

# POTATO MACHINERY

– planting to harvesting –





## Mounted Planters

2-row and 4-row models available. In a normal working day the 2-row planter can easily plant 10 acres (4 hectares) which can be doubled with a 4-row machine. Both the 2-row and 4-row planter can be equipped with fertilizer attachments and insecticide applicator.

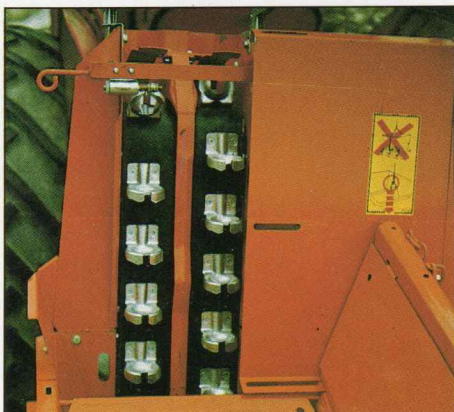
## The Planting Unit – the «heart» of a good automatic planter.

The same planting unit is used on all Faun automatic planters, designed to meet the following demands of potato growers:

1. Good planting speed.
2. Good planting accuracy.
3. Gentle treatment of seed.
4. Will handle chitted seed.

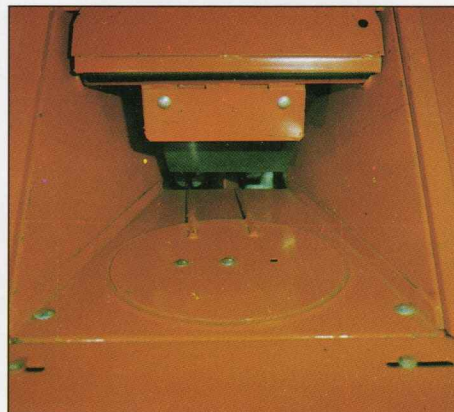
5. All shapes of potatoes can be planted.
6. Simple and quick adjustment of the spacings.
7. Planting indicator in the tractor cab.

The Faun planting unit has a proven record for performance and reliability.



## Planting speed

Double cup belts enable the forward speed to be kept at 6-8 Km/h (3,7-5 mph) without loss of planting efficiency. In practice the forward speed has to be varied according to the spacing used – close spacings require lower forward speed than the wider spacings.



## Reliability

A patented disc, agitating slowly in the hopper bottom, and an adjustable choke plate will ensure a regular flow of potatoes into the planting units. On the cup belt, an agitator with 3 positions will reduce the number of doubles to a minimum.



## Different cup sizes

Standard cups will suit potatoes graded over 35-50 mm sieve. Inserts are supplied for these cups and they will suit 25-40 mm grading. For large seed, 40-60 mm grading, special large cup belts are supplied. Inserts for these cups will reduce them to standard sizes.



## Mounted 2-Row Planter for De-Stoned Land

The Faun 1472 model incorporates the same accurate planting units as the popular standard planter. It is fitted with larger diameter wheels with 4.50 x 16 lugged tyres and lowered furrow openers to raise the machine for greater ground clearance. In addition, a completely new ridging system is fitted to handle the increased volume of soil when planting in de-stoned land, particularly when used for 36" row widths.

The three ridging bodies are fully adjustable and designed to give optimum ridge size and profile at high forward speed. Hardened steel wearing parts ensure long life and overload protection is also provided. All the many well-proven features of the Faun planter are included in this new model for de-stoned seedbeds.



