

Video

MACHINE DESCRIPTION

The SEMKAPPA65 seeder, together with the SEMSF13, is the number one solution for nurseries seeking to automate their seeding process. It is a compact machine which, thanks to the automatic row seeding mechanism, allows great flexibility of use and an absolutely revolutionary production process compared to manual seeding.

Suitable for all types of trays (polystyrene, thermoformed and rigid injection molded plastic), it is capable of seeding up to 2400 rows/hour which, in the case of 200-cells trays, translates into a production of 120 containers/hour.

The seeding mechanism of the SEMKAPPA65 seeder is operated by a bar with nozzles that suctions the seed and deposits it in a precise and uniform way in the cells, row by row. In the same process, a hole is also made in which the seed is accurately placed in the centre of the cell and at the correct depth.

The main feature is the flexibility of use: it is, in fact, possible to quickly change over the seeding nozzles and quickly adapt the machine to the type of seed in use, from the smallest to the largest and at no additional cost.

The SEMKAPPA65 is an electromechanical machine, with automatic and synchronised movement of the containers and a belt feeding system, which allows it to be used both as a stand-alone machine and also integrated in a line.

TECHNICAL DATA	M.U.	SEMKAPPA65	SEMKAPPA65 E
HOURLY PRODUCTION (max)	rows/hour	2400	2400
TRAYS DIMENSIONS (max)	mm	750x400	750x500
TRAYS HEIGHT (max)	mm	150	150
INSTALLED POWER	kW	1	1
VACUUM PUMP - Venturi System	model	M20	M20
AIR CONSUMPTION (max)	l/min	100	100
WEIGHT	kg	170	170



Sowing nozzles can also sow **large seeds**, such as those of **citrus fruits**.

TECHNICAL SPECIFICATIONS

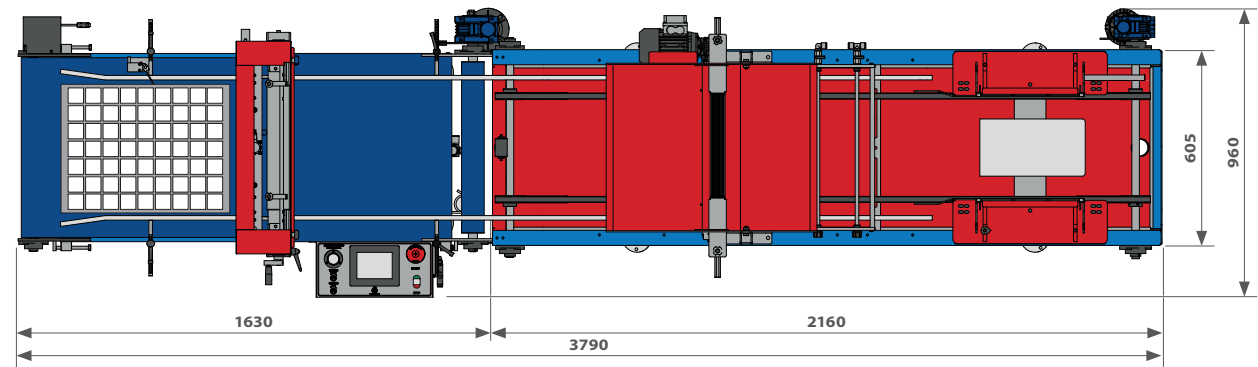
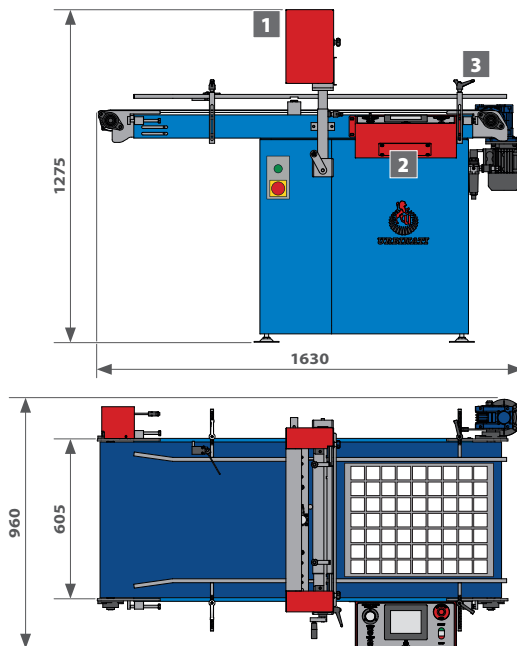
- 1 Automatic pitch seeding head, dibbling device included.
- 2 Control panel with 5.7" colour touch-screen.
 - Quick self-centring guide adjustment system.
 - Available in left and right version.



