

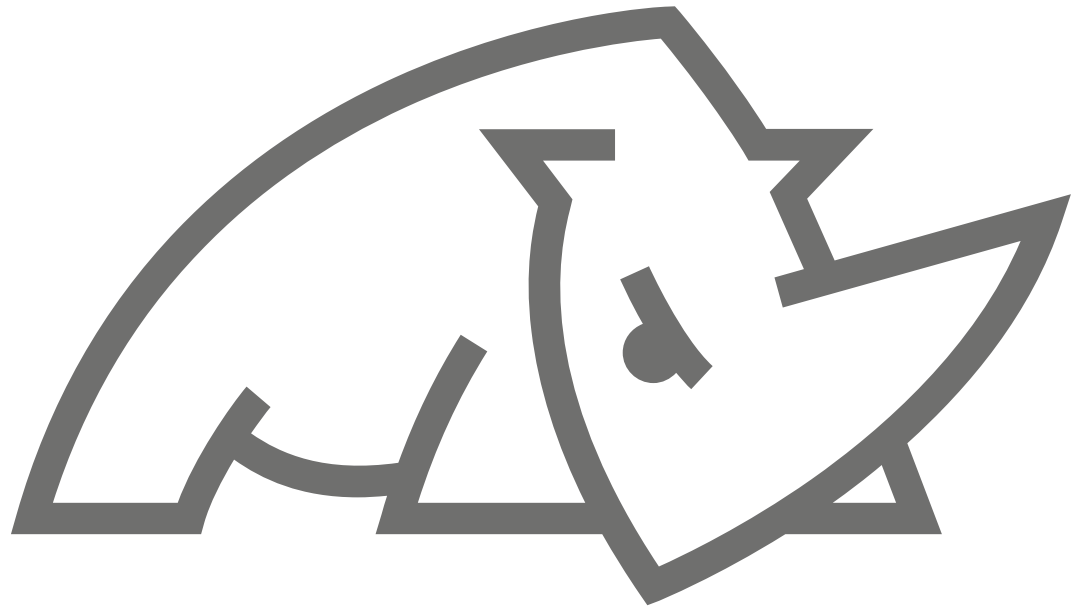
# Catalogue



**SECO** | garden  
tractors



Tradition since 1888 | [www.secoindustries.cz](http://www.secoindustries.cz)



# SECO

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**garden tractors**

### Who are we

- We are a Czech manufacturer with a production plant in Jičín with 130 years tradition.
- We have been continuously producing mowing technique since 1888.
- Our tractors are being exported worldwide.

### What do we produce

- We produce garden and communal tractors of our own design and construction.
- We supply a wide range of accessories for their year-round use.

### Our strategy

- We construct quality machines.
- We prefer performance, durability and long lasting value.



# Challenge

Garden tractor for home users with an excellent manoeuvrability. Ideal for smaller and medium areas 1 000 - 15 000 m<sup>2</sup>. Reduced turning radius allows extremely flexible manoeuvres and working in narrow areas. Suitable for year-round use (cutting, mulching, cleaning of leaves and snow).









## Challenge AJ 92-2WD



### About machine:

The basic garden tractor in our assortment is our model Challenge AJ 92. Thanks to its construction we can mark it as the most robust small garden tractor in its category on the market. Reliable one or two-cylinder engine, hydrostatic drive, huge grassbox, use of ductile iron in its components, those all ensure perfect balance of the machine. Additionally, the use of the machine can be extended by variety of our original accessories.

## Technical features:

- hydrostatic transmission
- massive front axle from cast iron
- ball bearings in front wheels
- flanges and blade carriers from ductile iron
- shear pins on cutting blades
- durable braided belts with Kevlar fibers
- adjustable steering clearance
- careless battery 12 V 28 Ah

## Basic technical specifications

Engine 1-V	B&S 13 HP / Loncin 16 HP
Engine 2-V	B&S 16 HP, 20 HP / Loncin 22 HP
Transmission	Hydro Gear T2
Cutting unit	two-rotor, oblique, width 92 cm
Cutting height	30 - 90 mm, 6 positions
Cutting deck engage	electromagnetic clutch
Grass box capacity	300 l (the biggest in the category)
Front wheels	15"
Rear wheels	18"
Fuel tank	8 l
Battery	12 V 28 Ah
Lights	halogen (LED lights optionally)
Special equipment	hour-meter, buzzer + function AUTO-MAN, combined cutting deck (collecting / mulching), seat with arm-rests
Dimensions (l x w x h)	2480 x 950 x 1120 mm
Service weight	216 – 237 kg

## Challenge AB 107-2WD



### About machine:

AB 107 is another machine from our Challenge series. Its construction is based on AJ 92 with one big difference which is side-discharge cutting deck, offering the operator different use of the machine. AB 107 reliably discharges all cut grass to the side instead of collecting the grass into the grass box.