### Technical Specifications:

(Row width 75cm)	1386 - 1393	1472	1475 - 1479	1482 - 1486
Number of rows	4	2	2	4
Width without markers	335 cm	220 cm	180/196 cm	315/348 cm
Length without fertilizer attachment	330 cm	176 cm	143/153 cm	143/153 cm
Length with fertilizer attachment	370 cm	216 cm	183/193 cm	183/193 cm
Weight (empty) without fert. att.	950 kgs	360 kgs	320/360 kgs	610/690 kgs
Weight (empty) with fert. att.	1.150 kgs	455 kgs	415/455 kgs	790/870 kgs
Hopper capacity (potatoes)	1.800 kgs	500 kgs	500 kgs	1.000 kgs
Hopper capacity (fertilizer)	520 litres	260 litres	260 litres	520 litres
Min. filling height (potatoes)	67 cm	126 cm	120 cm	120 cm
Filling height (fertilizer)	115 cm	121 cm	115 cm	115 cm
Row widths	65 - 90 cm	65 - 92 cm	65 - 95 cm	65 - 92 cm
Spacings small cups (107 mm dist.)		12-14-17-20-23-26-29-32-35-38-43 cm		
Spacings large cups (107 mm dist.)		12-14-17-20-23-26-29-32-35-38-43 cm		
Spacing large cups (157 mm dist.)		17-21-25-29-33-37-42-46-51-56-62 cm		
Covering up		Ridging bodies/disc. coverers		
Wheel dimension	7,50 - 20	750 - 16	135 - 15	165 - 15
Working speed	4-8 km/h	4-8 km/h	4-8 km/h	4-8 km/h



## 4-Row Trailed Model – the planter for the large potato acreages.

This is a large edition of the automatic planter with hydraulic hopper, designed for potato growers with large acreage.

This machine can be fitted with fertilizer attachment as well as an insecticide applicator.

Practical work has proved that it is possible to plant over 25 acres per 8 hours day with this machine.

## A better choice

- 2-row or 4-row
- Discs or ridging bodies
- With or without fertilizer attachment
- Mounted or trailed

- For small or large acreages
- For de-stoned and non de-stoned land
- For small or large seed
- For small or big tractors

### Specifications:

#### (complete planters)

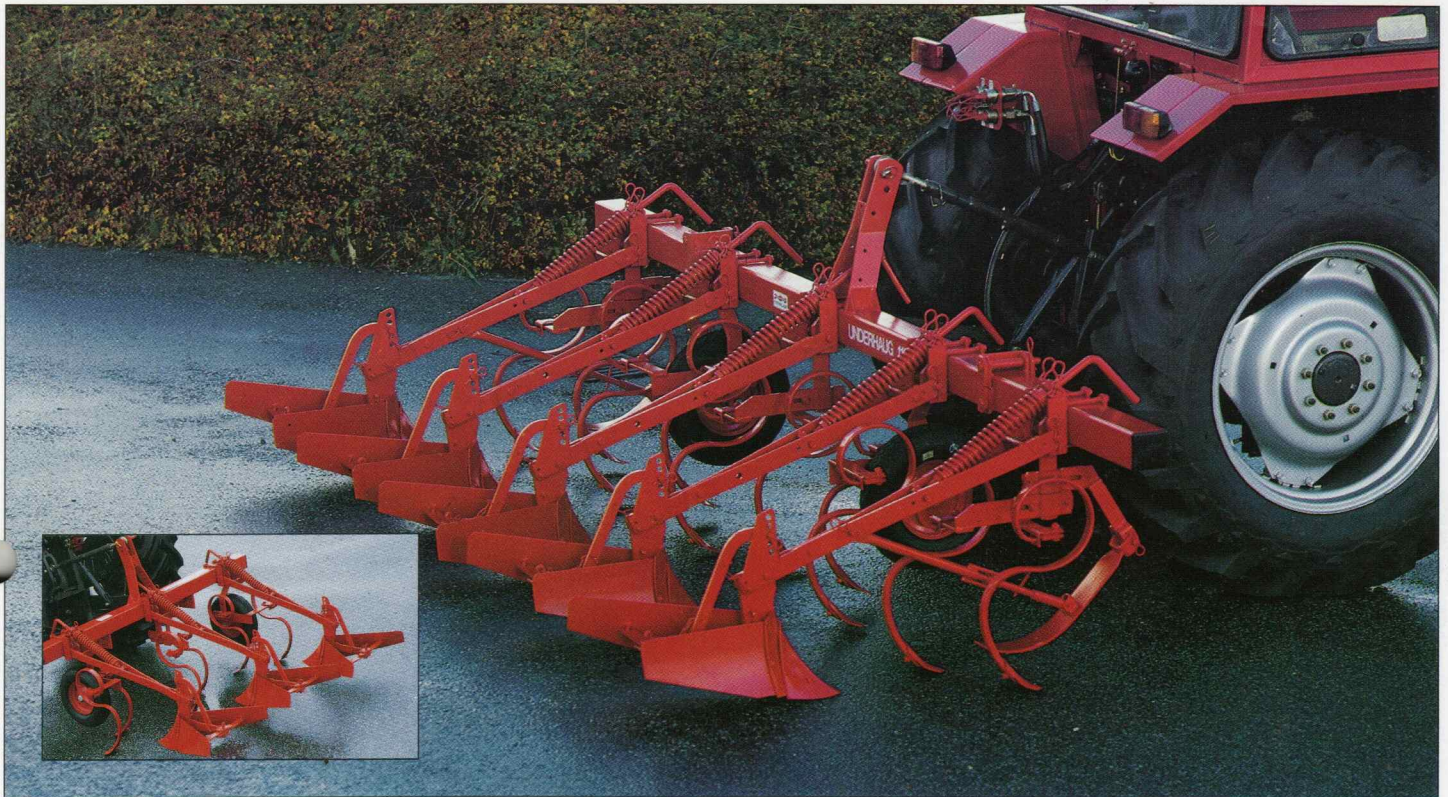
- 1472** 2-row automatic planter with ridging bodies.
- 1475** 2-row automatic planter with disc covers.
- 1476** As above, but also equipped with fertilizer attachment.
- 1478** 2-row automatic planter with ridging bodies.
- 1479** As above, but also equipped with fertilizer attachment.
- 1482** 4-row automatic planter with disc covers.
- 1483** As above, but also equipped with fertilizer attachment.
- 1486** 4-row automatic planter with ridging bodies.
- 1487** As above, but also equipped with fertilizer attachment.
- 1386** 4-row automatic potato planter, trailed.

