

Catalogue 2017/2018

27 YEARS
TRADITION OF DRUM
MOWERS PRODUCTION
1990-2017



**Dakr machine mows
as well as ploughs**

 **DAKR**



www.dakr.com



DAKR Ltd. is a Czech family company with head office in the gate of Moravia in Hranice. The original trust in our own abilities and strong family background enabled us to establish a company at very good level with the minimum of our own finances due to our honest and hard work. In 2000 we reconstructed a part of our production halls of former textile company and we have 50 employees currently. **The tradition of our production reaches back to 1990** when we begun production of the drum mowers for high grass. We focus on the production of garden, agricultural, and municipal machinery. Most of our activities comprise the design, production, and servicing of the rotary mowers for high grass.



At the time when many companies reduce their own production and move it to China we are constantly expanding so the quality of the production is monitored during the whole production process. All begin by purchase of the metal sheets, tubes, profiles which are gradually transformed into the parts for assembling of our products. Turning, milling and bending is performed on the most modern machines. The metal sheet parts are made by CNC fibre laser machine and bent on CNC bending machine. We have also 2 CNC lathes and a CNC 4-spindle machine tool. The tubes are bent on NC spatial bending machine. The CNC welding robot makes joints and afterwards welds the frames of our machines completely. The main advantage of this technology is that these components are always welded in their ideal position with ideal position of the welding nozzle in constant speed. Thanks to this all the produced parts are identical and there is no fatigue to inaccuracy or welder's hand. All the powder coated parts go through a special advance maintenance by sandblasting. On the assembling link there are mounted 3-6 different products at the same time so that we can assemble 60 machines per day.



We employ our own designers but we gain ideas and experiences from our customers, dealers and servicemen too. During the development we place a great emphasis on the machine function, its reliability and safety. Besides our own testing of each machine, they are certified according to the standards by testing body. Our quality management system on the fields of development, construction, production, sale and service is certified according to EN ISO 9001. During the development there arise completely new and unique solutions which do not have parallel which illustrate series of utility designs. A successful development enables us to keep the production in Czech Republic and offer high quality machines to the customers.



Coming up with something completely different and putting new ideas into practice are what we enjoy. And so we can boast that we were the first firm in Europe to market gardening equipment with drum mowers, disc mowers and salt spreaders with a special spout mechanism. We also have a range of unique designs that are protected by Czech or European copyright. In this respect 2017 is also an important milestone for us. We will be coming out with the four-wheel Panter FD-5, which is unrivalled in how many different jobs it can be used for, including in meadows, fields or for clearing pavements and paths in summer and winter. Or, it can also be used simply as an off-road vehicle for driving into the countryside.

The following parameters are important when choosing the right mower for you:



We manufacture more than 50 different types of mowers and mulchers for long grass, so our portfolio includes something for everyone. To make the choice of machine as easy as possible for you, the following symbols will be used throughout the catalogue. By taking the basic requirements into account you can choose a suitable machine that will serve you reliably for years, will never have a problem getting through difficult terrain, will handle exactly how you need it and can also be used for other work. As our machines are designed to be modular, you get equipment that will help you all year round, with a great deal of additional functionality.



Choosing the right deck size can save you a lot of time when working. Our range includes mowers and mulchers with a working deck size of 55, 60, 69, 71, 100, 121 and 125cm. The maximum operating power of the machine can easily be calculated from the cutting deck size and the speed; in real conditions the actual power is equivalent to around 1/3 to 2/3 of maximum power.

EXAMPLE: The Tekton mower with a cutter deck size of 60cm will cut up to 1,800m² in an hour, although generally you'll manage to mow around 1,000 m²/hour.

The Panter FD-3 + RZS-121 mower with a cutter deck size of 121 cm will cut up to 12,100m² in an hour's work, although it can usually manage to mow around 4,000m²/hour.



If you plan to cut grass on a slope, we recommend paying careful attention to the tyres. They should have a large diameter, a good tread and be made of high-quality rubber. Scrimping on wheel size and the quality of compound tyres and their tread has a considerable effect on cut quality when mowing on slopes or on level ground. The figure shown indicates the outer diameter of the wheel in mm.



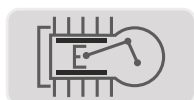
Perhaps you don't want to have a multi-purpose machine at home just for cutting grass. Choose from our Tekton and Panter modular kits. Do you have an old kit or engine with an 80 or 120 mm centrifugal clutch and would prefer to use our machines? We don't force you to buy a whole new machine from us, but you can purchase our RZS Panter drive unit and use it with all attachments designed for the Panter FD-2 system, such as a DZS 125 mower with a cutter deck size of 125 cm.



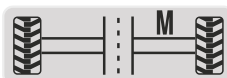
Other customers want to be able to easily adjust their cutting height, as they have one plot of land that is flat and another that is bumpy. This has been a feature of mulchers for many years now. If you're looking for a drum mower with these options, the only model for you is the RZS-70K drum mower, as no other manufacturer makes a mower like that for long grass.



Electric starters are very popular with more powerful engines, but sometimes they do have drawbacks, such as the fact that the customer cannot start the motor at all if the battery fails. The FD-3 and FD-5 drive units can be started using a key, like a car, but not even a flat battery is a setback, as the engine is fitted with a completely independent backup manual starter.



Engine manufacturers often state maximum power to "wow" customers, and so we recommend that it is better to compare the engine capacity and bear in mind how long it will last. A cast-iron roller will last for roughly twice as long as an aluminium roller. Please don't confuse the 850 engine with the 850 I/C.



The type of axle used has a considerable effect on the traction of mowers and how well they handle. The system that handles best is one with a classic differential and manually controlled lock, as it gives you control over wheel traction as well as travel direction.



A self-locking differential or split self-locking axle makes it nice and easy to manoeuvre around obstacles, travel over asphalt, etc. When cornering, the wheels turn independently of one another, each one separately, but moving in a straight line they turn together. Working with a machine fitted with this system makes it easy to move around trees and mow on rugged terrain.



The rigid axle is completely maintenance-free and always guides the machine with precision, and so is particularly suitable for more demanding terrain, where good traction is the principal requirement. Its excellence when moving in a straight line comes at the price of more difficult cornering, as the machine needs to be put into a skid. This system is therefore recommended more for land that is free of obstacles.

STAINLESS

Our modern technology enables us to make some components from stainless steel, which means they are particularly long-lasting. Mulcher boxes and sweeper brush collection boxes simply need to be cleaned mechanically and they'll stay looking new for years.



Our development projects, which we implement using entirely our own resources, often result in completely new solutions that are unparalleled elsewhere, as can be seen in our range of utility models. Our products bearing the seal of the Industrial Property Office are the result of many years spent striving to provide customers with originality coupled with technical benefits.

PROTON DRUM MOWERS

- reliable mower, elaborate construction, low price

PROTON mowers belong amongst the only single purpose mowers which we produce. They result in our best-selling TEKTON machines. Not propelled PROTON 1 mower is intended for final mowing around the growing patches, and mowing on flat areas or between trees. PROTON 2 mower thanks to its self-propelled mechanism, 2 travel speeds and solid axle can cope in hilly terrain too. PROTON uses high performance XP-200 engine with 6 HP output, 60cm mowing disc with plastic slider with 2 blades (or optional 4 blades). We recommend to use 2 blades for those who dry the grass for hay for domestic animals and to use 4 blades when composting the grass. Based on the testing 4 blades cut the stubble several times and the juices containing the valuable contents and enzymes leak out. The comfort during work is provided by the antivibration sleeve on the handlebars which are adjustable. With tilted handlebars it can be easily loaded in the trunk of passenger car. The control bars are constructed in such way the stretching efficiency was as high as possible, the forces for pressing are minimum, and control is intuitive.

PROTON DRUM MOWER



PROTON 1 mower



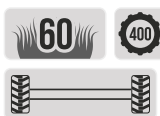
Height Adjustable Handlebars

Four-position height adjustable

PROTON 1 mower is suitable for smaller flat areas with bigger amount of trees, kerbs and garden beds. These areas are mostly maintained with brush cutter. If you use instead of it our PROTON 1, you will mow the area 3 times faster, consume a half of petrol and the exhaust fumes and the howling sounds will bother you not so much.



PROTON 2 mower



PROTON 2 can be used in more demanding terrain. This mower has solid axle with V-shape tread pattern wheels and two speeds of travel. It naturally includes the independent switching of the travel and mowing.



DESIGNATION ORDER NO.	ENGINE	MOWING MECHANISM	TRAVEL
PROTON 1 01233.001	XP-200, 200 cc, 6.0 HP, cast-iron cylinder	Disc with small slider, 2 blades (4 optional), 60 cm operating width, side flap	Without travel, the wheels are independent freely rotatable
PROTON 2 01233.003		Disc with small slider, 2 blades (4 optional), 60 cm operating width, a standard protection cover	Two travel speed (2.3 km/hour + 3.0 km/hour), solid axle, 400 mm wheels with V-shape tread pattern

SPECIAL ACCESSORIES

Side flap

Order No.: 11200.000



Set of fixing (blade, bolt, nut, washer)

Order No.: 2 x 51200.074 + 2 x 01200.010



Steel slider

Order No.: 51200.200



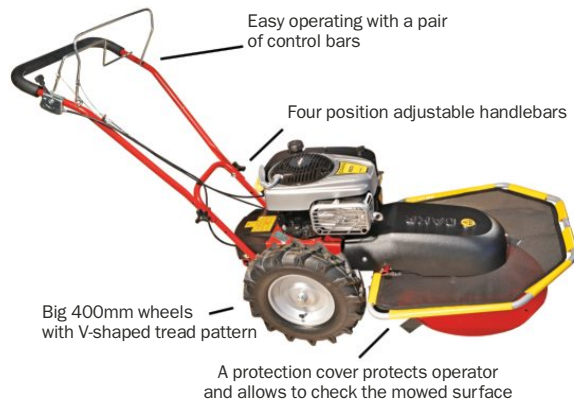
TEKTON KIT

- mowing, mulching, snow removal. All simple with one machine!

