

**BUCHER**  
municipal

# Unix

# snow ploughs

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Boost your efficacy with Unix  
and turn snow days into safe days





BUCHER



Unix Mu

# Universal, **variable** geometry snow plough

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The most effective plough for complex **urban and national road clearing operation.**

Boost your efficacy with Unix. The snow plough that combines to the advantages of a straight plough with the versatility of a variable geometry snow plough.

Fast clearing speed, high safety and incredible versatility makes Unix the ultimate tool for your mountain roads and urban clearing. Difficult pavements as cobblestone, different kind of snow in the same mission or lots of obstacles does not represent any more a problem and noise emission are reduced almost to zero.



## Meet the **Unix** snow plough

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### **Make your urban or mountain area clearing more efficient, safer and faster**

If you have to manage snow clearing in city center, bus stops, parking lots, cross roads, narrow roads but also fast clearing sections between them, Unix is the ultimate tool out there for you.

The capability of Unix snow plough make it ideal for those who needs a multi-purpose, all-rounder equipment.

Close one wing for crossroad and bus stops, open or close both in parking lots and narrow road: Unix has always the correct setup.

Unix is the solution for many cities that are still fighting manually problem of accumulation of snow that traditional plough cannot handle.

On open roads it's perfectly suited to be used as a straight snow plough with all the safety and clearing capability of specialized equipment.

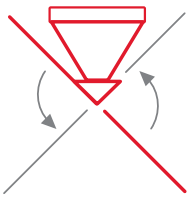
### **Engineered to meet your requirements**

4 main body size and up to 12 width variant, 2 scraper blade configuration, 15 mounting system, 3 driving system are only a few of the possibilities to perfectly fit your vehicle maximizing reliability and efficiency.

With a high customization possibility you can get exactly what you need for your specific applications. As a matter of fact Unix comes with sizes and option for every vehicle, from light compact sweeper up to heavyweight Unimogs and tractors or trucks.

Unix single or double scraper blade system ensure you always work with the best setup, no matter if the snow is soft, wet or hard and iced.

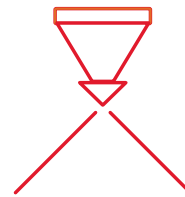
The extensive use of innovative and recyclable material and technical solution improves performance while reducing maintenance and therefore cost.



A. one-side



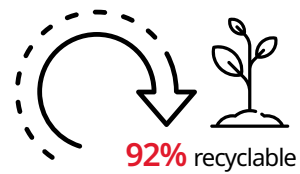
B. wedge



C. shovel

## Highlight points

- 3 working configuration infinitely adjustable while clearing
- Unique design and technical solution
- Perfect clearing of soft, wet, hard and iced snow
- Totally safety both with single or double blade
- Extreme protection from corrosion
- Tackle the snow saving the pavement
- Around zero noise and vibration emission



The Unix series is made up of 92% from recyclable materials, including:  
 82% steel  
 5% plastic  
 5% rubber

# Your challenge, our **Unix** according to your needs

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## Applications:

Mountain roads / big - medium - small city / bicycle lanes / National road

Designed for your urban and mountain clearing operation.

Suitable for clearing soft and wet or compacted snow over mountains even with high depth of snow.

Extremely effective for narrow road, walkways, bicycle lanes, city center and historical neighbour.

## Product variations, different sizes for all uses:

Su - Ru - Lu - Mu





**Unix Su size**

**Vehicle**

Perfectly suitable for sweepers, narrow track implement carrier, compact tractors, skid loaders and light trucks.

Scraper blade length	mm	1400 to 2400
Clearing width	mm	1190 to 2145
Narrow passage	mm	1190 to 1950
Weight	Kg	210 to 285
Center of gravity	mm	245 to 440
Shield height - front / later	mm	650 / 770



**Unix Ru size**

**Vehicle**

Perfectly suitable for medium sized implement carrier, tractor under 90 hp tractors, big skid loaders, compact wheel loaders and medium category trucks.

Scraper blade length	mm	2800 to 3000
Clearing width	mm	2560 to 2670
Narrow passage	mm	2410 to 2560
Weight	Kg	520 to 650
Center of gravity	mm	520 to 650
Shield height - front / later	mm	850 / 1060



**Unix Lu size**

**Vehicle**

Perfectly suitable for medium to heavy sized implement carrier, tractor between 80 to 120 hp, wheel loaders and heavy trucks.

Scraper blade length	mm	3000 to 3200
Clearing width	mm	2450 to 2850
Narrow passage	mm	2530 to 2680
Weight	Kg	625 to 770
Center of gravity	mm	550 to 560
Shield height - front / later	mm	950 / 1140



**Unix Mu size**

**Vehicle**

Perfectly suitable for heavy sized implement carrier, tractor over 120 hp, wheel loaders and heavy trucks.

