



More than products. A partnership.

# JUNIOR

Dry agent spreader for emergency spreading

JUNIOR is a spreader intended for spreading sensitive parts of roads such as overpasses, bridges, passes, etc. It is available in dry agent hopper volumes of 1.0, 1.2 and 1.5 m<sup>3</sup> and is easily installed on smaller trucks.



# Solution for the most sensitive parts of the roads

JUNIOR is a spreader primarily intended for emergency spreading of the most sensitive parts of roads of high importance. Built on road patrol vehicles, it becomes an indispensable tool for spreading and defrosting bridges, overpasses and passes on major roads.

Due to its compact dimensions, JUNIOR can be installed on smaller, multi-purpose trucks, which makes it an excellent choice for winter road maintenance in urban areas.

The transport system of the JUNIOR spreader is auger conveyor system. The protection of the auger prevents interruptions due to excessive pressure of the spreading material, and the additional cover keeps the spreading material dry and thus reduces the possibility of forming a tunnel effect. Built-in reflective markings and rotating lights ensure the visibility of the vehicle and spreader in all weather conditions.

JUNIOR is operated by the EPOS spreader control unit, directly from the vehicle cab. It can be easily and quickly installed on all types of suitable vehicles. Robust and long-lasting design makes the JUNIOR spreader a professional solution for emergency interventions both in urban areas and on open roads.



## WHY CHOOSE JUNIOR SPREADER? ❖



### ✓ A solution for the most sensitive parts of the roads

JUNIOR is developed and specially intended for spreading of the sensitive parts of roads where more ice is formed, such as bridges, overpasses, passes etc.



### ✓ Compact winter service dimensions

Due to its smaller dimensions, JUNIOR can be installed on smaller trucks intended for road patrols. The JUNIOR spreader installed in this way becomes an indispensable tool for spreading bridges and overpasses on important roads.



### ✓ All functionalities of the RASCO spreader in smaller dimensions

The transport system of the JUNIOR spreader is auger conveyor system, while the dry agent spinner can work at widths of up to 6 or 9 meters. The spreader is easily operated from the vehicle cabin, with the help of an advanced EPOS control unit.

The current spreader position, spreading parameter settings, operating hours and real-time spreader movement and usage data are recorded in the ARMS information and communication system - RASCO's software solution for fleet monitoring and optimization.



### ✓ Total lowest cost of ownership

Its unique surface protection system, ease of use and maintenance, robust design, and high-quality materials guarantee a safe investment in the JUNIOR spreader.

Proven durability, safety, efficiency, and simplicity, as well as the availability of spare parts and after-sales support, guarantee the lowest total cost of ownership currently available on the market.





### 1 | Transport system

It consists of a transport auger that brings the spreading material to the spinner. The protection of the auger prevents interruptions due to excessive pressure of the spreading material, and the additional cover keeps the spreading material dry and thus reduces the possibility of tunnel effects.



### 2 | Distribution system

Available as dry agent spinner for rotation spreading. The spinner is available for spreading in widths from 1 to 6 meters and from 2 to 9 meters.

### 3 | Spreader monitoring

Kao dio integriranog sustava nadzora rada posipača i kretanja vozila omogućava jednostavno i učinkovito upravljanje voznim parkom zimske službe. Optimizira količinu upotrijebljenog materijala za posipanje i potrošenog goriva.

### 4 | Traffic signalization

It is performed according to the legal regulations of the country in which the spreader is used. Reflective stickers, rotating lights and illuminated signs ensure good visibility of spreaders and vehicles in all weather conditions.

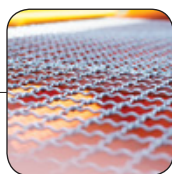
### 5 | Control units

Ergonomically designed and easy to use, the EPOS control units allow you to control the spreading parameters from the cab of the vehicle without looking away from the road and obstructing the driver while driving.

### 6 | Dry agent hopper

Dostupan u zapreminama od 1,0, 1,2 te 1,5 m<sup>3</sup>. Konstruiran i proizveden na način koji sprječava prianjanje materijala za posipanje uz stjenke posipača, eliminira efekt tunela i osigurava kontinuirani tijek materijala prema distributivnom sustavu.





