



**ALLROUND**  
VEGETABLE PROCESSING



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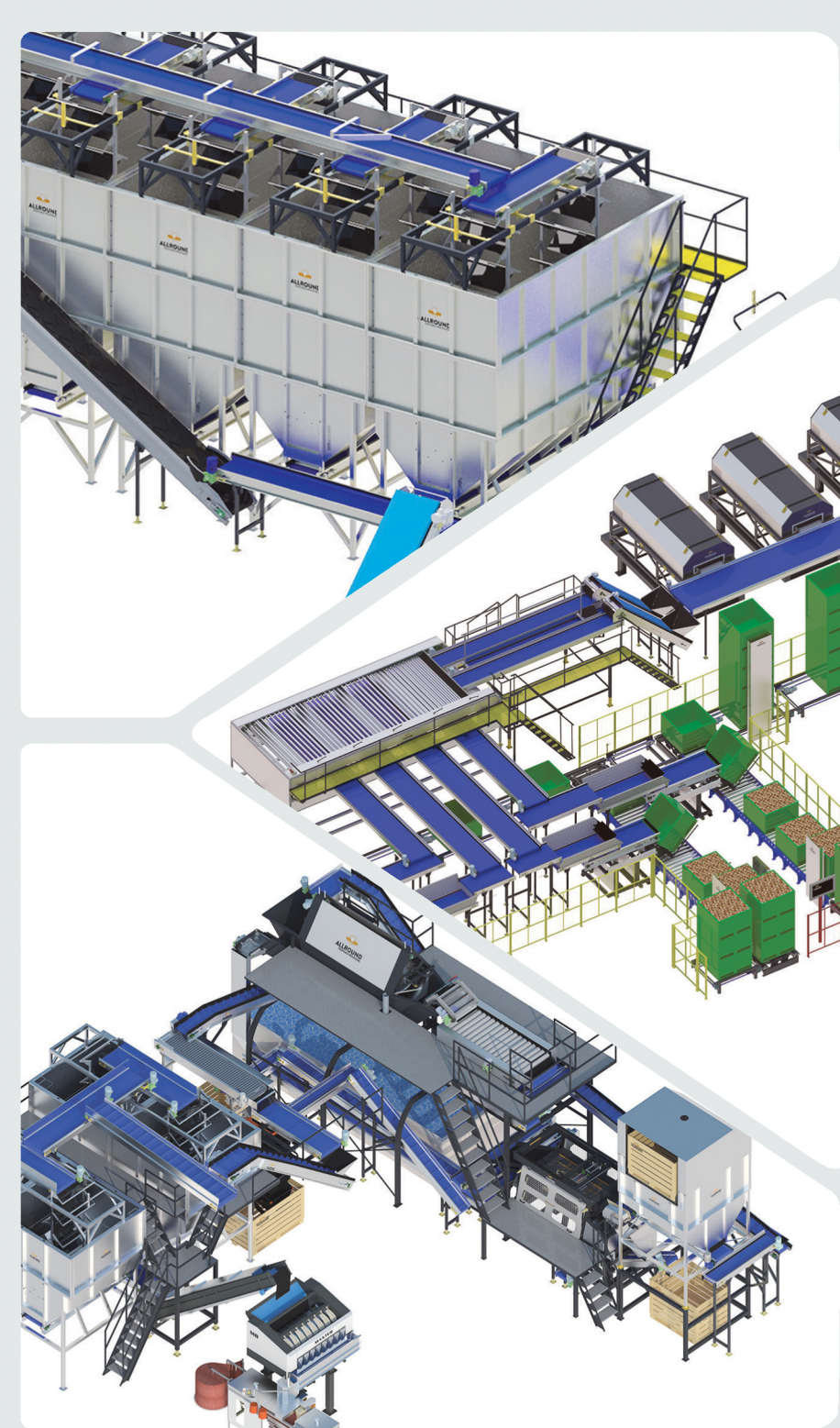
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## ALLROUND VEGETABLE PROCESSING B.V.

- Family company over 65 years.
- Exports to over 80 countries.
- Two production facilities, Andijk, Holland and Ambala, India.
- Total 11000 m<sup>2</sup>, over 120 employees.
- Approx. 1000 machines sold annually.
- Partnerships with optical grading and electronic sorter manufactures.
- Initiator of Dutch Distribution Centres(DDC). Visit: [www.dutchdc.com](http://www.dutchdc.com).



# PROVEN WORLDWIDE INNOVATION

## ALLROUND PROCESSING SOLUTIONS FOR:

- SEED POTATOES
- TABLE POTATOES
- INDUSTRY POTATOES
- SWEET POTATOES
- CARROTS
- ONIONS
- SET ONIONS
- TURNIPS
- PARSNIPS
- CELERY
- CABBAGE
- BRUSSELS SPROUTS
- RED BEET
- FLOWER BULBS

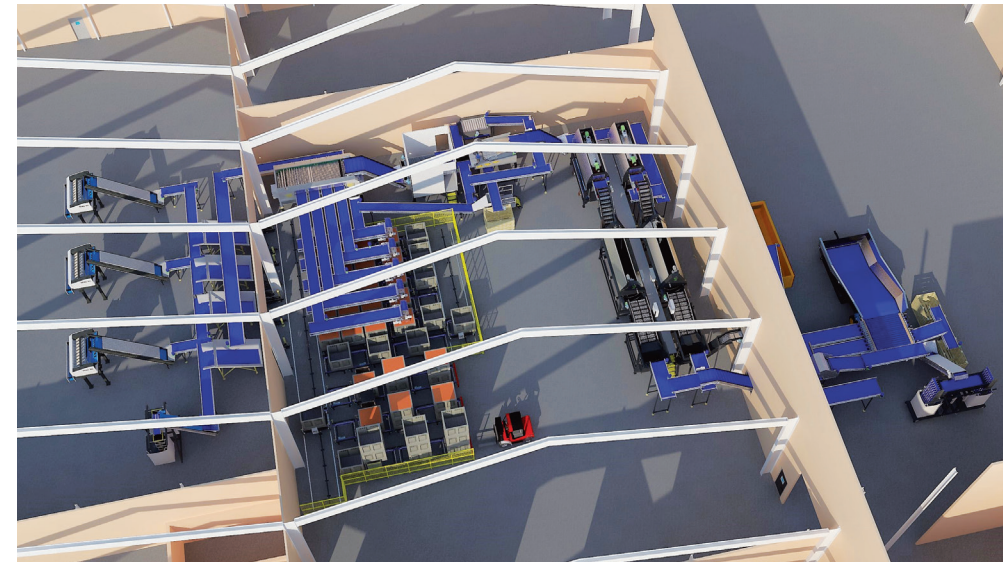
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Allround Vegetable Processing B.V. has a specialized department for making 3D drawings for any inquiry made. We strive to make you the first drawings in 2D and 3D within two days after receiving the inquiry.