- 1388** As above, but also with fertilizer attachment.
- 1391** 4-row automatic potato planter, trailed.
- 1393** As above, but with fertilizer attachment.

#### Optional equipment:

- 1425** Hopper extension for 2-row machine.
- 1432** 2-row operator platform and chitting tray platform.
- 1433** 4-row operator platform and chitting tray platform.
- 1443** 2-row granule applicator (4-row = 2 pcs 1443 + 1 pc 1444).
- 1444** Drive shaft extension for 4-row granule applicator.
- 1440** 2-row fertilizer attachment.
- 1441** Equipment for making a 1440 into a 4-row machine.

- 1438** 2-row fertilizer hopper extension.
- 1439** 4-row fertilizer hopper extension.
- 1380** 4-row fertilizer attachment for trailed planters 1386/1391.
- 1382** Granule applicator for trailed planter.
- 1368** 3-point draw-bar for trailed planter.
- 222803** Cup belts (2), small cups, short cup distance (67-107mm).
- 222804** Cup belts (2), large cups, long cup distance (74-157 mm).
- 222805** Cup belts (2), large cups, short cup distance (74-107 mm).
- 222807** Inserts for large cups (for 222805) 2-row.
- 222808** Inserts for large cups (for 222804) 2-row.
- 22824** Inserts for small cups (for 222803) 2-row.
- 224020** Fertilizer roller discs - 2-row.



## Do you find your Old Ridger Outdated and Inefficient?

In that case we can offer a new ridger that suits today's demands – of strength, efficiency and flexibility.

This ridger is supplied as 2- and 4-row versions, it has fixed 4.00x8" pneumatic support wheels. Depth control is carried out individually on each ridging shovel. The row width is adjustable up to 92 cm (36 in.). The outer sections on the 4-row ridger may be raised for transport.

### The Ridging Body

This is made of hardened steel for maximum strength and wear resistance. The share point has 6 different attachment positions and is reversible.

The long, slim body gives good soil flow and it is easy to build up high ridges, even at row widths of 92 cm (36").

The body is fitted with an auto reset stone release mechanism. In addition, a shear pin will give extra safety if the point hooks under a stone.

### The Body Leg

Incorporates the auto reset mechanism, which quickly resets the ridging body after hitting an obstruction. The ground pressure adjustment ensures a good finish in hard as well as soft soils.

