



romill®

AGRICULTURE

FEED PROCESSING MACHINES | GRAIN STORAGE

ABOUT THE COMPANY

The company ROmiLL was established in 1991 as a purely Czech company. Its activities focus on two main areas:

AGRICULTURAL MACHINERY

The most important export goods are **mobile crushers for processing of wet grain**. These are nowadays exported not only to European countries but also to some countries in Asia, Africa, Australia and Oceania.

Stationary grinders, crimpers, crushers and mixers of loose materials are currently installed on hundreds of farms, especially in the Czech Republic, the Slovak Republic and also in other countries.

Technology lines of **industrial feed mills** work in tens of agricultural companies.

The company also delivers large technological units for treatment and storage of agricultural products.

Recently, deliveries to food processing industry, especially brewing sector, have expanded.

Attention is drawn to ROmiLL ROTOS a machine for **collection and transport of round bales**. Its concept and efficiency has addressed many customers from all over the world.

INDUSTRIAL MICROWAVE HEATING

Microwave Technology Division solves technological processes of world leading companies, e.g. Continental, Roca Laufen, Hamé, Láník Techservis, IREKS Enzyma, CENTRAL STICKS, PYROTEK, etc.

Custom-made development with a number of verification tests is always involved. Main applications include **drying, vulcanization, thawing and pasteurization**. Industrial microwave heating is considered to be the technology for the future.

The company was split into two parts in 2021.
ROmiLL spol. s.r.o. continues in the field of microwave heating.
The new company ROmiLL AGRICULTURE s.r.o. is dedicated only to agricultural machinery.

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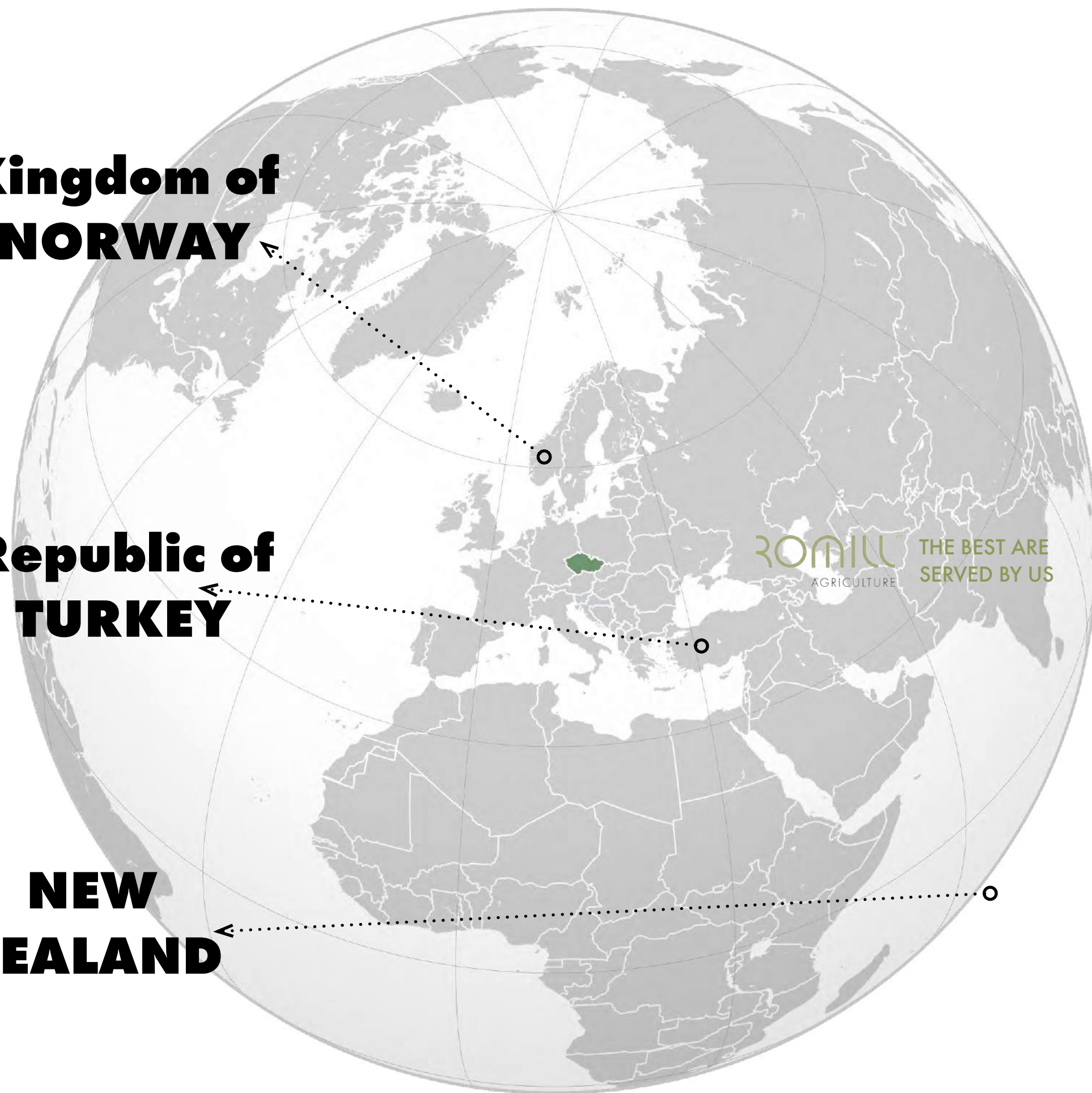




**Kingdom of
NORWAY**

**Republic of
TURKEY**

**NEW
ZEALAND**



ROMILL
AGRICULTURE
THE BEST ARE
SERVED BY US

WET GRAIN CRUSHERS

The general economic pressure to reduce the costs of livestock production leads to utilization of cheaper technologies. Pure maize grain, including cereal grain, harvested and processed at higher moisture (maize: approx. 30-40%, grain: approx. 22-36%) may be used as highly valuable feed (mainly for cattle and swine, but also for poultry).

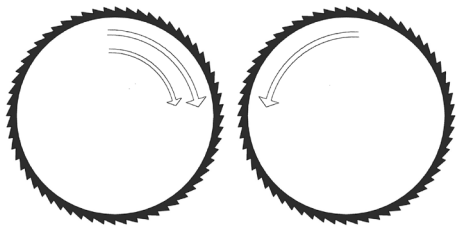
Roller crusher crushes the threshed grain and preserves it.
The feed structure may be set very precisely but also very simply.
Such a modified product is stored at maximum air elimination – typically, by pressing into silo bags or storing in silage pit.

Such processed feed material has several essential advantages:

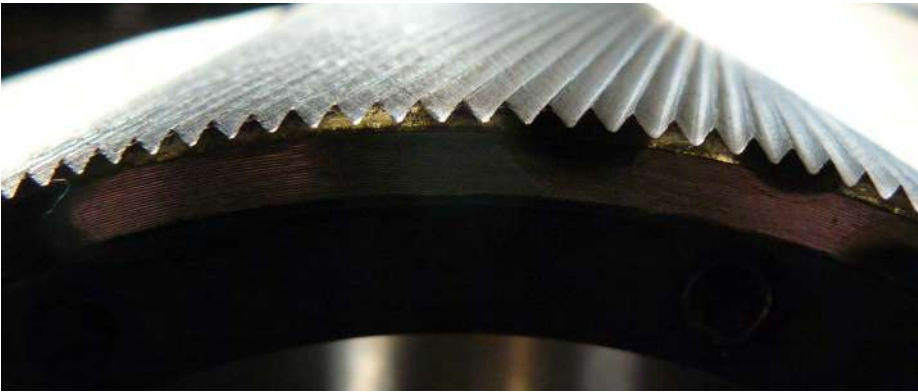
- Contains more water-soluble sugars, is more easily digested and has a higher exploitability of soluble nitrogen.
- Optimizes the starch ratio in the rumen and small intestine, thus decreasing rumen acidosis.
- The harvest can proceed in earlier periods at higher moisture levels and is less dependent on weather conditions, without rising costs (prolonged harvest period means more efficient use of harvesters).



The distinctive **advantage of all ROmill crushers is the ability to change the structure (coarseness) of feed material** from very fine, intended for monogastric animals to very coarse/crimped grain for ruminant animals.

