



ADVANCED
DRY SUCTION
EXCAVATION
TECHNOLOGY

MTS **DINO**
SERIES



**BUILT FOR DRY.
BUILT TO
WORK.**

MTS **DINO** SERIES

**DIG SAFE. DIG DRY.
DUMP ON SITE. STAY ON SITE.**



- 1. MTS MATERIAL DEPOSIT SYSTEM (PATENTED) WITH SIDE TIPPING CAPABILITY**
- 2. MTS MULTI STAGE FAN TECHNOLOGY (PATENTED) WITH 24,000 CFM TWIN FAN SYSTEM**
- 3. ROTARY VANE COMPRESSOR, 360 CFM @ 185 PSI**
- 4. HYDROSTATIC REMOTE CONTROLLED GROUND DRIVE**

The innovative MTS Dino Series suction excavator is purpose-built for dry, from the ground up, to powerfully and safely excavate without the use of water.

Utilizing patented technology and the highest quality components, each unit is engineered and manufactured specifically to optimize performance and throughput. Spend less time in the shop and more time working.

No leaving the jobsite to refill or dump wet spoils. No costly slurry disposal charges. No overweight loads. Minimizing your travel and reusing excavated material effectively reduces your carbon footprint.

Unrivaled productivity. Decreased costs. Uncompromising safety. Environmentally responsible.



5. AUTOMATIC “JET-PULSE” FILTRATION CLEANING

6. ROTATING, OSCILLATING ‘IKE’ EXCAVATION SYSTEM

7. 10” DIAMETER SUCTION HOSE

8. REAR MOUNTED, HYDRAULICALLY CONTROLLED POWER ARM

* Features listed do not apply to all truck configurations.

BUILT FOR DRY.

FAN SYSTEM

The MTS Dino Series of advanced suction excavators excels in air conveyance and material movement because of its patented (multi stage) twin fan technology. This engineered feature delivers 24,000 CFM which is 4 to 5 times more air conveyance than the largest vac trucks on the market. It also provides an advantage in optimizing dry material movement without compromising the integrity of the equipment, unlike a positive displacement blower system which will be damaged by digging without water.



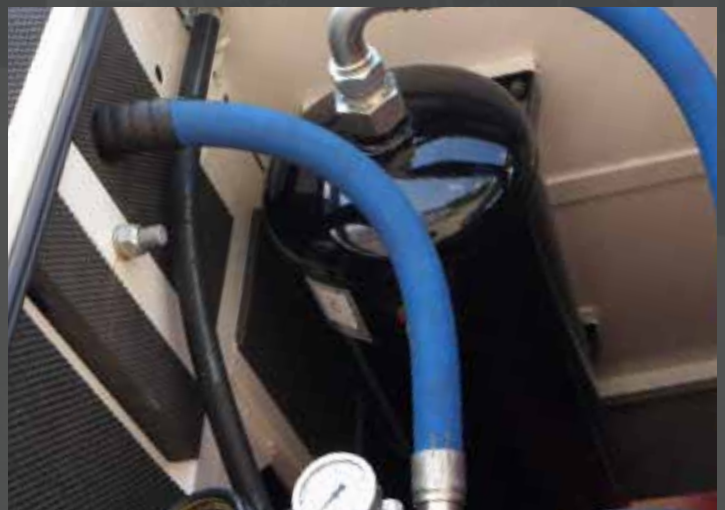
DEBRIS SYSTEM

As dry materials travel through the air stream created by the immense suction power of this equipment, it enters into a separation process that will sort materials internally. Large debris will be broken down and impacted by a deflector plate which deposits in the main container, allowing smaller debris and fines to continue on to a secondary debris cache. The air conveyance remains unhindered and powerful through the filters and then exits the system as clean air.



COMPRESSOR SYSTEM

With a rotary vane compressor adapted and sized for the MTS Dino Series, users are ensured of continuous operation at performance levels that meet all demands. Engineered for dry excavations the radiator and fan are dimensioned appropriately to protect from dust and sand, while all electrical components are over-dimensioned to withstand the high temperatures that come from long hours of usage. All factors that result in a reliable and durable onboard compressor system.





**Decreased
Project Costs**



**Unrivaled
Productivity**



**Environmentally
Responsible**



**Uncompromising
Safety**

FILTRATION SYSTEM

With the filtration system used by the MTS Dino Series, the air flow remains clean which makes indoor facility or close proximity work ideal. The conical system auto-cleans during operation and is easily accessed and removable for more extensive maintenance. The larger surface area of the filtration system effectively allows air conveyance to remain consistent and powerful while delivering long lasting use before ever needing to be replaced.