We distinguish three types of drawings to make:

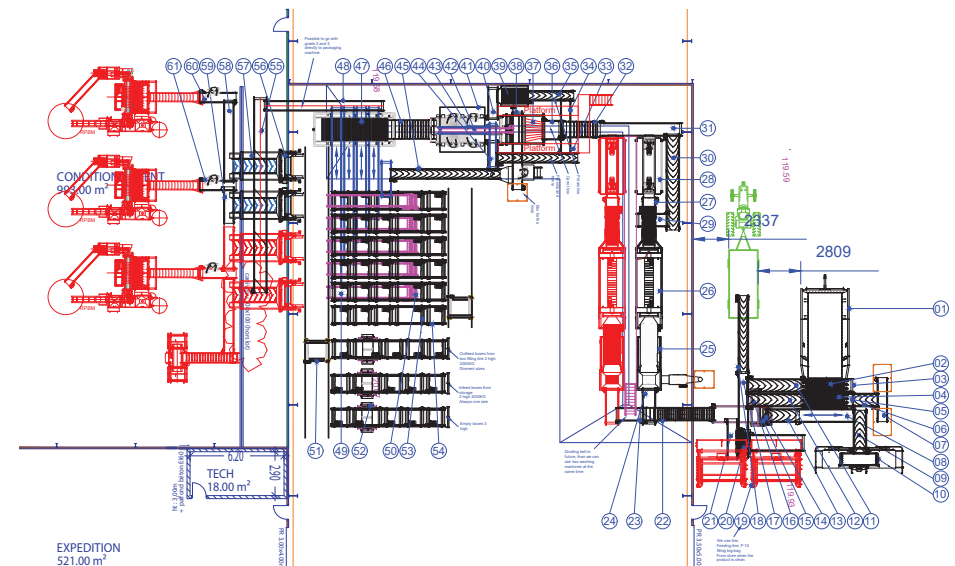
- Complete layout with new building or in existing building with processing lines. With or without cold storage.
- Complete processing lines.
- Stand alone machines.
- Machines compatible with existing standard infrastructure.
- All lines and machines compatible with all brands of weighing and packing machines as Newtec, Sorma and Manter/Volm etc.
- We can integrate all our machines with any optical grader as: Elisam, Mafroda and Compac etc.



In order to serve you as good as possible, we usually need the following information:

- Product: Potatoes, Onions, Carrots etc.
- Required capacity tons per hour
- New building/existing building
- Space available for line or machine
- Product receiving to the line: trucks/boxes
- Packaging type of finished product

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.



# POTATO LINES

## ALLROUND POTATO LINES

Every company that handles potatoes has a different need when it comes to washing and grading. Allround offers solutions for all types of companies, ranging from seed potato grading installations to large industrial washing lines.