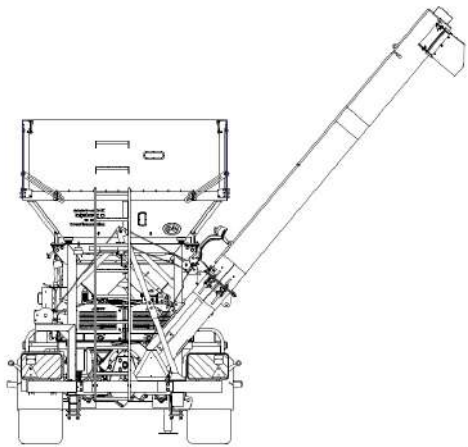


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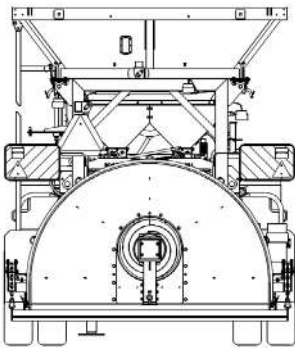


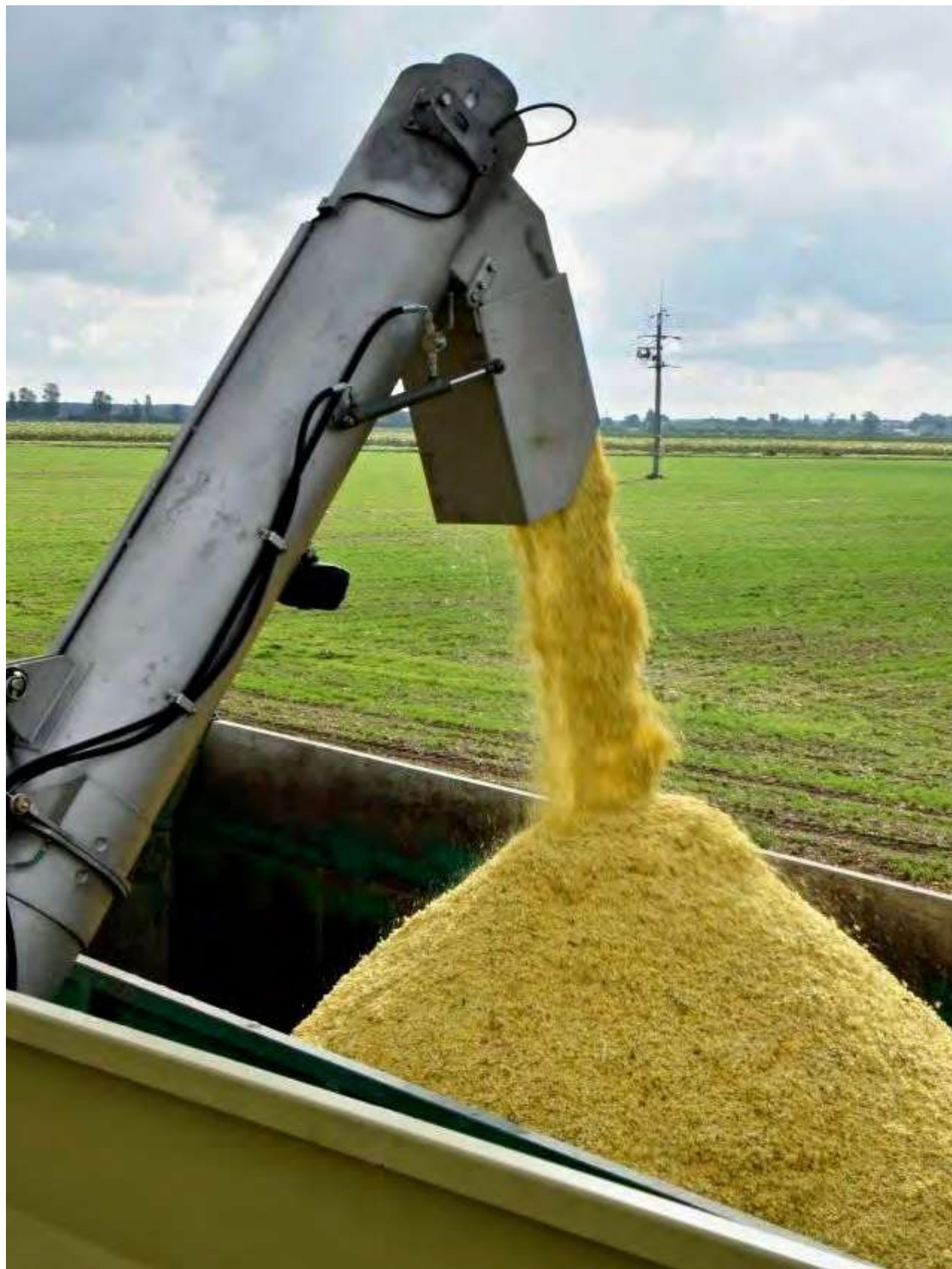
Mobile wet grain crushers are divided according to utilization of:

WITH SCREW CONVEYOR



WITH PRESS-TUNNEL





M SERIES

MOBILE WET GRAIN ROLLER CRUSHERS WITH SCREW CONVEYOR

M Series of ROmill machines is intended for **work on field**. Crushed grain is stored in silage pit, or in silo bags when using silage presses.

The crushed material is **ideally mixed with a preservative** in the stainless steel screw conveyor.

The machine may be used **throughout the year to process dry grain** as well without replacement of operating rollers.

M1



1 × crushing unit
2 operating rollers – 900 mm
15–20 t/h
hopper 3,1 m³

M2



2 × crushing unit
4 operating rollers – 900 mm
30–40 t/h
hopper 9 m³

M2 PLUS



2 × crushing unit
4 operating rollers – 1200 mm
45–60 t/h
hopper 10 m³

M Series Main features:

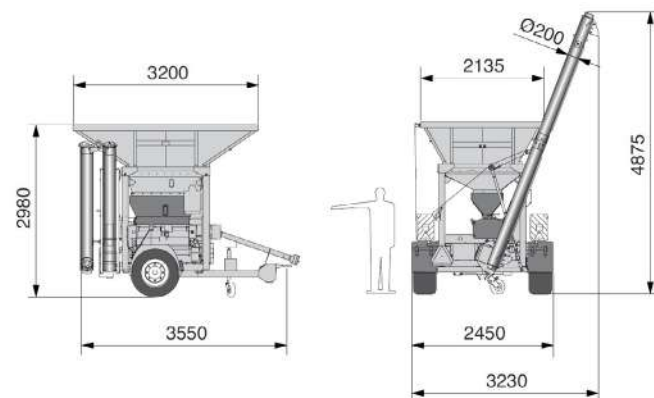
- **Cost savings (compared to drying) reach up to 40 EUR/t.**
- Machines may work directly on field since the hopper volume of 10m³ (of M2 Plus) enables to empty the whole volume from the harvester (= **no time losses**).
- Stainless screw conveyor with folding mechanism.
- Upon customer's request, dosing tourniquets enabling fully automatic operation may be ordered.
- **The crushing unit is protected by a unique bounce system of rollers.**



M1

SPECIFICATIONS

	M1
drive	tractor min. 60 hp
capacity coarse crushing	15 - 20 t/h
fine crushing	7,5 - 15 t/h
weight	2960 kg
screw conveyor diameter	200 mm
hopper volume	3,1 m ³
diesel consumption	0,4 - 0,5 l/t



Optional drive by an
ELECTRIC MOTOR

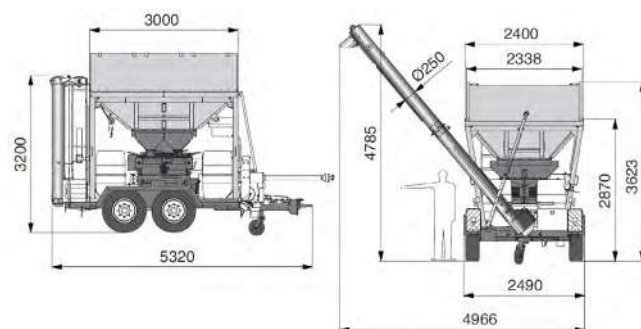
- + Designed for primary producers; however, it may be used by companies offering contractors during the harvest.
- + Its performance fully covers work of one harvester.
- + A stationary version driven by an electric motor is especially suitable for biogas installations.
- + **The capacity of 20 t/h is reached when using a tractor with 60 hp.**



M2

SPECIFICATIONS

	M2
drive	tractor min. 120 hp
capacity	coarse crushing 30 - 40 t/h
	fine crushing 15 - 30 t/h
weight	5600 kg
screw conveyor diameter	250 mm
hopper volume	9 m ³
diesel consumption	0,4 - 0,5 l/t



One machine Romill M2
covers work of
two harvesters !

- + Designed especially for larger farms or companies offering harvesting contractors.
- + The hopper of the crusher (9 m³) is filled from the harvester or from the reloading vehicle directly in the field.
- + The area for 4 barrels with a preservative, 800 litres in total (the machine is equipped with a hoist for barrel handling).
- + **The capacity of 40 t/h is reached when using a tractor with 120 hp.**

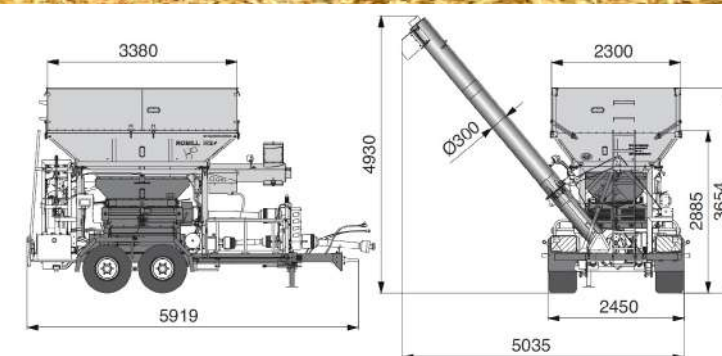


M2 PLUS

SPECIFICATIONS

	M2 PLUS
drive	tractor min. 160 hp
capacity	45 - 60 t/h
coarse crushing	
fine crushing	30 - 45 t/h
weight	6200 kg
screw conveyor diameter	300 mm
hopper volume	10 m ³
diesel consumption	0,4 - 0,5 l/t

UNBEATABLE
capacity of **60 t/h.**
REALLY !!!



