



MTS **DINO**
SERIES

**BUILT FOR DRY,
FROM THE GROUND UP.**



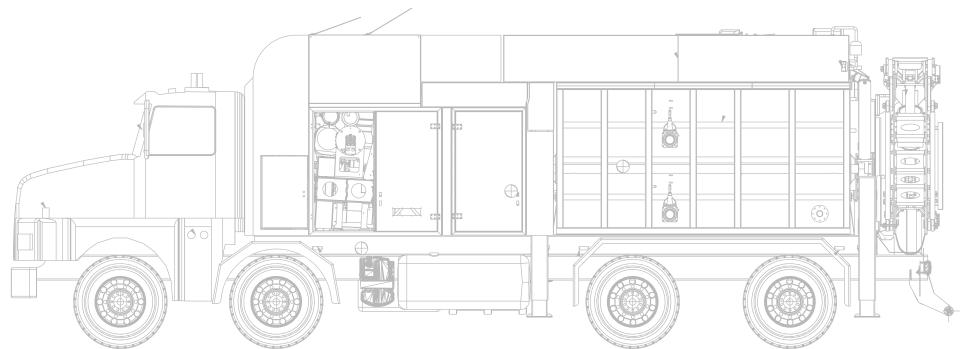
ON SITE
DISPOSAL
CONTAINER

24,000 CFM
PATENTED TWIN FAN
TECHNOLOGY

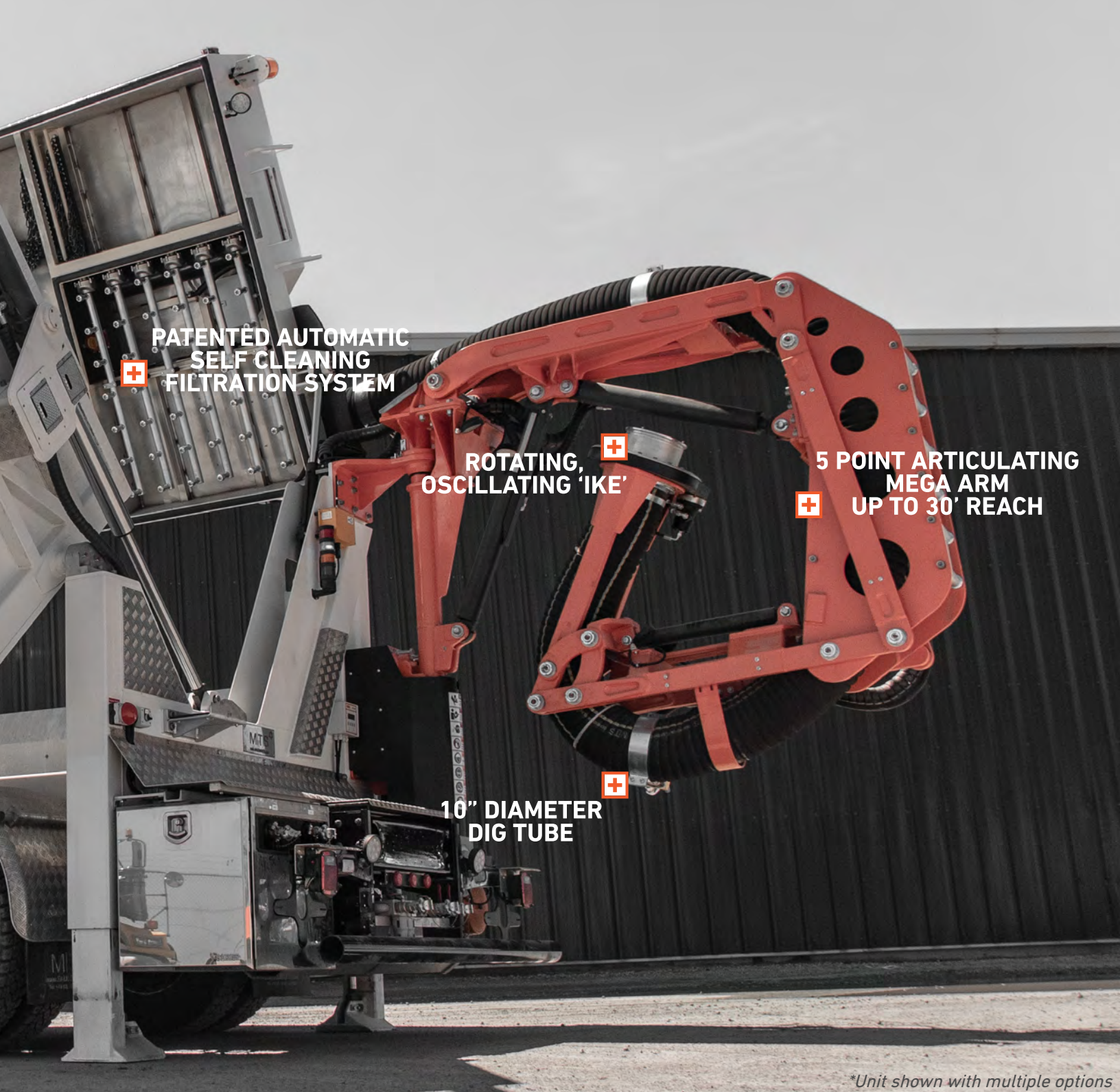
REMOTE
HYDROSTATIC
DRIVE

AIR COMPRESSOR
320 CFM @ 116 PSI

MTS **DINO**
SERIES



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



**PATENTED AUTOMATIC
SELF CLEANING
FILTRATION SYSTEM**

**ROTATING,
OSCILLATING 'IKE'**

**5 POINT ARTICULATING
MEGA ARM
UP TO 30' REACH**

**10" DIAMETER
DIG TUBE**

**Unit shown with multiple options*

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.

Why Suction Excavation?

When you eliminate **water**, you eliminate **limitations, slurry, and weight.**

When you dig dry with **air**, you deliver **productivity, versatility, and value.**

DRY. WORKS.



The patented technology that was engineered into the MTS Dino Series ensures that every component and moving part optimizes performance and works flawlessly when introduced to dry materials. The majority of vacuum excavation equipment might be able to contend with the 24,000 CFM, twin fan power, but as exposure to dry materials increases, the MTS Dino Series increases throughput while every other piece of vacuum excavation equipment decreases in productivity and even heads toward breakdown.



**UNRIVALED
PRODUCTIVITY**

The MTS Dino Series Suction Excavator is capable of replacing multiple pieces of equipment on a job site which eliminates logistical planning and coordination. Digging dry keeps excavated materials unaltered so removal, disposal and the need for new backfill materials can all be avoided, and the equipment associated with those tasks wouldn't be required. The combination of those logistical efficiencies and excavated material management, will effectively decrease your overall project costs.



**DECREASED
PROJECT COSTS**



MTS DINO SERIES ADVANCED DRY SUCTION EXCAVATION TECHNOLOGY

optimizes the use of air to increase project throughput beyond the standard limitations of the vacuum excavation industry, all while providing solutions to the most common and costly obstacles created through the use of water.





**GET OUR TEAM
PULLING FOR YOU.**

MTS[®]

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 their commitment to innovation, the MTS Dino Series has established itself as a world leader in the vacuum excavation industry.



**UNCOMPROMISING
SAFETY**

Advanced dry suction excavation technology is not simply another non-destructive excavation method for projects involving underground utilities, it also places a priority on mitigating overall asset risk on any given project. The MTS Dino Series creates clean, dry work environments for operators and utilises innovative sensory equipment to control a variety of different hazards. Air is also non-conductive, reducing risk to operators.