## Technical features:

- hydrostatic transmission
- massive front axle from cast iron
- ball bearings in front wheels
- flanges and blade carriers from ductile iron
- shear pins on cutting blades
- durable braided belts with Kevlar fibers
- adjustable steering clearance
- careless battery 12 V 28 Ah

## Basic technical specifications

Engine 1-V	Loncin 16 HP
Engine 2-V	B&S 22 HP / Loncin 22 HP
Transmission	Hydro Gear T2
Cutting unit	two-rotor, oblique, width 107 cm, 3 scalp wheels
Cutting height	25 – 80 mm, 6 positions
Cutting deck engage	electromagnetic clutch
Front wheels	15"
Rear wheels	20"
Fuel tank	8 l
Battery	12 V 28 Ah
Lights	halogen (LED lights optionally)
Special equipment	hour-meter, seat with arm-rests, rear bumper
Dimensions (l x w x h)	1925 x 1390 x 1090 mm
Service weight	211 – 222 kg

## Challenge MJ 102-2WD



### About machine:

The top of our Challenge series is Challenge MJ 102. It is small, fast and manoeuvrable machine like the Challenge AJ 92 but MJ 102 offers cutting unit of width 102 cm. Unlike AJ 92, MJ 102 is equipped with timed cutting deck which offers even better grass collecting and improves the final appearance of cut area. This machine has also another big feature which is having transmission T3 with a differential lock. Thanks to the differential lock MJ 102 has a better slope availability which is great for everyone cutting steep areas.

## Technical features:

- hydrostatic transmission
- shear pins on cutting blades
- durable braided belts with Kevlar fibers
- adjustable steering clearance
- timed cutting unit
- flanges and blade carriers from ductile iron
- massive front axle from cast iron
- ball bearings in front wheels
- careless battery 12 V 28 Ah

## Basic technical specifications

Engine 1-V	Loncin 16 HP
Engine 2-V	B&S 20 HP, 22 HP, 24 HP / Loncin 22 HP
Transmission	Hydro Gear T2 / T3 with or without diff-lock
Cutting unit	two-rotor, timed, width 102 cm
Cutting height	30 – 90 mm, 6 positions
Cutting deck engage	electromagnetic clutch
Grass box capacity	300 l (the biggest in the category)
Front wheels	15"
Rear wheels	18"
Fuel tank	8 l
Battery	12 V 28 Ah
Lights	halogen (LED lights optionally)
Special equipment	hour-meter, buzzer + function AUTO-MAN, combined cutting deck (collecting / mulching), seat with arm-rests
Dimensions (l x w x h)	2480 x 1060 x 1120 mm
Service weight	249 – 260 kg



## Challenge

### Engine Briggs & Stratton INTEK



- semi-professional 2-cylinder engine
- pressure lubrication by pump

### Engine Briggs & Stratton Professional



- semi-professional 2-cylinder engine
- pressure lubrication by pump
- automatic EFM choke

### Transmission Hydro Gear T2



- axle diameter: 19 mm
- rear axle drive

### Transmission Hydro Gear T3



- axle diameter : 19 mm
- differential lock : with or without

### Front axle



- material: cast iron

### Discharge tunnel



- aerodynamical shape for smooth collecting
- short and wide – easy cleaning

### Electromagnetic clutch



- engaging cutting unit by a switch on user panel
- long lifespan, up to 20 000 uses

### Blade shaft



- material: steel
- easily demountable from other parts like bearings, pulleys,...