- + Designed especially for companies offering harvesting contractors and processing larger volumes of feed materials. 1 x M2 PLUS machine covers work of up to 3 harvesters.
- + The hopper of the crusher (10 m³) is filled from the harvester or from the reloading vehicle directly in the field.
- + Area for 2x 1000-liter IBC tanks (or 4x 200-liter barrels) with preservative directly on the machine.
- + **The capacity of 60 t/h is reached when using a tractor with 160 hp.**

CP SERIES

MOBILE WET GRAIN ROLLER CRUSHERS WITH PRESS-TUNNEL

CP Series of ROmill machines are intended for work on farms. Crushed grain is pushed by a screw placed directly in the middle of the press-tunnel which helps to evenly press the grain into silo bags. This **prevents** air intrusion and thus **development of moulds**.

Alternative application of CP machines – the machine enables a very fast exchange of the crushing unit for ADAPTER FOR PRESSING OF BY-PRODUCTS (especially sugar beet pulps or brewer's draff). However, other types of feedstuff and organic matter may be stored in the bag too.

Upon customer's request, dosing tourniquets enabling fully automatic operation may also be ordered.

CP Series Main features:

1 machine = **4** operations

grain crushing → preservative application → material and preservative mixing → pressing into bags

- **Cost savings** (compared to drying) reach up to 40 EUR/t.
- Press-tunnel with central screw placement.
- Several press-tunnel sizes available.
- The machine may be used throughout the year to process dry grain as well without replacement of operational rollers.
- When using an **adapter**, it is possible to fill sugar beet pulps and brewer's draff into bags.
- **The crushing unit is protected by a unique bounce system of rollers.**

CP1 LITTLE



1 × crushing unit
2 operating rollers – 600 mm
8–15 t/h
hopper 2,8 m³

CP1 SIMPLE



1 × crushing unit
2 operating rollers – 900 mm
15–20 t/h
hopper 3,2 m³

CP1



1 × crushing unit
2 operating rollers – 900 mm
15–20 t/h
hopper 3,7 m³

CP2



2 × crushing unit
4 operating rollers – 900 mm
30–40 t/h
hopper 3,4 m³

CP2 PLUS



2 × crushing unit
4 operating rollers – 1200 mm
45–60 t/h
hopper 10 m³

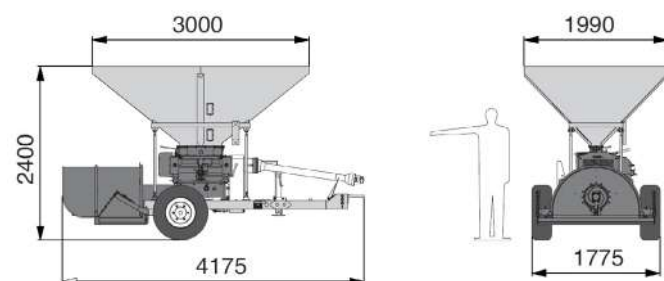




CP1 LITTLE

SPECIFICATIONS

	CP1 LITTLE
drive	tractor min. 70 hp
capacity	coarse crushing 8-15 t/h
	fine crushing 4-8 t/h
weight	1820 kg
bag diameter	1,2 m/1,5 m
hopper volume	2,8 m ³
diesel consumption	0,7-0,9 l/t



THE CHEAPEST
wet grain crusher
ROMILL !!!

- + The smallest CP Series machine, less efficient variant of CP1 Simple machine (shorter operating rollers).
- + Suitable especially for smaller farms, filling by a front loader.
- + Two press-tunnel sizes available - 1,2 m or 1,5 m.
- + **The capacity of 15 t/h is reached when using a tractor with 70 hp.**

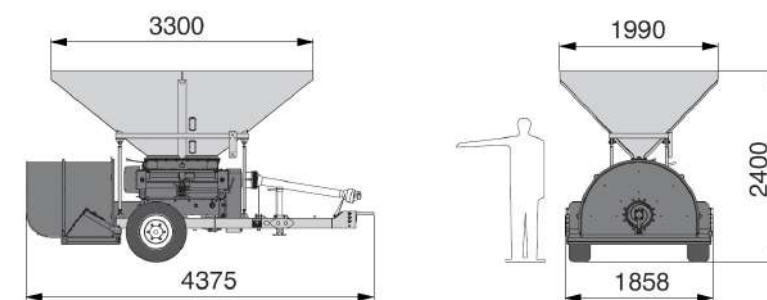


CP1 SIMPLE

Simplified machine with maintained **ROmiLL quality** for a very **favourable price**

SPECIFICATIONS

	CP1 SIMPLE
drive	tractor min. 100 hp
capacity	coarse crushing 15 - 20 t/h
	fine crushing 7,5 - 15 t/h
weight	2030 kg
bag diameter	1,2 m / 1,5 m
hopper volume	3,2 m ³
diesel consumption	0,7 - 0,9 l/t



- + A technically simpler version of CP1, identical capacity, identical crushing unit.
- + Suitable especially for medium-sized farms.
- + Filling by a front loader.
- + Two press-tunnel sizes available - 1,2 m or 1,5 m.
- + **The capacity of 20 t/h is reached when using a tractor with 100 hp.**



CP1

PERFECT for a
MEDIUM-SIZED farm!

SPECIFICATIONS

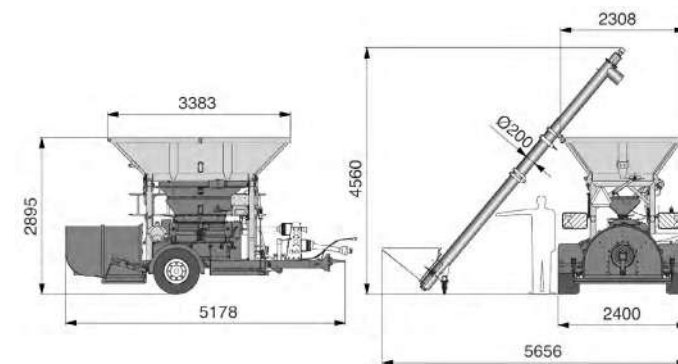
	CP1
drive	tractor min. 100 hp
capacity	coarse crushing 15 - 20 t/h
	fine crushing 7,5 - 15 t/h
weight	2870 kg
bag diameter	1,2 m/1,5 m/2 m
hopper volume	3,7 m ³
diesel consumption	0,7 - 0,9 l/t

Advantages in comparison to CP1

SIMPLE:

- » hydraulic operational brake
- » larger hopper
- » larger press auger diameter
- » larger wheels with mudguards
- » possible application of an adapter for bagging of by-products

- + Suitable especially for primary producers, or for companies offering contractors during the harvest.
- + Loading by a front loader or a receiving screw conveyor (accessories upon request).
- + Three press-tunnel diameters available - 1,2 m, 1,5 m or 2 m.
- + **The capacity of 20 t/h is reached when using a tractor with 100 hp.**



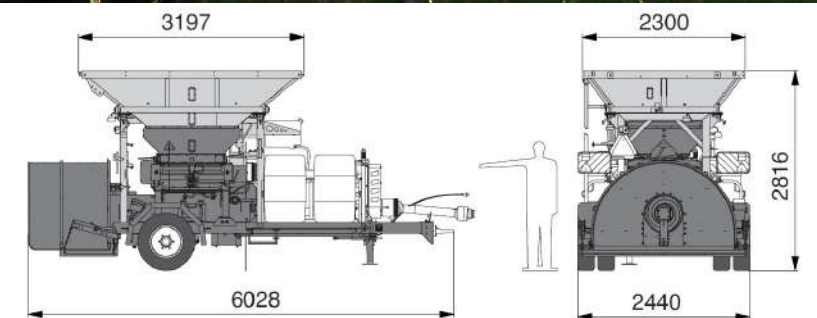


CP2

SPECIFICATIONS

	CP2
drive	tractor min. 160 hp
capacity coarse crushing	30-40 t/h
fine crushing	15-30 t/h
weight	4950 kg
bag diameter	1,5 m/2 m/2,4 m
hopper volume	3,4 m³
diesel consumption	0,7-0,9 l/t

Versatile machine application
(crushing of wet/dry grain, filling of
by-products into bags)



- + Designed especially for larger agricultural companies or companies offering harvesting contractors.
- + Area for four 200-liter barrels or one 1 000-liter IBC tank directly on the machine.
- + Loading by a front loader or a receiving screw conveyor (accessories upon request).
- + Three press-tunnel sizes available - 1,5 m, 2 m or 2,4 m.
- + **The capacity of 40 t/h is reached when using a tractor with 160 hp.**

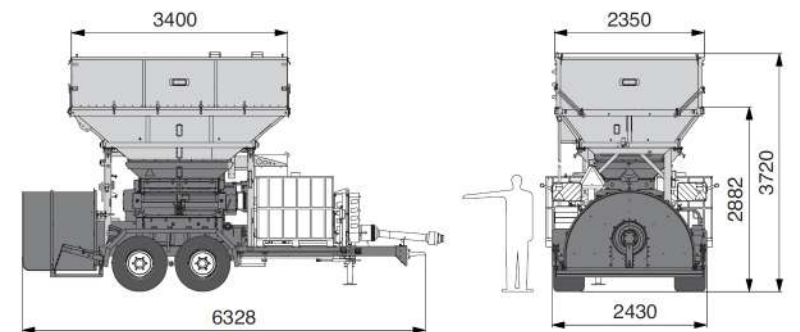


CP2 PLUS

SPECIFICATIONS

	CP2 PLUS
drive	tractor min. 200 hp
capacity	coarse crushing 45 - 60 t/h
	fine crushing 30 - 45 t/h
weight	6200 kg
bag diameter	1,5 m / 2 m / 2,4 m
hopper volume	10 m ³
diesel consumption	0,7 - 0,9 l/t

UNBEATABLE performance
of 60 t/h
REALLY COOL!