Tekton modular machine is recognized for simple operation and low weight. One machine can be used as drum mower for high and low grass, mulcher or snow blade. To the complete machine it is possible to purchase the adaptors for other works. We select the mower for grass mowing according to the size of the land, if it is on flat land, in low slope or in steep slope, if it is a meadow free from obstacles or a garden with many trees, growing patches, and curbs. Small garden with many bushes requires completely different mower than one hectare meadow with no trees. We always ask our customers how often they plan to mow their meadow, if they plan to dry the grass for hay or they just want to keep the appearance of the meadow. Tekton, with simple disc or double disc, is suitable for gardens and meadows with many obstacles which must be bypassed (trees, growing patches, curbs, etc.). The machine with self-locking divided axle replaces the differential with the shutter, and it leads the machine in hill terrain with obstacles. Tekton mower is light, very easily connected and disconnected travel. The control bar can be held with one hand only, therefore you can mow under low trees by walking next to the mower without bending the branches. Individual Tekton modules differ with the applied engine and work adaptor. Tekton enables the use of SUNI single mowing disc, SUNI 2 full surface covered double disc, which you can change to the mulching machine, snow plough or any other accessories.

Common Features of All Tekton Machines:

- light and easily manageable machine that can be operated with one hand
- a kit that can be used as a mower, a mulcher or a snow blade
- two different travel speeds
- comfortable 4 position adjustable handlebars with the antivibration sleeve
- exceptionally low noise
- separate, independent travel and cutting tool switches
- axle with automatic disconnection of the shutter during the travel disconnection
- axle with automatic connection of the shutter during the travel use
- safety break for quick stop of the blade
- space-saving machine with collapsible handlebars which can be put into a car by a single person



TEKTON KIT

TEKTON chassis

- Briggs&Stratton 650 Series engine
- Briggs&Stratton 850 I/C Series engine
- Honda GCV 160 engine
- Honda GCV 190 engine



+ compatible adaptor*

- SUNI single-disc drum mower adaptor
- SUNI 2 double-disc drum mower adaptor
- MUNI mulcher adaptor
- RUNI snow blade

* To each Tekton chassis it is possible to attach any of the compatible adaptors. To rebuilt the adaptor takes 15 minute at the most.

In range of our modular mowers we use Briggs&Stratton and Honda engines which service is guaranteed all over the Europe.u.

COMPATIBLE ADAPTOR

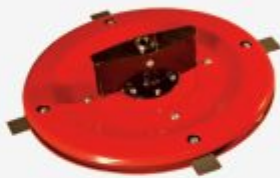
**SUNI
single-disc drum
mower adaptor**

Order No.: 01235.186



**SUNI 2
double-disc drum
mower adaptor**

Order No.: 01235.181



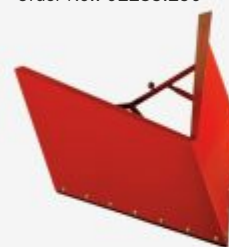
**MUNI
mulcher adaptor**

Order No.: 01235.184



**RUNI
snow blade**

Order No.: 01235.190



*If you buy a new SUNI single-disc or SUNI 2 double-disc we recommend to buy also a **protective cover**.

Order No.: 11200.942

- grass mowing with elegance, flexibly, simply and fast

Tekton mowers can be successfully used not only for mowing grass on fields, in gardens and around houses, but also everywhere it is necessary to mow the grass daily for livestock. The main advantage of the Tekton is it's unique construction combined with low weight and high hourly performance.

The customer can choose between two types of mowing (SUNI single disc or SUNI 2 double disc). Due to the divided rotor shaft, it is possible to fit the mulching adaptor, and change the drum mower to fully functional mulching device or snow plough. The modular construction of TEKTON provides 4 operating adaptors in total.

TEKTON mower with single or double disc

We have focused on the production of drum mowers from 1990, for the whole period we have promoted the advantages of our single disc solution which has been proven in time and most of our customer have used it for over 10 years. The production of the mowing discs utilizes the most accurate machinery technology – CNC laser cutting, and all discs in the location of the blade attachment are reinforced with the welded braces and we solidify the bends. Each customer has free option to decide on the mowing with single or double disc. Each solution has its benefits. Single disc forms nicer stubble field, even in case the grass is laying down or run over because it 'combs' the grass. Uneven terrain may result in the blade contact with the terrain. Double disc does not enable the blade contact with the soil even in uneven terrain, it has lower mowing resistance but leaves higher stubble during mowing flattened grass.



Operator comfort and safe control even in more demanding terrain

All TEKTON mowers have divided travel band pulley and with the switched off travel works as differential, after the travel switching on, the axle closes and both wheel operate at the same time. Our solution enables to turn as required without any difficulties, and also keeps accurate direct travel movement even in demanding terrain. The construction design provides accurate and safe control, it is much better solution than the free wheels, the machine does not accelerate during downhill travel but uses the motor braking. Both wheels operate uphill.



Tekton drum mower kit

Common Features:

- 4 engines at choice
- Single-disc or double-disc at choice
- 2 travel speeds (2.3 km/hour + 3.0 km/hour)
- Self-locking divided axle
- Operating width 60 cm
- Max. hourly performance 1,800 m²/hour
- The possibility of rebuilt into mulcher or blade



A standard protective cover is a component of the mower



DESIGNATION ORDER NUMBER	ENGINE	MOWING MECHANISM **	TRAVEL
TEKTON 01233.017	Briggs&Stratton 650 Series 190 cc, 5.5 HP, aluminium cylinder	Single disc with small slider, 2 blades (4 optional), 3.5 cm stubble height, 60 cm operating width, protection cover	Two travel speeds (2.3 km/hour + 3.0 km/hour) with self-locking divided axle, 400 mm wheels with V-shaped tread pattern
TEKTON 2 01233.037	Briggs&Stratton 650 Series 190 cc, 5.5 HP, aluminium cylinder	Double-disc, 4 blades, 4 cm stubble height, 60 cm operating width, protection cover	
TEKTON ENDURO 01233.018	Briggs&Stratton 850 I/C Series * 190 cc, 6.5 HP, cast iron cylinder, oil filter, oil pump	Single disc with small slider, 2 blades (4 optional), 3.5 cm stubble height, 60 cm operating width, protection cover	
TEKTON ENDURO 2 01233.038	Briggs&Stratton 850 I/C Series * 190 cc, 6.5 HP, cast iron cylinder, oil filter, oil pump	Double-disc, 4 blades, 4 cm stubble height, 60 cm operating width, protection cover	
TEKTON GCV 160 01233.016	Honda GCV 160, 160 cc, 5.5 HP, aluminium cylinder	Single disc with small slider, 2 blades (4 optional), 3.5 cm stubble height, 60 cm operating width, protection cover	
TEKTON GCV 160 2 01233.036	Honda GCV 160, 160 cc, 5.5 HP, aluminium cylinder	Double-disc, 4 blades, 4 cm stubble height, 60 cm operating width, protection cover	
TEKTON GCV 190 01233.022	Honda GCV 190, 190 cc, 6.5 HP, aluminium cylinder	Single disc with small slider, 2 blades (4 optional), 3.5 cm stubble height, 60 cm operating width, protection cover	
TEKTON GCV 190 2 01233.035	Honda GCV 190, 190 cc, 6.5 HP, aluminium cylinder	Double-disc, 4 blades, 4 cm stubble height, 60 cm operating width, protection cover	

* Do not mistake Briggs&Stratton 850 I/C Series for Briggs&Stratton 850 Series engine. We only use the Briggs&Stratton 850 I/C Series engine with cast iron cylinder and oil filter. The I/C specification means the engine is equipped with cast iron cylinder and its life time is about 2 times longer compared to engine with aluminium cylinder.

** See the available discs types on page 5.

TEKTON MULCHER

Why mulching?

Mulching is becoming increasingly common method of meadow, garden, and grass area maintenance. The mulching mowers have become more popular in recent years. During mulching, we leave the grass mass on the land. Mulching the grass saves work, there is no necessity to rake the cut grass, and remove it from the land. Such work is a pleasure. This process provides nutrients for the whole plot, the placed cut grass mass becomes the source of humus. It is not necessary to add further fertilizer. Fresh mulched grass decomposes quickly, ideal grass mulching is up to 40 cm maximum length. It always depends on the type of grass, the density, moisture content, and age. With dense and flexible grass, problem may be present with height 20 cm.



Correct mulching method?

We know what mulching brings to people who maintain lands. What is the best procedure to prevent the grass devaluation which occurred due to the effects of bad procedure. In case of correct mulching, the grass should be reduced to 5-15 cm, then such cut grass mass has a great chance for timely processing before the soil surface is closed, which would represent the risk of the soil acidity. Tekton includes the advantage that in case of difficult or impossible mulching, it fits the mowing plate instead of mulching, and the problem is solved. If we combine mowing with mulching, we can mow the first load, and mulch the after-grass which is not commonly as dense. During winter period, the mulch decomposes well.



During the machine selection we should focus on:

- the option of the stubble height setting. It enables correct stubble height setting and also optimum length of the grass reduction
- the option of combining the mowing and mulching. Only the alteration of these two forms of maintenance provide the best results. Mulch requires sufficient time for processing in the soil and changing into humus.
- sufficiently power ful engine. The mulching is more demanding than mowing because grass must be crushed.