**ENVIRONMENTALLY
RESPONSIBLE**

Being built for dry means being equipped to tackle a wide variety of environmental factors without compromising on productivity. The MTS Dino Series Suction Excavators reduce the carbon footprint of any project by eliminating the need for water, which means there's no material waste or disposal, there's no hauling during the project, and there's no need for backfill or restoration equipment. Building these efficiencies into the MTS Dino Series Suction Excavators gives them a clear advantage in the industry.

OX
EQUIPMENT

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.



OX
EQUIPMENT

**STRATEGIC
PARTNER**

Our regional partners operate in the utility industry, delivering innovative and responsive service to their respective markets. Working better together involves creating a synergy between innovative technology and practical business operations. The Ox Strategic Partner program is a path to long-term success.

APPLICATIONS



Pipeline

- Working in areas with existing pipelines, identified or unknown
- Underground pipe repair
- Inside the fence/contaminated spoils



Electrical Distribution

- Safe, non-conductive air excavation process
- Safe excavation around utility lines, identified or unknown
- Electrical underground fault repair
- Contaminated/impacted spoils removal



Utility Distribution

- Safe exposure of all buried infrastructure, (gas, electrical, telecom, water, etc.)
- Emergency repairs

Rail

- Ballast removal/cleaning
- Undercutting
- Safe excavation of rail signalling systems
- Spills/derailments



Industrial

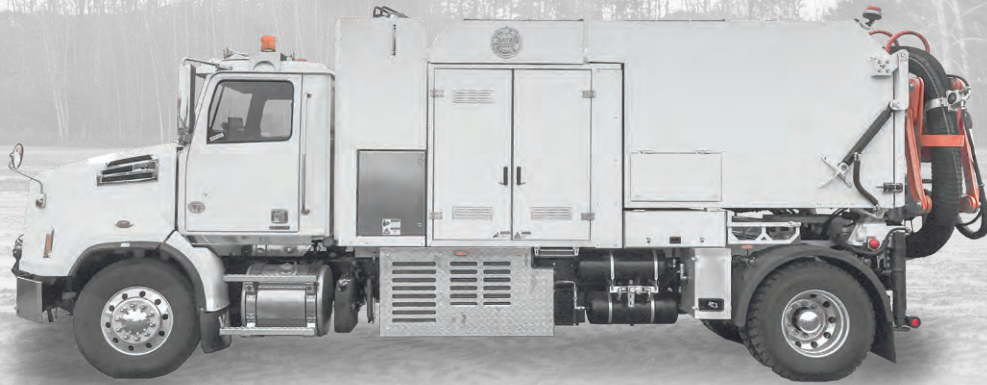
- Emptying boilers, bunkers, silos, etc.
- Emergency spill clean up
- Filter/Sludge removal



Environmental/Road

- Contaminated/impacted soil remediation
- Emergency spill clean up
- Work on overhead areas and bridges





CONTAINER VOLUME	4.5 yds ³ (3.5 m ³)
TRUCK DIMENSIONS	25' x 7.5' x 11.5'
VACUUM SYSTEM	Patented twin fan technology
AIR COMPRESSOR	Single 160 CFM @116 psi / Dual 320 CFM @ 116 psi
FILTRATION SYSTEM	Automatic self-cleaning system
SUCTION HOSE CARRIER	Power Arm
SUCTION HOSE	8" Diameter
REMOTE CONTROL	Wireless Remote Control
TIPPING	Onsite Rear Tip
CHASSIS	Western Star 4700 <i>or suitable alternative</i>



MTS **DINO4.5**



CONTAINER VOLUME	6 yds ³ (4.5 m ³)
TRUCK DIMENSIONS	29' x 8' x 12' 6"
VACUUM SYSTEM	Patented twin fan technology
AIR COMPRESSOR	Single 160 CFM @116 psi / Dual 320 CFM @ 116 psi
FILTRATION SYSTEM	Automatic self-cleaning system
SUCTION HOSE CARRIER	Mega Arm
SUCTION HOSE	10" Diameter
REMOTE CONTROL	Wireless Remote Control
TIPPING	Onsite Side Tip
CHASSIS	Western Star 4700 <i>or suitable alternative</i>