### Depth adjustment

Is carried out by the adjustment handle. No tools are required.

### Specifications:

(at 75 cm/30in row width)

Model	1102	1103	1106
No of rows	2	2	4
Size of ridging body	60 cm	55 cm	60 cm
Row widths	65-92 cm/26-36 in		
Transport width	200 cm	200 cm	210 cm
Weight	180 kg	160 kg	265 kg

### Models:

- 1102** 2-row ridger with 6 cultivator tines.
- 1103** 2-row ridger
- 1106** 4-row ridger with 10 cultivator tines
- 1130** Ridger weeder, 2-row kit (4-row = 2 pcs).





## Potato Digging The Low Damage Way

**The Faun name is a concept among potato growers in many countries. Thousands of Faun and Superfaun harvesters have been supplied to growers who appreciate the many important features these machines have to offer.**

The Superfaun is offset to lift the ridge outside the tractor. This will eliminate wheel damage to the crop. The lifting

unit incorporates a lifting share, a digging wheel and a powered guide disc. The potato is delivered direct onto the inside of the first elevator belt that runs behind and below the share. Other features include 3-point hitch, low weight, exceptional manoevrability, a gentle and smooth flow of potatoes through the machine and good haulm removal, all part

of a concept that has made the Superfaun a low damage machine that will work in a wide variety of conditions.

All models have a set of powered haulm removal rollers at the bottom of the intermediate belt.

### 1700 – Standard Model

On this model the sorting is all done by hand. The operators can choose to pick clods and stones, -or potatoes, by moving the bulk loading elevator or the side conveyor chutes.

At the bottom of the picking table a further set of powered haulm rollers will extract most of the haulm that is not caught by the haulm rollers at the bottom of the intermediate belt.

#### Output

Output will depend upon the harvesting conditions. Many Superfaun users average 140 half-ton boxes in a good working day, under good conditions. Some users accept 15-20 tons/day as a good output under wet and heavy conditions. An output of 30-40 tons/day should be a good average under normal conditions.



## 1800 Model with Stone and Clod Separation

A special version of the Superfaun fitted with a stone and clod separator is available.

A hedgehog-belt with an oscillating deflector is built in between the intermediate conveyor and the picking table. The angle of the hedgehog-belt can be altered with a handle operated by the right side picker.

The effect of the separator depends upon conditions. Experience has

shown that where stones or clods are a particular problem at least one picker can be saved compared with the standard Superfaun.

To obtain the best results with this machine it is recommended to operate it with a haulm cutter (1860).

The basic machine (1841) of this version is different from the basic machine of the standard Superfaun (1741), but all the available options

and accessories are the same. This means that the clod separator model can be used in conjunction with the bulk loading and other systems of discharging the potatoes.

(NB! The 1700 Standard Model **can not** be transformed into a 1800 Model with stone and clod separator.)



### Hedgehog Belt

Shown here is the hedgehog belt with deflector. The intermediate conveyor is shortened, raised and the belt is equipped with flights to prevent roll back.

The oscillating deflector will guide the potatoes down on the front part of picking belt. Stones, clods and trash will pass under the deflector and end up behind the partitioning on this belt.

Some potatoes will follow the trash and must be picked back.



Offset lifting unit



Haulm removal rollers



Haulm pulverizer

## Belts

### Standard:

First elevator: 30 mm spacing

Intermediate elevator: 25 mm

Picking table: 25 mm

### Alternative belts:

First elevator: 21 or 25 mm spacing

Intermediate elevator: 20 or 25 mm

Picking table: 20 mm

## Stone hopper

A hopper for collecting all the stones from the picking table can be fitted to the back of the harvester.

It has a capacity of 180 litres and is emptied by releasing a trap door in the bottom. It is rubber covered inside to reduce noise.

## Grading spoils

A grading spool unit can be attached to the end of the picking table and can be adjusted to grade potatoes up to 50 mm.

## Canopy

A canopy can be supplied to protect pickers against wind and rain.

