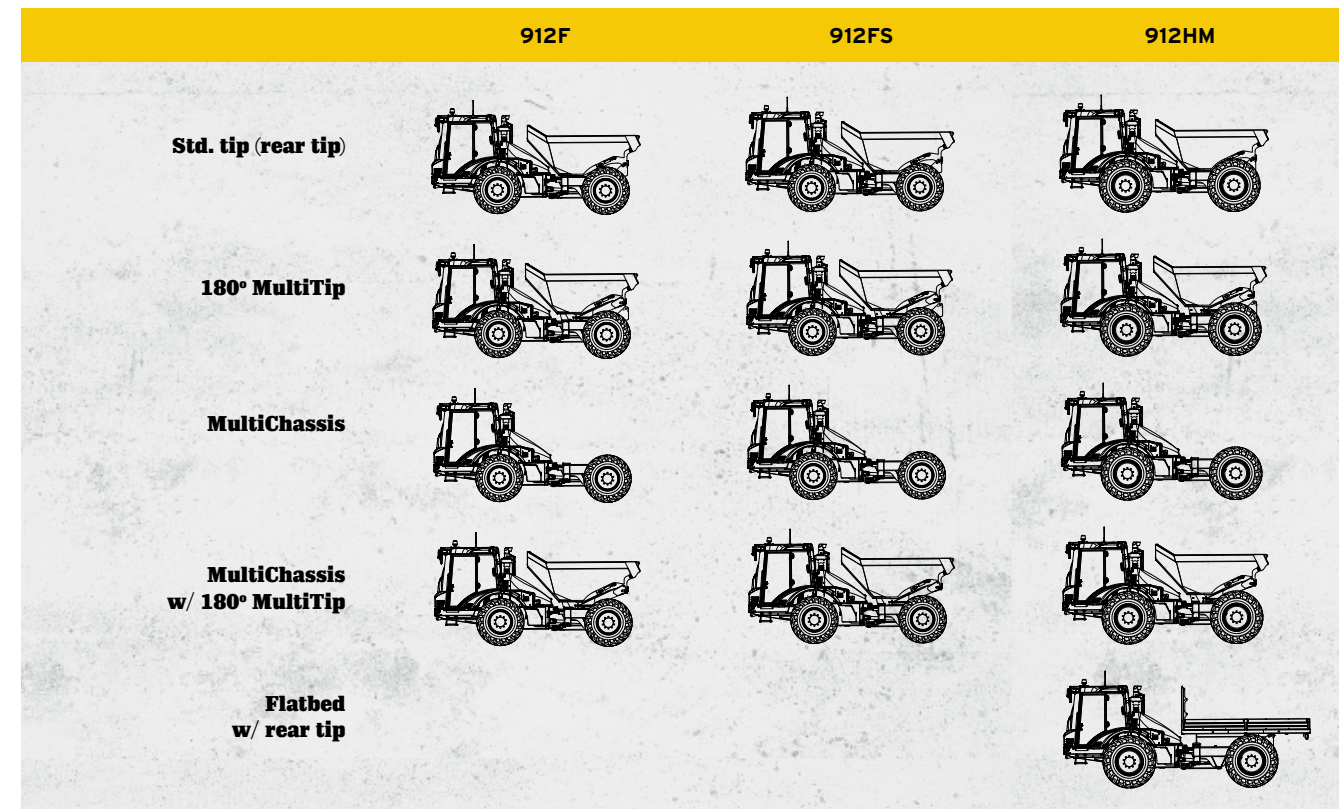
The 912 F-series dump truck range offers many different options to suit your needs and requirements.

The standard dump truck is the 912F, while the 912FS and 912HM has a suspended front axle. The High-Mobility version - the 912HM - features taller tires, higher ground clearance and can accommodate up to 800mm wide tires for minimized ground pressure.