MTS DINO8



CONTAINER VOLUME	10.5 yds ³ (8m ³)
TRUCK DIMENSIONS	36' 3" x 8' x 12' 6"
VACUUM SYSTEM	Patented twin fan technology
AIR COMPRESSOR	Single 160 CFM @116 psi / Dual 320 CFM @ 116 psi
FILTRATION SYSTEM	Automatic self-cleaning system
SUCTION HOSE CARRIER	Mega Arm
SUCTION HOSE	10" Diameter
REMOTE CONTROL	Wireless Remote Control
TIPPING	Onsite Side Tip
CHASSIS	Western Star 4800 <i>or suitable alternative</i>



MTS DINO12



CONTAINER VOLUME	16 yds ³ (12 m ³)
TRUCK DIMENSIONS	37' 6" x 8 x 12' 6"
VACUUM SYSTEM	Patented twin fan technology
AIR COMPRESSOR	Single 160 CFM @116 psi / Dual 320 CFM @ 116 psi
FILTRATION SYSTEM	Automatic self-cleaning system
SUCTION HOSE CARRIER	Mega Arm
SUCTION HOSE	10" Diameter
REMOTE CONTROL	Wireless Remote Control
TIPPING	Onsite Side Tip
CHASSIS	Western Star 4800 <i>or suitable alternative</i>



STANDARD FEATURES*

REMOTE CONTROL

Radio Controlled functions for all Suction and Tipping Operations

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 (if optioned)
Umbilical console	32 ft / 10 m
Charger	Yes - in cab
Batteries	Two (2)

STABILIZERS

Safety and Control

Driver / Dump Side	Two (2)
Passenger/Powerarm Side	One (1)
Operation / Type	Hydraulic

LIGHTING

Safety and Visibility

Rotating Safety Beacon	Yes - Cab Mounted
Rear Flashing Safety Lights	Yes
12V Power Socket	2 - Rear
Optical Light Tower	Yes
Machine Status Indicator	Yes

HYDRAULIC SYSTEM (DUAL CIRCUIT)

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.

NOISE REDUCTION

Air Exhaust Sound Silencer / Air Outlet

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

LUBRICATION

Reduced Lubrication Maintenance

Automatic Lubrication	Twin Fan System
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REVERSE CAMERA

Easier Truck Maneuvering

Rear Mounted Camera	180° view, In cab LCD monitor
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AIR COMPRESSOR

Power and Performance

Compressor Type	Rotary Vane
Flow / Pressure	Single 160 CFM @ 116 psi / Dual 320 CFM @ 116 psi
Buffer Tank Capacity	15 Gallon / 60L
Oiled Air Connection	Yes - 2x Rear
Non-Oiled Air Connection	Yes - 2x Rear

HOSE REELS + HOSE

Conveniently Positioned, Ease of Access

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

TOOLS AND ACCESSORIES

Productivity and Versatility

Air Spade	One (1) - Air Spade 4000 Utility Series + 4' extension 150 CFM & 225 CFM Nozzles
IKE	One (1) 60 inch IKE digging tube
Power Shovel	One (1) 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	Yes - Rubber
Reducer/Daylighting	Yes - 6" diameter
Technical Tool Kit	In-field adjustments / repairs
Extension Tubes	6' Flexible 4' Rigid

STORAGE

Organization and Accessibility

Side Mounted Toolbox	Yes - Passenger side
Toolbox Lining	Rubber Mats
Toolbox Lift Mechanism	Gas Springs
Lockable Doors	Yes
Suction Tube Carrier (Front)	Yes - 3x Tube Slots
Suction Tube Carrier (Rear)	Yes - 1x Tube Slot

PAINT (EXCLUDING CHASSIS)

Long Lasting Protection

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

GROUNDING DEVICE

Static Discharge Point

Retractable Reel System	33' (10 m) cable / pincer & earthing screw spike
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*subject to change

