

SERES



SERES Engineering Ltd.

Machine manufacturing, hydraulics and machine service

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SERES Engineering Industry and Trade Ltd is a company owned by Hungarian persons.

Our company is engaged in manufacture of communal vehicle body as well as hydraulics and machine service.

Our sites can be found in Pécs, Barcs and Gödöllő.

Our staff number is about 85.

Our technology: computer designing, CNC-machining, plasma cutting and shielded-arc welding.



Machine manufacturing

- Communal vehicle
- Container transporting, waste collecting, liquid transporting bodies, tilting and fixed platforms
- Snow-ploughs, salt spreaders
- Hydraulic working cylinders and flexible hoses
- Waste collecting containers

Services

- Machine repair and renewal
- Repair and renewal of hydraulic and communal vehicle bodies, loading machines, dredgers,
- Repair and renewal of cranes, back-wall elevators, sewer cleaners, hydraulic jacks, special mobile-stable hydraulic equipment,
- Installation and adjustment of cranes
- On-site repairs on the operator's site, with service cars and technicians

Trade

- Machines of our own manufacture
- Salt spreaders, snow-ploughs, cranes, road cleaning and maintenance machines
- Hydraulic elements and accessories
- Hydraulic working cylinders and gaskets



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STR HM 6 waste collector

The STR HM 6 model waste collector target machine can be used to simply and economically collect household, industrial and bagged wastes. Its design also makes the target machine suitable for the collection and transport of waste glass and its unloading by tilting.

It can empty the collected waste into larger target machines with opened back wall. The utilizability of the superstructure is determined by the maximum load values of the base machine.

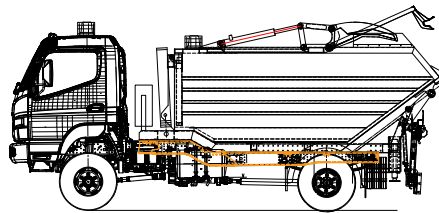
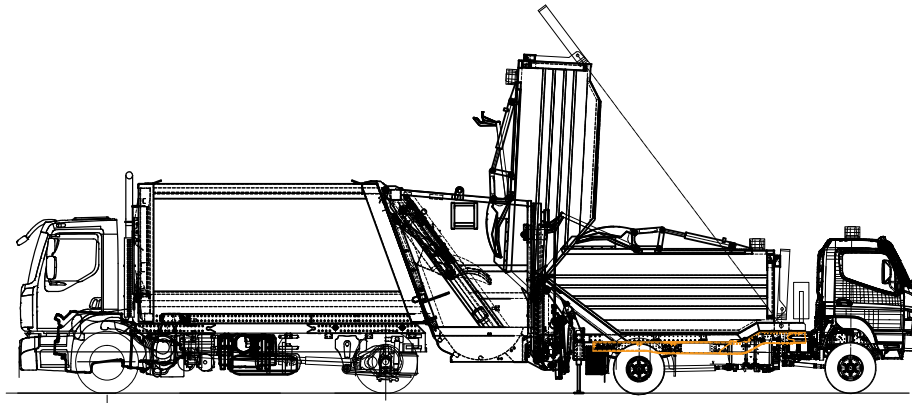
Manufacturer:

SERES Company Ltd. for Mechanical Engineering and Trade

- ▶ Headquarter: 7630 Pécs, Bajor St. 2/1.; Tel.: +36 (72) 526-666; e-mail: info.pecs@seres.hu
- ▶ Premises: 7570 Barcs, Mező St. 70.; Tel.: +36 (82) 461-777; e-mail: info@seres.hu
- ▶ Premises: 2100 Gödöllő, Pattantyús Á. krt. 2.; Tel.: +36 (30) 257-1145; e-mail: sarkozy@seres.hu

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Seres STR HM 6m3 waste collector target machine

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression proportion in the case of loose household wastes: 1:3
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 – 2x240 – 2x360 – 1x770 – 1x1100
- cycle time of the compression unit: 20 seconds
- set compression pressure: 180 bar
- emptying by tilting backward, tilting angle: 90°

Technical requirements of the vehicle:

- wheelbase: 3200 - 3600mm
- vehicle allowable gross weight: 6500 – 7500kg
- load capacity (useful weight): 2500 – 3500kg (depending on the chassis)

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
Supply of spare parts from our stock immediately.

Information: Pécs +36 (72) 526-666, Barcs: +36 (82) 461-777

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STR 7 waste collector

The STR 7 model waste collector target machine can be used to simply and economically collect household, industrial and bagged wastes. This special purpose equipment is also suitable for waste collection in narrow streets and tight spaces. The effective capacity of the body is a function of the load capacity of the base vehicle.

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Seres STR 7m3 waste collector target machine

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression proportion in the case of loose household wastes: 1:5
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 – 2x240 – 2x360 – 1x770 – 1x1100
- Compaction cycle: 40-60 s
- Set compaction pressure: 160 bar
- Compaction with an oscillating pusher plate
- Left and right side manual slide doors for loading

Technical requirements of the vehicle:

- wheelbase: 3500 - 3900mm
- vehicle allowable gross weight: 7500 – 10.500kg
- load capacity (useful weight): 1400 – 3000kg (depending on the chassis)

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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HARD PRESS F-I. WASTE COLLECTING UNIT

The **HARD PRESS F-I. waste collecting target machine** of 6-7m³ with compression system serves the simple and economic collection and compression of household-industrial- and in sacks packed wastes. The design and large size of the waste receptor makes it possible that the target machine can empty the waste collecting vessels both in manual and automatic operation modes, and it enables to throw manually the large wastes in pieces into it. The load ability of the basic machine determinates the maximum usability of the superstructure. The efficiency of the compression has been made possible by the pressing against the pushing shovel as well.