TEKTON mulching machine cover is from stainless steel in all variants. The height setting is performed by central lever.



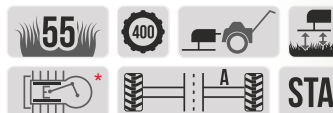
Tekton mulcher kit

Common Features:

- 4 engines at choice
- 2 travel speeds (2.3 km/hour + 3.0 km/hour)
- Self-locking divided axle
- Operating width 55 cm, leading wheels
- Stainless casing, central height adjustment
- Max. hourly performance 1,650 m²/hour
- Stubble height 4-10 cm
- The possibility of rebuilt into single disc or double disc drum mower or blade etc.

SPECIAL ACCESSORIES

There are 2 different mowing adaptors and a snow blade as option compatible to Tekton mulcher. All the adaptors are illustrated on the page 5.



STAINLESS

DESIGNATION ORDER NUMBER	ENGINE	MULCHING MECHANISM	TRAVEL
TEKTON MULCHER 01233.019	Briggs&Stratton 650 Series 190 cc, 5.5 HP, aluminium cylinder	Stainless casing, operating width 55 cm, central height adjustment, stubble height 4-10 cm	Two travel speeds (2.3 km/hour + 3.0 km/hour) with self-locking divided axle, 400 mm wheels with V-shaped tread pattern
TEKTON ENDURO MULCHER 01233.021	Briggs&Stratton 850 I/C Series * 1190 cc, 6.5 HP, cast iron cylinder		
TEKTON GCV 160 MULCHER 01233.020	Honda GCV 160, 160 cc, 5.5 HP, aluminium cylinder		
TEKTON GCV 190 MULCHER 01233.023	Honda GCV 190, 190 cc, 6.5 HP, aluminium cylinder		

* Do not mistake Briggs&Stratton 850 I/C Series for Briggs&Stratton 850 Series engine. We only use the Briggs&Stratton 850 I/C Series engine with cast iron cylinder and oil filter. The I/C specification means the engine is equipped with cast iron cylinder and its life time is about 2 times longer compared to engine with aluminium cylinder.

PANTER – do not adapt to the machine, adapt the machine to your requirements

Panter is a machine that incorporates all our expertise acquired up to this moment. It is a fully professional kit intended for small growers as well as professional gardeners requiring the most modern machines. Thanks to our efforts, you can attach a whole set of adaptors to one driving unit. This attribute makes the Panter a machine to be used throughout the year. You can cut the grass, mulch, rake the hay, ted, throw aside cohesionless material, remove the snow, transport loads, shred branches or spud. Panter is simply a tireless machine intended for everyday use. The modular kit consists of the driving unit and the working adaptor. The parts enable to assemble many unique machines.



Panter Kit Merits:

- universal machine for professional use
- easy change of adaptors
- selection of several driving units
- much lower price than purchase, storage and maintenance of several single-purpose machines
- continuous development of new adaptors compatible with older driving units
- option to sit on a seat while cutting
- simple operation and maintenance
- high quality professional engines
- significant reduction of vibration due to the structural design of frame and silent block mounting of the engine
- wide wheel gauge and low position of the mass centre for works on slopes
- height and side adjustable handlebars
- selection of 17 adaptors and other accessories compatible with Panter FD-2 and FD-2H driving units
- selection of 20 adaptors and other accessories compatible with Panter FD-3

The driving unit is the mechanical heart of the machine. There are 5 available models. All driving units Panter include the use of professional Briggs&Stratton engine with cast iron cylinder. The life time of the cast iron cylinder is about 2 times longer compared to engine with aluminium cylinder. The Briggs&Stratton 850 Series engines with cast iron cylinder are titled I/C.

More power ful Powerbuilt engines are made in no other way than with cast iron cylinder. The basic model PANTER FD-2 includes manual gearbox and solid axle. The Panter FD-2H and FD-3 (both with reverse) provide more comfort in the form of gradual speed regulation forward and backwards, and the axles with differential and shutter.

The new for 2017 is a modern Panter FD-5 driving unit which mows as well as ploughs.

Panter FD-2, FD-2H and RZS driving units allow:

- drum and disc mower
- blade mulching
- hay turning and raking
- soil ploughing and lawn aerating
- branch shredding
- load transporting
- snow sweeping and snow removal
- salt and artificial fertilizer spreading

SPECIAL ACCESSORIES FOR PANTER DRIVING UNITS

Chains for FD-2, FD-2H, Panter RZS

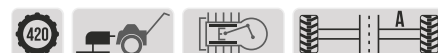


- hardened pieces

Order No.: 10100.081



FD-2H driving unit




Panter FD-3 driving unit allows:

- drum and disc mower
- blade and flail mulching
- hay turning and raking
- soil ploughing and lawn aerating
- branch shredding
- load transporting
- snow sweeping and snow removal
- salt and artificial fertilizer spreading

FD-3 driving unit


SPECIAL ACCESSORIES FOR PANTER DRIVING UNITS
Axle extension
 for Panter FD-3 driving unit


Wheel track with axle extension is 940 mm

Order No.: 01236.003

Double wheels
 for Panter FD-3 driving unit


Wheel track with double wheels is 1,190 mm

Order No.: 40000.0160

Steel wheels
 for Panter FD-3 driving unit


Order No.: 01236.100

Chains for FD-3


Hardened pieces

Order No.: 10100.082

The Panter FD-5 follows on from our popular and proven Panter range of modular drive units. This means that this entirely new drive unit can be used with a wide range of tested work attachments that can be linked to the machine. The Panter FD-5 is therefore a highly versatile piece of equipment; you can use to it mow, mulch and rake grass, loosen soil, clear snow, sweep dirt and carry cargo, and now also to plough land, haul things, etc. When developing this machine we drew on our 27 years of experience in the manufacture and sale of small farm machinery, enabling us to create completely new and unique solutions not previously available on the market. When developing our products we place great emphasis on the easy operation and high utility value of our machines. We are convinced that the Panter FD-5 will serve as a versatile piece of equipment to benefit cottagers, small farmers and growers, and that its compact size will make it extremely useful for wine-growers as well as in the communal sector. The machine is driven by the tried and tested Briggs&Stratton PowerBuilt Series 4145 single-cylinder 4-stroke engine, which has a maximum power of 15.5 HP. The engine can be started either electrically or using the manual (backup) starter. The machine is propelled by a TUFFTORQ K62 hydrostatic transmission with a mechanical differential lock and reinforced half-axes 25.4mm in diameter. The transmission is also fitted with our unique cooling system (protected by a utility model), which keeps the engine cool even under high, persistent load. Use of the hydrostatic transmission enables the both the forward and reverse speed to be adjusted fluidly, even when under load. The drive speed can be changed at any time. The chevron tyres are made by the Czech manufacturer MITAS, which is a world leader in the production of tyres for farming. This means that the tyre mixture guarantees exceptionally high adhesion and a long service life. The machine is very comfortable to drive thanks to the sprung industrial seat, which has adjustable tension and can be adjusted forwards or backwards, and the backrest can also be tilted. The Panter FD-5 is designed as a modular machine with the option to add functions to suit the customer's needs. The basic model is fitted with a tow bar at the rear to attach a trailer.



Additional accessories:

- **PN1** – FD-5 front carrier for connection of the front adaptors from Panter range (RZS-121, MC-100, SB-110, RAP-100, ROT etc.). A component of the carrier it is also a system for the front adaptor's drive which includes an electromagnetic clutch. The way of connection is unique (protected with utility design) and it is characterized by very low resistance during the ride
- **ZN1** – FD-5 rear carrier for connection of the rear tools (ploughshares, harrows etc.).
- **ON1** – FD-5 control levers for the front and rear carriers lifting. The ON1 controllers are necessary in case of the front adaptors or rear tools connection.
- **Extra weight for wheels** 2x12,5kg
- **Extra weight for rear hitch** 25kg totally

ILLUSTRATION OF THE MOST USING SETS



... and others


Panter FD-5
Panter FD-5 driving unit allows:

- soil ploughing, harrowing, lifting
- potato lifting
- drum and disc mower
- blade and flail mulching
- hay turning and raking
- lawn aerating
- load transporting
- snow sweeping and snow removal
- salt and artificial fertilizer spreading


12V

OPTIONAL ACCESSORIES
PN1 - Front carrier for FD-5
ZN1 - Rear carrier for FD-5
Set of weights for FD-5 wheels (2 x 12,5kg)

Order No.: 01237.010



Order No.: 01237.015



Order No.: 01237.030


ON1 - Carriers control levers for FD5

Order No.: 01237.020

Set of weights for rear hitch (25kg)