### **7 | Protective net above the hopper and spreader cover**

They protect the spreader from damage during filling of the spreading material and prevent the material in the dry spreading tank from getting wet.

### **8 | Vehicle mounting system**

The spreader is very easy to mount on the crates of smaller trucks, and is additionally secured with chains or straps.

### **9 | Spreader drive**

The JUNIOR spreader can be driven via the hydraulic system on the vehicle on which it is installed or via a separate hydraulic unit.



# Every spreader needs a vehicle

JUNIOR spreaders can be installed on smaller trucks intended for winter maintenance. The installation is done in the vehicle tipper box and the spreader is fixed by appropriate chains or straps with clamping elements.



## RASCO spreader safety

Mounting the spreader on vehicles is performed according to strict safety standards and recommendations of the vehicle manufacturer.

The spreaders can be quickly and easily mounted or de-mounted from vehicles.

Multiple safety elements protect the user during spreader operation and maintenance.

Spreaders are marked with light and reflective markings that ensure visibility of the winter service vehicle regardless of weather conditions.





# Solution for vehicles with and without built-in hydraulic system



## Vehicles with built-in hydraulic system

JUNIOR spreaders can be powered using a built-in hydraulic system of the vehicle if it is designed according to the EN ISO 15431 standard.



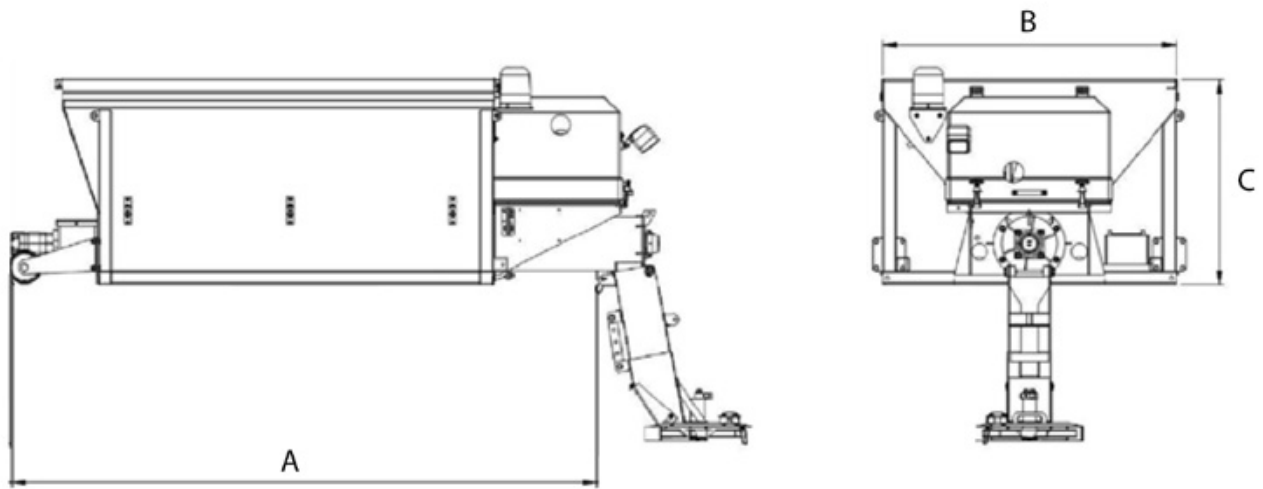
## Vehicles without built-in hydraulic system

If the vehicle is not equipped with a hydraulic system, the JUNIOR spreader can be powered using the highly reliable diesel-hydraulic power unit which is available as an option with the spreader.

With this solution, the spreader becomes independent of the vehicle and can be easily and quickly moved to any carrier vehicle of sufficient capacity.



## TEHNICAL CHARACTERISTICS



Model	Dry agent volume	Minimal mass of the device	Spreading width	A	B	C
				Loading width	Hopper width	Hopper height
	m <sup>3</sup>	kg	m	mm		
1.0	1,0	380	1 - 6 (2 - 9)	2610	1300	905
1.2	1,2	600		2850		950
1.5	1,5					

## CHOICE OF EQUIPMENT

- Cover tarpaulin
- Distribution system extension
- Spinner for spreading up to 6 or 9 m
- Storage legs
- Control units and sensors for automation of spreading
- ARMS system
- Diesel hydraulic power unit
- Working and rotating lights



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