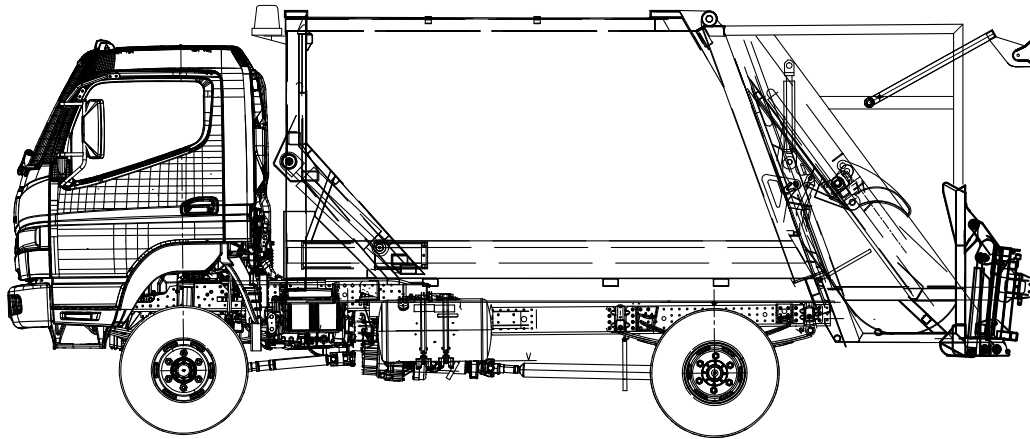
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HARD PRESS F-I. 6-7 m³ WASTE COLLECTING UNIT

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression angle of the compression unit: 60°
- compression proportion in the case of loose household wastes: 1:5
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 – 2x240 – 2x360 – 1x770 – 1x1100
- cycle time of the compression unit: 20 seconds
- continuous compression

Technical requirements of the vehicle:

- distance of the shafts: 3350 - 4100mm
- allowed total weight of the vehicle: 6500 - 7500kg

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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HARD PRESS F-I. WASTE COLLECTING UNIT

The **HARD PRESS F-I. waste collecting target machine** of 8-15m³ with compression system serves the simple and economic collection and compression of household- industrial- and in sacks packed wastes. The design and large size of the waste receptor makes it possible that the target machine can empty the waste collecting vessels both in manual and automatic operation modes, and it enables to throw manually the large wastes in pieces into it. The load ability of the basic machine determinates the maximum usability of the superstructure. The efficiency of the compression has been made possible by the pressing against the pushing shovel as well.

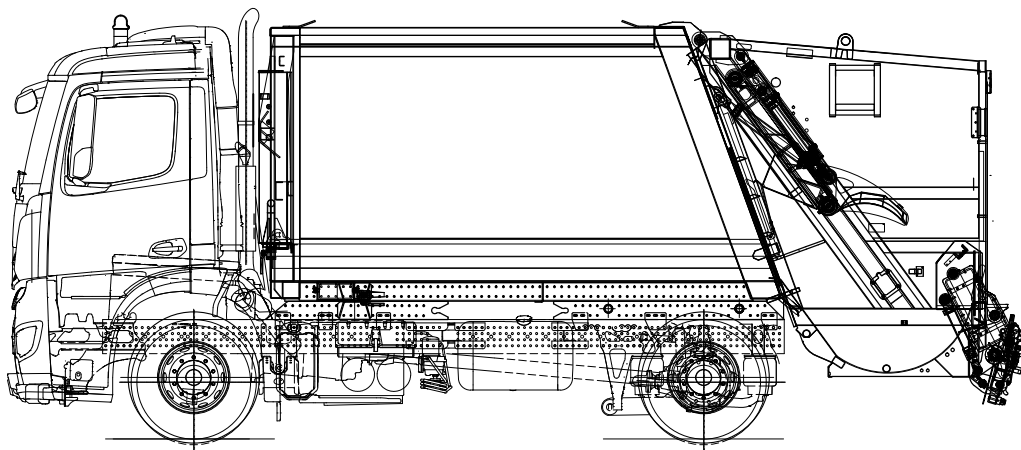
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HARD PRESS F-I. waste collecting target machine of 8-15m³ with compression system

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression angle of the compression unit: 33°
- compression proportion in the case of loose household wastes: 1:5
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 – 2x240 – 2x360 – 1x770 – 1x1100
- cycle time of the compression unit: 20 - 25 seconds
- set compression pressure: 210bar
- continuous compression

Technical requirements of the vehicle:

at the design of 8-10m³:

- distance of the shafts: 3200 - 3300mm
- allowed total weight of the vehicle: 12.000 - 13.500kg

at the design of 12-15m³:

- distance of the shafts: 3600 - 3900mm
 - allowed total weight of the vehicle: 13.000 - 16.000kg
- required max. capacity of the auxiliary gear box: 40kW

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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HARD PRESS F-I. WASTE COLLECTING UNIT

The **HARD PRESS F-I. waste collecting target machine** of 16-18m³ with compression system serves the simple and economic collection and compression of household-industrial- and in sacks packed wastes. The design and large size of the waste receptor makes it possible that the target machine can empty the waste collecting vessels both in manual and automatic operation modes, and it enables to throw manually the large wastes in pieces into it. The load ability of the basic machine determinates the maximum usability of the superstructure. The efficiency of the compression has been made possible by the pressing against the pushing shovel as well.