Scraper blade length	mm	3200 to 3600
Clearing width	mm	2570 to 3200
Narrow passage	mm	2570 to 2.850
Weight	Kg	970 to 1300
Center of gravity	mm	630 to 605
Shield height - front / later	mm	1230 / 1385

## Key features

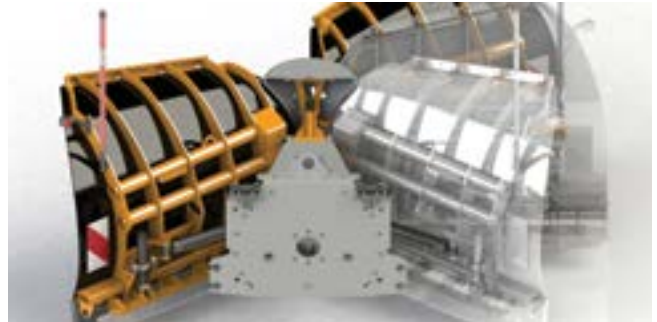
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Unix can be used in 3 main configuration stepless adjustable between them.

One-side straight plough: the shape of the mouldboard, combined with the override protection, allow a safe high speed working with the comfort and clearing results of a standard straight plough.

Wedge plough configuration: the high and open profile of the mouldboard ensure an excellent evacuation of snow from the outline and makes easy clearing very large amount of snow. It is also ideal to operate in narrow passages because of the extremely compact dimensions when Unix is V shaped.

Shovel plough configuration: this configuration it's perfect to clean parking lots, squares or in every case it is not possible clear aside the snow, as in presence of narrow passages, crossroads or private driveway.



### Universal, variable geometry snow plough Shape your plough when you need and as much as you need

- 3 main position stepless adjustable
- One side fast clearing totally safe and performant
- Single wing operation ideal for crossroad and bus stops
- Double wing operation ideal for parking lots and narrow road



### Neotech 2S, the flexible single part scraper blade. The best clearing result on soft and wet snow

- Perfect clearing, uninterrupted single section scraper blade
- Flexible, follow perfectly uneven road profile
- Working life up to 5 times the traditional steel blades
- Around zero noise and vibration emission
- Exceptional overriding capability



### Double scraper blade neoprene Neotech 2S + high abrasion resistant quenched and tempered steel with hardness 400 HBW

- Optimal setup for every snow conditions
- Possibility to switch while clearing
- Override protection according to European safety norms





**Innovative materials, the Polystone mouldboard.**

- Improved snow sliding, consumes less energy while clearing
- Impact resistant, flexes into original shape after impact
- Lighter than steel, less wear to vehicle front axle
- Tried and tested in environment like Russia and Canada
- Corrosion resistant, low cost and long lifespan



**A unique body design, high strength and compact steel frame.**

- Modern, robust and torsion free frame
- Automatic tilting system, frees the plough while clearing and hold it parallel when lifted
- Extremely compact design
- Optimized dimensions for each carrier vehicle



**Long expected lifespan**

Unix is manufactured with controlled processes, high-quality materials and innovative technical solution to ensure a long service life at low costs.

- Corrosion free Polystone mouldboard
- High quality double layer powder painting system: first powder layer of epoxy resin with high Zinc content; second powder layer of polyester heated at 200°C
- Oversized parts for ultimate resistance
- Specific wear parts, minimize cost of maintenance over time
- Durability offer high resell value



**The driving system that improves your efficiency**

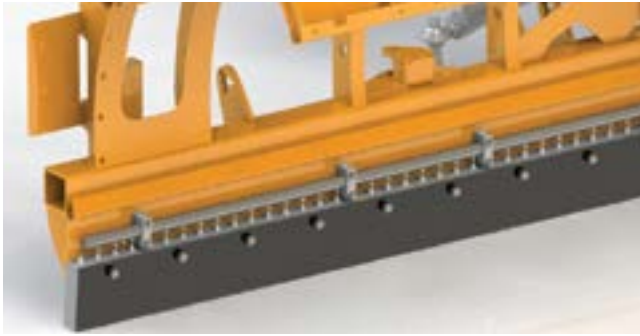
Electro hydraulic unit, duplicator valve and synchronous movement controls.

- Available hydraulic drive or electric drive
- Possibility to duplicate or triplicate an hydraulic function
- Transform a continuous hydraulic circuit in a multiple double effect with comfort steering
- Vehicle specific option, maximize reliability and efficacy

# Upgrade your plough with **MBS** system

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The patented brine injection system  
for Bucher snow plough



### MBS system

MBS it's revolutionary system that uses a reliable and cost-effective brine injection system to increase the plough clearing capacity and, in meantime, protect the surface from the new snow to stick again.

MBS increase clearing efficacy, extend time require between each clearing cycle and make possible to reduce spreading dosage leading to simplest operative procedure and huge savings even during severe winter season with intense snow falls.