DIG TUBE AND ARM

Having a 10" dig tube at the point of excavation means almost 300% more airflow at the point of excavation when compared to a typical vac truck. This allows operators to process larger excavated materials more effectively and increases the amount of material that can be moved, giving this equipment a superior overall dig rate. The power arm and articulating control of the boom easily manages the dig tube and provides precision placement via remote which relieves any need for manual placement or maneuvering of the dig tube.



ONBOARD TOOLS

Projects within the limits of utilities or buried infrastructure can encounter a variety of different materials which require more than one alternative for non-destructive excavation. The MTS Dino Series is equipped with a selection of lightweight pneumatic tools that are optimized by the onboard compressor system. All tools are equipped with quick-connect fittings and are ideal for switching between tasks while increasing overall productivity.



NEW FOR NORTH AMERICA

MTS **DINO4.5 LT**

The MTS Dino 4.5 LT includes the very features that set the Dino Series of suction excavators apart, without the frills. This unit combines over 20 years of proven engineering with the on site experience of North American workers.



TRUCK DIMENSIONS
29 x 8 x 12 ft



CONTAINER VOLUME
6 yds³ (4.5 m³)



VACUUM SYSTEM
24,000 CFM Patented Multi Stage Technology



HYDROSTATIC DRIVE
Not equipped



FILTRATION SYSTEM
Automatic Self Cleaning System



SUCTION HOSE
10" Diameter



CHASSIS
Western Star 4700



AIR COMPRESSOR
Rotary Vane | 360 cfm @185 psi



SUCTION HOSE CARRIER
Power Arm



RAIL MOUNT KITS



MTS Dino Series suction excavators can be mounted on Hi-Rail kits for all your rail work needs, and when combined with hydrostatic drive gives your truck the capability to dig and drive simultaneously. Side tipping functionality ensures efficiency as units can remain mounted on rails while disposing of material. This coupled with the Dino's 24,000 cfm twin fan setup, gives operators the power for all types of jobs, including cleaning rail ballast, accident debris and spilled loads cleanup, railway demolition work, and much more.



MTS DINO 4.5

Versatile in size, impressive in power.



TRUCK DIMENSIONS
29 x 8 x 12 ft



CONTAINER VOLUME
6 yds³ (4.5 m³)



VACUUM SYSTEM
24,000 CFM Patented
Multi Stage Technology



HYDROSTATIC DRIVE
Wireless Remote Control



FILTRATION SYSTEM
Automatic Self Cleaning
System



SUCTION HOSE
10" Diameter



CHASSIS
Western Star 4700



AIR COMPRESSOR
Rotary Vane | 360 cfm
@185 psi



SUCTION HOSE CARRIER
Mega Arm



MTS DINO8

A proven success in multiple industries.



TRUCK DIMENSIONS
36 x 8 x 12 ft



CONTAINER VOLUME
10.5 yds³ (8 m³)



VACUUM SYSTEM
24,000 CFM Patented
Multi Stage Technology



HYDROSTATIC DRIVE
Wireless Remote Control



FILTRATION SYSTEM
Automatic Self Cleaning
System



SUCTION HOSE
10" Diameter



CHASSIS
Western Star 4800



AIR COMPRESSOR
Rotary Vane | 360 cfm
@185 psi



SUCTION HOSE CARRIER
Mega Arm



MTS DINO12

A top performer with added load capacities.



TRUCK DIMENSIONS
34 x 8 x 12 ft



CONTAINER VOLUME
16 yds³ (12 m³)



VACUUM SYSTEM
24,000 CFM Patented
Multi Stage Technology



HYDROSTATIC DRIVE
Wireless Remote Control



FILTRATION SYSTEM
Automatic Self Cleaning
System



SUCTION HOSE
10" Diameter



CHASSIS
Western Star 4800



AIR COMPRESSOR
Rotary Vane | 360 cfm
@185 psi



SUCTION HOSE CARRIER
Mega Arm



MTS CITY DINO

All the expected capabilities, in a compact form.