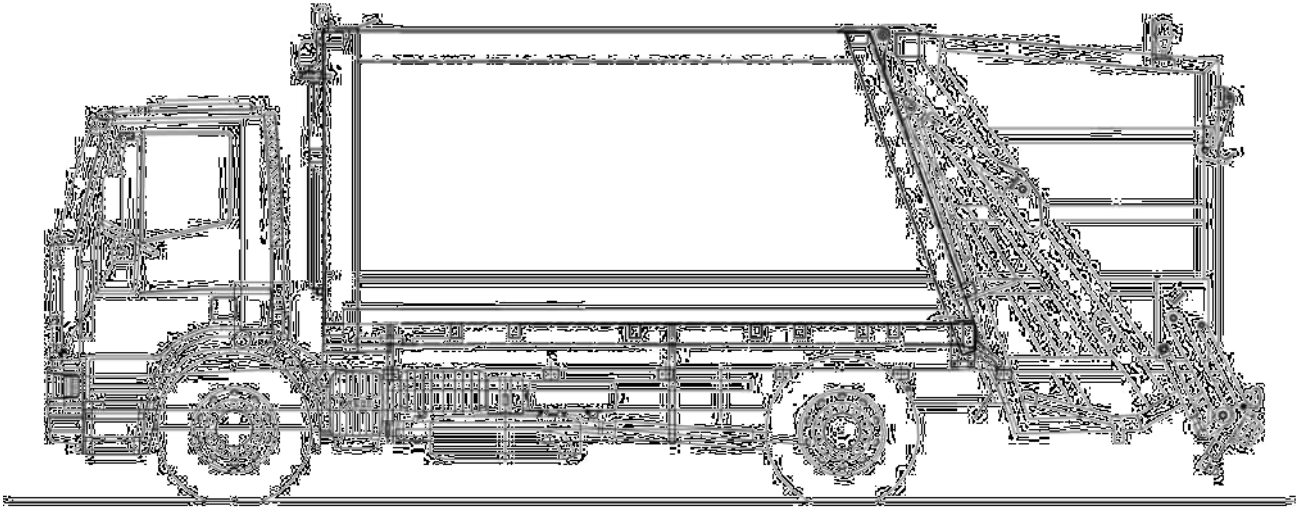
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HARD PRESS F-I. waste collecting target machine of 16-15 m³ with compression system

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression angle of the compression unit: 54°
- compression proportion in the case of loose household wastes: 1:5
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 - 2x240 - 2x360 - 1x770 - 1x1100
- cycle time of the compression unit: 20 - 25 seconds
- set compression pressure: 210bar
- continuous compression

Technical requirements of the vehicle:

at the design of 16m³:

- distance of the shafts: 3500 - 3700mm
- allowed total weight of the vehicle: 18.000 kg

at the design of 18m³:

- distance of the shafts: 3600 - 4200mm
- allowed total weight of the vehicle: 18.000kg

- required max. capacity of the auxiliary gear box: 45kW

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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HARD PRESS F-I. WASTE COLLECTING UNIT

The **HARD PRESS F-I. waste collecting target machine** of 20-22 m³ with compression system serves the simple and economic collection and compression of household-, industrial- and in sacks packed wastes. The design and large size of the waste receptor makes it possible that the target machine can empty the waste collecting vessels both in manual and automatic operation modes, and it enables to throw manually the large wastes in pieces into it. The load ability of the basic machine determinates the maximum usability of the superstructure. The efficiency of the compression has been made possible by the pressing against the pushing shovel as well.

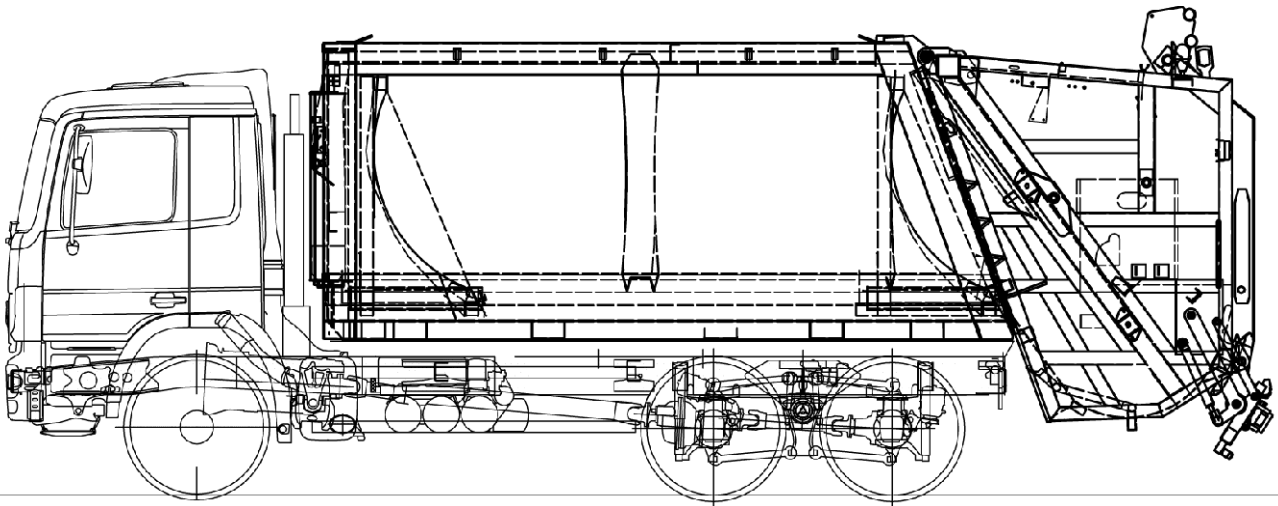
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HARD PRESS F-I. waste collecting target machine of 20-22 m³ with compression system