Order No.: 01237.035


ACCESSORIES FOR FIELD WORKS WITH FD-5
Single sided ploughshare with blade


Order No.: 141045

Double sided ploughshare with blades

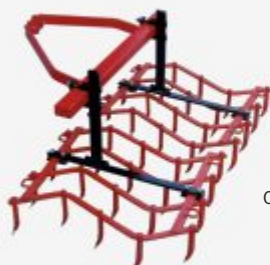

Order No.: 141048

Lifting ploughshare


Order No.: 141019

Adjustment body


Order No.: 141042

Harrows


Order No.: 141024

Lister ploughshare


Order No.: 140200

DRIVING UNIT	FD-2	FD-2H	FD-3 344 cc	FD-3 500 cc	FD-5
ORDER NUMBER	01235.011	01235.019	01236.000	01236.001	01237.000
ENGINE	Briggs&Stratton 850 I/C Series		Briggs&Stratton Powerbuilt Series 3125	Briggs&Stratton Powerbuilt Series 4145	
ENGINE OUTPUT [HP]	6.5 HP (4.8kW) at 3,600 rpm 5.0 HP (3.7kW) at 3,060 rpm		13.2 HP (9.7kW) at 3,600 rpm	15.5 HP (11.3kW) at 3,600 rpm	
TORQUE [Nm]	11.5 Nm at 3,060 rpm		25.7 Nm at 3,600 rpm	30.2 Nm at 3,600 rpm	
ENGINE CAPACITY [cc]	190		344	500	
ENGINE CONSTRUCTION	Air cooled spark-ignition 4-stroke engine with valve distribution OHV and cast iron cylinder				
STARTING	Manual, ReadyStart		Manual and electric start		
OTHER	Oil pump, oil filter, engine fixing on silentblocks, high and side adjustable handlebars without using any tools		12V battery, light, engine fixing on silentblocks, high and side adjustable handlebars without using any tools		12V battery, light oil temperature indicator seat rigity adjustment, electronic machine's securing, parking brake
FUEL TANK CAPACITY [L]	1.1		2.6		7.5
NUMBER OF SPEEDS	3 speeds (2.1 + 3.0 + 4.4 km/hour)	Single slide control of speed forward (0÷6 km/hour) and back (0÷3 km/hour)	Single slide control of speed forward (0÷10 km/hour) and back (0÷5 km/hour)		Single slide control of speed for ward (0÷10 km/hour) and back (0÷10 km/hour)
REVERSE SPEED	No		Yes		
METHOD OF GEARING	By changing of the V-belt's position in the groove on the pulley	The control lever on handlebars (it is possible to change the speed during operation)			The foot peda (it is possible to change the speed during operation)
POWER TRANSMISSION	TOS worm gearbox with hardened, grinded worm and bronze wheel + chain gearing	Tufftorq K46DE Hydrostatic gearbox	Tufftorq K46DE Hydrostatic gearbox		Tufftorq K62 Hydrostatic gearbox with additional oil cooler strengthened half-shaft 25.4 mm
AXLE TREE	Solid	Differential with automatic locking	Differential with automatic locking (controlled from handlebars)		Front - swinging with ridge gearing Rear - differential with locking (controlled by pedal)
WHEELS	Blown 420 mm wheels with V-shaped tread pattern		Blown 480 mm wheels with V-shaped tread pattern		Blown wheels wit V-shaped tread pattern Front diameter 425 mm Rear diameter 512 mm
WHEELS TRACK [mm]	650 or 680	670	760		890
WEIGHT [kg]	52	64	120		Basic model - 215 Completely equipped model without weight - 256 Wheels weight - 25 Weight for rear hitch - 25
FRONT CARRIER FOR WORKING ADAPTORS	Yes				Additional equipment
REAR HITCH	Yes, shackle for the trailer or seat attachment				Trailer's hitch included 2-point hitch as additional equipment
ADAPTORS LIFTING					Additional equipment (from the operator's position)

DRIVING UNIT	FD-2	FD-2H	FD-3 344 cc	FD-3 500 cc	FD-5
RZS-70K ONE DRUM MOWER	Yes	Yes	Yes	Yes	No
DZS-125 FOUR-DISC MOWER	Yes	Yes	Yes	Yes	Yes
RZS-121 TWO-DRUM MOWER	No	No	Yes	Yes	Yes
BP SEAT	Yes	Yes	Yes	Yes	No
BPR STEERABLE SEAT	No	No	Yes	Yes	No
BPR 2 STEERABLE SEAT	Yes	Yes	No	No	No
M-70 MULCHER	Yes	Yes	Yes	Yes	Yes
M-70 MULCHER	No	No	Yes	Yes	Yes
M-121 MULCHER	No	No	Yes	Yes	Ne
MC-100 FLAIL MOWER	No	No	Yes	Yes	Yes
OP-114 HAYMAKER	Yes	Yes	Yes	Yes	Yes
SF-70 SNOW BLOWER	Yes	Yes	Yes	Yes	Yes
RAP-85 BLADE	Yes	Yes	Yes	Yes	No
RAP-100 BLADE	Yes	Yes	Yes	Yes	Yes
DV-70 CHIPPER-SHREDDER	Yes	Yes	Yes	Yes	No
VD-100 CART	Yes	Yes	Yes	Yes	No
KOR-220 CHASSIS	Yes	Yes	Yes	Yes	No
ALL THE BODIE FOR KOR-220 CHASSIS	Yes	Yes	Yes	Yes	No
VARES HV 220/S CART with 220 kg load capacity	Yes	Yes	Yes	Yes	No
VARES TR 220/S with 400 kg load capacity	No	No	No	No	Yes
SB 110 CYLINDRICAL BRUSH	Yes	Yes	Yes	Yes	Yes
ROT ROTARY CULTIVATOR	Yes	Yes	Yes	Yes	Yes
VERTI AERATOR	Yes	Yes	Yes	Yes	Yes
PLOUGH, HARROWS, LIFTING OR LISTER PLOUGHSHARE	No	No	No	No	Yes

COMPATIBLE ADAPTORS

The driving units enable the connection of the adaptor for the grass mowing, vegetation mulching, turning and raking of grass, snow removal, road cleaning, crushing of branches, moving the loads, soil ploughing, etc.

During the orders of independent adaptors, we highlight the necessity to specify the driving unit subject to the adaptor use. Some adaptors differ in dimensions of the V-belt, some include different pull rods, supports, or differently assembled guiding axles. Observing this instruction during the ordering simplifies work during the machine assembly.



SEAT

The connecting seats for the mowers for high grass are designed for work on large, flat and mildly sloping land. People are often not aware that mowing 1 hectare of meadow means walking at least 20 kilometres with smaller machines with real operating width 50 cm. More powerful machines with greater operating width with attached seat enable cutting with higher speed, it achieves much higher hourly rate of the cutting performance. If the mower operator walks with the machine and works several hours a day, the operating speed is commonly 3-5 km/hour. If you connect the seat and sit during mowing, you can work with travel speed 5-10 km/hour. The modular assembly PANTER enables the selection from three types of seats.

BP Seat

- Suitable for work on flat land and in the slope up to 5°
- Max. seat capacity 100 kg
- Practical basket for canister with petrol
- The option of shaft extension
- Compatible for driving units Panter FD-2, FD-2H, FD-3, Panter RZS

Order No.: 01235.090



BPR steerable seat

- Unique solution of turning which requires minimum force
- Protected with utility design
- Controlled rear axle, turning by means of handle bars of the driving unit
- Suitable for use on plains and slight slopes up to 10°
- Max. seat capacity 130 kg
- Springs by means of damper
- Pedal for the transport position security of the adaptor (it replaces the transport wheels)
- Practical basket for canister with petrol
- Compatible for driving units Panter FD-3 only

Order No.: 01235.091



BPR 2 steerable seat

- Unique solution of turning which requires minimum force.
- Protected with utility design
- Suitable for use on plains and slight slopes up to 5°
- Max. seat capacity 110 kg
- Controlled rear axle, turning by means of two pedals
- Practical basket for canister with petrol
- Compatible for driving units Panter FD-2, FD-2H, Panter RZS

Order No.: 01235.092



The RZS-70K mower can be used to cut short as well as very overgrown grass. The RZS-70K drum mower with its adjustable cutting height is designed to now work at three different height settings. As grass height and thickness varies so much it is a very good idea to change the cutting height as you work, as the wheel arch can sink down if the ground is soft, while if the height is too low it can damage the grass. When the cutting height is set too high it is very difficult to cut flattened grass, and can cause problems when raking. As the 480 mm diameter wheel arch can be adjusted, the mower copies the terrain perfectly in all situations. Being able to set the cutting height is a real benefit. The rotor is designed to stop grass wrapping around it, placing less strain on the engine and requiring less frequent servicing to replace the bearings. The cutting plate is made from steel and is strengthened where the blades attach by pressed and welded reinforcements. Underneath there is a metal swivelling wheel on two bearings, which provides access to the blades, which is very convenient when replacing, sharpening or cleaning them. The exposed blade screws help to cut flattened-down grass. The price of the mower also includes a top cover to prevent flying debris.



A standard protective cover as a component of the adaptor

RZS-70K One-drum mower

- Operating width 69 cm
- Unique solution of cutting height adjustment protected with utility design
- This adaptor enables mowing long as well as short grass
- The mower lays the grass on the right side in the mow
- 3 levels of stubble height adjustment (2.5-4.5 cm on average)
- A standard protective cover as a mower component
- A steel slider on ball bearings
- It is possible to purchase protection EU protective cover
- It is possible to purchase four-blade disc
- It is possible to purchase the disc set with the tongue
- Compatible for driving units Panter FD-2, FD-2H, FD-3, Panter RZS

Order No.: 01235.021



ACCESSORIES

RZS-70 EU Protective cover

Order No.: 11200.937



Disc with a tongue

A special design of the tongue makes disc's lifetime longer. The blade will hide after hits an obstacle and the force is distributed on fixing.