Maximum precision even with **small seeds**, such as **tomatoes**.



SEMKAPPA65 seeder **connected in line with TELCOBAIM**: the machines are controlled by **one electric panel**, facilitating its use by the operator.



p. 34-35

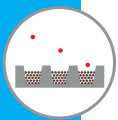
DETAILS

p. 36-39

MAIN ACCESSORIES

- | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 10 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 26 |
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DETAILS

SEEDING



Ergonomic panel for an easy control of all machine's functions.

INCLUDED ON:

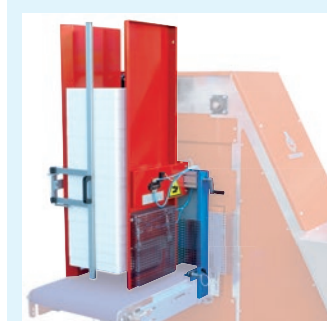
ALL SEEDING LINES



Colour touch-screen panel with intuitive graphic, easy to use for the operator.

INCLUDED ON:

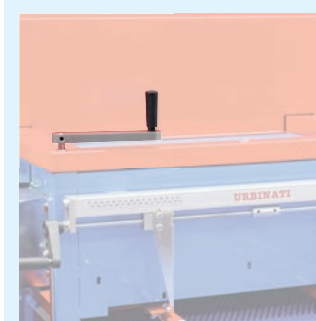
ALL SEEDING LINES



Tray denester **with 2 movements**, adjustable with one single crank.

INCLUDED ON:

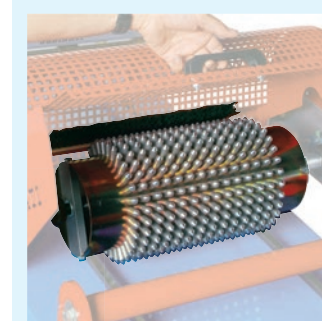
ALL SEEDING LINES



The adjustment of the tray's height, width and soil density is made with **functional cranks**.

INCLUDED ON:

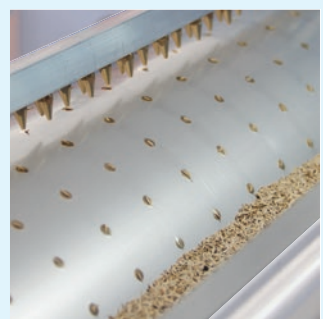
ALL SEEDING LINES



Driven dibbler with cleaning brush.

INCLUDED ON:

SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C



Excellent seeds' singularization thanks to the **double nozzles in the blowing bar**.

INCLUDED ON:

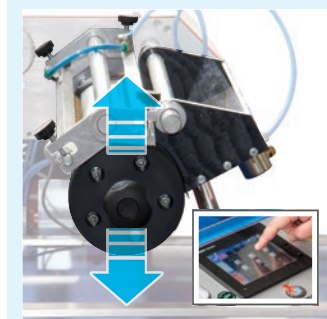
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C



Easy and fast adjustment of seeding system's height and dibbler's depth, thanks to **comfortable cranks**.

INCLUDED ON:

SIGMA80, ALFA65, BETA65/65C, YPSILON65/65C, KAPPA65C



Electric adjustment of the drums' height with touch-screen.

INCLUDED ON:

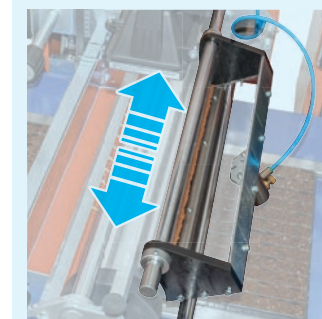
LAMBDA65/65C



Adjustable speed hammers: the vibration produced optimises the positioning of the seed in the centre of the hole.