Technical Specifications:	HARVESTER EQUIPPED WITH:				
	Front fork	Tank, manual	Tank, hydraulic	Bagging platform	Bulk loading conveyor
Weight	1180 kg	1270 kg	1400 kg	1230 kg	1090 kg
Width (working pos.)	4,0 m	4,0 m	4,0 m	4,0 m	6,0 m
Width (transport pos.)	2,3 m	2,3 m	2,3 m	2,3 m	2,3 m
Req. tractor output	50 hp*	50 hp*	50 hp*	50 hp	50 hp*
Req. tractor lifting capacity	1500 kg	1500 kg	1500 kg	1500 kg	1590 kg
Sieving area:					
Elevator belt	1,3 sq.m.	1,3 sq.m.	1,3 sq.m.	1,3 sq.m.	1,3 sq.m.
Intermediate belt	1,0 sq.m.	1,0 sq.m.	1,0 sq.m.	1,0 sq.m.	1,0 sq.m.
Capacity (normal conditions)	0,1-0,2 ha/h	0,1-0,2 ha/h	0,1-0,2 ha/h	0,1-0,2 ha/h	0,1-0,2 ha/h
Loading capacity	1500 kg	1000 kg	1100 kg	750 kg	-

\*4 wheel drive, min. 65 HP is recommended when utilizing full loading capacity.

## Complete Harvesters

### Standard machines:

#### Ordering no.:

- 1701 Bulk loading model
- 1720 Bagger model with universal platform
- 1721 Bagger model with hydraulic platform
- 1723 Pallet model with double pallet fork
- 1724 Tank model, manual operated tank
- 1725 Tank model, tank with moving floor
- 1750 Bulk and bagger model

### Machines with stone - and clod separation:

#### Ordering no.:

- 1801 Bulk loading model
- 1820 Bagger model with universal platform
- 1821 Bagger model with hydraulic platform
- 1823 Pallet model with double pallet fork
- 1824 Tank model, manual operated tank
- 1825 Tank model, tank with moving floor
- 1850 Bulk and bagger model

## Basic units and equipment

- 1741 Basic machine, standard
- 1841 Basic machine, with stone and clod separator
- 1751 Bulk loading conveyor
- 1755 Side conveyor
- 1756 Side conveyor holder
- 1757 Side conveyor holder with el. ram
- 1758 Potato chute

- 1760 Haulm pulverizer (for 1700 models)
- 1763 Stone hopper
- 1764 Grading spoils
- 1772 Manual operated tank
- 1774 Tank with hydraulic discharge
- 1767 Double pallet fork
- 1783 Bagging platform, hydraulic

- 1786 Universal bagging platform
- 1522 Bag holder
- 1789 Brackets for double pallet fork
- 1795 Brackets for tank
- 1860 Haulm pulverizer (for 1800 models)
- 1880 Canopy (for 1700 and 1800 models)



## Elevator digger

### Simple and robust construction.

The Faun elevator digger is of robust construction and can be used under nearly all harvesting conditions.

It is 3-point mounted and P.T.O. driven.

The elevator chain is hooked steel type that can be delivered with plain or rubber covered rods.

At the rear of the digger, behind the elevator chain, a reciprocating grate delivers the potatoes to the side of the machine placing them far enough from the next ridge to prevent the tractor wheels rolling over them when the next ridge is lifted. With this machine it is possible to lift as much of the field as one wishes – independent of the pickers.

### Technical Specifications

<b>Type:</b>	One-row, 3-point mounted elevator digger.
<b>Lifting parts:</b>	Share, elevator chain and side grate.
<b>Capacity:</b>	0,25-1,0 acre/hour
<b>Row width:</b>	Max. 30" (75 cm)
<b>Chain width:</b>	20" (50 cm)
<b>Working length of chain:</b>	180 cm.
<b>Weight:</b>	335 kgs.
<b>Depth wheels:</b>	4,00-4" pneumatic (extra optional)

### ORDERING NO:

554-One-row elevator digger

555-One-row elevator digger, with rubber covered chain.

### Optional for above diggers:

174-1 pair of depth wheels, pneumatic 4,00x4".