- + Determined especially for companies offering harvesting contractors and processing larger volumes of feed materials.
- + Loading by a front loader or a receiving screw conveyor (accessories upon request).
- + Three press-tunnel sizes available - 1,5 m, 2 m or 2,4 m.
- + **The capacity of 60 t/h is reached when using a tractor with 200 hp.**

S SERIES

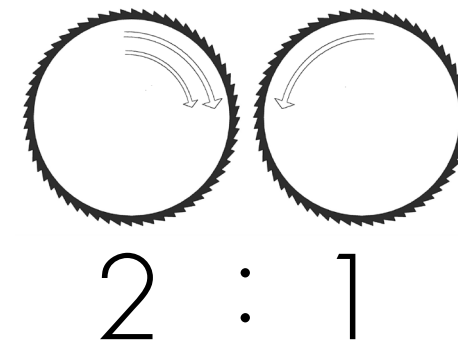
ROLLER GRINDERS

During roller grinding, grain is processed by **shearing** when passing through the grinding gap between two grooved rollers that **rotate with different speed**.

In comparison to grain splitting in hammer mills, **lower energy consumption** is achieved. Savings may reach up to 70% at coarse grinding for poultry and 30-50% at fine grinding for swines.

Machines are used for processing of most feed materials, especially grains but also legumes, oilseeds, etc. However, they may be used for processing of nonfood production too.

In consultation with the producer, it is **possible to choose from several groove types** and also from two **surface treatment options for operational rollers**.



LONG LIFE OF
ROLLERS !



ROmill roller grinders are equipped with **a unique system for protection of rollers** against damages caused by hard objects and also with a special technology for roller hardening. **Stable roller parallelism** guarantees a homogenous structure of the final product.

The requested **feed structure may be adjusted very easily** and altogether very precisely (grinders are fitted with rollers having finer grooving for fine scrap). We will be happy to advise you on the grooving and surface treatment of operational rollers.

S100



roller length - 100 mm
0,4 - 0,9 t/h

S300



roller length - 300 mm
1,2 - 2,6 t/h

S600



roller length - 600 mm
3 - 9 t/h

S900



roller length - 900 mm
7 - 20 t/h

S1200



roller length - 1200 mm
10 - 25 t/h

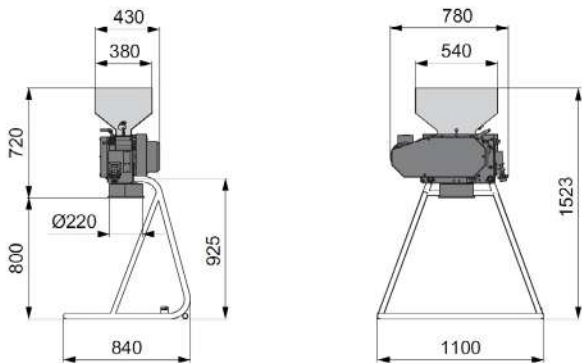
Such processed feed material has several essential advantages:

- Scrap from roller grinders is distinguished by their homogenous structure with minimal dust content.
- Such treated feed is eminently suitable for monogastric animals.
- The feed value of such material from roller mills increases digestibility and thus feed efficiency. They are efficient especially during feed processing for poultry.
- Poultry stomach works best when the particle size varies from 1-2 mm.
- Scrap with homogenous structure and minimal dust and flour content is physiologically the best feed for poultry.
- During production of feed mixtures for broilers using roller grinders, it is possible to completely skip pelleting.



S100

The smallest grinder type with the roller length of only 100 mm is suited for smaller farms. The basic version is delivered together with stand, bagging mechanism, hopper and basic switchboard.



SPECIFICATIONS

driven by an electric motor
3 × 400 V, 50 Hz

capacity coarse grinding

 fine grinding

weight

S100

2,2 kW

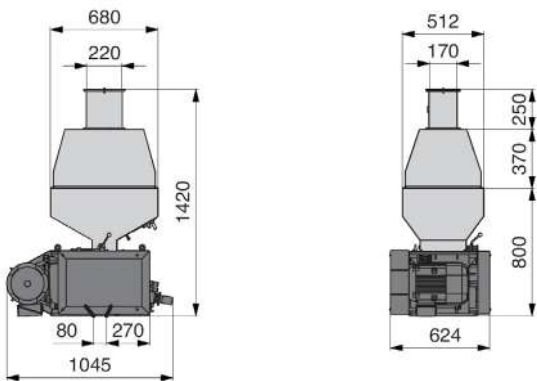
0,6-0,9 t/h

0,4-0,5 t/h

163 kg

S300

The machine having the roller length of 300 mm is popular on smaller and medium-sized farms. The basic version is delivered with a hopper. Hopper lid, magnet, switchboard and one of three stand types may be ordered separately.



SPECIFICATIONS

driven by an electric motor
3 × 400 V, 50 Hz

capacity coarse grinding

 fine grinding

weight

S300

7,5 kW

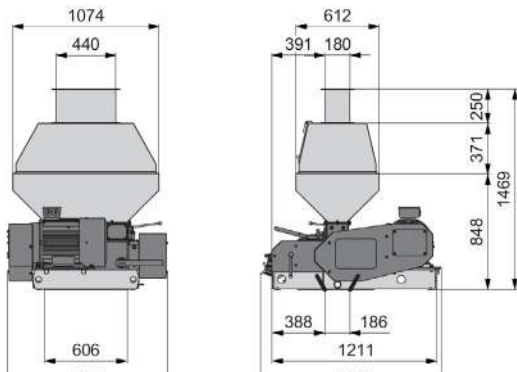
1,8-2,6 t/h

1,2-1,5 t/h

478 kg

S600

Sufficient efficiency and favourable price are the main reasons why to choose this machine type for farms of virtually all sizes. Roller length is 600 mm. The basic version is delivered together with a hopper. Hopper lid, magnet and switchboard may be ordered separately.



SPECIFICATIONS

driven by an electric motor
3 × 400 V, 50 Hz

capacity coarse grinding

 fine grinding

weight

S600

18,5 kW

6-9 t/h

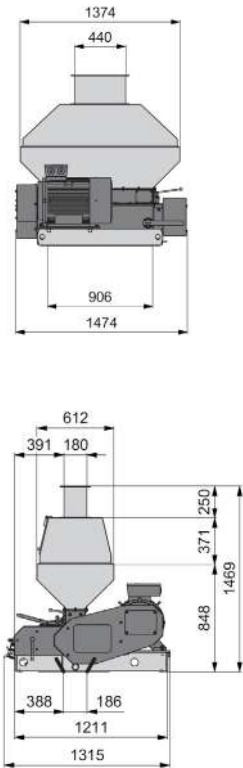
3-5 t/h

993 kg



S900

The machine with the roller length of 900 mm may be fitted not only into industrial feed mills but also into agricultural primary production. The basic version is delivered together with a hopper and a hopper lid. Magnet, switchboard and dosing tourniquets may be ordered separately.



SPECIFICATIONS

driven by an electric motor
3 × 400 V, 50 Hz

capacity coarse grinding

fine grinding

weight

S900

37 kW

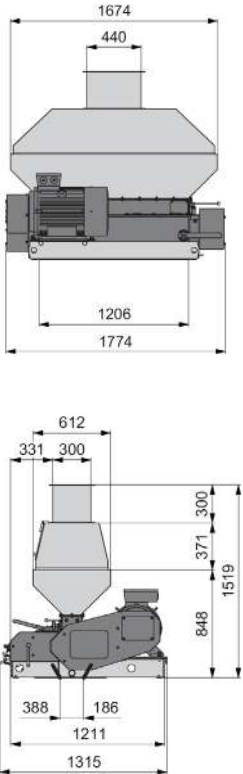
14-20 t/h

7-9 t/h

1387 kg

Having the roller length of 1200 mm, this is the most efficient ROmill roller grinder perfect for industrial large-scale manufacturers of feed mixtures. The basic version is delivered together with a hopper and a hopper lid. Magnet, switchboard and dosing tourniquets may be ordered additionally.

S1200



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity coarse grinding

fine grinding

weight

S1200

45 kW

17-25 t/h

10-12 t/h

1712 kg



Machines S900 and S1200
in our production
for more than 25 years!!!