INCLUDED ON:

SIGMA80, ALFA65, BETA65/65C

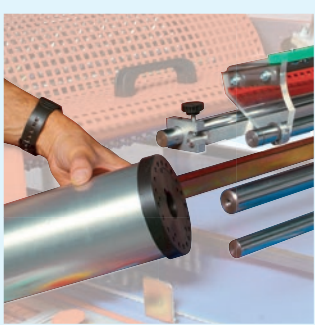
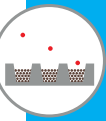


Oscillating seed holding plate to distribute the seeds **uniformly** all over the working width. It enables to work also with a small quantity of seed.

INCLUDED ON:

SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C

Thanks to the **modularity of the design**, our seeding lines and seeders **share common parts**.
The following pictures show some of the **most significant details**.



Fast and easy changing of the drum without any tool.

INCLUDED ON:

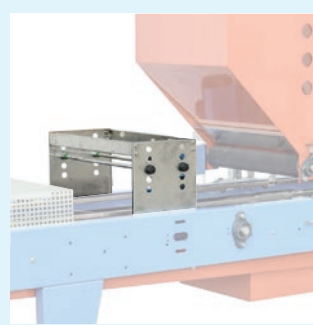
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C



High-power vacuum pump: enables to use the same drum to sowing varieties of seeds of different weight.

INCLUDED ON:

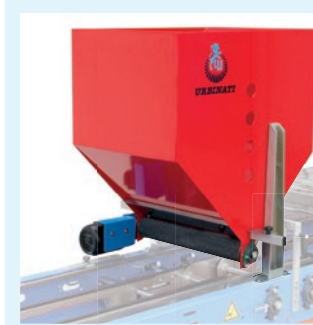
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C



Watering unit with drilled bars modules: uniform watering thanks to the drilling precision, made with CNC machines.

INCLUDED ON:

ALL SEEDING LINES



Covering unit for vermiulite: it allows to obtain an uniform surfaces, even using materials with non-homogeneous granulometry.

INCLUDED ON:

ALL SEEDING LINES



Stacking unit: easy and functional **balance stacker**.

INCLUDED ON:

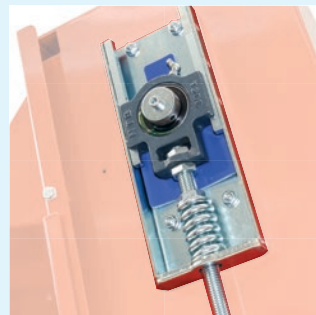
ALL SEEDING LINES



Quick self-centring guide adjustment system, to quickly adapt the guides to the width of the trays in use.

INCLUDED ON:

SIGMA80, ALFA65, BETA65, LAMBDA65, YPSILON65



Engineering solutions aimed to reduce and simplify the maintenance.

INCLUDED ON:

ALL SEEDING LINES



Strong manufacturing and lasting materials: the parts in contact with soil and water are in stainless steel or are hot-dip galvanised, to avoid corrosion over time.

INCLUDED ON:

ALL SEEDING LINES



Seeding plate on **sliding guides** for a **fast change**.

INCLUDED ON:

SEMBLOCK





MAIN ACCESSORIES

SEEDING



Feeding belt for empty trays stacks, for denester.

1

AVAILABLE ON:

ALL SEEDING LINES

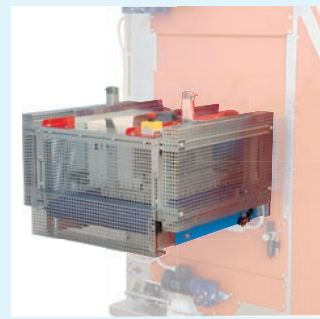


Denester for heavy plastic trays at injection in polypropylene PP.

2

AVAILABLE ON:

ALL SEEDING LINES

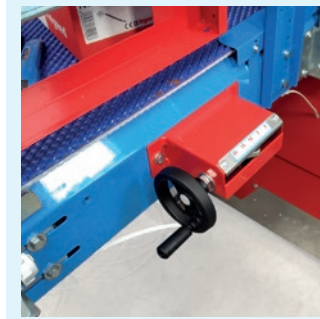


Electropneumatic denester with 3 movements for thermoformed trays PE - PET.

3

AVAILABLE ON:

ALL SEEDING LINES



Adjustment device for trays with legs.

4

AVAILABLE ON:

ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C, KAPPA65C



Fertilizer distributor.