POWER ARM

Precise Positioning, Virtually Maintenance Free

Mounting Location	Rear - 5 point articulating
Length	18' / 5.5m 23'8" / 7.2 m with extension
Effective Reach w/ dig tube	30' / 9 m
Swivel Radius	180°
Construction	Steel - Welded / Bolt
Powered	Yes Hydraulic
Remote Controlled	Yes
Suction Hose Diameter	10"



TWIN FAN TECHNOLOGY (PATENTED)

Industry Leading Power and Performance

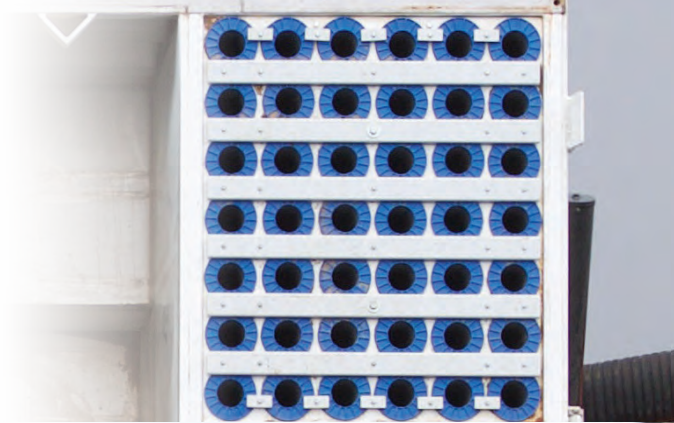
Type	MTS F 2 x 18.000
Power	295 HP / 130 kW
Max. Air Volume	24,000 CFM
Max. Negative Air Pressure	30,000 Pa
Fan Drive	Split-shaft PTO with processor controlled clutch engagement
"Fast-cut" shut off/down	Yes
MTS - FES Fuel Economy System	Yes
Fan Bearing Lubrication	Automatic - Central



FILTRATION

MTS High Capacity Filter System / Self Cleaning

Number of Filters	42 Quick-Change
Filter Style	Cone
Filter Material	Polyester - washable
HEPA compatible	Yes
Filtration Efficiency	T1-15; 90% @ 2.5 µm, > 98% @ 4 µm
Filter Cleaning System	Automatic Reverse Pulse System (patented)



CONTAINER (DEBRIS)

On Site Productivity

Capacity	4.5 yds ³ , 6 yds ³ , 10.5 yds ³ , 16 yds ³
Construction	Side Wall - Steel Lead Edge - Steel
# of compartments	Two (2)
Primary compartment	Gravity separated
Secondary (Filter) Compartment	Finer material from filter
Tip Direction	Side - Driver (City Dino - Rear Tip)
Tip Mechanism	Hydraulic



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



ADDITIONAL OPTIONS

EQUIPMENT UPGRADES:



MEGA ARM

- Rear mounted 26' / 7.9 M extended boom for increased range, stability, and power.
- 180 swivel rotation for easy positioning
- 5 point articulation for unsurpassed accessibility.
- Class leading 10" diameter heavy duty suction hose
- Robust welded bolt construction
- Virtually maintenance free

IKE EXCAVATION SYSTEM

For use in "all clear" excavations only

- Rotating turntable dig tube attachment for enhanced excavation performance
- Continuous rotation or oscillation

REMOTE HYDROSTATIC DRIVE SYSTEM

- Operator remote control for drive, reverse, and steering functions
- Operated while suction is on or off
- 2.5 mph | 4 km/h max. speed
- Front bumper mounted sensors for auto-stopping

SUCTION HOSE VIBRATOR SYSTEM

- Pneumatic powered vibrators
- Prevents clogging of suction hose

SECOND AIR COMPRESSOR

- Additional air compressor for increased productivity


EXTERNAL HYDRAULIC SUPPLY

- For operation of hydraulically power tools
- Includes hose and hose reel

HIGH TIPPER

- Allows for two (2) tipping heights for emptying spoils
- 7'10" / 2.4 m or 9'11" / 3.0 m
- Easily accommodates both roll off bins and higher dump trucks