M SERIES

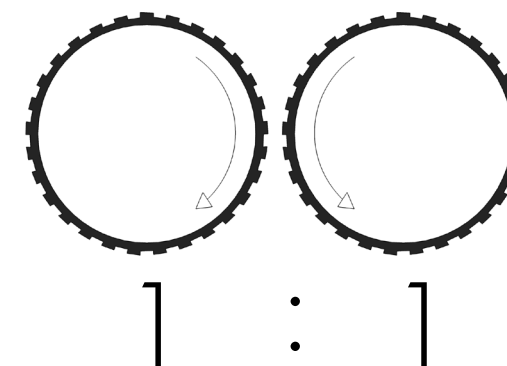
ROLLER CRIMPERS

The purpose of crimping is to transform grain into consistent flakes. The integrity of these flakes is then significantly influenced by the moisture of processed raw material.

Roller crimpers process grain by applying pressure between two rolls that rotate at the **same circumferential speed**.

Only 5% of nutrients pass to ruminants' faeces from quality crimped grain. Crimpers enable very simple and precise adjustment of requested feed structure.

In consultation with the producer, it is possible to choose from **two surface treatment operations for operational rollers**.



ROmill roller crimpers are equipped with a unique **system for protection of rollers against damages caused by hard objects**. Operational rollers are hardened using a special technology.

M100



roller length – 100 mm
0,4–0,5 t/h

M300



roller length – 300 mm
1,2–1,8 t/h

M600



roller length – 600 mm
3–4 t/h

M900



roller length – 900 mm
5–6 t/h

M1200



roller length – 1200 mm
7–9 t/h

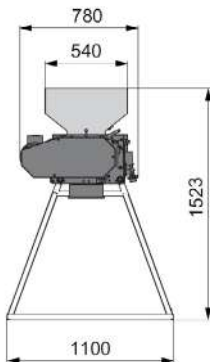
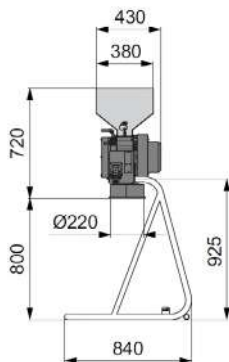
Crimped feed material and its influence on ruminants digestion:

- The desired utilization of nutrients by enzymatic digestion happens in so-called post-ruminal part of the digestive tract due to the low particle surface-to-weight ratio.
- Digestive tract peristalsis improves due to longer stimulation of mechanoreceptors.
- Crimped grain in a feed ration of milk cows improves efficiency by almost 0,5 litre per head and a day.
- Ruminant compartments of calves develop more intensively which increases the ability to accept dry materials when they become adult.



M100

The smallest type from all ROmill crimper series having the roller lengths of 100 mm. Suitable for smaller farms. The basic version is delivered together with stand, bagging mechanism, hopper and basic switchboard .



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

weight

M100

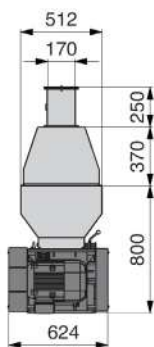
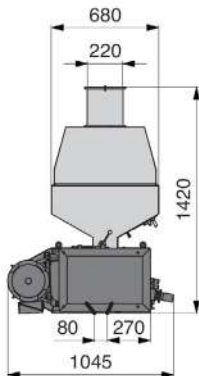
2,2 kW

0,4-0,5 t/h

163 kg

M300

This machine with its operational roller length of 300 mm is popular both on smaller and medium-sized farms. The basic version is delivered with a hopper. Hopper lid, magnet, switchboard and one of three stand types may be ordered separately.



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

weight

M300

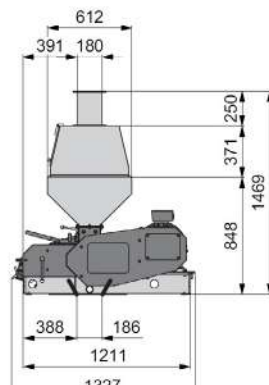
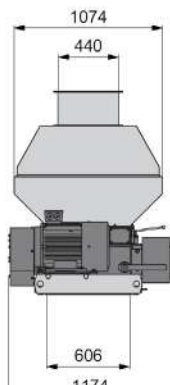
5,5 kW

1,2-1,8 t/h

478 kg

M600

Used on farms of virtually all sizes. Sufficient efficiency and favourable price are the main reasons why to choose this machine. The length of the operational rollers is 600 mm. The basic version is delivered together with a hopper. Hopper lid, magnet and switchboard may be ordered separately.



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

weight

M600

11 kW

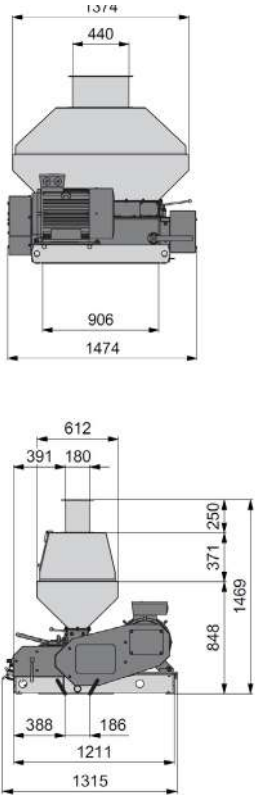
3-4 t/h

998 kg



M900

This machines with the roller length of 900 mm may be installed in industrial feed mills and also in agricultural primary production companies. The basic version is delivered together with a hopper and a hopper lid. Magnet, switchboard and dosing tourniquets may be ordered separately.



SPECIFICATIONS

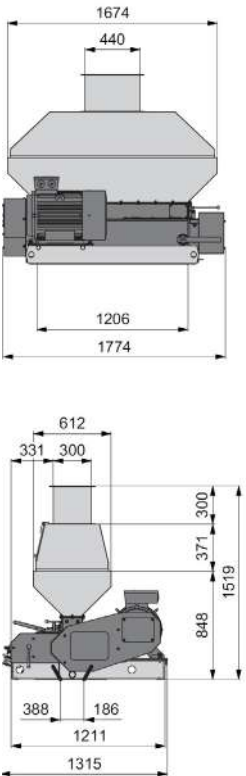
driven by an electric motor
3 × 400V, 50 Hz
capacity
weight

M900

18,5 kW
5-6 t/h
1375 kg

M1200

The most efficient ROmiLL roller crimper it designed especially for industrial large-scale feed mills. Stable parallelism is ensured even at the roller length of 1200 mm. The basic version is delivered together with a hopper and a hopper lid. Magnet, switchboard and dosing tourniquets may be ordered additionally.



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz
capacity
weight

M1200

22 kW
7-9 t/h
1705 kg



PELLET CRUSHERS

SERIES SG600/SG900/SG1200

The importance of pellet crushing derives from energy savings since a matrix with larger holes is used in the pellet press and the requested structure is reached by subsequent crushing.

Pellet crushers are mainly applied for poultry mixtures, especially for chicken. The structure coarseness (particle size for requested grain size) may be precisely and readily controlled by one central adjustment screw.

Minimum dust crump is formed when using ROmill crushers.

SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

weight

SG600

11 kW

7-9 t/h

926 kg

SG900

15 kW

12-20 t/h

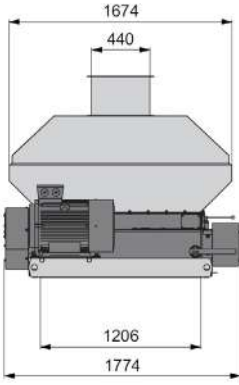
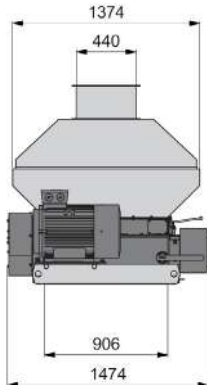
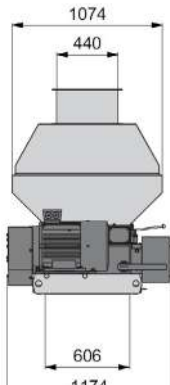
1140 kg

SG1200

18 kW

20-30 t/h

1709 kg



ROLLER RAPESEED GRINDERS

SERIES SR600/SR900/SR1200

The idea of rapeseed crushing and its subsequent application in feed mixtures arose at the time of overproduction and a favourable price of this agricultural commodity.

Rapid return on investment originates from elimination (or decrease) pimelosis, eventually replacement of grape-cakes in feed mixtures.

Machines are also used in pressing of oils for pre-grinding of rapeseed before pressing.



SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

weight

SR600

15 kW

5 t/h

956 kg

SR900

30 kW

9 t/h

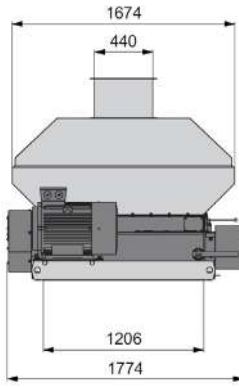
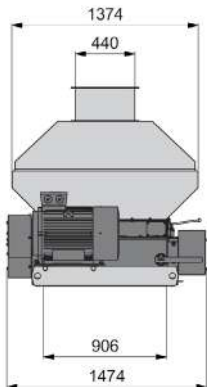
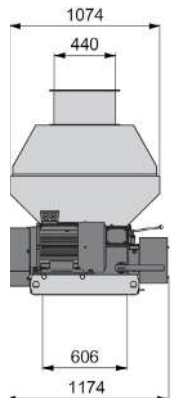
1332 kg

SR1200

37 kW

12 t/h

1679 kg



Advantages of rapeseed grinding by ROmill machines

- No machine sticking.
- Utter elimination of the whole grains of bedstraw seeds.
- Residues of non-rinded seed amounts to only 0,2 - 1,5%.
- Yield increase of oil pressing up to 5%.