5

AVAILABLE ON:

SIGMA80, ALFA65, BETA65, LAMBDA65, YPSILON65



Belt for the recycling soil for tray filler.

6

AVAILABLE ON:

BETA65C, LAMBDA65C, YPSILON65C, KAPPA65C



Flat dibbler for pots.

7

AVAILABLE ON:

ALL SEEDING LINES AND SEEDERS with drum seeding system.

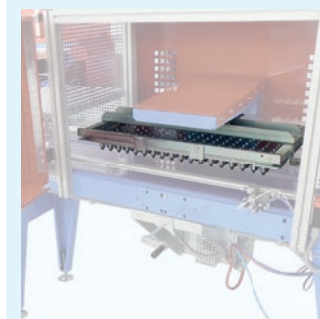


Oscillating cleaning brush for dibbler: particularly suitable in the presence of damp soils.

8

AVAILABLE ON:

SIGMA80, ALFA65, BETA65/65C, SEMBETA65



Dibblingbelt mod. NI: to make holes with a depth greater than 20 mm or recommended in combination with seeders configured with seed drums only.

9

AVAILABLE ON:

LAMBDA65/65C, SEMBETA65



Seeding bar kit: it includes one nozzle bar, one tube descent bar and one dibbler bar.

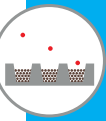
10

AVAILABLE ON:

KAPPA65C, SEMKAPP65, SEMSF13



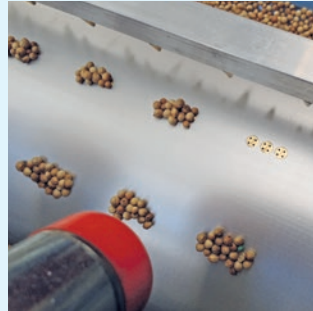
These MAIN ACCESSORIES **improve further the performance** and the productivity of our seeding lines and seeders.
Our **engineering dept.** is at your disposal **to suggest the best solutions** for your needs.



- 11** Complete **drum seeding kit**: it includes one dibbler, one sowing drum and two nozzle bars.

AVAILABLE ON:

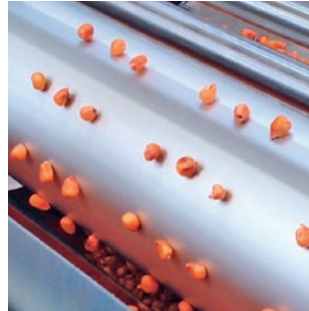
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C, SEMBETA65, SEMLAMBDA65, SEMYPSILON65



- 12** Sowing **drum with multi-hole nozzles** for aromatics, microgreens etc.

AVAILABLE ON:

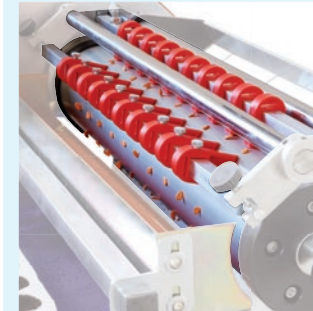
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C, SEMBETA65, SEMLAMBDA65, SEMYPSILON65



- 13** Sowing drum for **sectorized containers**.

AVAILABLE ON:

SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C, SEMBETA65, SEMLAMBDA65, SEMYPSILON65



- 14** **Air bars** with labyrinths suitable to work with **big seeds**.

AVAILABLE ON:

SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C, YPSILON65/65C, SEMBETA65, SEMLAMBDA65, SEMYPSILON65



- 15** **Drum for big seeds**: in the image, the made-to-measure sowing drum by URBINATI for acorns' sowing.

AVAILABLE ON:

ALFA65, BETA65/65C, SEMBETA65



- 16** **Second/third sowing drum**.

AVAILABLE ON:

Second drum: SIGMA80, ALFA65, BETA65/65C, SEMBETA65
Second/third drum: LAMBDA65/65C, SEMLAMBDA65



Localized vermiculite cover unit for trays:

allows to drop vermiculite in a determinate area.
Ideal to avoid waste of vermiculite.