Order No.: 41220.930

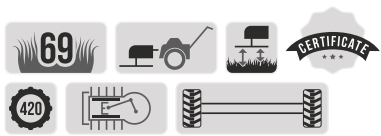




FD-2 + RZS-70K

FD-2 + RZS-70K

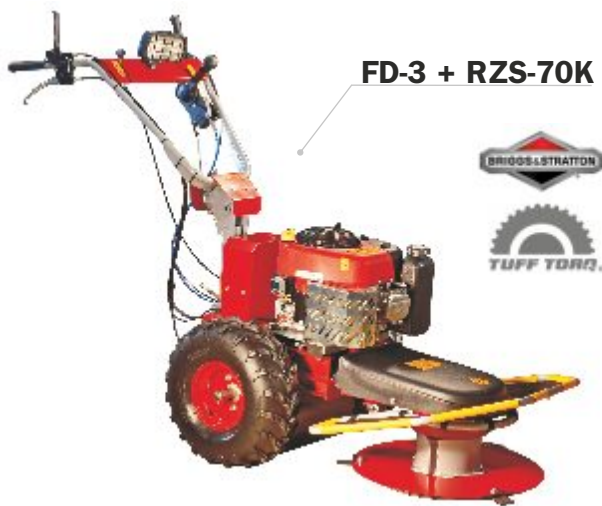
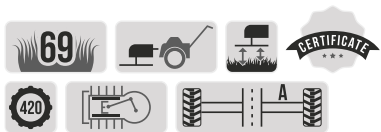
It is the basic Panter model. The mower is intended in demanding and hilly terrain. On the plains and gentle slopes it has satisfactory output. It is also strength enough to attach a compatible seat which makes the operating more comfortable. There are more than 15 compatible adaptors (please see the page 12).



FD-2H + RZS-70K

FD-2H + RZS-70K

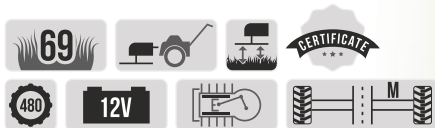
It is a modular drum mower with hydrostatic gearbox and single slide control of speed forward and reverse. The axle with differential and automatic locking makes the operating around obstacles, crossing the asphalt roads, etc. easier. You can also ride on the seat while working. There are more than 15 compatible adaptors (please see the page 12).



FD-3 + RZS-70K

FD-3 + RZS-70K

The RZS-70K mower in connection with the Panter FD-3 driving unit is our strongest one-drum mower. The machine is simply controllable thanks to classic solution of the differential with manual locking which gives you control over the wheels and the machine direction. You can also ride on the seat while working. There are more than 20 compatible adaptors (please see the page 12).



DESIGNATION ORDER NUMBER	ENGINE	MOWING MECHANISM	TRAVEL
FD-2 + RZS-70K 01235.001	Briggs&Stratton 850 I/C Series 190 cc, 6.5 HP, cast iron cylinder, oil filter, oil pump	Disc with steel slider, 3 blades, adjustable stubble height 2.5 - 4.5 cm, operating width 69 cm, standard protective cover	Three travel speeds (2.1 km/hour + 3.0 km/hour + 4.4 km/hour), solid axle, 420 mm wheels with V-shaped tread pattern
FD-2H + RZS-70K 01235.029			Single slide control of speed for ward and back (forward 0-6 km/hour, back 0-3 km/hour), differential with automatic locking, 420 mm wheels with V-shaped tread pattern
FD-3 344 + RZS-70K 01236.000 + 01235.021	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start		Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern
FD-3 500 + RZS-70K 01236.001 + 01235.021	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		

RZS-121 two-drum mower

Order No.: 01236.010

Panter FD-3 with RZS-121 is most suitable for work under more demanding conditions. Two-drum mower includes 2 mowing discs which rotate opposite each other and leave the mow in one line. Each two-drum grass mower at first cuts the grass and then presses it between rotors. The competitive two-drum mowers with the operating width below 100 cm are often susceptible to clogging of a gap between both rotors and the machine stops mowing. RZS-121 is constructed in such way the gap, which is important for the machine to mow high grass, is 400 x 250 mm. Due to this solution and high performance engine of the driving unit, you can manage high density and grown grass higher than 1 meter. This machine has no limits and manages to mow the meadows which have not been mowed for several years, where other machines do not stand a chance; quality mowing of the stubble field is natural. The blades routes on both plates overlap, their timing is secured by the gearbox and chains, which ensures the blades to not collide. The mower includes steel rotary wheel housing on the ball bearings on both drums, which specify the stubble height. Adaptor RZS-121 is oscillating, it copies the terrain unevenness even in the transverse direction. The adaptor includes the protection cover and the top mesh, which prevents from the flying off sparkling particles; at the same time it prevents the monitoring of the mowed surface. The adaptor is driven with the V-belt of 17 mm width.



RZS-121 two-drum mower



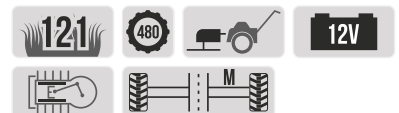
For transport to the mowing locations, we recommend purchasing the transport wheel TK121 or steerable seat BPR, which provide the security of the lifted adaptor and you can just drive.



SETS



FD-3 500 cc + RZS-121



A standard protective cover is a component of the adaptor

SPECIAL ACCESSORIES
TK121 Transport wheel



Order No.: 01236.011

DESIGNATION ORDER NUMBER	ENGINE	MOWING MECHANISM	TRAVEL
FD-3 344 + RZS-121 01236.020	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start	Two double discs, the blades timing by gearbox and chains not to meet, 2 blades on each disc, stubble height 3.5 cm, operating width 121 cm, protective cover, swing mounting of the adaptor, option to buy a transport wheel for crossings	Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern
FD-3 500 + RZS-121 01236.006	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		

DZS-125 four-disc mower

The DZS-125 adaptor was developed by our company for DAKR driving units Panter RZS, FD-2, FD-2H, FD-3 and FD-5. This machine is protected by European industrial patent and utility designs. We are the only ones who produce the disc single axis mowing machine.

It includes the disc mower which due to the exceptionally low resistance during mowing enables the stroke 125 cm even with 6.5 HP engine. DZS-125 combines the advantages of the bar and rotary mowing. The mowing is provided by four blades ground on both sides driven by chain in the oil tank and set on the cutting pins. The cutting pins protect the gear from damage in case of impact to the objects protruding from the ground which cannot be bypassed (for example the tube, stump.). In case of molehills the mower passes without any defects. The overlapping of the blade is designed to correspond with the travel speed and the disc cutting speed. **This machine is designed for cutting large maintained meadows for the purposes of hay drying.** The stubble height can be set within 2-5 cm, the bar is tilting.

The mowed grass is not thrown anywhere; it falls and stays behind the machine, spread within the whole mow width. It is not necessary to spread grass prior to drying. The grass seeds are not released.

SETS



DZS-125 four-disc mower



SPECIAL ACCESSORIES

TK125 transport wheel



DESIGNATION ORDER NUMBER	ENGINE	MOWING MECHANISM	TRAVEL
FD-2 + DZS-125 01236.016	Briggs&Stratton 850 I/C Series 190 cc, 6.5 HP, cast iron cylinder oil filter, oil pump	Four-disc cutting mechanism, chain timing, protection against overload by shear pins, adjustable stubble height 2-5 cm, operating width 125 cm, swing mounting of the adaptor, option to buy a transport wheel for crossings	Three travel speeds (2.1 km/hour + 3.0 km/hour + 4.4 km/hour), solid axle, 420 mm wheels with V-shaped tread pattern
FD-2H + DZS-125 01236.013			Single slide control of speed for ward and back (forward 0-6 km/hour, back 0-3 km/hour), differential with automatic locking, 420 mm wheels with V-shaped tread pattern
FD-3 344 + DZS-125 01236.017	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start		Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern
FD-3 500 + DZS-125 01236.019	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		

M-70 Mulcher

M-70 single blade mulching machine with stainless covering has 71 cm operating width. It is equipped with special covered rotor with large diameter which decreases resistance during mulching, spares engine output and provides high protection of the bearings. This rotor's solution is protected by utility design.

This adaptor can be connected to the all Panter driving units. Thanks to low weight it is easily controllable machine with high performance which suits for yearlong mulching around the cottages, on the meadows, in the orchards, for reeds mulching around the ponds etc. The height setting is performed centrally by lever and it is quick and easy.



M-70 Mulcher

- Operating width 71 cm
- Mowing by means of special mulching blade
- Central height setting of the stubble height (4-12 cm)
- Compatible for Panter FD-2, FD-2H, FD-3, FD-5 Panter RZS driving units

71
STAINLESS
CERTIFICATE

Order No.: 01235.052
for FD-2, FD-2H, Panter RZS

Order No.: 01235.053
for FD-3, FD-5



FD-2H + M-70



STAINLESS



FD-3 500 cc + M-70



12V



STAINLESS

DESIGNATION ORDER NUMBER	ENGINE	MULCHING MECHANISM	TRAVEL
FD-2 + M-70 01235.011 + 01235.052	Briggs&Stratton 850 I/C Series 190 cc, 6.5 HP, cast iron cylinder, oil filter, oil pump	Stainless steel covering, 71 cm operating width, central height setting (4-12 cm)	Three travel speeds (2.1 km/hour + 3.0 km/hour + 4.4 km/hour), solid axle, 420 mm wheels with V-shaped tread pattern
FD-2H + M-70 01235.019 + 01235.052			Single slide control of speed for ward and back (forward 0-6 km/hour, back 0-3 km/hour), differential with automatic locking, 420 mm wheels with V-shaped tread pattern
FD-3 344 + M-70 01236.000 + 01235.052	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start		Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern
FD-3 500 + M-70 01236.001 + 01235.052	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		

M-121 Two-blade mulcher

The two-blade M-121 mulcher is only compatible with Panter FD-3 driving unit and together make high-performance machine with 121 cm operating width so it suits for large maintained areas. Two rotors with specially shaped blades carry out the mulching. The blade timing is provided by means of chains in order to ensure overlapping blade's routes. The stubble height is set by the lever turning which is arrested in required height. All the grass is crushed in small pieces. If you mulch 3 times per year you won't rake anything. Good combination is also to mow once and mulch next time (mow the first grass from June to July, make hay and mulch the second grass). It is up to you how you decide to farm your grass areas.