EX ZONE II CERTIFIED ARBITRON REMOTE CONTROL

- Explosion Proof
- CSA Certified 

HI-RAIL CAPABILITY

- After market high rail system

VIBRATORS – CONTAINER MOUNTED (SET OF TWO)

- Facilitates removal of spoils during dump / tipping operation

AIR COMPRESSOR COOLING

- Desert package- additional hydraulic cooling fans for operation in extreme warm climates

AUTOMATIC AIR HOSE REEL STAINLESS STEEL

- Two (2) air reels in stainless steel boxes with brush system

CONTAINER AND LID IN STAINLESS STEEL

- Eliminates corrosion and increases durability
- Eases dumping process

FULL PANELING COVER

- Sides of suction box covered in full paneling
- Allows for truck wrap

DECANTING VALVE

- One decanting valve
- One decanting filter box

SAFETY UPGRADES:

LIGHTING PACKAGES

- Enhanced lighting for safety and proximity
- 3x LED Lights - Positioned on Truck Frame
- 2x LED Lights - Middle Segment Power/Mega Arm
- 2x LED Lights - Inside Toolbox
- 1x LED Light - Power Arm Shaft
- 1x Reel mounted work light extension
- Tripod with LED Lights

RETRACTABLE STEEL LADDER ON FRAME

- Truck mounted—allows for safe access

GROUNDING DEVICE CONTROL

- Certified grounding system with grounding wire
- Equipotential bonding of all components
- Continuous self-monitoring system

MULTI GAS DETECTOR SYSTEM

- Continuous monitoring of LEL levels within suction box
- EX Zone I Approved
- Audible alarm and red light at rear of vehicle

TOP MOUNTED SAFETY RAILS

- Hydraulically actuated safety rail system mounted on top of unit

CONDUCTIVE HOSE

- Suction / dig hose grounded to truck and grounding system
- For use with grounding control device

CUSTOM CONFIGURATION

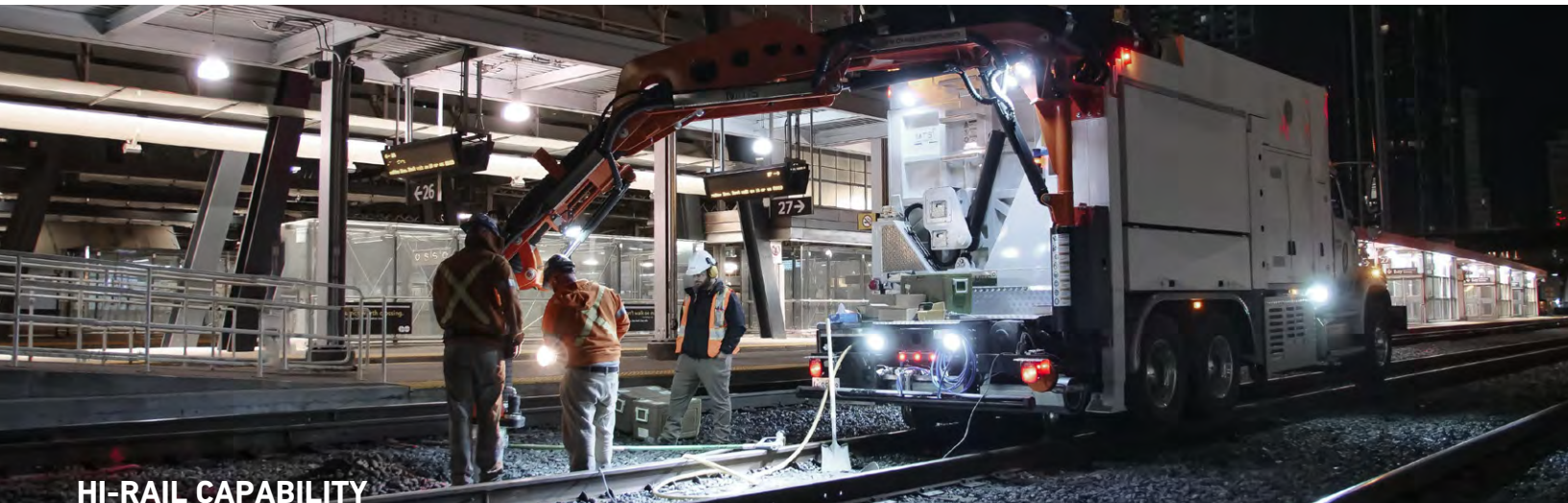
Our factory has the ability to custom build equipment to meet client weight specifications in compliance with regulations and truck sizes, for every usage and industry need.