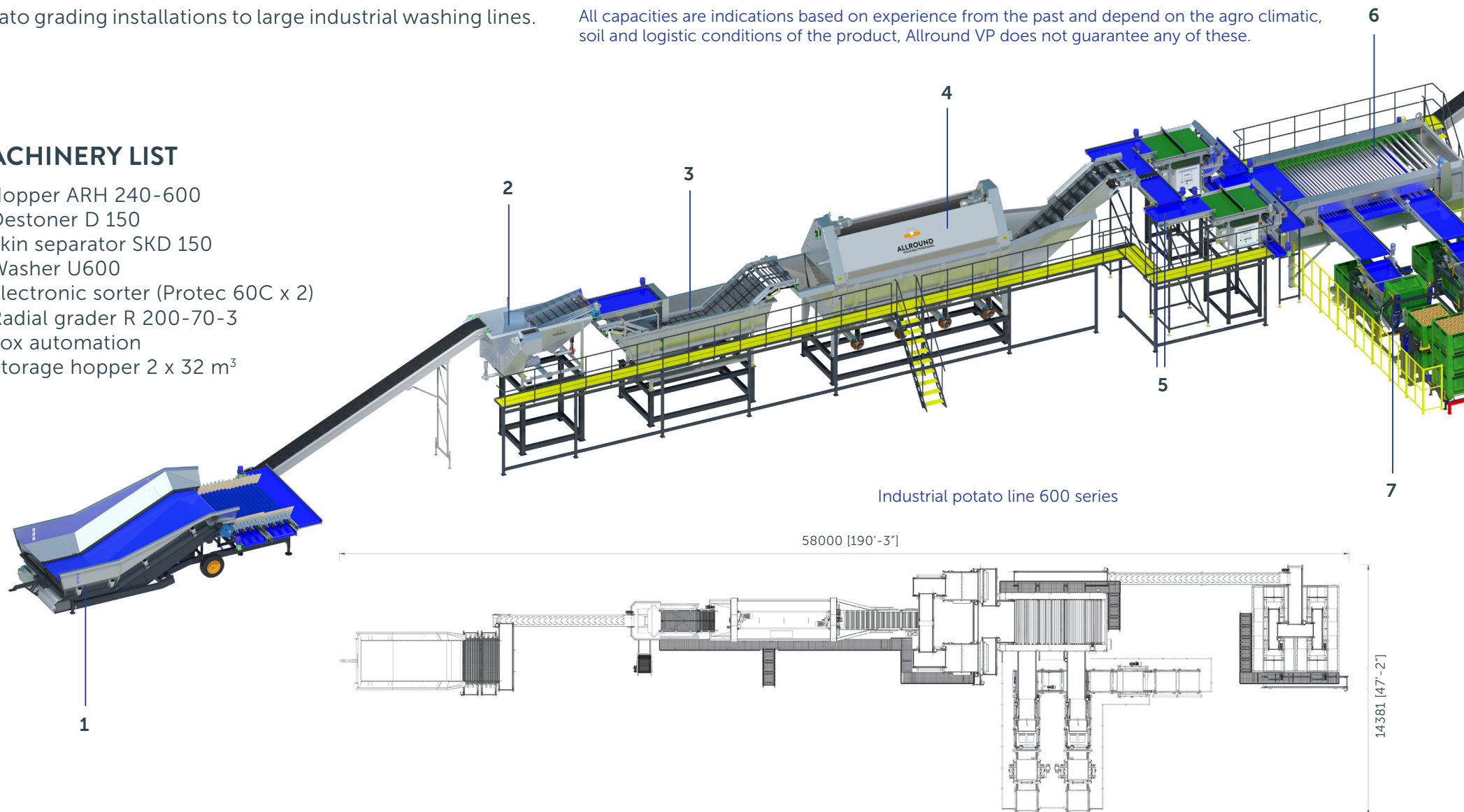
ESTIMATED CAPACITIES OF THE POTATO LINES HEAVY & LIGHT SOIL

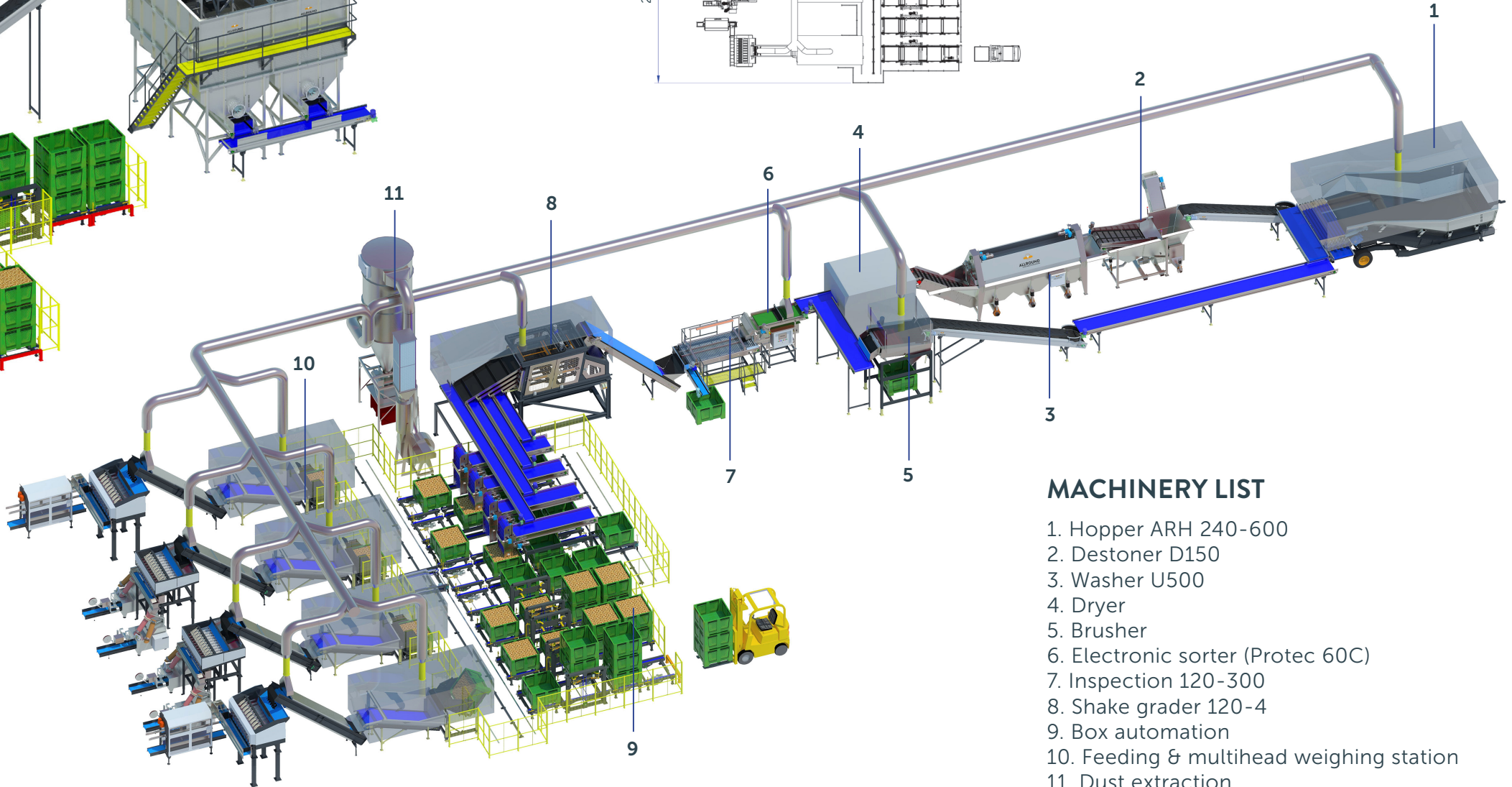
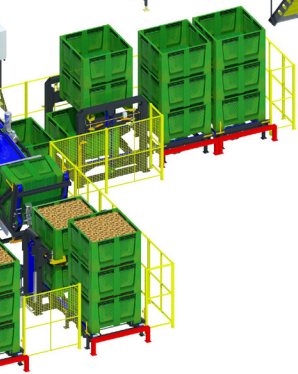
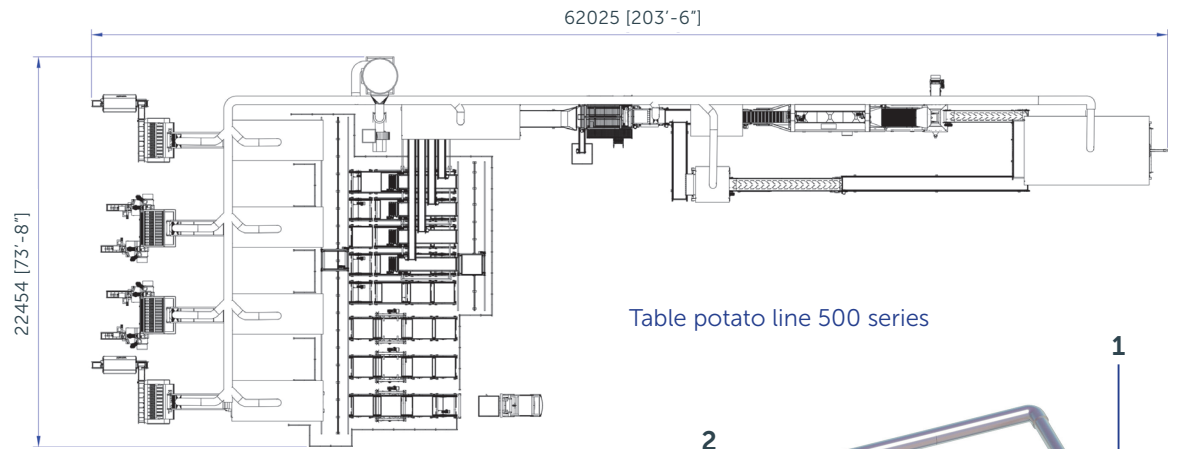
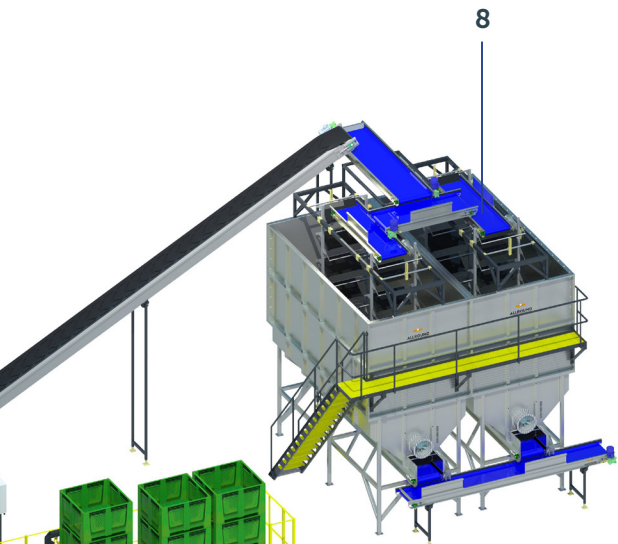
	170 SERIES	300 SERIES	450 SERIES	500 SERIES
Table Potatoes	2 - 3	6 - 8	15 - 20	25 - 35
Industrial potatoes	-	6 - 10	20 - 25	30 - 50

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## MACHINERY LIST

1. Hopper ARH 240-600
2. Destoner D 150
3. Skin separator SKD 150
4. Washer U600
5. Electronic sorter (Protec 60C x 2)
6. Radial grader R 200-70-3
7. Box automation
8. Storage hopper 2 x 32 m<sup>3</sup>



