

CATALOGUE

STANDARD COMPONENTS & EQUIPMENT

MTS Suction Equipment Typ DINO 4,5m³/6 & 8m³/12m³

DINO 4,5 m³



DINO 6 & 8 m³



DINO 12 m³



DINO 4,5 m³

Container 4,5 m³



Dimensions DINO 4,5m³

Length:	9,00 m
Width:	2,55 m
Height:	3,70 m

DINO 6 & 8 m³

Container 6 & 8 m³



Dimensions DINO

Length:	9,40 m
Width:	2,55 m
Height:	3,70 m

DINO 12 m³

Container 12 m³

TRIDEM



Dimensions DINO

Length:	10,40 – 10,70 m
Width:	2,55 m
Hight:	3,70 m

DINO TRIPLE

Container 12 m³



Dimensions DINO TRIPLE

Length:	10,40 – 10,70 m
Width:	2,55 m
Hight:	3,70 m

DINO 12 m³ 5-axle Chassis (Switzerland)

Container 12 m³

MAN TGS



Dimensions DINO 5-axle Chassis

Length:	10,40 – 10,70 m
Width:	2,55 m
Hight:	3,70 m

Description Suction Equipment DINO

Body Work

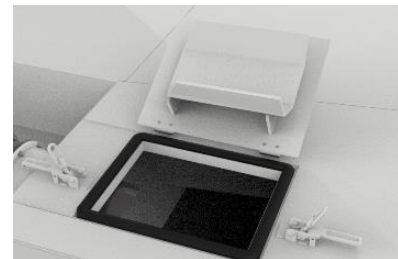
DINO - Container & Lid

4,5/6/8/12 m³

Fotos showing 12 m³ Container

Container

- **4.5 m³** container volume
- **6,0 m³** container volume
- **8,0 m³** container volume
- **12.0 m³** container volume
- Height of container rotation min. 2.1 m (tipping into settling container)
- Tilting angle: 45 °
- Optimal loading due to adapted container shape
- Lining of the tilt wall with stainless steel sheet including drip edge

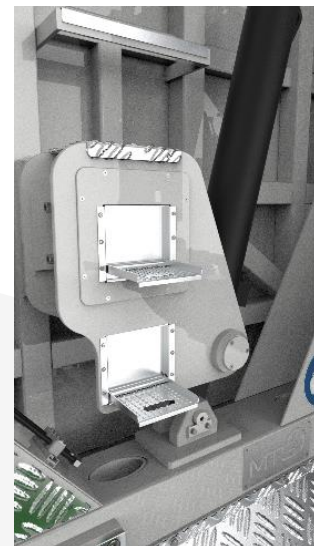


Filter chamber

- Stainless steel plate in front of the filter chamber (removable)

Lid

- Cover with wear-resistant breakaway systems
- Integrated dust filter cleaning system
- Manually lockable inspection flap in lid



Safety

- Rod on the lid
- Ascent from the rear of the container

MTS Multiple Stage Fan Technology

TWIN High Performance Fans MTS F 42.000

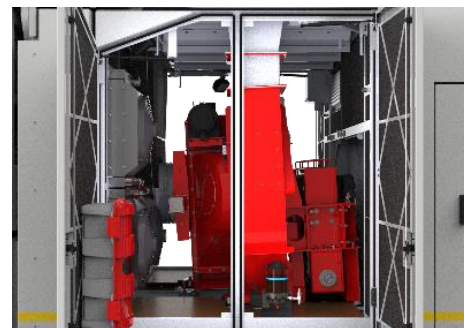
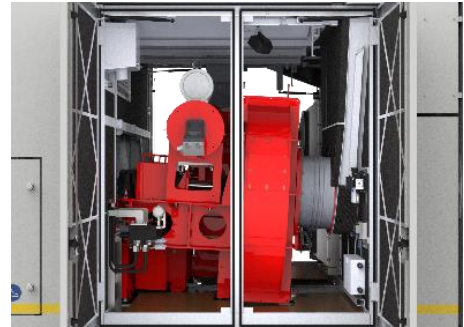
F 42.000