*Good design is more and more a necessity in the development of a new product. Professional industrial designers have in co-operation with the Kverneland Faun research team developed the model 2100 single row potato harvester.*

- **A modern, thoroughly accomplished design.**
- **A unique lifting and sieving system.**
- **Effective haulm removal.**
- **Effective clod and stone separation.**
- **A picking table with all round vision.**
- **Hydraulic steering on main wheels and drawbar.**
- **Large diameter wheels for low rolling resistance.**
- **Large picking area with easy access to controls.**
- **Electric control of all hydraulic operations.**
- **Easy to manoeuvre on headlands or during transport.**

The 3-piece lifting share and first elevator are off-set. A diablo roller controls the working depth of the digging share, while large adjustable side discs (69 cm dia) and pull-in rollers assist with the cutting and removal of haulm to avoid blocking.

Above the 65 cm wide digging belt, the Faun 2100 has a unique rubber flight conveyor which provides cells for the potatoes, thus preventing fall back. To assist cleaning, instant speed adjustment of flight conveyor can be made via a special 5 speed gearbox or, if conditions change and clods are a problem, the lower digging belt has variable agitation provided by 6 hydraulically controlled rollers. Both the flight conveyor speed and degree of agitation to the digging belt are controlled from the picking table.

The large robust hopper with a capacity of 2100 Kg is emptied via a moving floor. Operated electrohydraulically from the tractor cab, potatoes can be filled into pallet boxes using a special spout or direct into a stationary or moving trailer. Two powerful hydraulic cylinders lift the hopper from 110 cm to 300 cm.

#### Technical Specifications:

### Faun 2100

Machine length:	640 cm
Machine height:	270 cm
Machine width:	260 cm
Weight:	2800 kgs
Hopper capacity:	2100 kgs
Wheel dimension:	12,4x24"
Track width:	195-235 cm (in 10 cm steps)
Discharge height:	110-300 cm
Belt spacing:	25 mm (standard)



Kverneland Faun 2220 two row potato harvester in operation. Illustrated with an inspection/sorting table for up to 4 operators.

- A thoroughly accomplished and modern design.
- Robust construction ensuring maximum strength.
- Large hydraulically steered wheels.
- Hydraulic operation of loading conveyor.
- Fold-in system for easy transport.
- Efficient removal of haulm and clods.
- Hydraulic levelling for lifting on sloping areas.
- Adjustable, gentle clod crushers.
- Controllable agitation on first digging belt.
- Electric control of all hydraulic operations.
- Easy to manoeuvre on headlands or during transport.



The Kverneland-Faun 2210. Designed for use only where conditions allow unmanned operation.

#### Technical Specifications:

### Faun 2200

Machine length (2210):	710 cms - including drawbar (110 cms)
Machine length (2220):	850 cms - including drawbar (110 cms)

Machine height:	307 cms - top of elevator in transport position
Machine width:	282 cms
Weight:	3200 kgs
Wheel dimensions:	500x15.5 or 400x22.5
Track width:	210 cms
Loading height:	300 cms
Web width:	150 cms



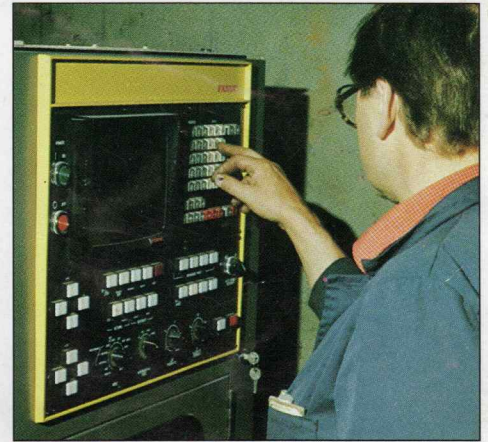
# MODERN MANUFACTURE

Underhaug AS part of the Kverneland Group, is one of Norway's largest manufacturers of farm machinery.

The modern factory covers approximately 16000 m<sup>2</sup>. Considerable investments in modern plant and technology is an ongoing process and includes the installation of CNC-controlled lathes, power centre, presses and robots. Further investments are already planned.

Production planning, buying, stock control and other functions are computerised.

Underhaug's manufacturing efficiency ensures farm machinery that is reliable, competitive and of a quality that many satisfied users have come to appreciate.



Manufacturer:



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