ROLLER BREWING BARLEY CRIMPERS

SERIES MS100/MS300/MS600

With respect to the considerable development of microbreweries especially on Eastern markets but also to Europe special brewing barley crimpers ROmill have been designed as a reaction to this development. Basically, it is a standard grain crusher but containing rollers with special grooves. This combination results in a fully satisfying malt structure which is suitable for any technology.

The structure of the final product may be adjusted very precisely and thus the machine suits a large scale of requirements on malt grain size. Upon request, a roller rewing barley crimper with the capacity up to 10 t/h may be produced.

SPECIFICATIONS

driven by an electric motor
3 × 400V, 50 Hz

capacity

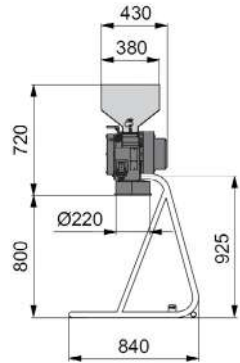
weight

MS100

2,2 kW

0,4 - 0,7 t/h

163 kg

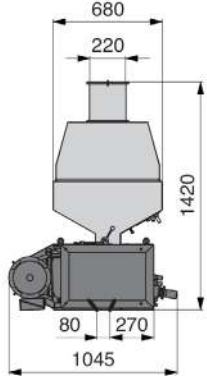


MS300

5,5 kW

1,2 - 1,8 t/h

478 kg

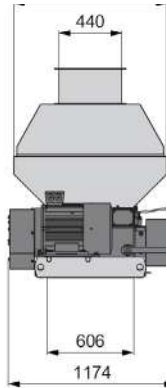


MS600

11 kW

3 - 4 t/h

998 kg



MIXERS OF LOOSE MATERIALS

Two-rotor horizontal MIXER H mixers have been developed to homogenize grinds made of all sorts of grains and other plant materials variously modified, together with small batches of specific feed additives – microcomponents. The equipment is used for fast and effective mixing of various elements of various kinds and forms of loose materials. It is used not only for biological materials but also for inorganic substances.

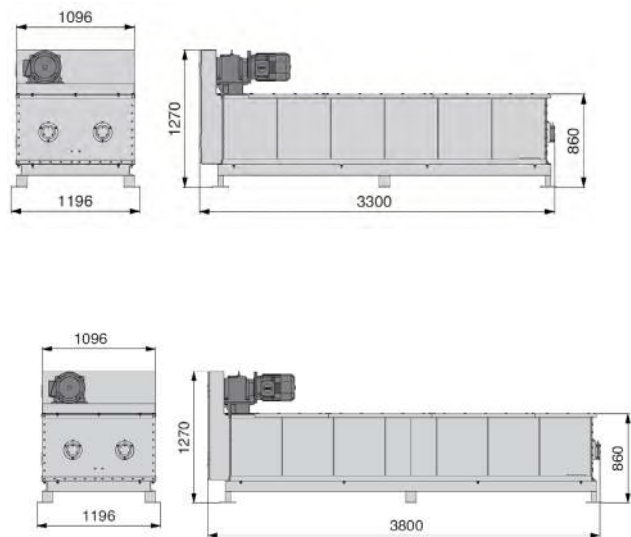


MIXER H/MIXER H-LONG



SPECIFICATIONS	MIXER H	MIXER H-LONG
driven by an electric motor 3 × 400 V, 50 Hz	7,5 kW	7,5 kW
mixing tank capacity	1,6 m³	1,9 m³
weight of mixed batch (depends on mixture sort)	cca 500 kg	cca 600 kg
Batch processing time	6–10 min	6–10 min
weight	1300 kg	1470 kg

- + Mixing equipment accuracy higher than 1: 10 000 (systematically validated).
- + Mixing by means of two oppositely working spirals placed on two rotors.
- + Machine start even if fully charged.
- + Weighing all components on one tensiometric scale.
- + Unification with ROmiLL roller machines.
- + Base of compact and variable feed mills.
- + Low construction height.
- + Possibility to be made in stainless steel.
- + Possibility to produce even smaller versions.



INDUSTRIAL FEED MILLS

The primary goal is to save money in comparison to purchased feed mixtures and especially 100% guarantee of the final product quality.

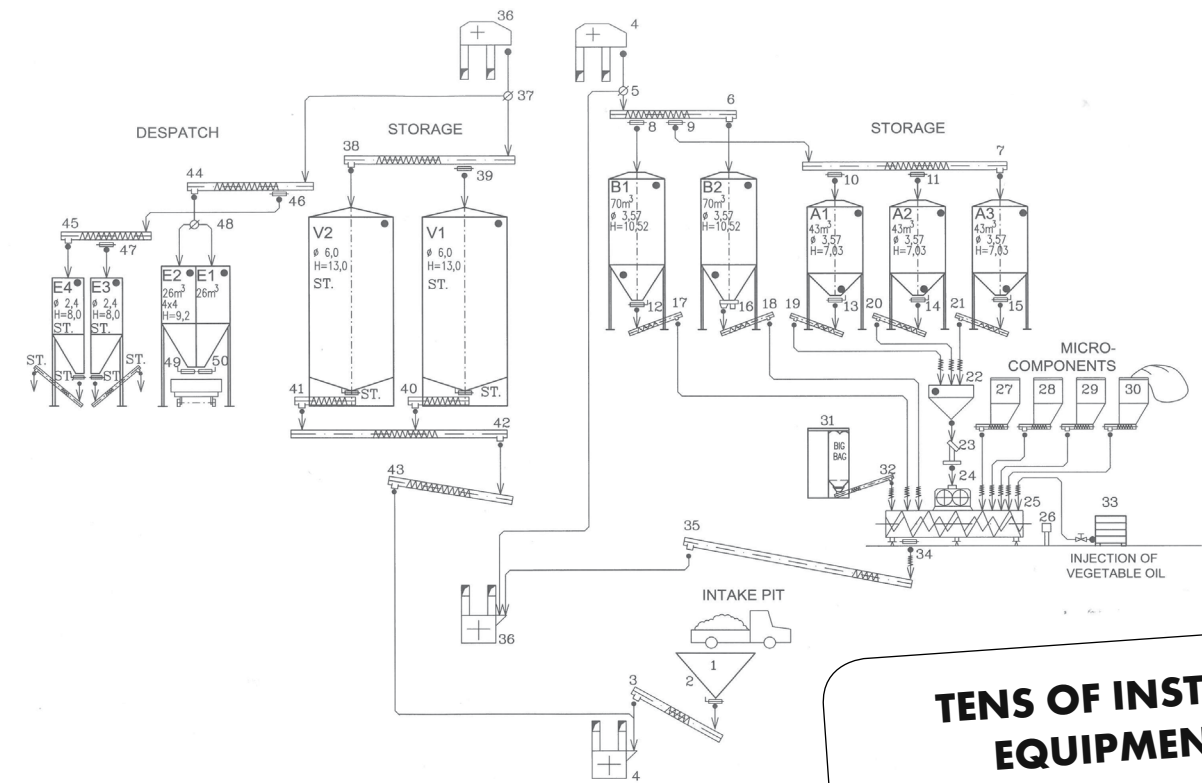
Industrial feed mills are designed as compact and variable sets.

The system is equipped with a fully automatic control and only one worker is able to operate the whole system, including distribution – he/she only selects the formula and fills in the components.

Industrial feed mills may run in up to 3 shifts and almost unattended.

The ROmiLL concept is perfect for small and medium-sized plants requiring processing of feed mixtures from 800 to 10 000 tons a year.

However, ROmiLL also delivers individual technologies for large-scale industrial companies.