Technical characteristics of the superstructure

- control system: Electro- hydraulic, with panel control system with micro processors
- compression angle of the compression unit: 54°
- compression proportion in the case of loose household wastes: 1:5
- standard vessels to be emptied by a lift- in structure (given in liters):
2x110 - 2x120 - 2x240 - 2x360 - 1x770 - 1x1100
at request with an emptying arm of the large container
- cycle time of the compression unit: 20 - 25 seconds
- set compression pressure: 210bar
- continuous compression

Technical requirements of the vehicle:

at the design of 20m³:

- distance of the shafts: AB 3750 - 4100mm + BC
- allowed total weight of the vehicle: 24.000kg

at the design of 22m³:

- distance of the shafts: AB 4100 - 4400mm
- allowed total weight of the vehicle: 27.000kg

required max. capacity of the auxiliary gear box: 45kW

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SERES KH EM 10-6. WASTE COLLECTING VEHICLES WITH VESSEL WASHING UNIT

The **SERES KH EM 10-6.** waste collecting machines with vessel washing unit and compressing system are rear loaders, and they are equipped with a continuously or intermittently operating collecting and compressing equipment and a vessel washing unit. The washing unit uses detergent solution and high pressure to remove the contamination from the internal and external surfaces of the container in a spatter-free and drain-free way.

The washing temperature of the detergent solution is adjustable.

The washing equipment is diesel and has an automatic switching heating system.

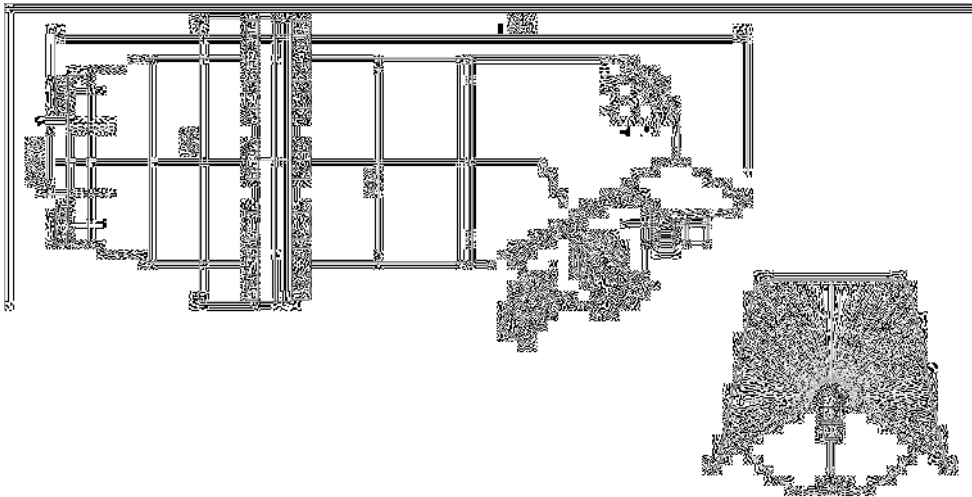
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SERES KH EM 10-6 waste collecting target machine with vessel washing unit

Collecting tank with extendible wall

- Volume of the collecting tank: 10m³
- Welded, volume optimised collecting tank
- The bottom of the tank is welded fluid tight
- *Double-acting hydraulic, telescoping power cylinders (2)*, for moving the extendible wall, which is guided on the longitudinal beam on the side

Receiver tank

- **S-K200** type combined feeding equipment for emptying the tank, which size is according to EN840-1 or EN840-2 standard (2x70l; 80l; 90l; 110l; 120l; 240l; 360l; plus 1x660l; 770l; and 1100l). The upper opening structure is suitable for handling flat-cover selective collection tanks, too.
- The trough plate is made of 10mm wide, excessively wear-resistant steel in XAR 400 quality, in order to increase its life
- Built in a closed way, so there is no waste sedimentation, and it can be cleaned without any trouble
- Emptying the loading tank without remainders, by cleaning cycle
- The control of the equipment can be automatic, semi-automatic or manual

Vessel washing unit

- It uses detergent solution and high pressure to remove the contamination from the internal and external surfaces of the container in a spatter-free and drain-free way. The washing temperature of the detergent solution is adjustable.
- It is diesel and has an automatic switching heating system
- Clean water tank of 3000l
- Sewage tank of 3000l
- The tanks are replacement superstructures, and they are equipped with breakwater and overpressure protection
- 2 high pressure (max. 150bar) washing headers
- Automatic, cyclic internal and external container cleaning
- The amount of water used: 2x10l = for 2x110-240l vessels, 1x20 lit = 1x1100lit vessels
- Cycle time: vessel emptying + washing + extension time
for 2 110-240l vessels: 5 minutes
for 1 1100l vessel: 5 minutes
- Water temperature: adjustable up to 75°C

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country. Supply of spare parts from our stock immediately.