### Adjustable steering segment



- material: steel
- adjustable clearance by eccentric
- low control power on steering wheel
- low turning radius

## Technical advantages

### Driving belt



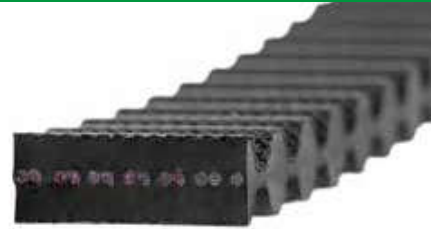
- basic material: rubber
- Kevlar fibers
- textile braiding
- its construction ensures long life and prevents length defects

### Cutting unit belt



- basic material: neoprene
- Kevlar fibers
- textile braiding
- its construction ensures long life and prevents length defects

### Cutting unit timing belt



- basic material: neoprene
- glass fibers

### Front wheels bearing



- ball-bearing
- special seals preventing water getting inside

### Hourmeter



- simple hours of work overview

### Shear pin



- 2 pcs on each blade
- quick and simple replacing
- prevent damage to the tractor when hitting an obstacle

### Driving pulley



- riveted for better durability
- ball-bearing molded inside
- double sealing to prevent water getting inside

### Blade carrier



- material: cast iron
- carries the blade with shear pins

### Flange and blade



- assembled from individual parts
- in case of damage of any part it is possible to replace only the damaged part

# Starjet

Machine for demanding users,  
suitable also for maintenance  
of company and sport grounds.  
The most favourite machine  
in the Czech Republic.







## Starjet UJ 2WD / 4WD



### About machine:

Garden tractor intended for demanding users taking care of medium and large gardens, parks and public green areas 2 000 – 30 000 m<sup>2</sup>. Accessories for this machine ensures year-round use (mowing, mulching, cleaning of leaves and snow, spreading fertilizer or salt).

In short, this is the most favourite ride-on mower in the Czech Republic.



## Technical features:

- hydrostatic transmission
- shear pins on cutting blades
- durable braided belts with Kevlar fibers
- adjustable steering clearance
- flanges and blade carriers from ductile iron
- variety of timed cutting decks
- careless battery

## Basic technical specifications

Engine 1-V	B&S 17,5 HP / Loncin 16 HP
Engine 2-V	B&S 16 HP, 20 HP, 22 HP, 24 HP / Loncin 22 HP/ Kawasaki 20 HP
Transmission	Tuff Torq K46 / K62 with or without diff-lock Tuff Torq K664 + front Kanzaki KXH10N (4WD)
Cutting unit	two-rotor, timed, width 102 cm / 122 cm (change-over optionally) three-rotor (3 pairs of blades), timed, width 110 cm (only for mulching)
Cutting height	25 – 80 mm, 7 positions, adjustable height of scalp wheels
Cutting deck engage	electromagnetic clutch
Grass box capacity	320 / 380 l
Front wheels	16"
Rear wheels	20"
Fuel tank	12 l
Battery	12 V 28 Ah / 12 V 32 Ah
Lights	halogen (LED lights optionally)
Special equipment	hour-meter, cruise control, buzzer + function AUTO-MAN, combined cutting deck (collecting / mulching), seat with arm-rests, lift brush, lift position memory, outlet 12 V, adjustable steering column + steering wheel with control knob + display with 4 indicators
Dimensions (l x w x h)	2580 x 1250 x 1250 mm
Service weight	260 – 345 kg



## Starjet UJ 2WD / 4WD PRO with high-dump grass collector



### About machine:

Our Starjet UJ PRO is suitable for users who need to load up the cut grass into a trailer or container. Equipped with higher performance transmission and mechanism that allows to lift the 400 l grass box nearly 2 meters up. Thanks to these qualities is this machine popular for municipalities and by football clubs, where this machine saves a lot of time and resources.