**TENS OF INSTALLED
EQUIPMENT !!
EXPERIENCED PROJECT TEAM**



POST-HARVEST LINES GRAIN STORAGE

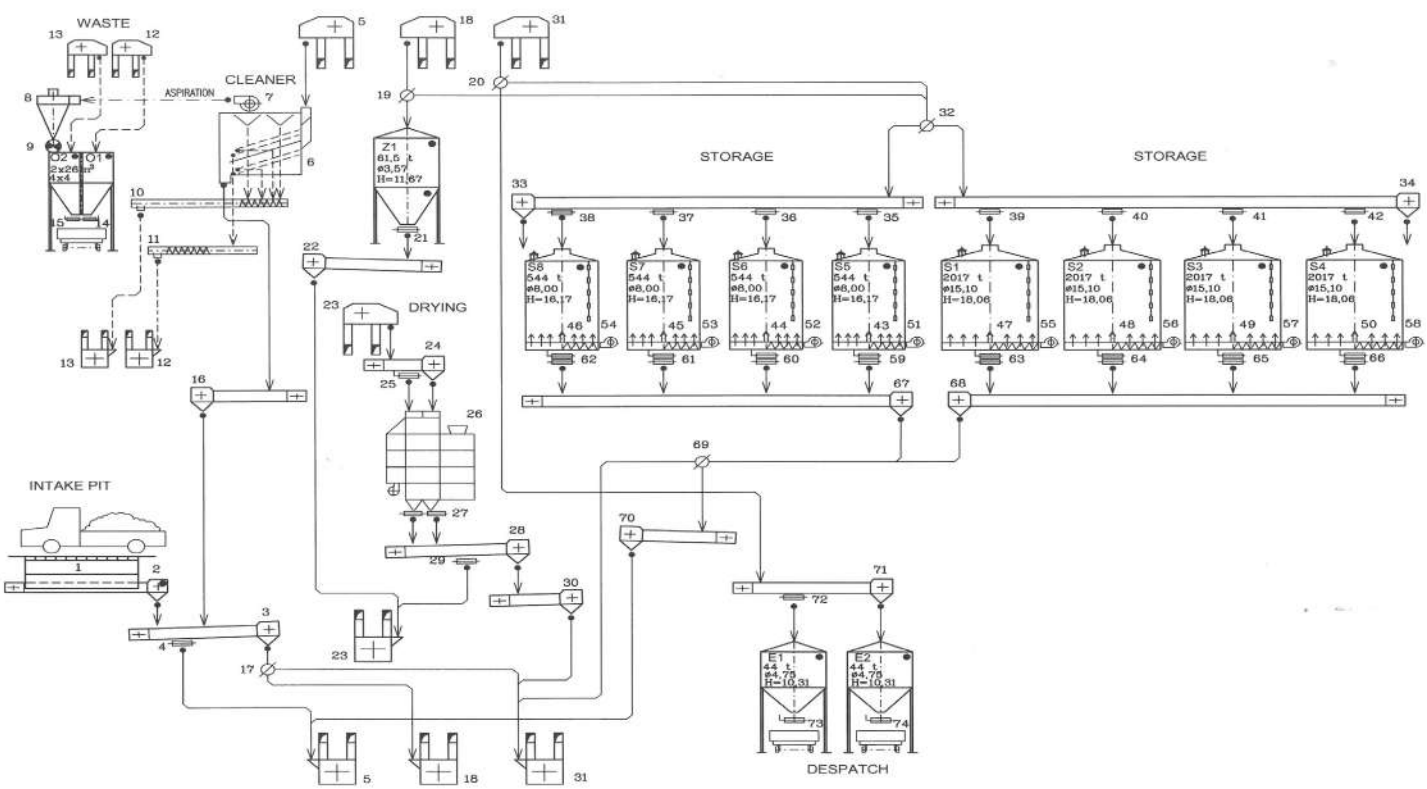
ROMILL projects:

- + Turnkey implementation of post-harvest lines, including projects and substructure construction.
- + Long-term experience of project engineers, individual and friendly approach.
- + Applied technologies and grain silos of the best possible quality.

The purpose of these constructions is usually extension and quality improvement of storage capacities with the possibility to market your own product at the most suitable time with the best possible price.

The projects are designed from material receipt through cleaning, drying, storing, including aeration to final dispatch.

For these lines, it is particularly true that quality levels may differ a lot not only in the area of applied conveyors or grain silos but especially in the idea of the designer and final construction execution. Combination of these two aspects determines the service life, logistics, efficiency and value for money.



Rotary drum cleaners

The rotary drum cleaner is a combination of an efficient rotary drum and an effective aspiration system. Therefore, it is perfectly suitable for rubble separation pre-cleaning, cleaning, commercial cleaning, seed cleaning and grading of all cereals and grains.

Thanks to years of proven technical design, these cleaners are able to work with very high quality. Rotary drum cleaners ensure separation of quality grain from coarse impurities, broken grain or small fragments, and removal of light impurities into the suction compartment. They are made of two parts - Aspirator (NA) and Rotary Drum (CR) that may also be delivered separately.



TYPE	NUMBER OF SIEVES	DIMENSIONS (m)	ASPIRATION CL. (t/h)*	PRE-CLEANING (t/h)*	CLEANING (t/h)*	GRADING (t/h)*
SNS 103	3	2,5 × 1,0 × 1,5	-	6	5	1,5
SNS 104	4	3,0 × 1,0 × 1,5	-	8	7	3
NR 203	3	3,4 × 1,2 × 2,0	40	30	15	4
NR 204	4	4,1 × 1,2 × 2,0	40	35	25	6
NR 205	5	4,8 × 1,2 × 2,0	40	35	30	8
NR 303	3	4,9 × 1,4 × 2,5	90	70	50	8
NR 304	4	6,0 × 1,4 × 2,5	90	90	70	12
NR 403	3	5,5 × 2,0 × 3,4	250	200	110	14
NR 404	4	6,6 × 2,0 × 3,4	250	250	200	20
NR 405	5	7,8 × 2,0 × 3,4	250	250	200	25
NR 503	3	6,4 × 2,7 × 4,6	400	300	250	25
NR 504	4	7,5 × 2,7 × 4,6	400	400	300	35
NR 505	5	8,7 × 2,7 × 4,6	400	400	400	45

* For wheat, 750 kg/m³, humidity 16%

Cleaner separator

Cleaner separators result from a long-term development of the company Denis and its extensive experience in this branch. Robust compact and reliable equipment in connection with efficiency, simple operation and innovations substantially increases its performance and multi-purpose application. The ergonomic design simplifies its adjustment and access.

- Main advantages:
- » high flexibility
 - » standard double aspiration
 - » screen cleaning system using rubber balls



TYPE	NUMBER OF SIEVES	DIMENSIONS (m)	PRE-CLEANING (t/h)*	CLEANING (t/h)*
NSD 1	4	2,4 × 1,5 × 2,4	30	25
NSD 2	8	2,4 × 1,6 × 3,1	65	50
NSD 3	12	3,8 × 1,9 × 4,2	110	100

* For wheat, 750 kg/m³, humidity 16%

SINCE 2005, THE COMPANY ROMILL REPRESENTS THE FRENCH COMPANY DENIS IN THE CZECH REPUBLIC AND IN THE SLOVAK REPUBLIC. THE COMPANY DENIS IS ONE OF THE MAJOR MANUFACTURERS OF CONVEYORS, CLEANERS AND EQUIPMENT FOR AGRICULTURE AND OTHER INDUSTRY BRANCHES.

CONVEYING WAYS



All Denis equipment complies with European standards related to safety and design strength, and may be delivered with Atex certification, if requested.

Chain conveyor (redler)

It is used for gentle material transport, mainly in horizontal direction.

This conveyor is manufactured in various versions: horizontal, inclined or elbow.

According to designer’s requests and the type of application, the conveyors may be unidirectional, bidirectional, reverse, dispatching or discharging.

Due to their special design, they are very durable with long service life.



TYPE	L 200	L 250	L 310	L 360	L 420	L 500
capacity t/h	30	50	100	150	200	300

Belt and bucket conveyor (elevator)

It is used for vertical material transport. Besides the standard series suitable for common cereals, oil plants or feed, we offer also special conveyors.

These are determined for transport of unusual materials having different specific gravity or particle size.



TYPE	10 N		14 N		20 N		24 N		30 N		37 N
capacity t/h	20	30	30	50	50	100	100	150	150	200	300
buckets pcs/m	8,0	12,5	8,0	11,0	6,0	9,0	7,0	9,0	3,8	4,8	5,6

Troughed screw conveyor

These conveyors enable horizontal transport of products with the inclination up to 10°. They are especially suitable for discharging of hoppers, for transport of fragile or fine goods with slow speed for long distances.



TYPE	VA 130	VA 210	VA 240	VA 300	VA 350	VA 400
capacity t/h	10	20	30	40	50	60

Tubular screw conveyor

Screw conveyors having such design enable effective horizontal transport or transport with higher inclinations. If requested, it is possible to manufacture a conveyor having inverse (left) flights, reinforced flights or welded flights throughout its entire length.

Screw conveyor may be manufactured without centre bearings with differently designed inlet and outlet hoppers or alternative engine positions.



TYPE	VH 160				VH 200			VH 240			VH 300		VH 400	
operational posit.	horizontal		45°		horizontal		45°	horizontal		45°	horizontal	45°	horizontal	45°
capacity (t/h)	15	20	30	20	30	40	35	40	60	50	100		200	
rotations (rpm)	265	414	520	520	230	435	435	230	414	414	180	325	230	325

Sweep augers



DNS type drive located in the silo (engine and flexible clutch) – easier assembly.

RESIDUAL OUTPUT				
capacity (t/h)	30	50	80	100
silo diameter (m)	Ø ≤ 21,4	Ø ≤ 21,4	Ø ≤ 25	Ø ≤ 21,4
input power (kW)	2,2-5,5	3-7,5	4-11	5,5-11

BM type – the drive with engine and flexible clutch is accessible from the corridor under the silo even if the silo is full.

RESIDUAL OUTPUT			
capacity (t/h)	50	80	100
silo diameter (m)	Ø ≤ 22	Ø ≤ 26	Ø ≤ 26
input power (kW)	5,5-7,5	5,5-11	5,5-15



SILOS AND HOPPERS



SINCE 2005, THE COMPANY ROMILL REPRESENTS THE FRENCH COMPANY PRIVÉ IN THE CZECH REPUBLIC AND IN THE SLOVAK REPUBLIC.