Dino Series Suction Excavation units can be configured on either an Ox Equipment Inc. provided chassis or on a customer supplied/preference vehicle model (Class 8).

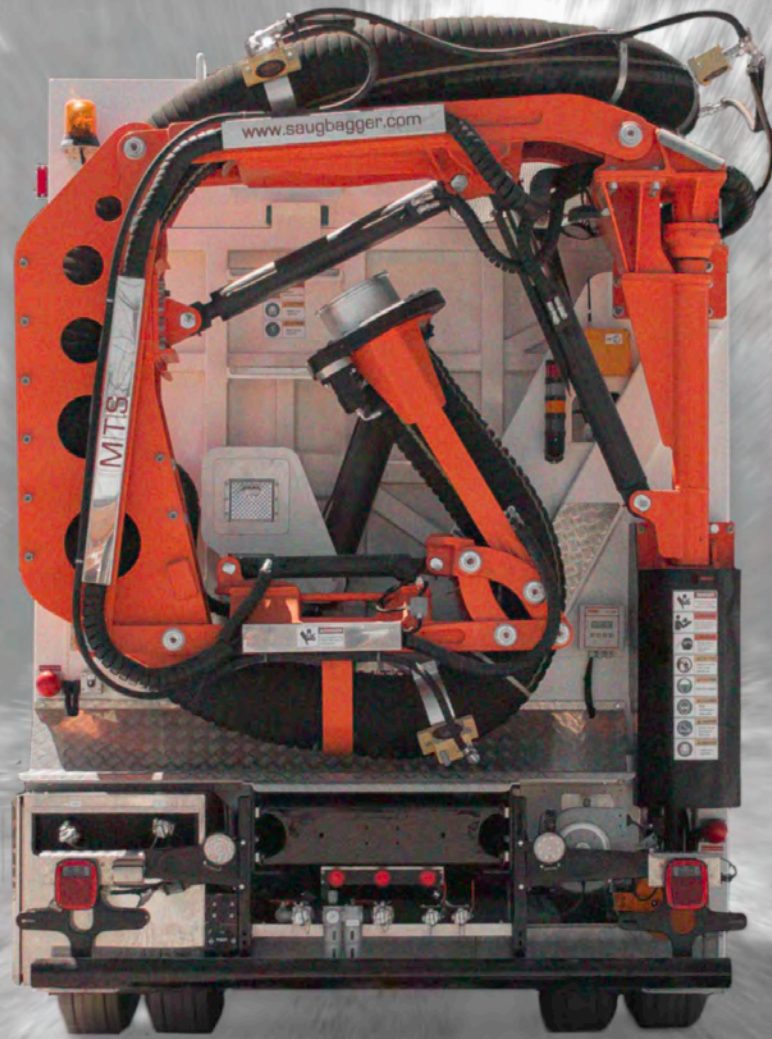


MTS Track Series also available.

Please contact our business development team to discover solutions to your specific needs.



HI-RAIL CAPABILITY



Contact us:

Tel: (888) 290-4044

Email: info@ox-equipment.com

Web: ox-equipment.com

**PERFORMANCE.
DRIVEN.**