## Technical features:

- hydrostatic transmission
- shear pins on cutting blades
- durable braided belts with Kevlar fibers
- adjustable steering clearance
- 400 l grass catcher
- flanges and blade carriers from ductile iron
- variety of timed cutting decks
- careless battery
- excellent cutting performance
- electric dumping in any height

## Basic technical specifications

Engine 2-V	B&S 22 HP, 23 HP, 24 HP / Loncin 22 HP
Transmission	Tuff Torq K664 (2WD) + front KXH10N (4WD)
Differential lock	yes
Cutting unit	two-rotor, timed, width 102 cm/122 cm (change-over optional) three-rotor (3 pairs of blades), timed, width 110 cm (only for mulching)
Cutting height	25 – 80 mm, 7 positions, adjustable height of scalp wheels
Cutting deck engage	electromagnetic clutch
Grassbox capacity	400 l, electric dumping, maximum lift 1870 mm, lifting speed 4,5 s, opening speed 5,3 s
Front wheels	16"
Rear wheels	20"
Fuel tank	12 l
Battery	12 V 28 Ah / 12 V 32 Ah
Lights	halogen (LED lights optionally)
Special equipment	hour-meter, cruise control, buzzer + function AUTO-MAN, combined cutting deck (collecting / mulching), seat with arm-rests, lift brush, lift position memory, outlet 12 V, adjustable steering column + steering wheel with knob + display with 4 indicators
Dimensions (l x w x h)	2920 x 1060 x 1432 mm
Service weight	385 – 399 kg

## Engines Briggs & Stratton Commercial



- professional 2-cylinder engine
- 5 level air filtration
- pressure lubrication by pump
- extended service interval
- automatical EFM choke

## Transmission Tuff Torq K62



- axle diameter: 25,4 mm
- differential lock: with or without

## Transmission Tuff Torq K664



- axle diameter : 25,4 mm
- differential lock: yes

## Front transmission Kanzaki KXH 10



- front axle drive
- in all four-wheel tractors

## Front axle



- material: cast iron
- new construction: more rigid, lower turning radius, better deflection for terrain copying
- higher durability
- slipping bushings with teflon friction layer

## Driving pulley – reinforced



- machine cut
- replaceable professional PEER bearing

## Front wheel bearing



- careless ball bearings PEER
- wheels without oil-cap

## Electromagnetic clutch



- engaging cutting unit by a switch on user panel

## Blade shaft - reinforced



- material: steel
- easily demountable from other parts like bearings, pulleys,...
- reinforced version

## Technical advantages

### Cutting unit belt



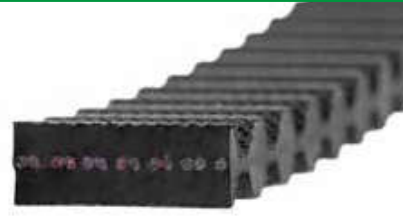
- basic material: neoprene
- textile braiding with slipping layer
- polyester fibers

### Driving belt



- basic material: neoprene
- textile braiding
- Kevlar fibers

### Cutting unit timing belt



- basic material: neoprene with Kevlar fibers
- reinforced glass fibers
- CXP version for long durability

### Shear pin



- 2 pcs on each blade
- quick and simple replacing
- prevents damage to the tractor when hitting an obstacle

### Starting solenoid – reinforced



- reinforced version by Trombetta
- starting time up to 6 minutes

### Multifunctional display



signalization of:

- full grass box
- brake
- oil pressure
- battery
- hour-meter

### Cutting unit - reinforced



- 3 protective tubes on the sides and front area

### Cutting blades



- material: isothermally hardened steel
- doesn't degrade during sharpening
- standard or high-lift

### Flange and blade – reinforced



- assembled from individual parts
- in case of damage of any part it is possible to replace only the damaged part
- reinforced for better durability
- protection in case shear pins break



# Crossjet

Effective mulcher with very low center of gravity, diferencial lock and V-shaped wheel pattern for maintenance of neglected areas 5 000 - 80 000 m<sup>2</sup> with thick vegetation and steep terrains. Easily mowes trees up to diamater of 4 cm, bushes or grown reed.







## Crossjet SC 92 2WD / 4WD



### About machine:

Our Crossjet has been one of the most favourite mulchers for many years all over the world. Both two or four-wheel drive versions handle cutting of neglected areas (trees up to 4 cm in diameter, bushes, grown reed) with ease, four-wheel drive offers the user even more slope availability. Genially constructed machine with protective folding frame and great design is also a great assistant with snowblade during winter.

