



**More than products. A partnership.**

# KKM

Front boom mower for small municipal vehicles

KKM is a front mower with 4 metre boom arm reach. It can mow on the both sides of the vehicle it is mounted on.





# Professional mowing with small municipal vehicles

The KKM front boom mower with a reach of up to 4 meters is intended for the maintenance of vegetation along roads. Due to its smaller dimensions and mounting on small municipal vehicles, it is ideal for urban and rural areas, as well as for hard-to-reach areas outside cities.

KKM consists of a front frame with slide rails, intended for holding the main mower support. Two hydraulically operated arms are mounted on the support. A mowing head is placed at the top end of the upper hydraulic arm. The support wheels of the front frame ensure the stability of the device in operation. Mowing side can be changed from right to left, by simple rotation of the boom arms and the working head.

Boom arms are made of high quality steel and can be mounted with different types of working tools, which increases the number of possible operations with the mower.

The mowing head is used to mow smaller types of vegetation. The mower's rotor has a spiral blade arrangement, which thoroughly mows and shreds the vegetation, with minimal energy consumption. Apart from a mowing head, hedge trimmers can also be mounted on the mower.

The mower control consists of a control unit and an ergonomically designed joystick that enables fast and efficient operation, and ensures complete operator comfort even during continuous operation in several shifts. Control is available in 2 versions: selectively proportional (SelectMotion) or fully proportional (TotalMotion).

The mower is equipped with advanced control and safety mechanisms. Safety hydraulic elements prevent the mower from being damaged if the working tool gets stuck on obstacles.





## WHY CHOOSE KKM BOOM MOWER?



### ✓ Mowing on both sides

The KKM boom mower can work on both the right and left side of the vehicle. The side is changed by a simple process of rotating the crane arms and working tools that the operator can do in just a few minutes.



### ✓ Ideal for urban areas

KKM is especially intended for mounting on small municipal vehicles. It is ideal for mowing vegetation in urban and rural areas, and for hard-to-reach areas outside cities.



### ✓ All functionalities of large boom mowers in smaller dimensions

KKM has a boom arm reach of up to 4 meters and a mowing width of 1 meter. Despite its smaller dimensions, the mower is equipped with all the functionalities of larger boom mowers. It is made of high-quality resistant steel, and can be equipped with a mowing head or hedge trimmers.



### ✓ 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 KKM mower.

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 | Front mounting plate

Used to mount the mower to the front side of the drive vehicle.

### 2 | Slide rail

Enables to move the mower's arms to the left or right in order to easily avoid traffic signs and poles when mowing sidewalks along roads.

### 3 | Slider

The construction of the slider is equipped with a rotating column with a lever and a safety cylinder, safety elements and a hydraulic motor.

### 7 | Control system

It can be fully proportional (TotalMotion) or selectively proportional (SelectMotion). The user controls the device using the joystick and control panel in the vehicle cab. The system provides complete control over the mower and enables safe and easy mowing.

### 8 | Hydraulic installation

The control of the mower arms and the drive of the working tool is performed via hydraulic installation of the drive vehicle.

### 9 | Working tool

It is possible to install two types of working tools on the mower's arms: mowing head or a hedge trimmer. Boom arms allow easy tool change and 180° rotation, for operation on both sides of the vehicle.





#### 4 | Safety hydraulic system

Enables automatic rotation of the mower's arms backwards if a contact with an obstacle occurs.

#### 5 | Rotating column

It is used to hold the hydraulically powered boom mower's arms and turn the arms to the desired working position.

#### 6 | Boom arms

Reliable and durable, made of a high quality steel, with a reach of 4 meters. They provide excellent work results and can be used to carry a working head or hedge trimmer.

#### 10 | Auxiliary wheels

They reduce the load on the front mounting plate of the vehicle.

#### 11 | Storage legs

They are used for mounting / demounting the mower from the drive vehicle, and storing the device after the end of the season.







# Intuitive control systems developed for the user

The control of the crane mower is enabled through an advanced control unit located inside the vehicle cabin. It consists of a joystick for crane arms and working tools operation, and a color display with working commands for mower relief, floating position, and additional functions.

Depending on the terrain which is being maintained, and user preferences, there are two control systems available:

## SELECTMOTION

Selective proportional control

Selective proportional control allows easy operation of the mower's crane arm and working tool on more demanding terrains. Each movement of the joystick results in the movement of one selected hydraulic cylinder.

Therefore, moving the crane arms to the desired position requires more movement of the joystick.



## TOTALMOTION

Fully proportional control

Fully proportional control is intended for working on difficult terrains, full of obstacles, where continuous manoeuvring with crane arms is required. Control with the use of joystick allows quick changes of the crane arm position, through the movement of several cylinders in one joystick movement.



## PREPARATION OF THE DRIVE VEHICLE



### Front axle fixation

The vehicle must be equipped with a front axle fixation so that it and the mower are protected from damage during operation.