TRUCK DIMENSIONS
25 x 7.5 x 11.5 ft



CONTAINER VOLUME
4.5 yds³ (3.5 m³)



VACUUM SYSTEM
10,500 CFM Patented
Multi Stage Technology



HYDROSTATIC DRIVE
Wireless Remote Control



FILTRATION SYSTEM
Automatic Self Cleaning
System



SUCTION HOSE
8" Diameter



CHASSIS
Western Star 4700



AIR COMPRESSOR
Twin 320 cfm @ 185 psi



SUCTION HOSE CARRIER
Power Arm



BUILT TO WORK.

The MTS Dino Series is the **most versatile tool** in safe digging. Get positioned at the **front of your industry** with advanced suction excavation technology.



SPECIFICATIONS

AIR COMPRESSOR

Power and Performance

Compressor Type	Rotary Vane
Flow / Pressure	360 cfm @ 185 psi
Buffer Tank Capacity	15 Gallon / 60L
Oiled Air Connection	1x Rear
Non-Oiled Air Connection	2x Rear

MEGA ARM

Precise Positioning, Virtually Maintenance Free

Mounting Location	Rear - 5 point articulating
Length	18' / 5.5m 26" / 7.9 m with extension
Swivel Radius	180°
Construction	Steel - Welded / Bolt
Powered	Yes
	Hydraulic
Remote Controlled	Yes
Suction Hose Diameter	10"
IKE ('All Clear' Excavations)	Rotating turntable dig tube attachment
	Continuous rotation or oscillation
	1x 60 inch IKE digging tube

TWIN FAN TECHNOLOGY

Patented Multi Stage System

Type	MTS F 42,000
Power	315 HP / 235 kW
Max. Air Volume	24,000 CFM 42,000 m3/h
Max. Negative Air Pressure	13 Hg 44,000 Pa
Fan Drive	Split-shaft PTO with processor controlled clutch engagement
Fan Diameter	900 mm
"Fast-Cut" Shut Off/Down	Yes
MTS - FES Fuel Economy System	Yes
Fan Bearing Lubrication	Automatic - Central

STABILIZERS

Safety and Control

Driver / Dump Side	2x
Passenger/Power Arm Side	1x
Operation / Type	Hydraulic

TOOLS AND ACCESSORIES

Productivity and Versatility

Air Spade	1x Air Spade 4000 Utility Series + 5' extension
	150, 225 & 280 CFM Nozzles
Power Shovel	1x Vogt Pneumatic Shovel
	Tool Length - 5' / 1.5 M with 5.5" Spade
	Air Hose Length - 24'6" / 7.5 m
Jackhammer	One (1) - 20kg with Spade and Chisel
Safe Excavation Suction Tube	Light weight HDPE with Urethane end
Reducer/Daylighting	Yes - 6" diameter
Technical Tool Kit	In-field adjustments / repairs
Extension Tubes	6' Flexible
	4' Rigid
	45° suction tube adapter
Other	4x Double hook clamps

WIRELESS REMOTE CONTROL

Radio Controlled Functions

Manufacturer	ABITRON
Controls	Boom and Tipping Operations
	Compressor On/Off
	Filter Cleaning On/Off
	Boom to Tip Switch
	Emergency Shutdown
	Motor Start/Stop, Reset
	Motor - 3 Stage Speed
	Hydrostatic Drive
Storage	Dedicated in-cab remote storage, with auditory proximity sensor alarm
Hydrostatic Drive	Operator remote control for drive, reverse, and steering functions
	Operate with suction on or off
	2.5 mph 4km/h max speed
	Front bumper sensor for auto-stopping

All North American MTS equipment is built to DIN Standards and certified by TUV.



* Features listed are subject to change.
* Features listed do not apply to all truck configurations.

HYDRAULIC SYSTEM

Two (2) Circuits for Independent Operation

Hydraulic Circuit #1	Power Arm
Hydraulic Circuit #2	Air Compressor
NTZ Bypass Fine Filter	Yes
Return Filter	Yes - Replaceable Cartridge
Hydraulic Oil	HLP 46
Hydraulic Oil Tank	Steel, Powder coated
Temperature Sensor	Yes
Oil Level Indicator	Yes
Fluid Change Interval	500 hr service intervals after initial break in period.