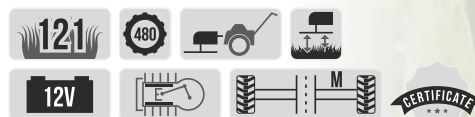
M-121 Two-blade mulcher

- Operating width 121 cm
- Mowing by means of 2 special mulching blades
- Mowing device driven by the gear and chain
- Oscillating location of the adaptor copying the terrain
- Central height setting of the stubble height (3-10 cm)
- It leaves the stubble field such as garden tractors
- Compatible for Panter FD-3 driving units

Order No.: 01236.005



Illustrative set
FD-3 500 cc + M-121 + BPR



DESIGNATION ORDER NUMBER	ENGINE	MULCHING MECHANISM	TRAVEL
FD-3 344 + M-121 01236.000 + 01236.005	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start	Mulching by means of 2 special mulching blades, operating width 121 cm, adjustable stubble height 3-10 cm	Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern
FD-3 500 + M-121 01236.001 + 01236.005	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		

MC-100 Flail mower

MC-100 flail mulching machine is designed for most demanding conditions. The machine manages to mulch grass higher than 1 m. It resists to impacts to various stones and other solid obstacles than other types of mowers and mulching machines. It also manages the mulching of natural seeding bushes. The mowing equipment comprises of horizontal rotor with 36 oscillating special blades. The stubble height can be set within 3-12 cm, by means of adjusting the travel roller. The MC-100 mulching machine remains after connection with the driving unit FD-3 horizontally tilting, it copies the terrain unevenness and it is sufficiently stable even in the hilly terrain. The mowing device is covered in steel sheet metal, which minimizes the option of flying off stones, wood, and other objects which can occur in the mowing area.



MC-100 Flail mower

- Operating width 100 cm
- Mowing by means of 36 special oscillating blades (18Y)
- Mowing device driven by the cone gear and V-belt
- Oscillating location of the adaptor copying the terrain
- The option of stubble height setting (3-12 cm) by means of travel roller adjustment
- Balanced shaft
- Compatible for Panter FD-3 and FD-5 driving units
- It manages cutting the year old vegetation and natural seeding



Order No.: 01236.008



Illustrative set
FD-3 344 cc + MC-100



Illustrative set
FD-5 + PN1 + ON1 + MC-100



DESIGNATION	ENGINE	MULCHING MECHANISM	TRAVEL
FD-3 344 + MC-100	Briggs&Stratton Powerbuilt Series 3125, 344 cc, 13.2 HP, cast iron cylinder, electric start	Mowing by means of 36 special oscillating blades (18Y), mowing device drive by the cone gear and V-belt, adjustable stubble height 3-12 cm, operating width 100 cm, swing mounting of the adaptor	Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern, wheel track 760 mm
FD-3 500 + MC-100 + rozšíření	Briggs&Stratton Powerbuilt Series 4145, 500 cc, 15.5 HP, cast iron cylinder, electric start		Single slide control of speed for ward and back (forward 0-10 km/hour, back 0-5 km/hour), differential with locking, 480 mm wheels with V-shaped tread pattern, wheel track 760 mm

SPECIAL ACCESSORIES

Flat blade

Order No.: 51200.043

With the blade it is necessary to buy a hardened MC 100 blade's insert (order No. 51200.039) too.

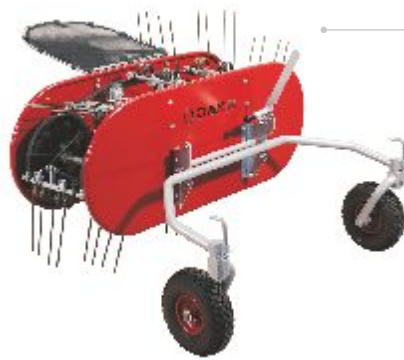
Order No.: 51200.039



Each rotor is dynamically balanced at working revolutions.



TURNING AND RAKING



OP-114 Hay turner

- Operating width 90 cm
- It is intended for tedding and raking the grass and hay
- 5 position of height adjustment
- Pivoting axle with blown wheels
- Lockable wheels for straight ride
- Compatible for Panter FD-2, FD-2H, FD-3, FD-5, Panter RZS driving units



Order No.: 01235.180

GARDEN WORKS

Cultivation

The rotavator is a great helper in spring as well as in autumn. At the beginning of the season, it prepares beds for planting and in autumn, it can be used for composting. Unlike the single purpose machines, the rotary cultivator is geared much faster, its effectiveness is much higher and work much faster. It is used also by professional gardeners for the terrain levelling during the completion works in the gardens. The machine is equipped 5 kg weights and with reinforcement for FD-2 and FD-2H driving units. In case of processing into greater depths and in heavier soils we recommend adding another weight. The rotary cultivator comprises of 6 stars with 30 cm diameter and 80 cm stroke, after narrowing to 4 stars, the stroke is 54 cm.

ROT Rotary cultivator

- Operating width 80 cm
- Gear by means of worm gearbox
- Gearbox with grounded worm and bronze wheel made by TOS Znojmo company
- A weight and a blade are components of the cultivator
- Compatible for Panter FD-2, FD-2H, FD-3, FD-5, Panter RZS driving units



Order No.: 01235.130



VERTI Aerator

- Operating width 70 cm
- Hardened blades made of spring steel
- Gear by means of worm gearbox
- Gearbox with grounded worm and bronze wheel made by TOS Znojmo company
- Compatible for Panter FD-2, FD-2H, FD-3, FD-5, Panter RZS driving units



Order No.: 01235.135



SPECIAL ACCESSORIES

Aerator's blades set compatible for the ROT rotary cultivator

Order No.: 51200.125



BRANCH SHREDDING

You can shred all the branches with diameter up to 4.5 cm directly in the forest, vineyards or in the garden without need of electricity. Thanks to the special shape of the chimney you can shred also ramified branches. The crushed waste is convenient use for mulching, composting or as fuel.



DV-70 Chipper – shredder

- Shredding up to 4.5 cm diameter
- Suitable for fresh as well for dry branches
- Compatible for Panter FD-2, FD-2H, FD-3, Panter RZS driving units
- It can manage 0.25 m³/hour



Order No.: 01235.082



KOR-220 Steerable cart chassis

- Multipurpose chassis for extensions (rigid body, yard-woods body, plastic crate body)
- Suitable even for the most demanding terrain, great manoeuvring
- Steerable wheels
- Max. allowed capacity 220 kg
- Simple turning by means of the control lever or the handlebars
- Compatible for Panter FD-2, FD-2H, FD-3, Panter RZS driving unit



Order No.: 01235.122



ACCESSORIES

Rigid body



Order No.: 01235.183

Yard-woods body



Order No.: 01235.185

Plastic crate body



Order No.: 01235.189

VD-100 Cart

- The chassis with free rotatory wheels and sheet metal tilting body
- Max. allowed capacity 100 kg
- Compatible for Panter FD-2, FD-2H, FD-3, Panter RZS driving units

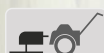


Order No.: 01235.031



Vares HV 220/S Cart

- Removable front end, dumping with the locking
- Parking and driving brake
- Blown wheels with the terrain design
- Compatible for Panter FD-2, FD-2H, FD-3, Panter RZS driving units



Order No.: 140130



SWEEPING AND WINTER MAINTENANCE

SB 110 Cylindrical brush

- Operating width 110 cm
- It is used for removing dirt and snow
- Two rotation speeds of the brush (summer and winter operation)
- Brush diameter 40 cm
- Side brush turning from the operator location
- Two height adjustable travel wheels
- Gear by means of screw gearbox and V-belt
- The collecting container as optional accessory
- Compatible for Panter FD-2, FD-2H, FD-3, FD-5, Panter RZS driving units



Order No.: 01235.145



SPECIAL ACCESSORIES

SB110-C Collecting container

- Stainless casing
- Large wheels
- Container volume 54 litres



STAINLESS

Order No.: 01235.146

SF-70 Snow blower

- Operating width 69 cm
- It is used for removing fresh fallen snow
- Two speed turning of the discharge blade
- It manages even wet snow
- Side turning of the chimney
- Adjustable tongues
- Gear by means of screw gearbox and chain
- Compatible for Panter FD-2, FD-2H, FD-3, Panter RZS driving units



Order No.: 01235.071

SPECIAL ACCESSORIES

RAP-85 Blade

Order No.: 01235.040



RAP-100 Blade

Order No.: 01235.041



Chains for Panter FD-2, FD-2H, Panter RZS

Order No.: 10100.081



Chains for Panter FD-3

Order No.: 10100.082



Sweeping brush SB85 is designed for sweeping of dirt, snow, etc. This machine is used during the whole year. Due to the operating width 85 cm it efficiently cleans larger areas of the car parks, but it passes through more narrow locations of the pavements, pass the houses, etc. The brush roller rotates against the travel direction, the swept material is in forward direction, potentially into the stainless collecting container, which causes significant dust level reduction. The sweeping brush SB85 is controlled by means of two levers on the handlebars. The travel start and the brush start is performed independently. The travel speed is selected with the gear lever on the handlebars. Extended lever sets the transverse brush direction controlled from the operator location, i.e. the direction the brushed material should be swept; there are in total 5 positions of the side turning. The brush has diameter 40 cm, it provides the best discharge and higher snow layers. The selection of two speed revolutions of the sweeping brush helps reaching more efficient use of the machine. Low revolutions are suitable for summer operation (they reduce the dust level, increase the service life of the bristles), high revolutions can be used for winter maintenance during snow removal, snow is removed to longer distance due to higher speed.