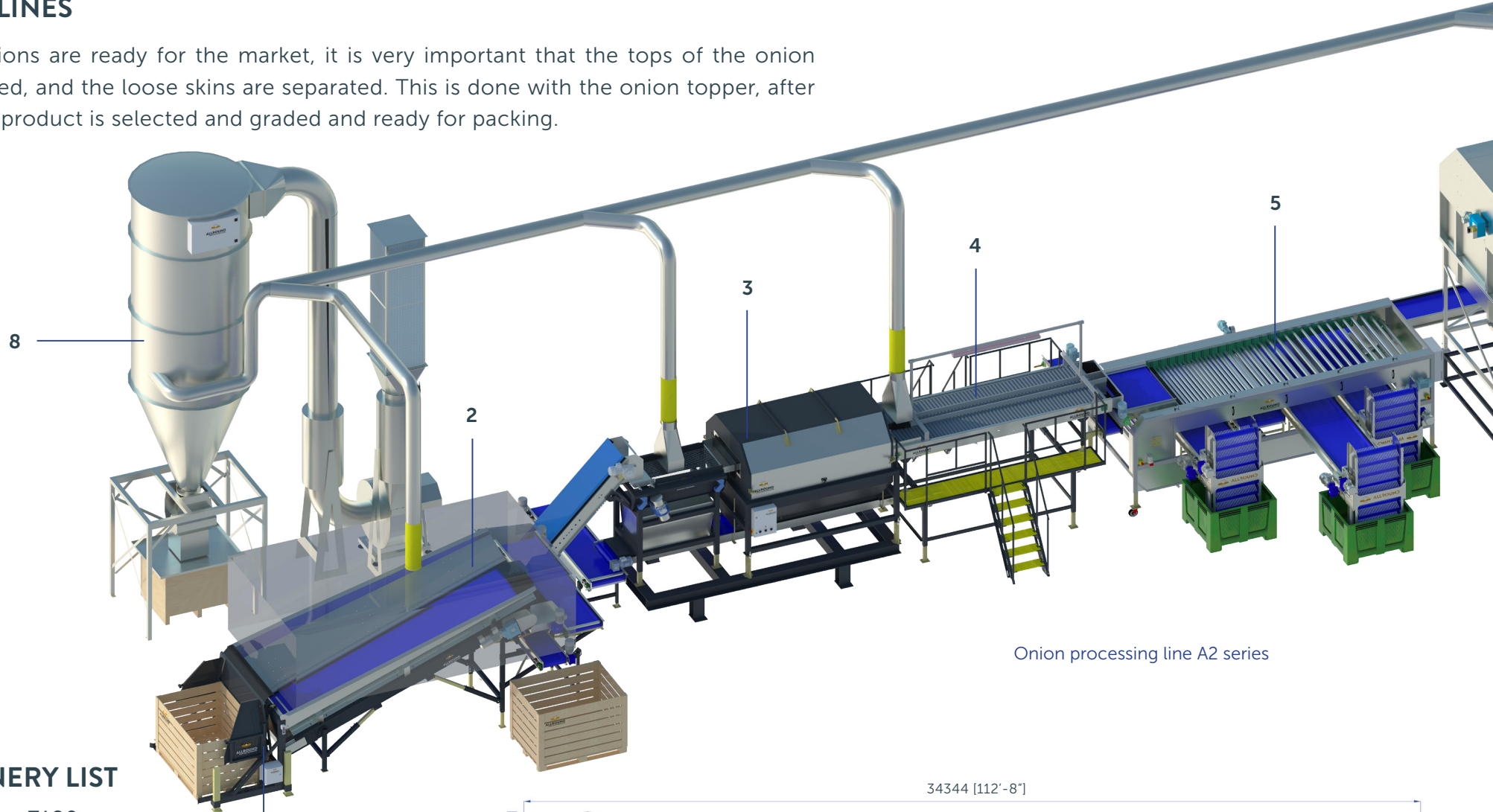


## MACHINERY LIST

1. Hopper ARH 240-600
2. Destoner D150
3. Washer U500
4. Dryer
5. Brusher
6. Electronic sorter (Protec 60C)
7. Inspection 120-300
8. Shake grader 120-4
9. Box automation
10. Feeding & multihead weighing station
11. Dust extraction

## ONION LINES

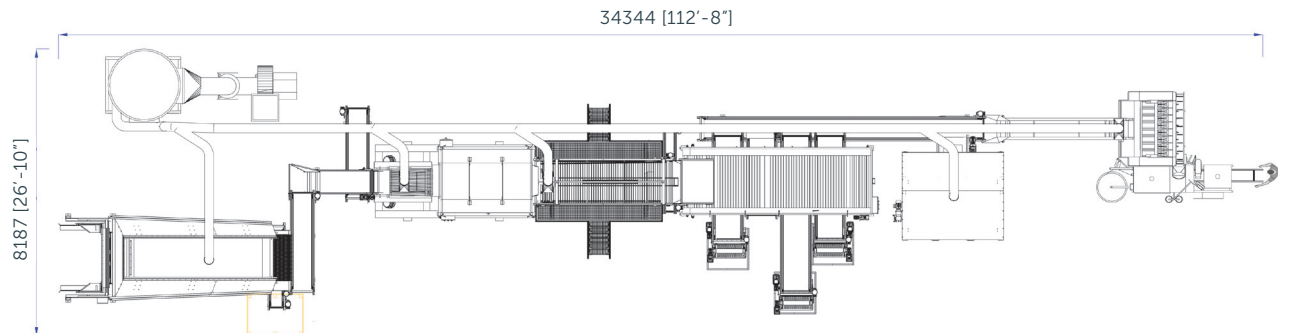
Before onions are ready for the market, it is very important that the tops of the onion are removed, and the loose skins are separated. This is done with the onion topper, after which the product is selected and graded and ready for packing.

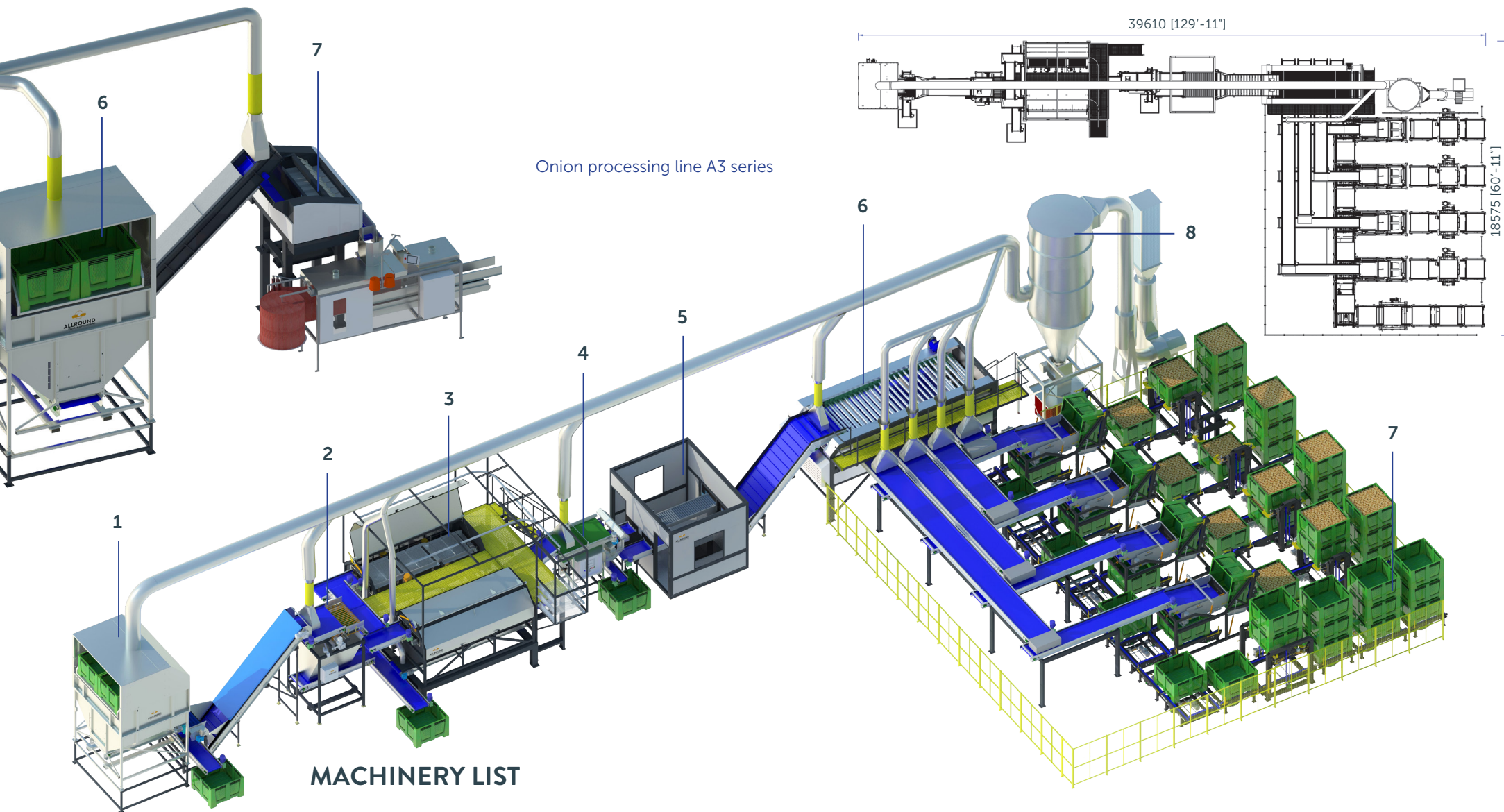


Onion processing line A2 series

### MACHINERY LIST

1. Box tipper Z180
2. Hopper B120-450
3. Onion topper A2+pregrader
4. Roller inspection 120-400
5. Radial grader 150-70-4
6. Storage hopper - box tipper combinations
7. Multihead weigher M8+RSBM
8. Dust extraction