## Technical features:

- very low center of gravity
- drive control by hand
- safety folding frame
- cuts everything it runs over
- mechanical cruise control
- very durable one-rotor cutting deck

## Basic technical specifications

Engine 2-V	B&S 21 HP, 23 HP (4WD) / Loncin 22 HP
Transmission	Tuff Torq K62 with diff-lock Tuff Torq K664 + front KXH10N (4WD) with diff-lock
Cutting unit	one-rotor, 2 free blades, width 92cm (optionally side-discharge as adaptor)
Cutting height	50 – 110 mm, 5 positions
Cutting deck engage	electromagnetic clutch
Front wheels	16"
Rear wheels	20"
Fuel tank	19 l with fuel gauge
Battery	12 V 28 Ah / 12 V 32 Ah (4WD)
Lights	halogen + LED lights
Special equipment	hour-meter, cruise control, steering wheel with control knob
Dimensions (l x w x h)	2310 x 1050 x 1505 mm
Service weight	294 kg (2 WD), 346 kg (4 WD)



# Goliath

Unique mulching machine  
equipped by the best components  
available. Suitable for both intensive  
and extensive use in areas not  
accessible by other technique.









## Goliath GC 2WD / 4WD



### About machine:

Our Goliath is a high-performance mulcher for all kind of terrains. It is unique carrier of three different changeable cutting decks and accessories for maintenance of neglected areas. This maneuverable machine has an excellent ergonomics and variety of accessories available for year-round use. Goliath offers extraordinary performance in areas inaccessible by other technic and easily mows thick and grown vegetation and provides a fine lawn cut.

## Technical features:

- very low center of gravity
- certified safety folding frame ROPS
- variety of cutting decks
- display with 6 indicators
- electromagnetic cruise control
- safety belt
- soft start of cutting unit

## Basic technical specifications

Engine 2-V	B&S 23 HP / Kawasaki 26 HP
Transmission	Tuff Torq K62 with diff-lock Tuff Torq K664 + front KXH10N (4WD) with diff-lock
Cutting unit	one-rotor, 2 free blades, width 92 cm (optionally side-discharge as adaptor) / for fine mulching: three-rotor, 3 pairs of blades, width 110 cm / 132 cm
Cutting height	50 – 135 mm, 5 positions
Cutting deck engage	electromagnetic clutch + soft start
Front wheels / Rear wheels	16" / 20"
Fuel tank	16 l with fuel gauge
Battery	12 V 32 Ah
Lights	halogen + LED lights
Special equipment	hour-meter, cruise control, steering wheel with control knob, display with 6 indicators (cutting unit engage, brake, oil lubrication, battery, fuel reserve, cruise control)
Dimensions (l x w x h)	2310 x 1050 x 1740 mm (cutting unit 92 cm) 2310 x 1160 x 1740 mm (cutting unit 110 cm) 2310 x 1360 x 1740 mm (cutting unit 132 cm)
Service weight	390 kg (2 WD) – 427 kg (4 WD)



cutting  
unit  
92 cm



cutting  
unit  
110 cm



cutting  
unit  
132 cm



## Crossjet and Goliath

### Engine Briggs & Stratton VANGUARD



- professional 2-cylinder engine
- pressure lubrication by pump
- extended service interval

### Engine Kawasaki FS 730V



- professional 2-cylinder engine
- pressure lubrication by pump
- extended service interval

### Transmission Tuff Torq K62



- axle diameter : 25,4 mm
- differential lock: yes

### Transmission Tuff Torq K664



- axle diameter : 25,4 mm
- differential lock: yes

### Front transmission Kanzaki KXH 10



- front axle drive
- in all four-wheel tractors

### Adjustable steering segment



- material: steel
- adjustable clearance by eccentric
- increased durability

### Joint head



- material : steel + composite
- adjustable wheel clearance

### Driving belt



- basic material: neoprene
- laminated cut
- Kevlar fibers

### Three-rotor cutting unit belt



- basic material: neoprene
- textile braiding
- reinforced polyester fibers

## Technical advantages

### One-rotor cutting unit belt



- basic material: neoprene
- textile braiding with slipping layer
- Kevlar fibers

### Flange



- material: cast iron
- easy montage on the shaft

### Display



signalization of:

- cutting deck engage
- brake
- oil pressure
- battery
- fuel
- cruise control
- hour-meter

### Blade shaft



- material: tempered steel
- easily demountable from other parts like bearings, pulleys,...
- reinforced version

### Blades for cutting unit 110 / 132 cm



- material: isothermally hardened steel
- doesn't degrade during sharpening
- mulching – 2 levels of cutting