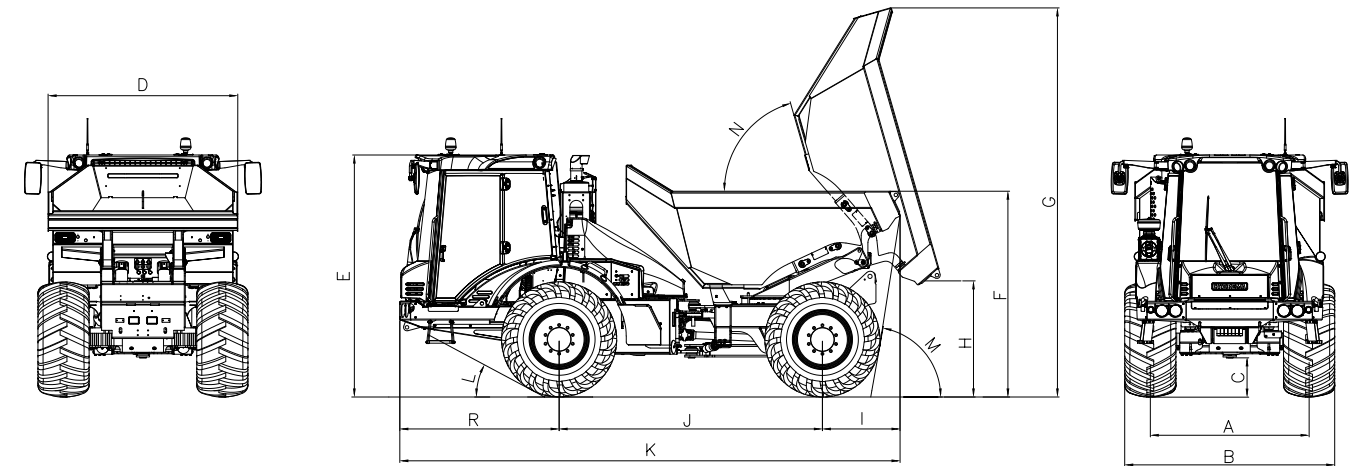
As standard the dump trucks are mounted with a rear tip body and can be fitted with the optional MultiTip, which allows the body to turn through a 180 degrees area. The 912HM is also available with a flatbed body, where the rear chassis is extended to accommodate the increased length of the body.

The MultiChassis version is a universal platform where a variety of customized solution can be mounted, such as water tanks, concrete mixers or salt spreaders.

Furthermore, items like brushes and snow blades can be mounted both at the front and on the rear of the truck.



Dimensions.



		912F			912FS			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	ft³	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, bogie	ft-in	10'1"	10'1"	10'1"	10'1"	10'1"	10'1"	10'1"	10'1"	10'1"	10'1"	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"

Well equipped with many options.

STANDARD EQUIPMENT

Machine:

Tires, 912F & 912FS: 600/55 - 26.5 Twin
 Tires, 912HM: 600/60 - 30.5 Twin
 Front axle: Limited slip differential lock
 Rear axle: 100% electro-hydraulic differential lock
 Suspended front axle (only 912FS and 912HM)
 Oscillation of center pivot point

Cabin:

Green rotating beacon - seatbelt activated
 12V and 24V plug box in cab
 Wiper with interval control - front / rear
 Sunshade - front
 Handheld light
 Red lighting effect inside cab (for night use)
 Sun shield on cap - front
 Automatic air-conditioning
 Headrest
 Rotating beacon
 Radio with FM
 Two side mirrors with heating - front
 Seat heating
 Automatic driving lights
 8 Megabeam working lights

Operation:

Automatic tipping throttle
 Automatic tipping brake
 Automatic Lock of oscillation in pivot point when tipping
 Cruise control

OPTIONAL EQUIPMENT

Wheels / Tires:

912F & 912FS:
 Wheel set; 17,5 x 25 EM
 912HM:
 Wheel set: 800/45-30.5
 Wheel set: 650/65-R25 EM

Dumper body:

180° Multitip
 Extended upper body edge
 Extension of rear body edge, 16 in
 Reinforced body - 8mm Hardox
 Automatic body return (requires Multitip)
 Rear lights protection

Cab:

Extra rotating beacon
 Air suspended drivers comfort seat
 Two Electrically adjustable and heated side mirrors
 DAB-radio with Bluetooth
 4 ps. Xenon working lights - FRONT
 2 ps. Xenon working lights - REAR
 2 ps. Xenon working lights - SIDE
 4 ps. LED working lights - FRONT
 2 ps. LED working lights - REAR
 2 ps. LED working lights - SIDE

Machine:

Rear view system with monitor in cab
 Engine heater
 Bio-hydraulic oil
 Front mounted three point hitch, cat. 2 - incl. electronic-hydraulic direction of oilflow
 Towing hitch, rear - fork type
 Automatic, central lubrication system
 GPS trackunit
 Special colour





Subject to change. Photos may be shown with optional equipment. 08554831-03/2019



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MORE INFO
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