FILTRATION

MTS High Capacity Filter System / Self Cleaning

Number of Filters	42
Filter Style	Cone
Filter Material	Polyester - washable
HEPA compatible	Yes
Filtration Efficiency	TI-15; 90% @ 2.5 µm, > 98% @ 4 µm
Filter Cleaning System	MTS Material Deposition System (Patented) 3 Stage high-performance filter system, based cyclone, with electronically controlled auto cleaning (pulse-jet technology)

LIGHTING

Safety and Visibility

Rotating Safety Beacon	Yes - Cab Mounted
Rear Flashing Safety Lights	Yes
12V Power Socket	1x - Rear
Optical Light Tower	Yes
Enhanced Safety Lighting	1x LED Light - Power Arm Shaft 2x LED Lights - Inside Toolbox 2x LED Lights - Middle Segment Power Arm 3x LED Lights - Positioned on Truck Frame

NOISE REDUCTION

Air Exhaust Sound Silencer / Air Outlet

Machine House	Anti-noise Foam Plates
Decibel Rating	≤ 85 dB @ 50 Ft (rear of unit)

VIBRATORS

Container, Suction Hose Mounted

Suction Hose	4x Pneumatic powered
Dumping Container	2x

STAINLESS STEEL CONTAINER

Debris Container Longevity

Capacity	4.5 yds ³ , 6 yds ³ , 10.5 yds ³ , 16 yds ³
Construction	Container & Inner Lid - Stainless Steel Wear Parts - ST 37/52 Hardox
# of Compartments	2x
Primary Compartment	Cyclone & Gravity Separation
Secondary (Filter) Compartment	Finer material from filter
Tip Direction	Side - Driver (City Dino - Rear Tip)
Tip Mechanism	Hydraulic
Tip Angle	45 degrees
Max Bin Height for Offloading	60"

HOSE REELS + HOSE

Conveniently Positioned, Ease of Access

Rear Mount - Non-Oiled	1x
Hose Length	33' / 10 m
Auto Re-coil with brushes	Yes

PAINT (Excluding Chassis)

Long Lasting Protection

Pre-finish Surface Prep	Sandblasted
Multi-Layered	Yes
Paint Type	2K RAL Colors / custom colors available

STORAGE

Organization and Accessibility

Side Mounted Toolbox	Yes - Cab Mounted
Toolbox Lining	Rubber Mats
Toolbox Lift Mechanism	Gas Springs
Lockable Doors	Yes
Suction Tube Carrier	Yes - location model dependant

ADDITIONAL FEATURES

For More Safety, Security, and Satisfaction

Lubrication	Twin Fan System Automatic Lubrication
Reverse Camera	180° view, In cab LCD monitor
Grounding Device	Retractable Reel System 33' (10 m) cable / pincer & earthing screw spike
Retractable Steel Ladder	Truck Mounted - allows for safe roof access
Decanting Valve	1x Decanting Valve 1x Decanting Filter Box
Mudflaps	Aluminum
Rear Bumper	Integrated Receiver

PARTS AND SERVICES

Ox Equipment makes use of a state-of-the-art facility stocked with the necessary replacement and repair components that ensure the high productivity rates of the MTS Dino Series suction excavators. With MTS factory trained technicians that can diagnose and assess what your suction excavator needs to remain at optimal operating levels.

We're prepared to keep you working.





Ox Equipment is the exclusive North American partner for MTS GmbH Suction Systems. The combination of German engineered and manufactured equipment, bundled with 5 Star North American service, we offer a package that delivers complete peace of mind, allowing you to bring top-notch supplied service into your marketplace. Ox Equipment will optimize the performance of your suction excavation equipment through proactive fleet management services, based on expertise and innovation. The Ox factory-trained team is driven to get your business performing better than ever.



MTS GmbH has been manufacturing suction excavation equipment in Germany for over 20 years. Today there are thousands of suction systems being used in 35 different countries worldwide, and it is commonly referred to as the safest method of excavating around dense underground infrastructure. Combining their years of engineering excellence with safe and efficient work practices make the MTS Dino Series a world leader in the vacuum excavation industry.



MTS DINO SERIES



MTS CITYDINO

MTS DINO4.5

MTS DINO4.5

MTS DINO8

MTS DINO12

Container Volume

4.5 yds³ (3.5 m³)

6 yds³ (4.5 m³)

6 yds³ (4.5 m³)

10.5 yds³ (8 m³)

16 yds³ (12 m³)

Rotary Vane Compressor



24,000 CFM Twin Fan System

10,500 CFM



10" Diameter Suction Hose



Power Arm Hose Carrier



Mega Arm Hose Carrier



Self Cleaning Filtration System



Western Star Chassis



Wireless Remote



Hydrostatic Drive



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**PERFORMANCE.
DRIVEN.**