Onion processing line A3 series

## MACHINERY LIST

1. Storage hopper - box tipper combinations
2. Belt grader
3. A3 onion topper-fully open door
4. Electronic sorter (Protec 40c)
5. Roller inspection table with cabin
6. Radial grader 170-70-4
7. Box automation
8. Dust extraction

PRODUCT	A 1 ONION LINE	A 2 ONION LINE	A 3 ONION LINE
Onions	3 - 4 tons / hour	6 - 8 tons / hour	9 - 12 tons / hour
Set onions	2 - 3 tons / hour	4 - 6 tons / hour	6 - 9 tons / hour

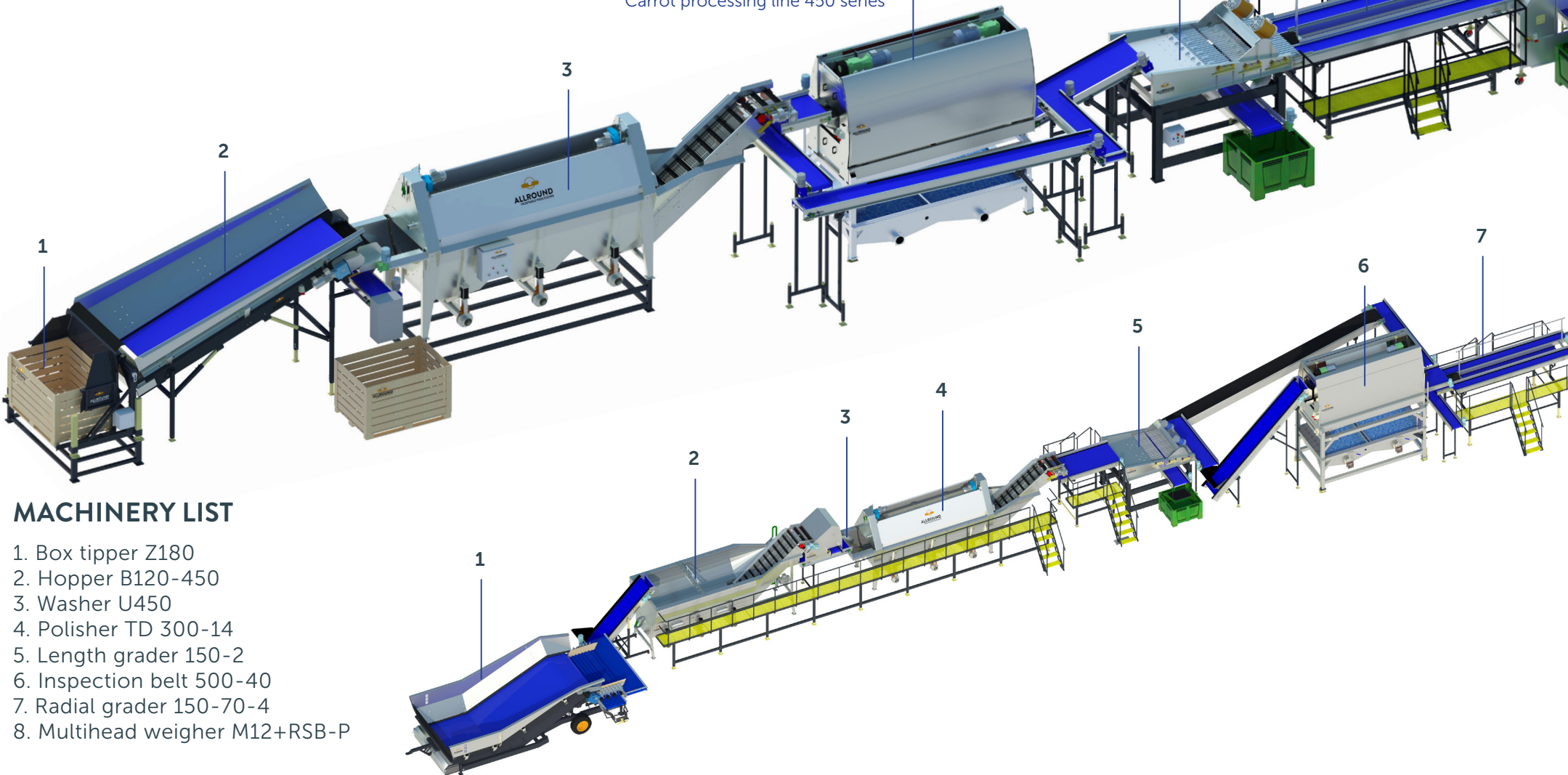
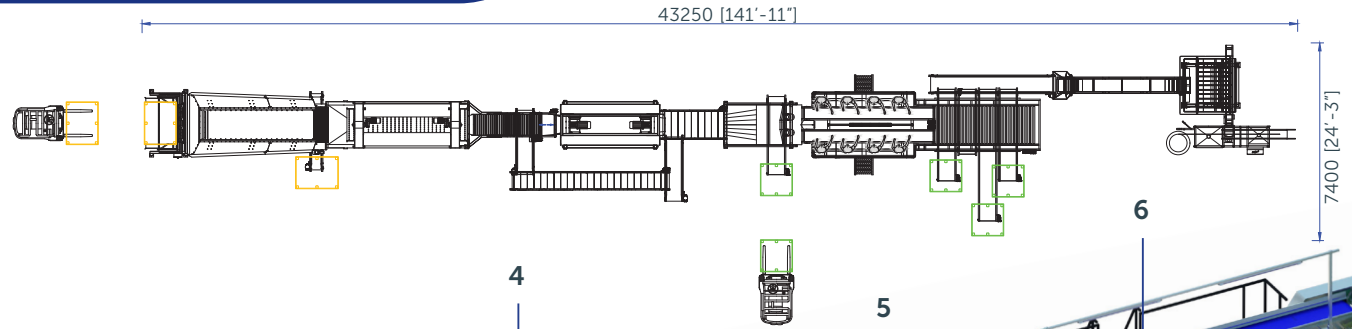
### LARGER CAPACITIES CAN BE OFFERED ON DEMAND