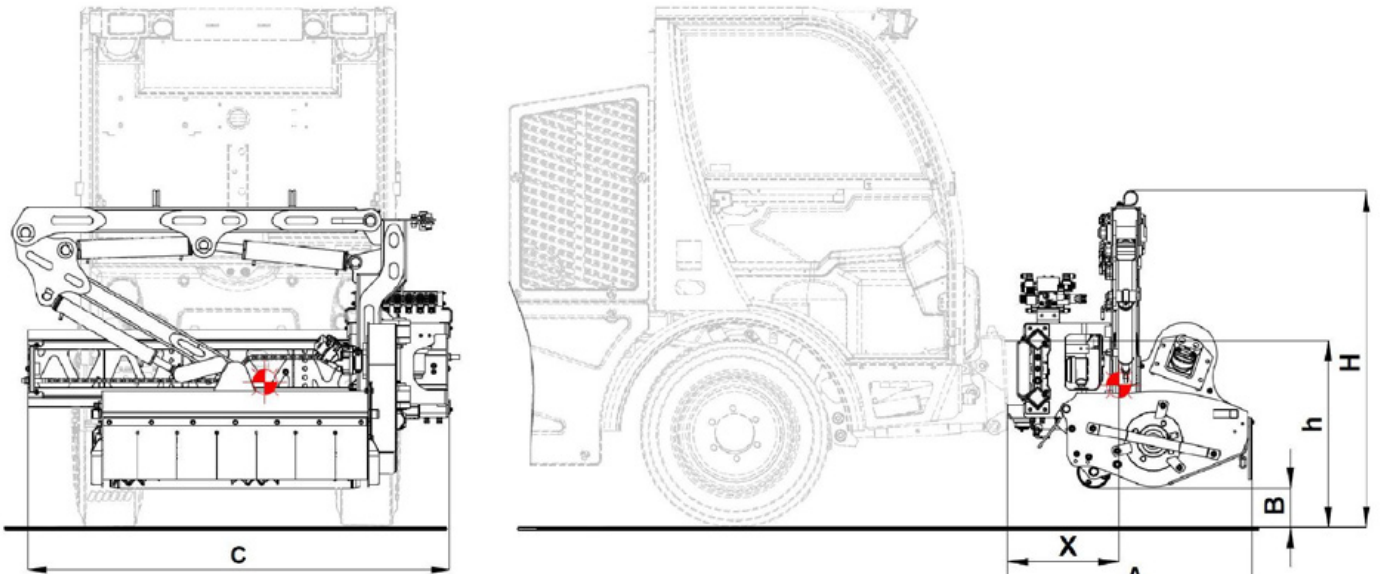
### Counterweight

In order to maintain the correct position of the device in operation, a counterweight or other device that loads the rear axle, such as a salt spreader, must be fitted to the rear of the vehicle.



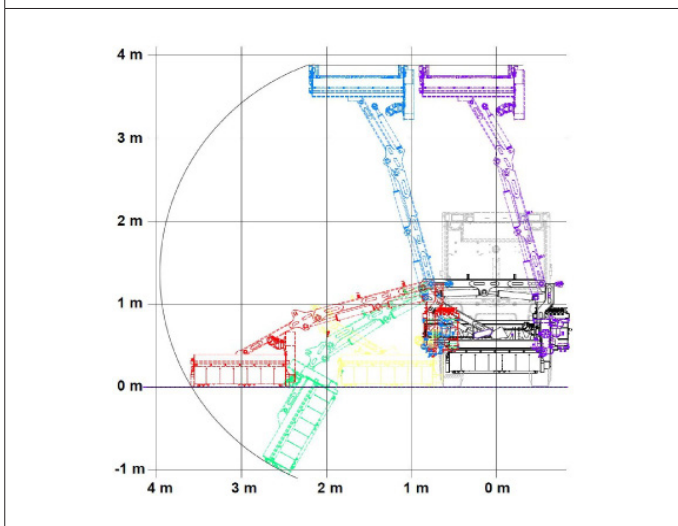


## TECHNICAL CHARACTERISTICS



<b>A</b>	Distance between the furthest device point and the front panel of the vehicle	mm	1160
<b>B</b>	Distance between the mowing head and the ground		250
<b>C</b>	Device width in transport position		1700
<b>H</b>	Total mower height from the ground		1500
<b>h</b>	Position of the front panel of the vehicle in relation to the ground		800
<b>X</b>	Position of the centre of gravity		480
	Movement of the mower on a crosshead guide		1300
	Operating reach (from the centre of the vehicle with the mowing head L = 1000mm)		3550

Operating reach diagram of KKM front mower



## CHOICE OF EQUIPMENT



- Mowing head
- Hedge trimmer
- SelectMotion control system
- TotalMotion control system
- Counterweight with storage legs with jacks and wheels



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