OUR COMPANY HAS DELIVERED TENS OF HOPPERS AND SILOS OF THIS RENOWNED EUROPEAN MANUFACTURER.

PRIVÉ silos

Silos are made of steel rings with diameter from 2,68 m to 31,98 m. This steel is of very high tensile strength (C350) with galvanize coat Z600 (600 g/m²). Silo corrugation represents 104 x12 mm. Bolts are hot dip galvanized. The roof angle inclination of 28°. Including central roof vent, top manhole with 337 mm diameter and manhole with security door. Galvanized roof frame. Cover panels made of Aluzinc (AZ185).

The silos are equipped with two surface-treated access doors giving excellent resistance to adverse weather (2nd level with access ladder and another in next level, if requested). A ladder from the bottom to the top is a part of the silo. The advantage of Privé silos is a sufficiently strong roof that is able to hold a respective number (according to silo diameter) of suspension ropes with temperature monitoring sensors.



PRIVÉ hoppers



Hoppers for short-term storage

These hoppers are produced in five different diameters: 2,68 m; 3,57 m; 4,75 m; 5,34 m or 6,23 m.

Vertically, it is possible to be assemble two to ten individual rings and thus create storing capacity from 17 m³ up to 394 m³.

For materials having good pouring angle, the hoppers are manufactured with cone having 45° and for other materials with cone having 60°.



Truck loading hopper

This type is produced in two versions having the volume of 40 m³ or 59 m³.

Its headroom is 4,40 m and passability amounts to 4,14 m.

Robust design with quality galvanization.

Their price is very favourable thanks to its fairly high series production.



Specific parameters are available upon request.

LODA plastic hoppers



THE ITALIAN COMPANY LODA HAS BEEN MANUFACTURING FIBREGLASS SILOS FOR MORE THAN 20 YEARS. ITS HOPPERS SERVE FARMERS IN THE WHOLE EUROPE.

THE COMPANY ROMILL DISTRIBUTES THESE PRODUCTS IN THE CZECH REPUBLIC AND IN THE SLOVAK REPUBLIC.

These silos are especially suitable for filling with cereals or feed material with pneumatic transport.

Transparent cone (optional) enables visual inspection of material level in the silo.

The silo body is not disrupted at all since the bolts are located in the outer frame, i.e. they are not in contact with the product stored in the silo which results in silo airtightness. The outer frame prevents ingress of water in case of rains.

May be furnished with different accessories upon customer's request (especially suitably modified outlet, leg extensions, individual loading tubes, inspection doors, vibrator installation, silo colour or labelling).

The inner surface of silos is absolutely smooth which helps to easily discharge products.

Silos are produced in capacities of 4 m³ to 52 m³, having diameter of 1,7 m up to 3,0 m.





FARMBAGGER

STANDARD/PROFI

- Flexible technology for storing of wet but mainly dry grain in bags.
- Other products, e.g. fertilizers, waste for biogas installations etc., may be stored in bags too.
- Low investment costs.
- Short amortisation period in comparison to conventional cereal storage.
- High performance (up to 300 tons of dry grain per hour).
- PROFI type has a hydraulically foldable tunnel which is advantageous in case of frequent machine relocation.

SPECIFICATIONS

length
height
width
operational width
weight
bag diameter
hopper volume
drive
capacity

STANDARD

4 700 mm
3 200 mm
2 950 mm
3 050 mm
1 450 kg
2,7 m
1,5 m³
tractor 75 - 120 hp
250 - 300 t/h

PROFI

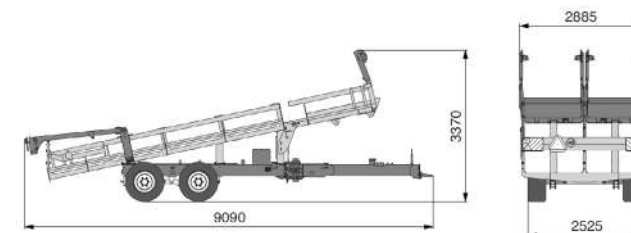
6 330 mm
3 700 mm
2 450 mm
3 050 mm
2 550 kg
2,7 m
5,5 m³
tractor 75 - 120 hp
250 - 300 t/h



ROTOS

SELF-LOADING TRANSPORTER OF ROUND BALES

Efficiency of harvesting the culm crops by pressing into round bales is directly proportional to managing the manipulation with these bales, especially their transport from the field. ROMILL ROTOS offers the most effective solution of loading and transport of the pressed straw. It may be used for heavy haylage bales too.



SPECIFICATIONS

transport capacity

maximum speed

unladen weight

total weight

drive

tyres

ROTOS

8 bales ø 1800 mm

10 bales ø 1500 mm

12 bales ø 1200 mm

40 km/h

4 400 kg

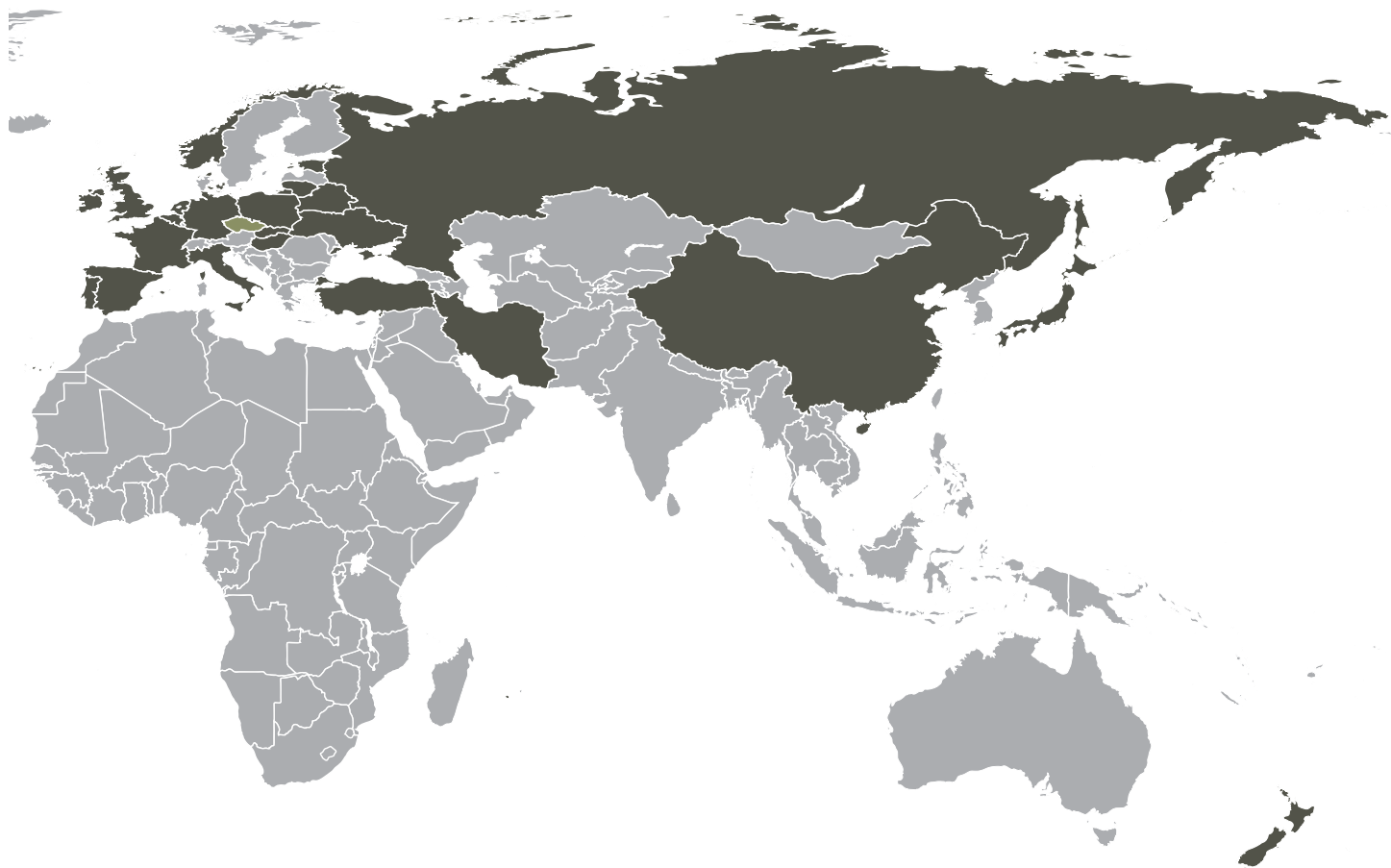
13 000 kg

tractor min. 100 hp

400/60 - 15,5 18PR

- Collection facing the direction of tractor travel without necessity to stop or slow down.
- The machine can be used both for direct transport of bales to the farm and for delivery of bales to the side of a field.
- In comparison to other systems, the work proceeds facing the direction of travel which results in conserving the trailer chassis.
- Control of all machine functions from the tractor cab by means of an electrohydraulic system – joystick.
- Average loading time of 10 bales is 3 minutes.

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