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

# CARROT LINES

## CARROT LINES

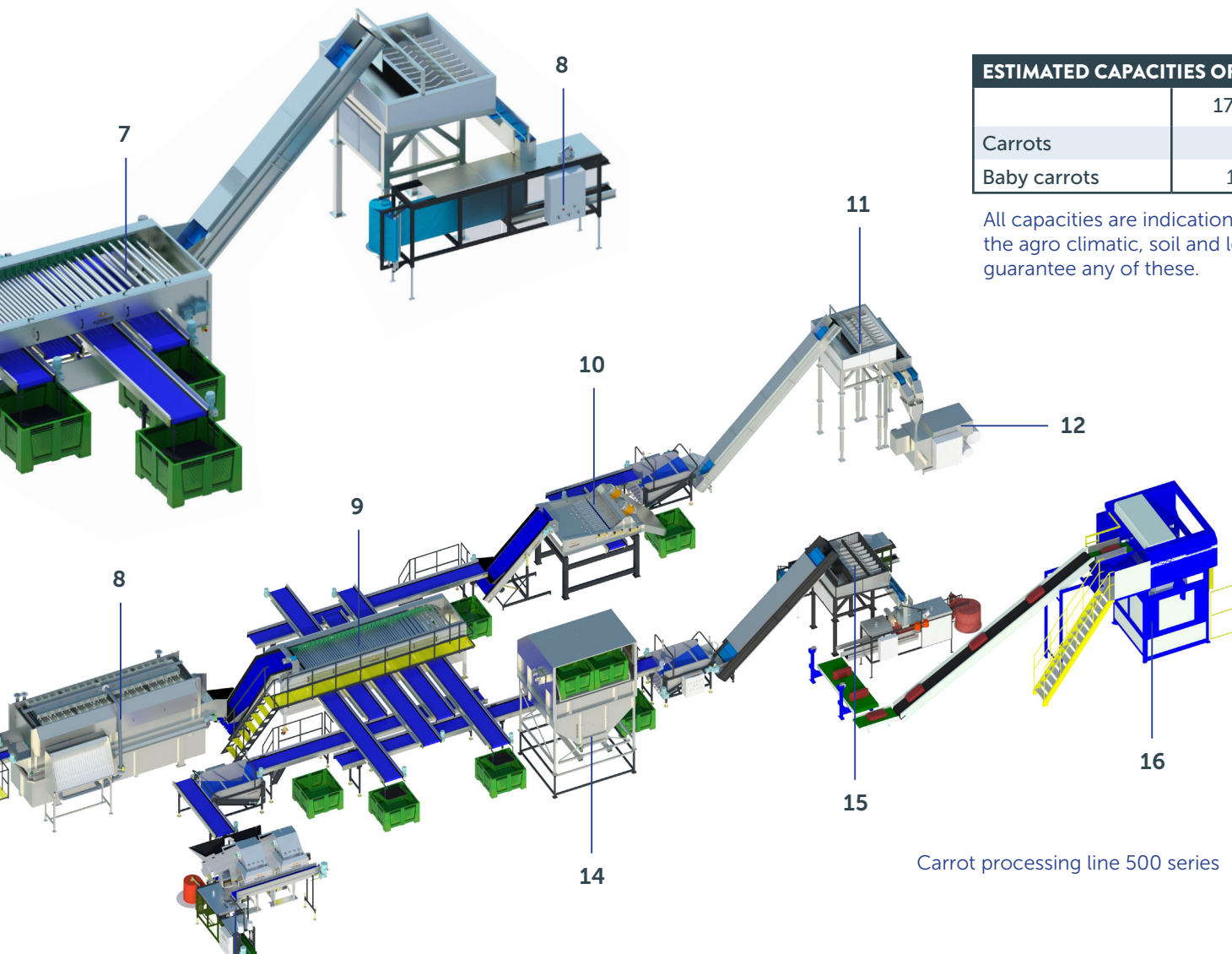
Carrots are grown in many different types of soil. Allround has different machine types, and the experience and knowledge of how to place the correct machine in your carrot line to fit your specific needs



## MACHINERY LIST

1. Box tipper Z180
2. Hopper B120-450
3. Washer U450
4. Polisher TD 300-14
5. Length grader 150-2
6. Inspection belt 500-40
7. Radial grader 150-70-4
8. Multihead weigher M12+RSB-P





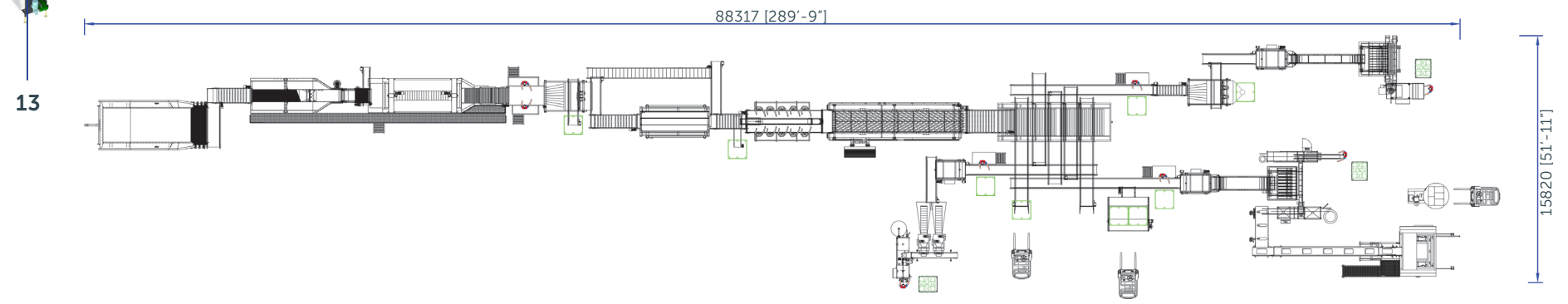
ESTIMATED CAPACITIES OF THE CARROT LINES HEAVY & LIGHT SOIL				
	170 LINE	300 LINE	450 LINE	500 LINE
Carrots	1 - 2	2 - 3	4 - 8	8 - 16
Baby carrots	1 - 1.5	2 - 3	3 - 6	6 - 12

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

### MACHINERY LIST

1. Hopper ARH 240-600
2. Wet hopper J4T
3. Leaf separator 80-110
4. Washer U500
5. Chunk grader L180-2
6. Polisher TD 350-18
7. Double inspection belt D500-50
8. Hydro cooler 200 KW
9. Radial grader 170-70-5
10. Length grader 150-2
11. Multihead weigher M12 CA
12. Vertical fill bagger VFFS
13. Weighing and bag stitching AWBS-25
14. Storage hopper - box tipper SHB 160
15. Multihead weigher M10 CA+RSB-M
16. Palletizer