The installation is user friendly and does not require special equipment, a simple and common tank is the only requirement to transport and feed the brine to plough.

### All the benefits of using a Unix plough with the MBS system

- **Increase time** between clearing cycle up to 50%
- **Saves spreading material** up to 30%
- **Clean** to black surface even whin short time and on low-traffic roads and lanes
- **Variable dosage** accordingly to snow fall intensity



### 1. First phase

The first part of the scraper blade mechanically removes the most of the snow.



### 2. Second phase

The central part of the blade, through many diffusers, inject the brine in the remaining snow on the road surface.



### 3. Third phase

The final part of the blade presses the brine into the remaining layer, accelerating the chemical fusion process, that melts instantly.

## Bucher Municipal

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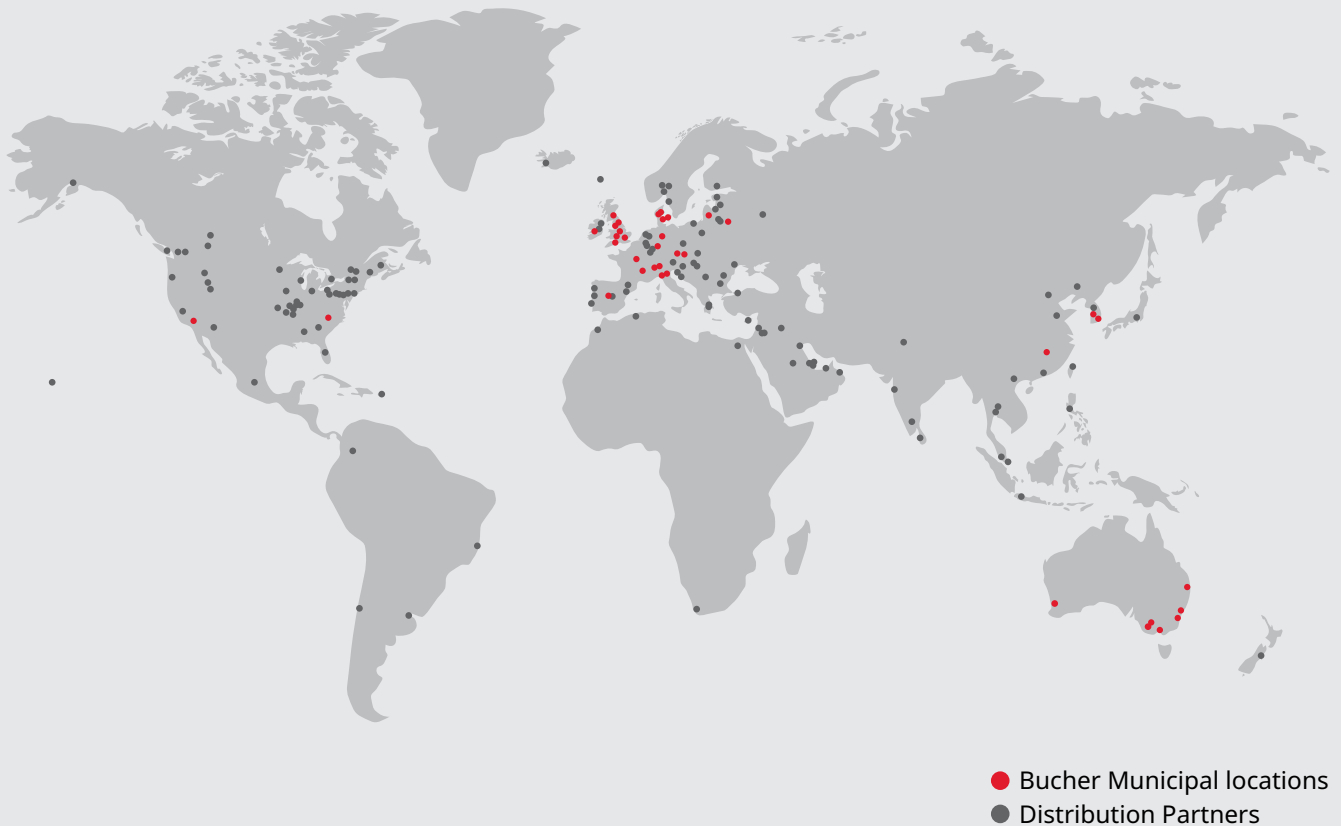
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At Bucher Municipal, we innovate and engineer better cleaning and clearing solutions, helping our customers grow and maintain efficient and profitable businesses. Leveraging the over 200 year old heritage of Bucher, we are committed to helping you achieve more using less. Taking pride in being seen as a reliable partner, we work locally with you in realising the possibilities for a smarter, cleaner and more efficient tomorrow. Today.



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**Driven by better**