SB85 Sweeping brush

- Briggs&Stratton I/C 850 Series engine
- Cast-iron cylinder, oil pump and oil filter
- Automatic choke with easy start even in winter
- Low vibration thanks to engine placing on silent blocks
- Compact construction suitable for the use in limited area
- Overlap of the rolling brushes with the option of side turning provides perfect cleaning of locations difficult to be accessed
- Operating width 85 cm
- Brush diameter 40 cm
- 2 rotation speeds of the brush summer/winter
- 3 travel speeds, simple gearing on the handlebars, gear with geared wheels
- The option of connecting the collecting container SB85-C
- Professional blown support wheel adjustable with lever



SPECIAL ACCESSORIES

SB85-C Collecting container

- Stainless casing
- Large wheels
- Container volume 43 litres

Order No.: 01234.001



STAINLESS

Remote controlled flail mulching machine GOLEM 1

For demanding users on lands with difficult access – e.g. photovoltaic power plants, fruit orchards etc., we have developed the remote controlled flail mulching machine.

- Operating width 100 cm
- Mowing by means of 36 special oscillating blades (18Y)
- It manages cutting even an year old vegetation and natural seeding
- Briggs&Stratton I/C 500 cc engine with 15.5 HP output
- The option of steel wheels (designed for sloped areas with defect elimination) or blown wheels for less demanding applications
- Driven front axle, controlled rear axle
- Long lasting slope availability 20°, short term 30°
- The option of using steel wheels (designed for sloped areas, defect elimination)
- TuffTorq K46DE Hydrostatic gearbox
- Single slide control of speed for ward (10 km/hour) and back (10 km/hour)
- Ergonomic controller with the reach of 50 m enables the travel speed for ward, backwards, turning, switching on the mulching machine.
- The battery lasts during permanent operation for approximately 16 hours
- The controller weight including the batteries is 900 g



The total machine weight with blown wheels: ca. 260 kg (standard design)
 Total width: 1,135 mm
 Total length: 2,060 mm
 Height: 760 mm

ACCESSORIES FOR LAWN TRACTORS

Screw Jack

With this type of jack, you can lift the lawn tractor or rider on their back or front axle. A high-strength screw and a nut secure the jack. The screw is ended with a handle and the bottom part leans on hole of the safety rod which is connected to the jack's frame.



Order No.: 01235.166

Max. load: 350 kg
Weight: 12,5 kg

Tubular Jack

The main advantage of this jack is its perfect operation and storability. Its use is similar to the finger lifting bar. When the work is done, the jack can be disassembled into four parts so it saves you a lot of space.



Order No.: 01235.160

Max. load: 220 kg
Weight: 12 kg

MCT Flail mower

The adaptor is compatible for SECO STARJET lawn tractors which are equipped with front univesal hitch and heavy drive. The flail mower start is per formed by means of lever fixed to a lifting rod of the front adaptor. It is not necessary to demount the original cutting mechanism while the MCT flail mower is attached so there is possibility to change use of the machine quickly. So you can use one machine for mowing with collection as well as elimination of overgrown grass. MCT flail mower compared with a standard mowing mechanism cut the high grass much better.

- Operating width 100 cm
- Mowing by means of 36 special oscillating blades (18Y)
- Oscillating location of the adaptor copying the terrain
- Balanced shaft
- Compatible for tractors SECO STARJET fitted with front multipurpose suspension
- It manages cutting the year old vegetation and natural seeding



Order No.: 01236.009



DZS 125 four-disc mower in adaptation for STIGA PARK PRO 21 4WD

- operating width 125 cm
- adaptor lifting
- mowing by 4 special blades
- the blade timing is provided by means of chain and for the protection against overload there are the shear pins



RZS Modular Machine – Upstanding and Tireless Workhorse

Our RZS Kit is the right solution for everyone, who needs time-proved and high-quality machine for soil cultivation, cleaning and mowing. If you need to mow, do not hesitate. We offer two extraordinary modules. The first one is a well-proven disc mower RZS-69 that has found 19,000 satisfied customers. The second module is a modified Panter RZS chassis. It manages not only cutting the grass but also many other types of work.

Engine Units for RZS Modular Machine

Engines with the 80 mm centrifugal clutch are the base of the all modular machine. Two-stroke engines JIKOV represent timeproven and traditional driving unit. Their strong side is their very easy maintenance and high reliability. Four-stroke engines HONDA stand out in particular by their modern construction with OHC valve gear. To offer you branded 4-stroke engine with cast iron cylinder and 6.5 HP output we have developed our designed revolutions regulator for Briggs&Stratton 850 I/C engine. The engine is intended for professional use and compared to the engines with aluminium cylinder its lifetime is 2 times longer.

JIKOV two-stroke engine



HONDA four-stroke engine



BRIGGS&STRATTON four-stroke engine



	Jikov 1453 Iskra	Jikov 1454 DV Vape	Jikov 1447 DV Iskra	Honda GCV 160E	Honda GCV 190E	Briggs&Stratton Series 850 I/C
TYPE	2-stroke			4-stroke		
CAPACITY	133 cc	133 cc	153 cc	160 cc	190 cc	190 cc
CYLINDER	cast-iron	cast-iron	cast-iron	aluminium	aluminium	cast-iron
HORSEPOWER	4.7 HP	4.7 HP	5.2 HP	5.5 HP	6.5 HP	6.5 HP
FUEL	petrol+oil			petrol		
CLUTCH	80 mm centrifugal clutch with attachment for DAKR, Terra and Vari chassis					
OTHER FEATURES	Contact ignition	Electronic ignition	Contact ignition	Low fuel consumption	Low fuel consumption	Oil pump and filter
ORDER NUMBER	110020	110231	110313	810018	810023	810009

Frequently asked question is: "What is the maximum slope accessibility for machines equipped with 4-stroke engine? The answer is not definite because it is necessary to differentiate among 3 limit situations:

- maximum slope accessibility while the engine securely lubricates and there is no danger of damage
- maximum slope accessibility while the machine is stable and not overturn
- maximum slope accessibility from safety point of view

The producers of 4-stroke engines state the permanent slope accessibility up to 20° while there is no danger of damage or oil leak. In the short term for 1 minute it is possible to incline the machine in any direction up to 30° but please notify of possible small oil leak through the breather pipe of the crankcase. Only the long-term oil leak under the minimum level in the crankcase would lead to serious damage. To avoid the air filter pollution we recommend to drive the machine with the air filter higher in the slope.

We keep the stability of the machine in mind while design them.

ACCESSORIES

UR 201 Handlebars

Order No.: 01102.011



UR 201 Travel Control Bar with the safety switch

Order No.: 41000.097



RZS 69 Mower

The mowing chassis RZS 69 is our well-proven product. With the cutting width of 69 cm you can at one time mow 1 hectare or even more. The mower has a light tube frame and the travel with a worm-gear unit in sliding carriage. The cutting disc is equipped with 3 double-ended knives and a plastic arch. The divided shaft provides for the OP 111 turner-raker attachment.



Panther RZS Multi-Purpose Chassis

You can find a detailed description of this chassis including all attachable adaptors on page 8. The chassis is intended for the engines with 80 mm and 120 mm centrifugal clutch owners. The clutches were used in Terra, Vari, Dakr, Jikov and other kits.

Illustrative set
Panther RZS+RZS-70K

Order No. 2-stroke: 01235.003
 Order No. 4-stroke: 01235.002
 Order No.: Agzat 2-stroke 01235.006
 Order No.: Agzat 4-stroke 01235.007



A standard protective cover is a component of the mower.



	RZS-69/W 2T	RZS-69/W 4T	RZS-69/W 2TA	RZS-69/W 4TA	RZS-69/W 2T 1:20
OPERATING WIDTH	Disc with smaller slider, 3 blades, 69 cm operating width				
TRAVEL	Switching travel, 1 travel speed, c. 2.0 – 2.7 km/hour				
WHEELS	Big air-pressured 420 mm wheels (inner tube, tyre)				
CLUTCH DIAMETER	80 mm Terra, Vari		120 mm Agzat		80 mm Terra, Vari
ENGINE TYPE	2-stroke	4-stroke	2-stroke	4-stroke	2-stroke
ORDER NUMBER	01221.013	01223.013	01222.013	01222.014	01221.010

	RZS-69/V 2T	RZS-69/V 4T	RZS-69/V 2TA	RZS-69/V 4TA
OPERATING WIDTH	Disc with smaller slider, 3 blades, 69 cm operating width			
TRAVEL	Switching travel, 1 travel speed, c. 2.0 – 2.7 km/hour			
WHEELS	Big full rubber 410 mm wheels			
CLUTCH DIAMETER	80 mm Terra, Vari		120 mm Agzat	
ENGINE TYPE	2-stroke	4-stroke	2-stroke	4-stroke
ORDER NUMBER	01221.012	01223.012	01222.012	01222.011

	Panther RZS 2T	Panther RZS 4T	Panther RZS 2TA	Panther RZS 4TA
COMPATIBLE ADAPTORS	RZS-70K and DZS-125 mowers, M-70 mulcher, OP-114 haymaker, SF-70 snow blower, SB-110 sweeping brush, RAP-85 and RAP-100 snow blades, KOR-220, KOR-100 and HV-220 trailers, ROT rotary cultivator, VERTI aerator, DV-70 chipper shredder, BP and BPR2 seats			
TRAVEL	Mechanical gearbox, 3 travel speeds 2.1 + 3.0 + 4.4 km/hour			
WHEELS	Big air-pressured 420 mm wheels, solid axletree			
CLUTCH DIAMETER	80 mm Terra, Vari		120 mm Agzat	
ENGINE TYPE	2-stroke	4-stroke	2-stroke	4-stroke
ORDER NUMBER	01235.003	01235.002	01235.006	01235.007

HAND TRUCK WITH BLADE

Hand truck is very useful for moving of bins, wood in basket, ashes in barrel, crates with fruit, shopping bags etc. You can also simply attach a blade for snow removal in winter. The hand truck is thanks to big air-pressured wheels easily controllable not only on the pavements and roads but also on the lawns, unpaved areas and while crossing the stairs and uneven terrain too. There are several holes on the frame in different heights for hooks to hang the load in required position. To adjust the blade into required height above the ground there is an adjustable leading wheel. This inconspicuous assistant makes the everyday troubles easier.