Double high-performance fans MTS F 42.000 consisting of 2 coupled special fans

- Air volume max.: 42 000 m³/h
- Depression max.: 44.000 Pa +
- Power max.: 235 kW
- New Drive belt system: 2014/2015
- FES Fuel economy system decreases fuel consumption by 20 %
- Neueste Laufradgeometrie für mehr Saugleistung
Laufraddurchmesser: 900 mm
- Impeller blades made of highly wear-resistant special steel
- Central Lubrication system for fan bearings with monitoring functions
- MTS starting system (without truck vehicle coupling) with OMSI intermediate gearbox installation
- NMV drive (without starting couplings for NMV Mercedes Benz)

MTS advantages

- ✓ Variety of power levels
- ✓ Extreme suction power
- ✓ Optimum cardan shaft angle for the drive shaft by inclining the main components to the angle of the drive flanges
- ✓ No cooling of the bearings necessary
- ✓ Long-life, low-maintenance OMSI intermediate gear or NMV drive



- ✓ Two shaft fans with standard bearings lubricated via central grease system without intermediate coupling
- ✓ Quick shutdown of the suction power without shutting down the fans (short period)

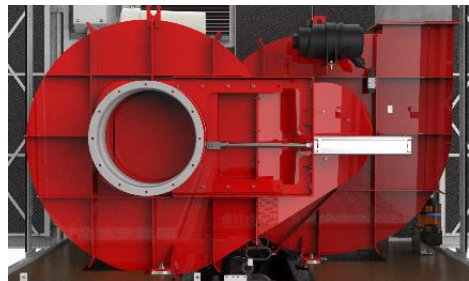
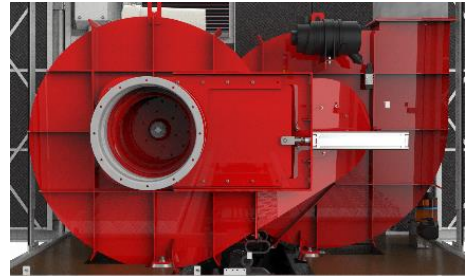
MTS Fans - emergency shutdown

Safety:

Quick shut-off of the suction air to stop the suction flow immediately. Actuation takes place through all emergency stop operations and when the operating speed is switched off.

Economy:

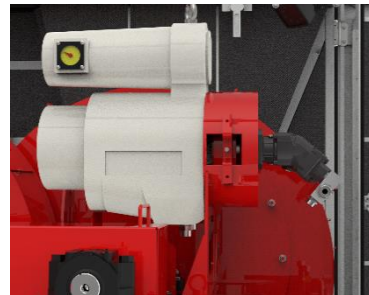
In addition to the proven MTS - FES Fuel Economy System, the shut-off further reduces consumption during fan start-up and shut-down and in short interruption mode.



Compressed air system

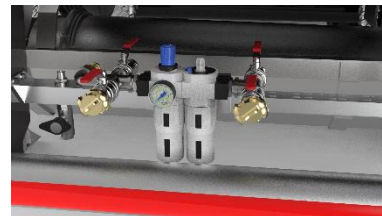
Compressed Air System & Air compressor

- Rotary compressor max. 10 bar with 4.5m³/min air flow providing oiled and non-oiled at the rear of the vehicle
- 2 oiled and 2 non oiled air tool connections at the rear of the vehicle
- 60l Buffer air tank
- Air spray pistol in machine house
- Sufficient performance - even in summer mode



Advantage:

- ✓ High air performance for pneumatic air lance and air tools at highest outside temperatures



2 pieces hose reel for compressed air hose

- Air hose length: 10 m; D= 3/4 " on stainless steel reel with automatic retractor mounted on the suction assembly.
- One hose reel with lubricated air, and one with non-lubricated air



Advantage:

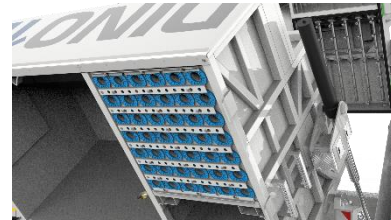
- ✓ Air hoses quickly pulled out and safely tidied away

Market leading Air Flow & Dust Filter System



MTS Material Deposition System

- 3 stage MTS high-performance filter system, based cyclone, with electronically controlled auto cleaning after vacuuming (pulse-jet technology)
- 98% of physical deposition of material sucked
- 147 m² fine filter area in the 3rd Filter stage, waterproofed polyester filter
- Filter chamber emptied automatically tilting the container
- Excellent load distribution arrangement in the rear of the vehicle
- Quick-change filter basket system



Advantages of the market leading filter system:

- ✓ 20 % to 30 % higher Suction Performance
- ✓ No cleaning effort after tipping
- ✓ Effective physical Cyclone Separation leads to a higher life cycle (Filters)
- ✓ MTS Technik leads to automatic cleaning during or after the suction process.