Carrot processing line 500 series



# INTEGRATED LINES

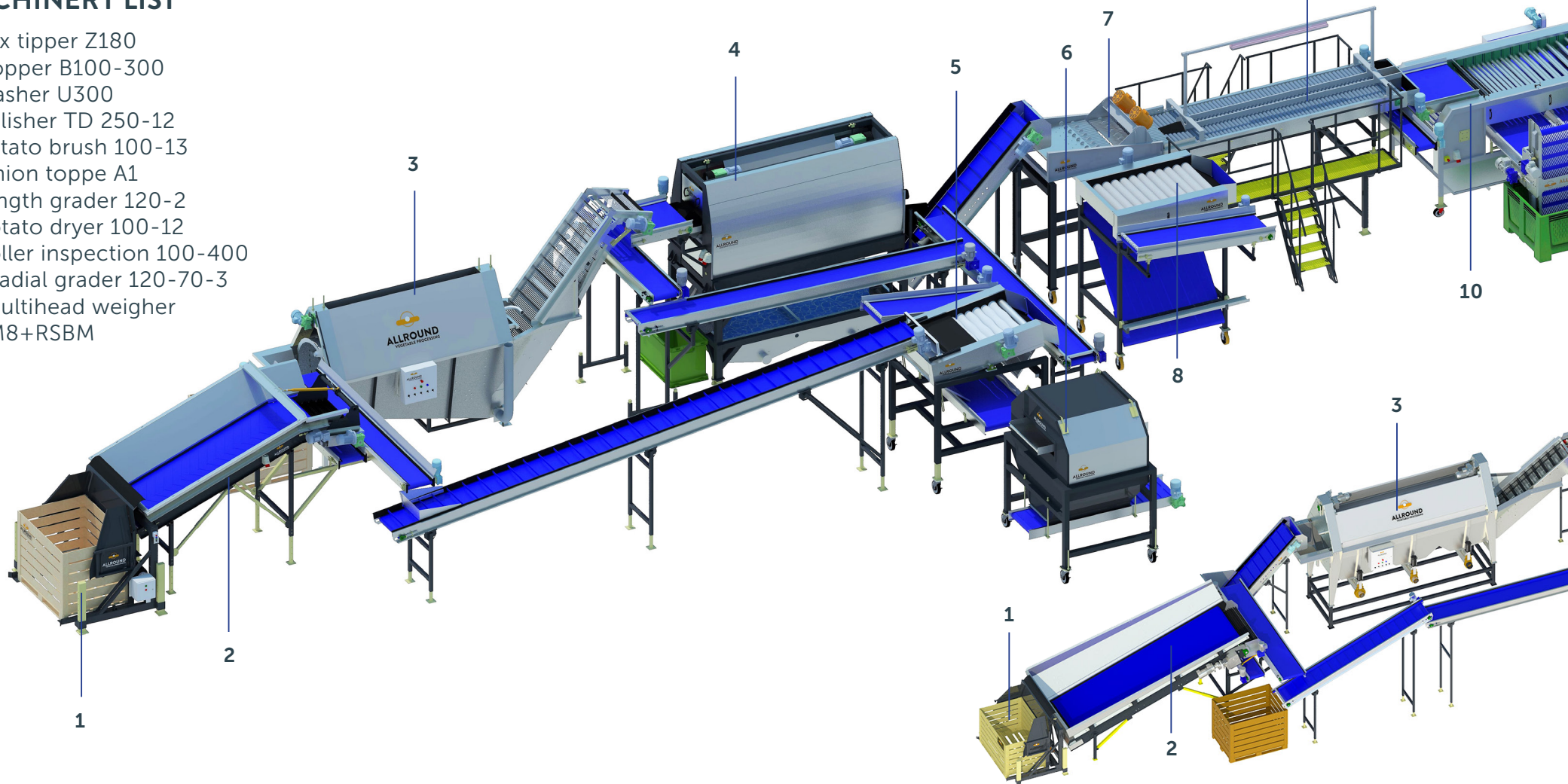
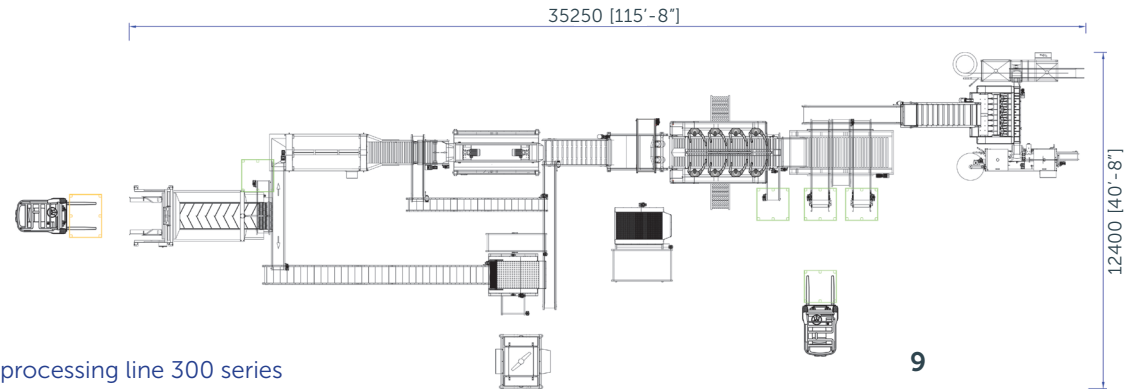
## ALLROUND INTEGRATED PROCESSING LINES

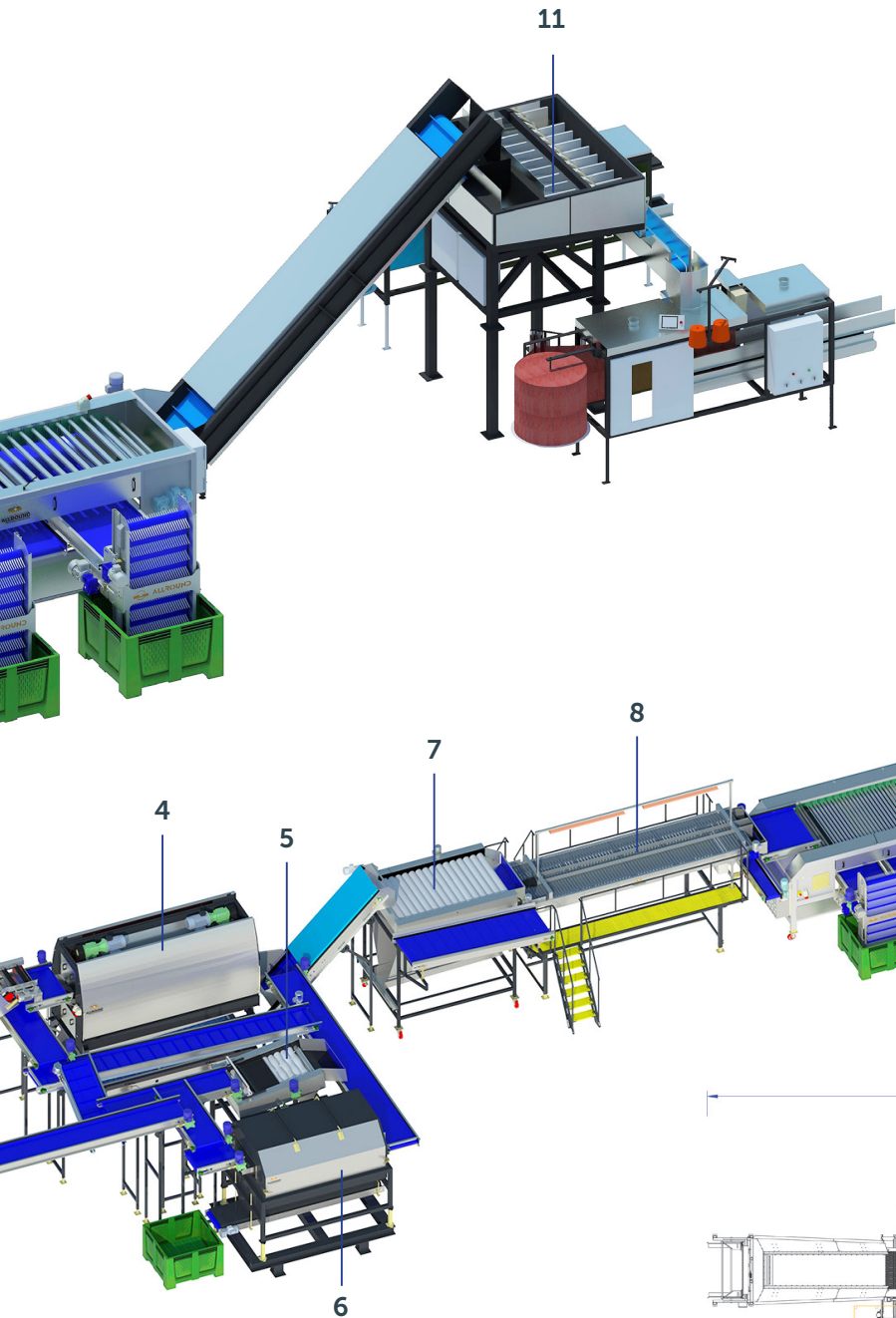
Allround Integrated Processing lines (AIPL's) are designed to process different types of products on 1 line. All the below mentioned products can be combined on a AIPL with capacities ranging from 1 to 30 tons / hour.