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SKH CONTAINER TRANSPORTING TARGET MACHINE

The **SKH container transporting target machine** is able to transport containers and to empty the container by tilting to be found on a vehicle.

The useful load is of 4-7tons depending on the carrying chassis load ability.

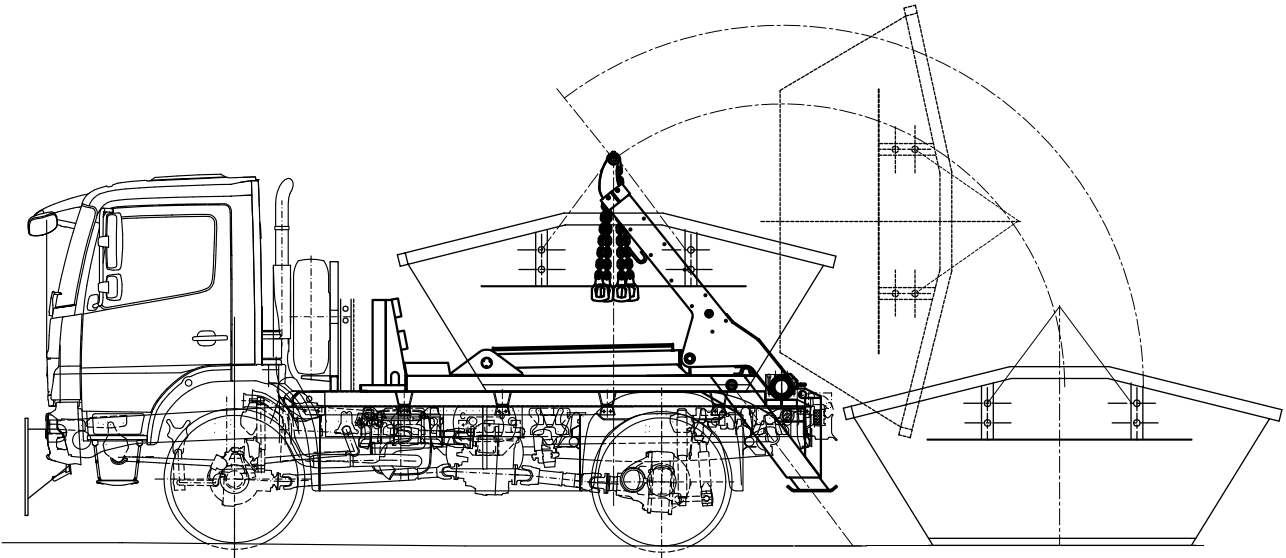
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The universal container loading vehicle and chassis assembled with transporting superstructure with the type of SKH 4000-7000 ATT, is a target machine which is downloading and uploading behind the vehicle provided with useful lifting capacity of 4000 - 7000 kg. It can be used with standard transport containers built in accordance with the target.

- in industrial plants:

Spreading raw materials, liquids, muddy and sedimentary slops, unit loads on pallets

- at construction companies:

Unit loads of sand, gravel, lime and the ones on pallets

- in agricultural plants:

Grained products, artificial fertilizer, unit loads on pallets, etc.,

- in communal plants:

Industrial, communal wastes, demolished materials, debris, other loose wastes, etc.,

Technical requirements of the vehicle:

- at a useful lifting capacity of 4000kg:

allowed total mass of 10-11 tons (parabolic suspension with 2 shafts)

- at a useful lifting capacity of 500kg:

allowed total mass of 11-12 tons (parabolic suspension with 2 shafts)

- at a useful lifting capacity of 5000kg:

allowed total mass of 11-12 tons (parabolic suspension with 2 shafts)

- at a useful lifting capacity of 7000kg:

allowed total mass of 13.5 - 15 tons (parabolic suspension with 2 shafts)

- necessary capacity of the auxiliary gear box on the chassis: 40kW

shaft distance of the chassis: 3200 - 3500mm.

Technical characteristics of the superstructure:

- operating pressure of the hydraulics: 200bar

- control system: pneu-hydraulic (from the operator's box, control system with joystick) and mechanical

- lever rider: 400 or 600mm

- closed length of the lever: 2020mm.

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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SKH CONTAINER TRANSPORTING TARGET MACHINE

The **SKH container transporting target machine** is able to transport containers and to empty the container by tilting to be found on a vehicle.

The useful load is of 8-16tons depending on the carrying chassis load ability.