Hydraulic Boom

POWER ARM

- MTS POWER ARM for all professional applications, long reach.
- Extremely stable suction arm, articulated with long reach
- 7 m hose length Hose diameter 25 cm
- Can be operated by remote control
- 180 ° swivelling



TOP Suction Hose mounted on POWER BOOM

- Suction hose high resistant lengths 7 m
- High abrasion protection

Hydraulic supports – stabilizers

- 3 hydraulic supports for the stabilization of chassis when emptying the container and during suction

Advantages:

- ✓ During the suction process, the vehicle is stationary, thus safe working even with air-suspended vehicles

Note: 4 hydraulic supports are recommended for TRIDEM vehicles.

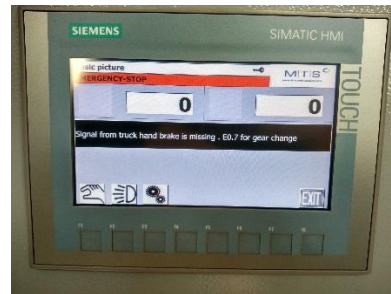


Vehicle Operation

Controls

In the driver's cab:

- Main body switch
- Rotating beacons On/Off
- Auxiliary drives / intermediate gearboxes On/Off
- Safety immobiliser
- Hydrostat On/Off



Radio remote control

Proportional radio remote control for operating all functions for sucking and emptying, such as ...

Power arm & tilt functions

- Emergency stop/motor start/stop/reset
- Fan/compressor/filter control
- IKE Rotating suction tube On-Off – Oscillating
- 3 fan speeds
- Charger with spare battery installed in cab
- Spare control transmitter with 7.5 m cable
- Manufacturer GROSS Funk or HETRONIC



Control TOUCH panel with additional functions:

- System status
- Remote diagnostics of the entire controller
- Error display with plain text display for solution

Electrical Controls with modern SPS/PLC

- Preparation for Tele Service remote diagnosis
- SIM card integrated (limited to 24 months)
- Stabilisation supports - automatic

Rear of the vehicle

- Rotating beacon (LED) at the rear (lid)
- Two 24 V sockets at the rear of the vehicle for operating e.g. mobile construction site lights
- Optical light tower to indicate current machine status (e.g. suction ON, filter control ON, hydrostat ON)
- LED work lamp
- Spare parts set electrical (sensors; relays ...)



Air exhaust / sound silencer

- Computer-optimised sound insulation with 3 resonator baffles
- Complete insulation of the machine house with 50 mm thick insulation waffles
- Air outlet to the top with rain drainage channel



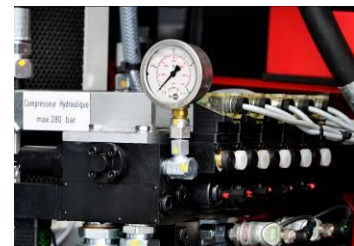
Advantages:

- ✓ Low-noise vehicle despite high suction power
- ✓ Exhaust air outlet to the top reduces discharge noise and protects against damage in case of warm discharge air near buildings



Dual-circuit hydraulic system

- 2 circuits for interference-free operation of air compressor and boom
- Worldwide leading hydraulic manufacturer
 - Mobile hydraulic (SUNFAB)
 - Proportional hydraulic (HAWE)
 - Hydraulic hoses and fittings (PARKER)
- Hydraulic tank with temperature sensor and level indicator
- NTZ bypass fine filter / Additional return filter for hydraulic oil filter with replaceable cartridge (thereby extending the oil change interval to 4-fold) is installed in the hydraulic tank
- Filled with hydraulic oil HLP 46



Frame cover auxiliary frame

- Aluminum wart plates as covers on the auxiliary frame below the container



Storage possibilities

Transport Rack / Storage Boxes / Suction tube carrier basket

Transport rack for suction pipes

- Transport rack made of painted mesh frame for suction pipes or suction hoses, mounted behind the driver's cab above the frame (3-fold).



Storage Boxes

- Passenger side mounted toolboxes, lined with rubber mats and gas springs, lockable



Advantages:

Passenger side mounted toolboxes protect operator against traffic accidents.