### Blades for cutting unit 92 cm



- material: hardened steel
- mulching function
- 2 impact resistant blades
- both sides of blades sharpened

### Drive pulley



- material: steel
- tightly connected with shaft + secured by screws

### Electromagnetic clutch



- reinforced construction
- engaging cutting unit by a switch on user panel
- soft start

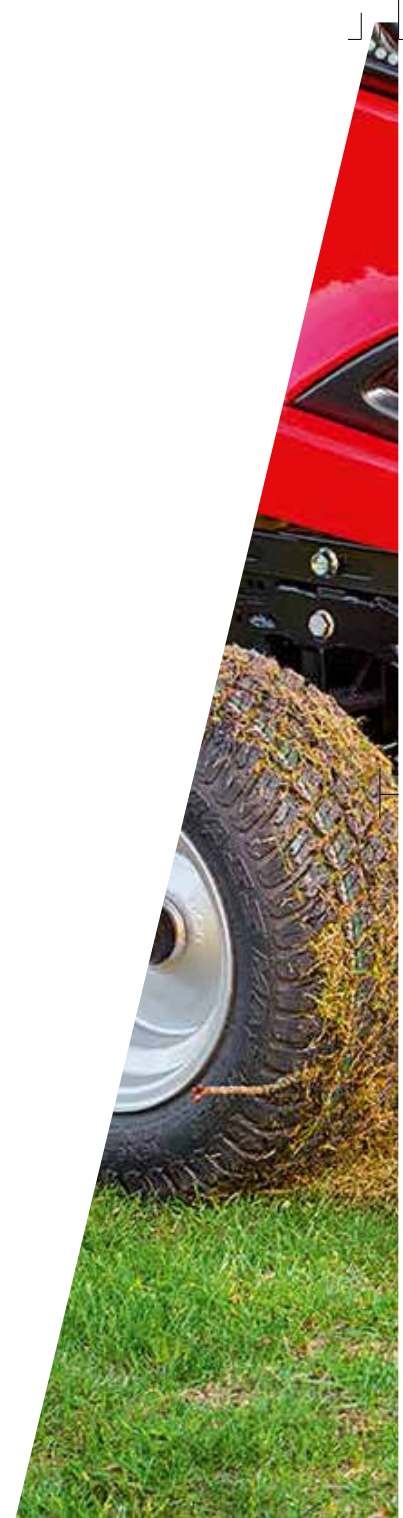
### Flange and blade



- assembled from individual parts
- in case of damage of any part it is possible to replace only the damaged part

# Accessories

Additional devices extend the use of SECO machines to satisfy all needs of our customers, adapting the machines for year-round use. Our accessories handle complete grass service, snow removal, garbage collecting, sprinkling, sweeping and more necessary activities.









## Accessories

### Front simple carrier

- for mounting of snow blade with working width 120 cm

**For:**  
Challenge, Starjet, Goliath



### Mulching plug

- for mulching without grass box
- inserted into discharge tunnel

**For:**  
Challenge, Starjet



### Engine sweeping brush

- sweeps all impurities from solid surface
- sweeps snow during winter
- working width 110 cm

**For:** Starjet, Goliath



### Mulching cutting unit 110 cm

- for regular and occasional mulching
- for all kind of terrains
- unique three-rotor construction ensures a fine cut

**For:** Starjet



### Finger lift

- ideal for quick lifting of front or rear axle lifting to height 45 cm
- adjustable for different types of wheels assembled from only 4 pieces

**For:**  
Challenge, Starjet, Crossjet, Goliath



### Spreader

- professional device with spreading regulation
- intended for spreading of salt and other loose materials
- 150 l container with helix for smooth spreading

**For:**  
Starjet, Crossjet, Goliath



### Folding trailer

- it will take everything necessary: grass, wood, building materials
- foldable rear side
- dimensions of loading area: 1050 x 770 x 300 mm



**For:**  
Challenge, Starjet, Crossjet, Goliath

### Front universal carrier

- universal carrier for accessories on the front side of machine

**For:**  
Starjet, Crossjet, Goliath



### Protecting sail

- branded protecting sail Briggs & Stratton
- protecting the machine from dust



**For:**  
Challenge, Starjet, Crossjet, Goliath

### Deflector

- for grass cutting without grass box
- mounted instead of grass box
- directing the cut grass to the ground