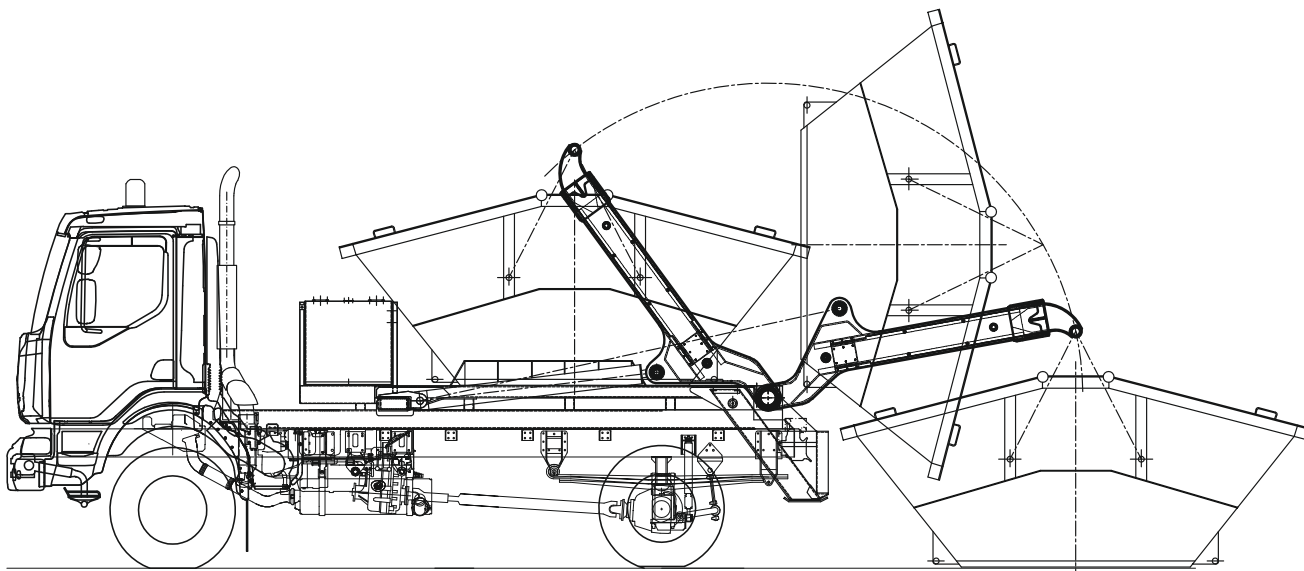
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The universal container loading vehicle and chassis assembled with transporting superstructure with the type of SKH 8 000-16 000 ATT, is a target machine which is downloading and uploading behind the vehicle provided with useful lifting capacity of 8000 - 16.000 kg. It can be used with standard transport containers built in accordance with the target.

- in industrial plants:

Spreading raw materials, liquids, muddy and sedimentary slops, unit loads on pallets, etc.,

- at construction companies:

Unit loads of sand, gravel, lime and the ones on pallets, etc.,

- in agricultural plants:

Grained products, artificial fertilizer, unit loads on pallets, etc.,

- in communal plants:

Industrial, communal wastes, demolished materials, debris, other loose wastes, etc.,

Technical requirements of the vehicle:

- at a useful lifting capacity of 8000kg:

allowed total mass of 16.5-18tons (parabolic suspension with 2 shafts)

- at a useful lifting capacity of 10.000kg:

allowed total mass of 18-19 tons (road spring suspension with 2 shafts)

- at useful lifting capacity of 12.000 and 16.000kg:

allowed total mass of 23-26 tons (with 3 shafts)

- necessary capacity of the auxiliary gear box on the chassis: 40kW

- shaft distance of the chassis: 3700 - 4100mm.

Technical characteristics of the superstructure:

- operating pressure of the hydraulics: 200bar

- control system: pneu-hydraulic (from the operator's box, control system with joystic) and mechanical

- lever rider: 1200mm

- length of the lever rider: 2700 + 1200mm

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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HOOKLIFT CONTAINER TRANSPORTER TARGET MACHINE

The **HOOKLIFT** container transporter target machine is suited to transport containers, and also to unload the containers that are on the vehicle by tilting. The payload capacity is 20tons depending on the maximum load capacity of the load-bearing chassis.

(Optionally: With the crane that can be mounted behind the chassis cab it is capable of self loading!)

Manufacturer:

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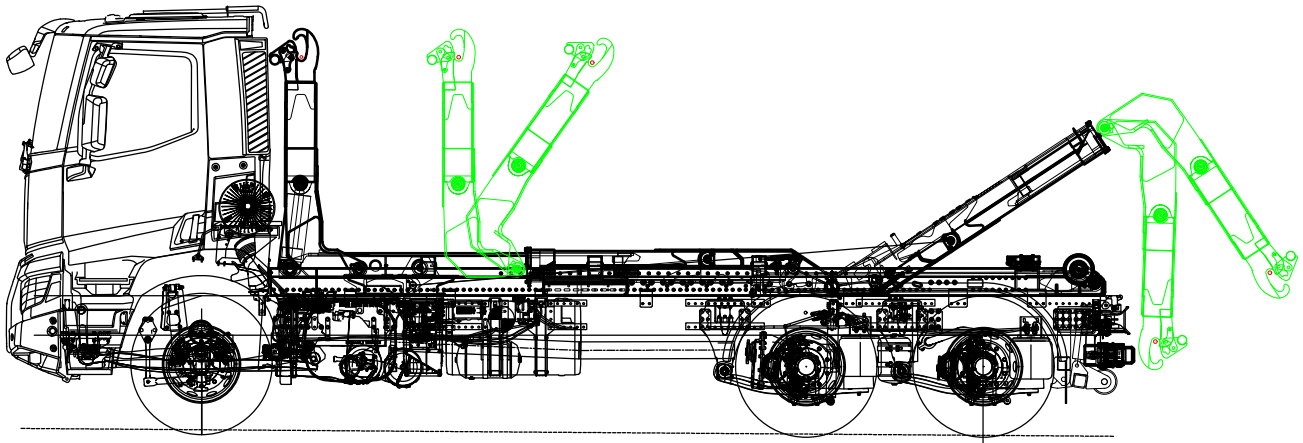
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The chassis with the mounted **HOOKLIFT S-20** model hook-lift equipped container transporter superstructure is a target machine that can load behind the vehicle and unload by tilting. It's useful lifting capacity is 20.000 kg. With containers that are designed for specific purposes and comply with the DIN 30722 standard it can be used:

- in communal plants:
industrial, household, selective waste, demolition material, debris, other loose garbage, etc.
- in industrial or construction plants:
disperse raw materials, sludgy and sedimentary slurries, scrap-iron, sand, gravel, etc.,
- in agricultural plants: grains, fertilizer, etc.,

Vehicle Technical Requirements:

- 26 tons allowable gross weight
- necessary power output of the auxiliary engine on the chassis: 40kW
- chassis wheelbase: A-B 4100 - 4500mm

Technical characteristics of the superstructure:

- Lifting capacity: 20t
- Transportable container length: 4500 - 7000mm
- Horizontal container movement: 1200mm
- Hook height: 1570mm
- Tilting angle: 46°
- Hydraulic container mounting
- Bridge, or roller support to take off the load
- Hydraulics operating pressure: 300bar

Control:

- electro-pneu-hydraulic (joystick control from control box) and mechanical emergency operation
- controllable from the cabin or from beside the cabin accelerated operation for empty containers

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
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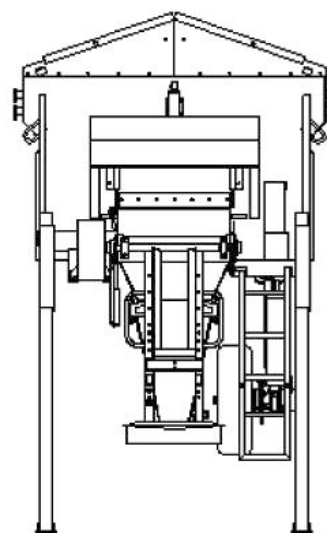
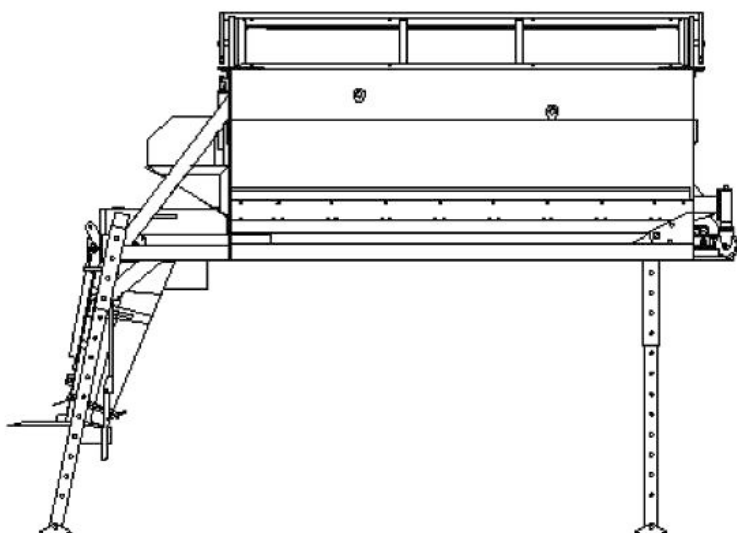


SLS MECSEK SALT SPREADING EQUIPMENT

The salt spreading equipment with the type of Mecsek is able to economical and safe transporting of salt, salt mixture and salt solution used for defrosting, and their steady spreading on public roads at a high area- capacity.

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The **SLS salt spreading equipment** can be installed on tilting table, on container transporting vehicles. The dependence on the road, the setting of the spreading quantity and width can be set centrally on the control board or manually on the superstructure, which is electrically connected to the tachograph of the basic machine with a connecting cable. The equipment installed on trucks is able to make the highways, public roads and settlements free of slippery in the width of 2-8m. In accordance with the regulations, the machine is able to spread salt with the quantity of 8-40gr/m, harsh material of 40-200gr/m with the steadiness of $\pm 20\%$. The driving of the salt spreading equipment can be done from the hydraulic system of the vehicle, from the hydraulic pump assembled on the shaft of the crutch wheel, where the road dependence will be provided by the crutch wheel.

Types:

SLS 1.5-I	1.5-II
SLS 2.5-I	2.5-II
SLS 4.0-I	4.0-II
SLS 4.5-I	4.5-II
SLS 6.0-I	6.0-II

Control system:

- manual setting on the superstructure at the type I spreading sensing microphone
- proportional control system with tachograph sign at the type II.

Accessories:

- storage feet
- covering canvas with strippable support
- flashing warning light, yellow
- working lamp
- spreading sensing microphone

Driving types:

- pump drive assembled to the engine
- pump drive with aggregate

Option:

- wetting equipment
- setting of the electric spreading picture

Controllable elements:

- speed setting of the discharging structure
- spreading tray (spreading picture and width of spreading)
- wetting pump's rev
- Setting of the speed

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country. Supply of spare parts from our stock immediately.

Information: Pécs +36 (72) 526-666, Barcs: +36 (82) 461-777

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MECSEK SNOW PLOUGH

The snow ploughs with the type of SH Mecsek can be properly used to clean the roads, parking places and other public areas from the snow.