Suction tube carrier basket

- Galvanised suction pipe basket can be opened on one side for transporting the suction pipe or suction hose extension.
- Can be opened on both sides if compressed air hose reels are not mounted; length 1.8 m



Safety / Security

Safety Package I

SI

- Emergency Shut-Off Functions at rear (2x) and on radio control



Safety Package II

S II

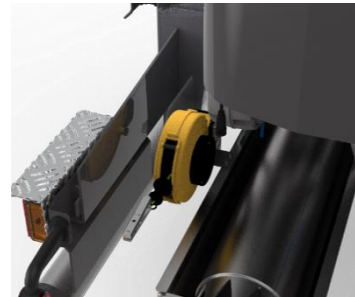
- Fire extinguisher 6 kg inside the machine house
- Yellow wheel chocks (2x)



Grounding Device

- Grounding reel with 10 m grounding cable and clamp
- Connection of conductive parts on the carrier vehicle and the suction unit

GROUND



Working LED Spotlight

- Working LED headlamp at the rear of the vehicle, can be swiveled and tilted.
- Two 24 V sockets at the rear of the vehicle for operating additional mobile construction site lights

AFB 1-LED



Paintwork

PAINT

- Parts sandblasted before priming
- Zinc dust coating
- Multi-layer application of a 2 K lacquer
- All hydraulic cylinders are painted anthracite
- RAL colour as desired (surcharge for metallic paint, special colours and clear lacquer finish as well as the colours yellow and orange, if applicable)



Tools & Accessoires

MTS SET Tools & Accessories

TOOL SET

Suction Pipes

- Suction tube D= 25 cm; l=1,7 m, SYSTEM 2010, galvanized, with steel crown
- Suction tube extension D= 25 cm; l= 1,3, SYSTEM 2010, galvanized
- 2 Clamps D= 25 cm SYS 2010

Tool set

- MTS- Air Lance 1.0 l=2 m long with splash guard
- 1 Air hoses l= 10 m D=19 mm with heavy safety equipment
- Debris removal tool
- 2 pieces safety yoke (assembly blocking)
- Two Handed Grease Gun for 500g cartridges
- 2 pieces MTS DINO HIGH PERFORMANCE GREASE- 500g TUBE

Legal approvals / documentation / labelling



TÜV/DEKRA Technical approval suction equipment

- Each MTS suction equipment is tested by the German TÜV/DEKRA
- Including Traffic Certificate for Germany
- For domestic truck TÜV technical inspection and approval is carried out as plant machine

Documentation/Spare Parts

- Operating and maintenance instructions 2-fold according to MTS standard

Labeling

- All operating elements, warning and safety instructions and important service-relevant technical components are symbolised or labelled in the respective national language.



Training

Training/Instruction MODUL 1 BASIC



- Instruction by our specialists in the function, operation, and maintenance of the suction excavator in Germersheim.
- Final exam with certificate
- Costs for the personnel to be instructed, such as travel, accommodation, and meals, are borne by the customer.

Vehicle chassis / carrier vehicle

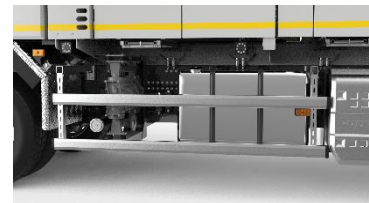
Carrier vehicle (not included in the price)

- MTS builds on all common brands of truck manufacturers. Please ask for the specification. We are also happy to offer you a complete vehicle.
- Please note: The specifications must be approved in writing by MTS at the time of ordering, otherwise MTS declines all responsibility for the body and the proper functioning of the suction body.

Modifications to the carrier vehicle (not included in the price, charged at the expense of the respective truck manufacturer)

TF - CHANGE

- Side fold-up underride guard on the vehicle



Parameterization of the carrier vehicle (not included in the price, charged at the expense of the respective truck manufacturer)

TF - PARA

- Parameterization of the power take-offs and electronic modules of the carrier vehicles takes place at an authorised workshop of the truck supplier (not included in the standard).
- STANDARD without surcharge for MB AROCS; IVECO TRAKKER, STRALIS, MAN when vehicle is purchased from MTS

Due to selectable options and accessories, technical specifications may change accordingly.

Status: 14.07.2022 / Subject to technical changes!