**For:**  
Challenge, Starjet



### Aerator

- removing moss and old grass and collecting it into the grass box at the same time
- adjustable depth of the cut 0 – 30 mm, working width 73 cm
- rotor for rough aerating with 28 blades
- rotor for fine aerating made of stripping rolls



**For:**  
Starjet (collecting at the same time), Goliath

### Hand operated screw-jack

- intended for lifting the side of the machine up to 75 cm high
- put on front or rear axle
- device equipped with high-strength screw and nut

**For:**  
Challenge, Starjet, Crossjet, Goliath



## Accessories

### Snow chains 16"

- suitable for driving on snow or icy surface

**For:**

Starjet, Crossjet, Goliath



### Snow chains 18" and 20"

- suitable for driving on snow or icy surface

**For:**

Challenge, Starjet, Crossjet, Goliath



### Snow blade

- device designed for snow removal
- equipped with rubber bar for perfect effect
- working width 120 cm
- lifting from operator's position

**For:**

Challenge, Starjet, Crossjet, Goliath



### Snow blade comfort

- device designed for snow removal
- equipped with rubber bar for perfect effect
- working width 120 cm
- lifting and tilting from operator's position

**For:**

Challenge, Starjet, Goliath



### Additional rear weight

- improves the mobility of the tractor on snow and ice – increase drive axle load

**For:** Challenge, Starjet



### Snow thrower

- great helper for users from mountain areas
- chimney and flap are controlled from operator's position
- working width 100 cm

For:  
Starjet, Goliath



### Transport ramp

- the greatest assistant for transportation of cases, crates, tools and other necessary equipment

For:  
Challenge, Starjet



### Oil cooler

- allows our mulchers to work in the most demanding conditions

For:  
Crossjet, Goliath



### Side-discharge adaptor

- adaptor for 92 cm mulching cutting unit
- cut grass is thrown to the side, serving as a tree fertilizer
- especially popular in orchards

For:  
Crossjet, Goliath



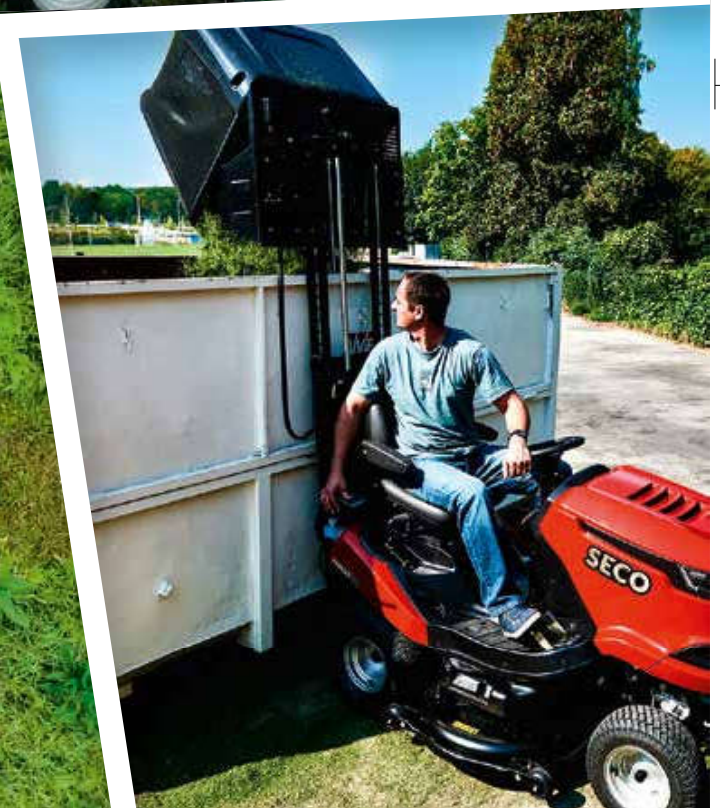
### Sprayer

- suitable for sports grounds, parks, vineyards,...
- detachable individual segments
- working width 1 – 5 m with possibility to adjust the arms to horizontal or vertical position
- tank volume 120 l

For:  
Starjet, Crossjet, Goliath







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Catalogue to download



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