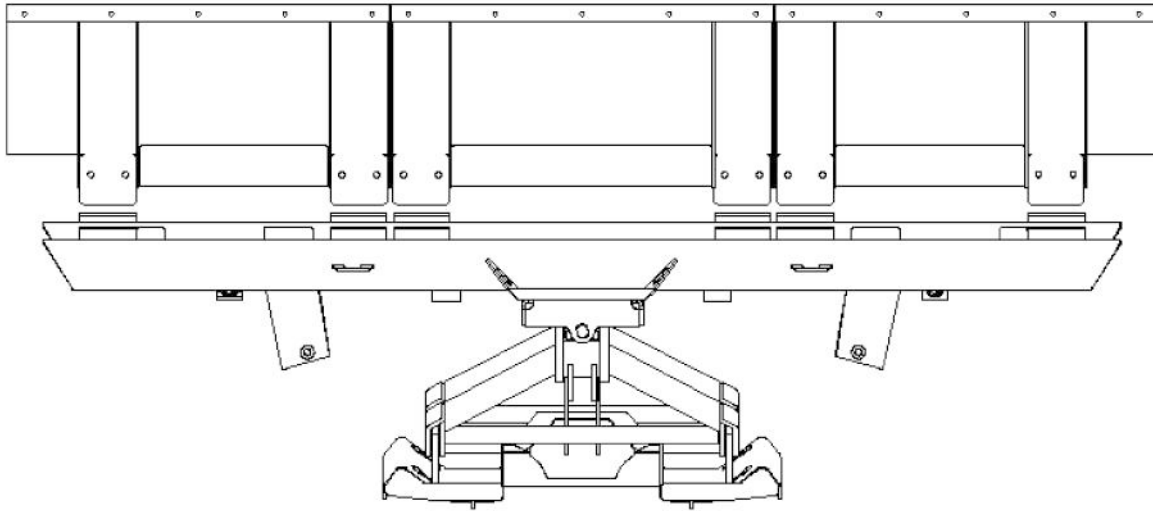
Manufacturer:

SERES Company Ltd. for Mechanical Engineering and Trade

- ▶ Headquarter: 7630 Pécs, Bajor St. 2/1.; Tel.: +36 (72) 526-666; e-mail: info.pecs@seres.hu
- ▶ Premises: 7570 Barcs, Mező St. 70.; Tel.: +36 (82) 461-777; e-mail: info@seres.hu
- ▶ Premises: 2100 Gödöllő, Pattantyús Á. krt. 2.; Tel.: +36 (30) 257-1145; e-mail: sarkozy@seres.hu

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The **snow ploughs with the type of SH** can be properly used to clean the roads, parking place and other public areas from the snow. The snow ploughs with the type of SH have been developed on such a way that they should adapt themselves at the possible best way to the surface to be cleaned. The snow ploughs with the type of SH can be installed first of all to trucks and universal working machines, and on such types of tractors which have the necessary pushing force and driving capacity. Furthermore these ones must be provided with a hydraulic system and a plate for holding the tool in accordance with the standard of DIN 76060 B. The control of the snow plough will be done by the control board from the driver's cabin of the vehicle. The snow plough is able to clean the snow both to the left and to the right side. The snow ploughs with the type of SH are sectionalized ploughs, and based on it ploughs with different widths can be done. The ploughs can be manufactured with the combination of segments with the width of 800, 900, 1000 and 1100 mm. The cutting edges of the snow ploughs will be made of rubber and vulcanized rubber on steel.

The snow ploughs with the series of SPT will be sold in several sizes in accordance with the table see below.

Type	Width of the plough (mm)	The width of the ploughing at a turn of 30°	The number and width of the segments (mm)
SH 2.4	2400	2070	3 x 800
SH 2.7	2700	2330	3 x 900
SH 3.0	3000	2590	3 x 1 000
SH 3.2	3200	2770	2 x 1100 + 1 x 1000

Full administration services, at request with the provision of self-propelling chassis, with work protection qualification, with technical interrogation, putting into traffic service and with the training of the operator. Service within 24 hours on the entire area of the country.
Supply of spare parts from our stock immediately.

Information: Pécs +36 (72) 526-666, Barcs: +36 (82) 461-777

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LIQUID TRANSPORTING, WETTING VEHICLES

A superstructure appropriate even for transporting of drinking water, provided with filling up and draining fittings, with object washing unit of medium pressure, with sprinkler hose.

Manufacturer:

SERES Company Ltd. for Mechanical Engineering and Trade

- ▶ Headquarter: 7630 Pécs, Bajor St. 2/1.; Tel.: +36 (72) 526-666; e-mail: info.pecs@seres.hu
- ▶ Premises: 7570 Barcs, Mező St. 70.; Tel.: +36 (82) 461-777; e-mail: info@seres.hu
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TILTING AND FIXED TABLES, CRANES

Our superstructures can be found on the full palette of the utility vehicles, with loading capacity from 3,5tons up to 24tons, at request completed with a crane.

Manufacturer:

SERES Company Ltd. for Mechanical Engineering and Trade

▶ Headquarter: 7630 Pécs, Bajor St. 2/1.; Tel.: +36 (72) 526-666; e-mail: info.pecs@seres.hu

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HYDRAULIC CYLINDERS



- Cylinder manufactured in large series and tailor made Manufacturing with CNC technology, engineering made by computer, with short deadline.

- Renewing and reparation with the use of quality raw materials and sealings, with warranty.

- size range from $\varnothing 32/ \varnothing 10 \times 5$ mm up to $\varnothing 200/ \varnothing 160 \times 3000$ mm
- highest pressure: 400 bar
- test pressure, trial run
- unique identification
- Warranty

SEALINGS



- Immediate serving and parcel sending from stock.

- piston sealings (compact sealings)
- rod sealings (groove rings)
- Leading stripes
- pulling down rings (for dust)
- static sealings ("O"- rings)

Manufacturer:

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SERES

SERES Engineering **Ltd.**
Industry and Trade

Machine manufacturing, hydraulics and machine service

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