Order No.: 01235.049



ACCESSORIES

Blade



Order No.: 01235.047



FP FLOATING PUMP

FP Floating pump

- Profi motor Briggs&Stratton I/C 850 with cast iron cylinder, oil pump and oil filter
- Maximum discharge height 15 m
- Maximum flow 900 l/min
- Termination for fire hose B75
- Weight 32 kg
- Stainless shaft



Order No.: 01234.100

The pump is designed mostly for the pumping of murky and messy water during floods, for pumping water lagoons from the fields, tanks, etc. The pump is recognized for high resistance against the clogging from materials which are commonly present in water during floods such as leaves, grass, bags, etc.



SPREADERS FOR SOIL SPREADING

Our manually pushed spreaders are in particular intended for turf establishment at large gardens, football stadiums and golf courses, in parks and at other places where the main factor is the beauty of the turf. When we constructed the spreaders, we placed special attention to developing a fully professional machine, which distributes the soil with the constant density. We did the majority of testing in the Great Britain, where specialist devote to very high-quality turf establishment. We offer two types of the spreader to our customers. All their components are identical; they only differ in the operating width and the wheel size.



KRR

Order No.: 01021.030



KRRJ

Order No.: 01021.035

	KRR - Green Wizard 70	KRRJ - Green Wizard 40
HOPPER VOLUME	180 litres	100 litres
MAX. LOAD	200 kg	120 kg
OPERATING WIDTH	70 cm	40 cm
TOTAL SPREADER WIDTH	1010 mm	700 mm
EMPTY SPREADER WEIGHT	40 kg	30 kg
OUTER WHEEL DIAMETER	410 mm	300 mm

GRANULATED FERTILISERS AND WINTER SALT SPREADERS

These spreaders can be used throughout the year. In summer, they can be used for fertilisation and in winter, for path and road maintenance. Moreover, the salt makes no damage to the spreader – with the exception of KRH 01E, the spreading mechanism is made of corrosion-free materials. The figures below are stated for British Road Treatment Granulated Salt BS 3247.



KRH 01 – Matterhorn

With full hopper, KRH 01 Matterhorn manages to treat up to 625 m². The width of the belt is approx. 3 m. It can be used for fertilisation as well as for spreading in winter. We recommend using this spreader around family houses, stores and other small business premises. The drive of the spreading mechanism occurs from wheels with a simple mechanical transmission made of stainless steel.

Order No.: 01021.028

Spreading apparatus drive: corrosion-free geared transmission
 Spreading system: rotar y spinner plate, special activator
 Working speed: 1-4 km/hour
 Max. operating width: 1-3 m
 Salt volume per m²: adjustable to 63 g/m²
 Treated area with full hopper: 400-625 m²
 Empty spreader weight: 8 kg
 Recommendation: households, petrol stations and business premises to 2,000 m²

KRH 06 – Olympus Turbo

It is the spreader with robust profi construction for spreading at exact 70 cm width belt.



Order No.: 01021.031

Hopper capacity: 80 kg of salt
 Spreading apparatus drive: mechanical, from wheels with chains
 Spreading system: line spreading in precise width
 Working speed: 1 – 4 km/hour
 Operating width: 70 cm
 Salt volume per m²: adjustable 30 - 100 g/m²
 Treated area with full hopper: 800 – 2,650 m²
 Empty spreader weight: 37 kg
 Recommendation: municipalities, professional use

KRH 02 – Mont Blanc

This profi construction manages to treat up to 1,000 m² with full hopper. The width of the belt is up to 4.5 metres and it has the hopper capacity of exact 40 kg. These parameters make this spreader road, larger business premises and supermarket parking lots treatment power ful helper. The drive of the spreading mechanism is derived from the wheels with a worm gearbox. It is possible to disassemble the spreading mechanism with locking in wheel's hub during crossing.



Order No.: 01021.027

Hopper capacity: 40 kg of salt
 Spreading apparatus drive: worm-gear unit
 Spreading system: rotar y spinner plate, special activator
 Working speed: 1-4 km/hour
 Max. operating width: 1-4.5 m
 Salt volume per m²: adjustable to 90 g/m²
 Treated area with full hopper: 550-1,000 m²
 Empty spreader weight: 22 kg
 Recommendation: towns and business premises over 2,000 m²



Car-pulled or tractor-pulled spreaders

These spreaders are pulled similar to trailers behind cars or garden tractors. The drive of the spreading mechanism is derived from the wheels with a steel oil-filled clutch and can be switched off. The salt hopper is made of laminated plastic very resistant to mechanical damage as well as extreme climatic conditions. Parts of the spreader exposed to salt are made of stainless steel.

KRH 03 – Everest



Order No.: 01021.019

Less powerful spreading machine is equipped with a 150 kg capacity hopper. The weight of an empty spreader is 65 kg. It is indented for medium-size business premises and parking lots treatment. With full hopper, it is capable of 6,000 m² treatment.

Hopper capacity: 150 kg of salt
 Spreading apparatus drive: bevel gearbox
 Spreading system: rotar y spinning plate, special activator
 Working speed: pulled by car up to 10 km/hour
 Operating width: 3 – 6 m
 Salt volume per m²: adjustable 25 - 75 g/m²
 Treated area with full hopper: 2,000 – 6,000 m²
 Facilities: steel sieve, cap, eye for tractor pin, attachment for trailer hitch
 Empty spreader weight: 65 kg
 Recommendation: municipalities and business premises

KRH 03 – Everest with seat

This machine can be attached to the driving unit Panter FD-2, FD-2H, Panter FD-3 or other small two-wheel tractor.



Order No.: 01022.001

Hopper capacity: 150 kg of salt
 Spreading apparatus drive: bevel gearbox
 Spreading system: rotar y spinning plate, special activator
 Working speed: pulled by car up to 10 km/hour
 Operating width: 3-6 m
 Salt volume per m²: adjustable 25-75 g/m²
 Treated area with full hopper: 2,000-6,000 m²
 Facilities: steel sieve, cap, seat
 Empty spreader weight: 78 kg
 Recommendation: municipalities and business premises



KRH 04 – Fuji

The spreader has a very high performance. With full hopper, it manages to treat up to 10,000 m². It is equipped with a warning beacon and lights.



Hopper capacity: 250 kg of salt
 Spreading apparatus drive: bevel gearbox
 Spreading system: rotar y spinning plate, special activator
 Working speed: pulled by car up to 15 km/hour
 Operating width: 3 - 6 m
 Salt volume per m²: adjustable 25 - 75 g/m²
 Treated area with full hopper: 3,300 - 10,000 m²
 Facilities: steel sieve, cap, eye for tractor pin, attachment for trailer hitch
 Empty spreader weight: 95 kg
 Recommendation: traffic, CZ public highways

Order No.: 01021.021

Certification for KRH 04 - Fuji for the operation on public roads

The spreader KRH 04 – Fuji is supplied with the additional set of reflection plates and other safety elements, which enable the spreader operation on public roads and it is provided with technical certification. This set can be extended for all existing KRH 04.

Order No.: 01200.015



KRH 07 – K2

It is professional spreader which pours salt on the belt 150 cm wide. The amount of poured material can be gradually regulated. The internal area of the container includes the profiled roller which feed the poured material. The rollers are driven by gear from the spreader wheels. During the travel to the pouring location, the rollers can be switched off. KRH 07 has electrical installation for the direction and reflection lights which are connected into the vehicle socket for additional trolleys. It also includes two auxiliary adjustable wheels used in order to enable the spreader handling, even independently without the connection to the traction vehicle. The upper part of the container includes a screen which prevents the falling of large frozen or attached parts of compound material. The spreader in basic design is designed for carrying on three-point tractor suspension. It is possible to purchase accessories – shafts with terminals for the traction devices of vehicles, and lug for the connection behind the main tractor. It is also possible to purchase a beacon.



Hopper capacity: 500 kg of salt
 Spreading apparatus drive: from wheel with V-belts
 Spreading system: line spreading by profiled roll
 Operating speed: Pulled or carried behind the vehicle up to max. 15 km/hour
 Operating width: 1.5 m
 Salt volume per m²: adjustable up to 120 - 350 g/m²
 Treated area with full hopper: 1,400 – 4,100 m²
 Empty spreader weight: 250 kg
 Recommendation: municipalities, sports fields, business premises

KRH 07 – K2:
 Order No.: 01021.032

The tradition of drum mowers production since 1990



Distributor

 **DAKR**

DAKR Ltd.

Čs. Armády 210, CZ-753 01 Hranice

tel.: +420 581 616 141 mob.: +420 607 704 742

fax: +420 581 616 755 e-mail: marketing@dakr.eu

www.dakr.com/_en/

The producer reserves the right to change prices and the product design pictures in this catalogue.
All pictures contained in this catalogue are protected by copyright.
Scanning, copying and other forms of reproduction of the pictures are forbidden.