Localized cover unit and volumetric seeding for pots in pot holders:

allows **to cover individual pots** fitted into marketing trays, **or to sow some varieties** of ornamental plants (e.g. palms), vegetables (e.g. peas, beans) and aromatic (e.g. coriander)





MAIN ACCESSORIES

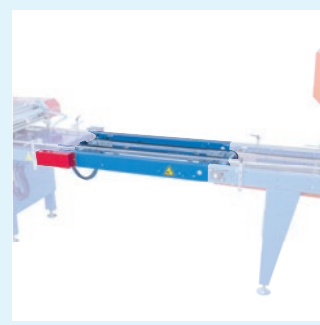
SEEDING



Aluminium seeding plate with seed drop drawer with pneumatic opening.

17

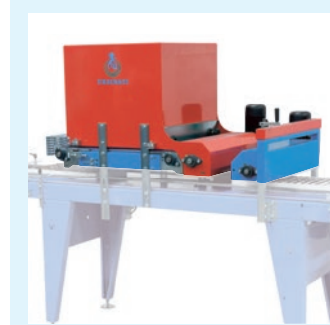
AVAILABLE ON:
SEMBLOCK



Seed inspection to easily check the sown trays.

18

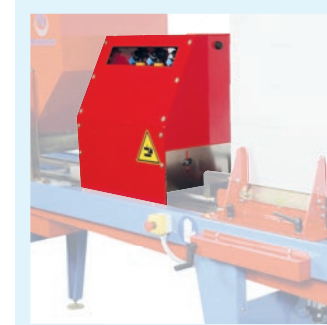
AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
AND *except* SEMSF13



Covering unit for soil and similar composts, complete with brush for trays cleaning.

19

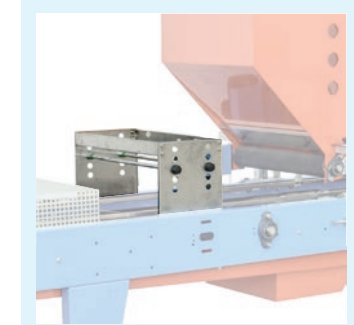
AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13



Watering unit, triget nozzles module: supplied as an alternative or to supplement the drilled bars module.

20

AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13



Watering unit, drilled bars module: the number of modules and the quantity of bars included in a line can be configured according to requirements.

21

AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13



Stacking unit: automatic balance stacker.

22

AVAILABLE ON:
ALL SEEDERS *except* SEMSF13



Idle roller conveyor for container accumulation.

23

AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13



Accumulation belt for high productivity. Available in a variety of lengths.

24

AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13



EAC automatic labelling machine: to print and apply labels on the exiting containers from the denester.

25

AVAILABLE ON:
ALL SEEDING LINES

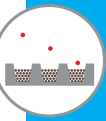


Frame completely made of stainless steel AISI304.

26

AVAILABLE ON:
ALL SEEDING LINES AND SEEDERS
except SEMSF13





27

Soil feeding of the covering unit.

AVAILABLE ON:

SIGMA80, ALFA65, BETA65, LAMBDA65, YPSILON65

28

Double sowing drum.

AVAILABLE ON:

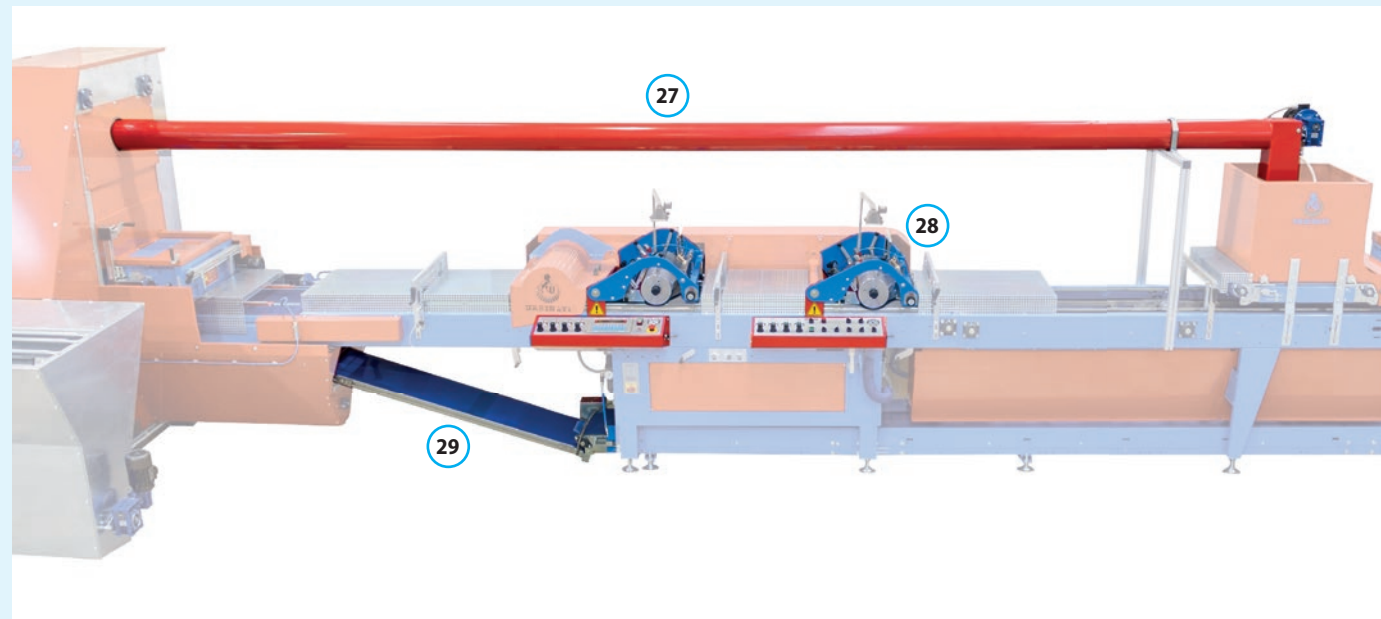
SIGMA80, ALFA65, BETA65/65C, LAMBDA65/65C,
SEMBETA65, SEMLAMBDA65

29

Automatic recycling of the exceeding soil.

AVAILABLE ON:

SIGMA80, ALFA65, BETA65, LAMBDA65, YPSILON65

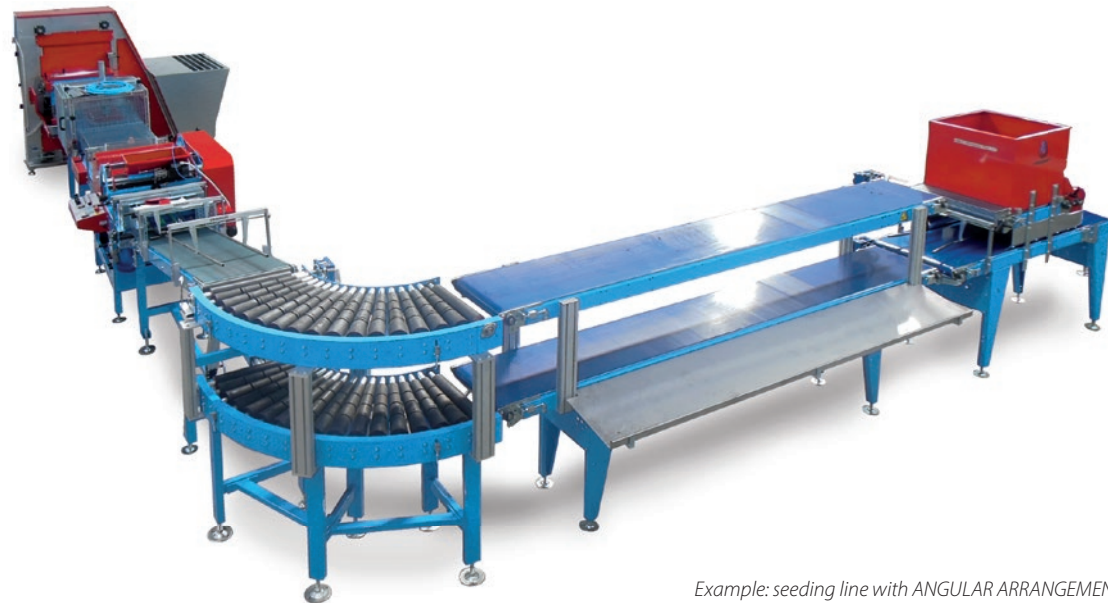


30

Motorised 90° roller conveyor equipped with container guides.

AVAILABLE ON:

ALL SEEDING LINES



Example: seeding line with ANGULAR ARRANGEMENT.