## MACHINERY LIST

1. Box tipper Z180
2. Hopper B100-300
3. Washer U300
4. Polisher TD 250-12
5. Potato brush 100-13
6. Onion toppe A1
7. Length grader 120-2
8. Potato dryer 100-12
9. Roller inspection 100-400
10. Radial grader 120-70-3
11. Multihead weigher M8+RSBM

Allround integrated processing line 300 series





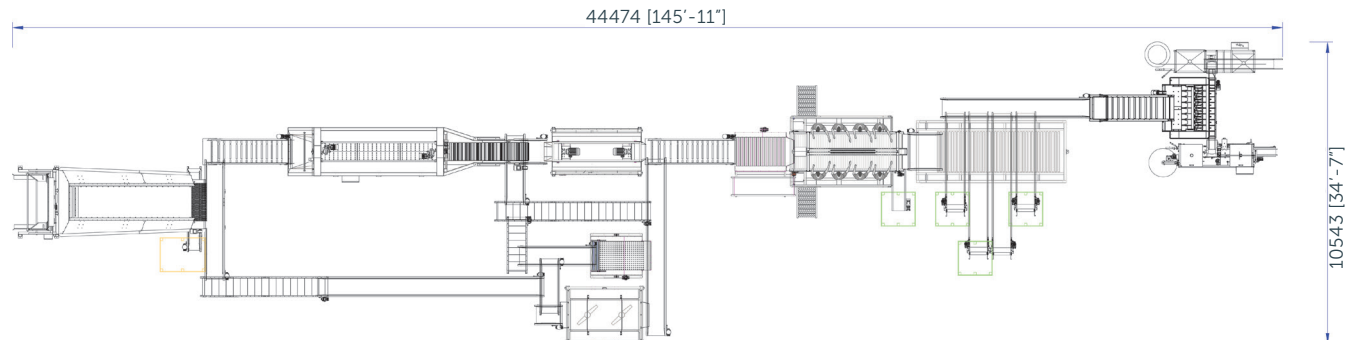
ESTIMATED CAPACITIES OF THE AIPL LINES HEAVY & LIGHT SOIL				
	AIPL 170	AIPL 300	AIPL 450	AIPL 500
Carrots	1 - 2	2 - 3	4 - 8	8 - 16
Baby carrots	1 - 1.5	2 - 3	3 - 6	6 - 12
Red beet	1.5 - 2	2 - 3	5 - 9	15 - 17
Potatoes	2 - 3	5 - 7	12 - 17	25 - 30
Parsnips	1 - 1.5	2 - 3	4 - 6	7 - 11
Celeriac	1.5 - 2.5	2.5 - 3.5	6 - 10	8 - 15
Onions	3 - 5	3 - 5	6 - 10	10 - 15
Set onions	2 - 3	2 - 3	4 - 6	6 - 8

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## MACHINERY LIST

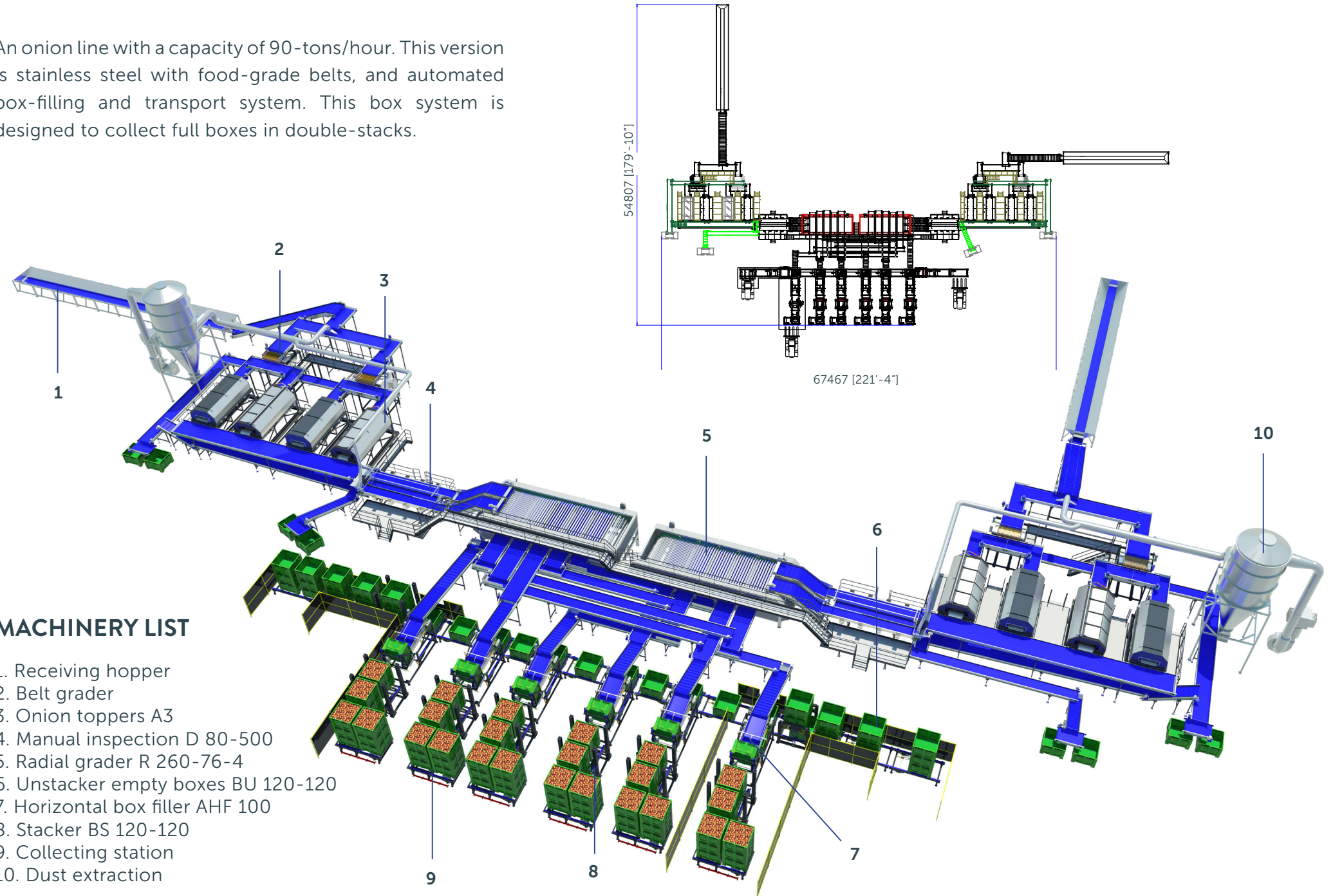
1. Box tipper Z180
2. Hopper B120-450
3. Washer U450
4. Polisher TD 300-14
5. Potato brush 120-15
6. Onion topper A2
7. Potato dryer 140-17
8. Roller inspection 100-400
9. Radial grader 150-70-4
10. Storage hopper - box tipper combinations
11. Multihead weigher M8+RSBM

Allround integrated processing line 450 series



# ONION LINE - HORIZONTAL BOX AUTOMATION

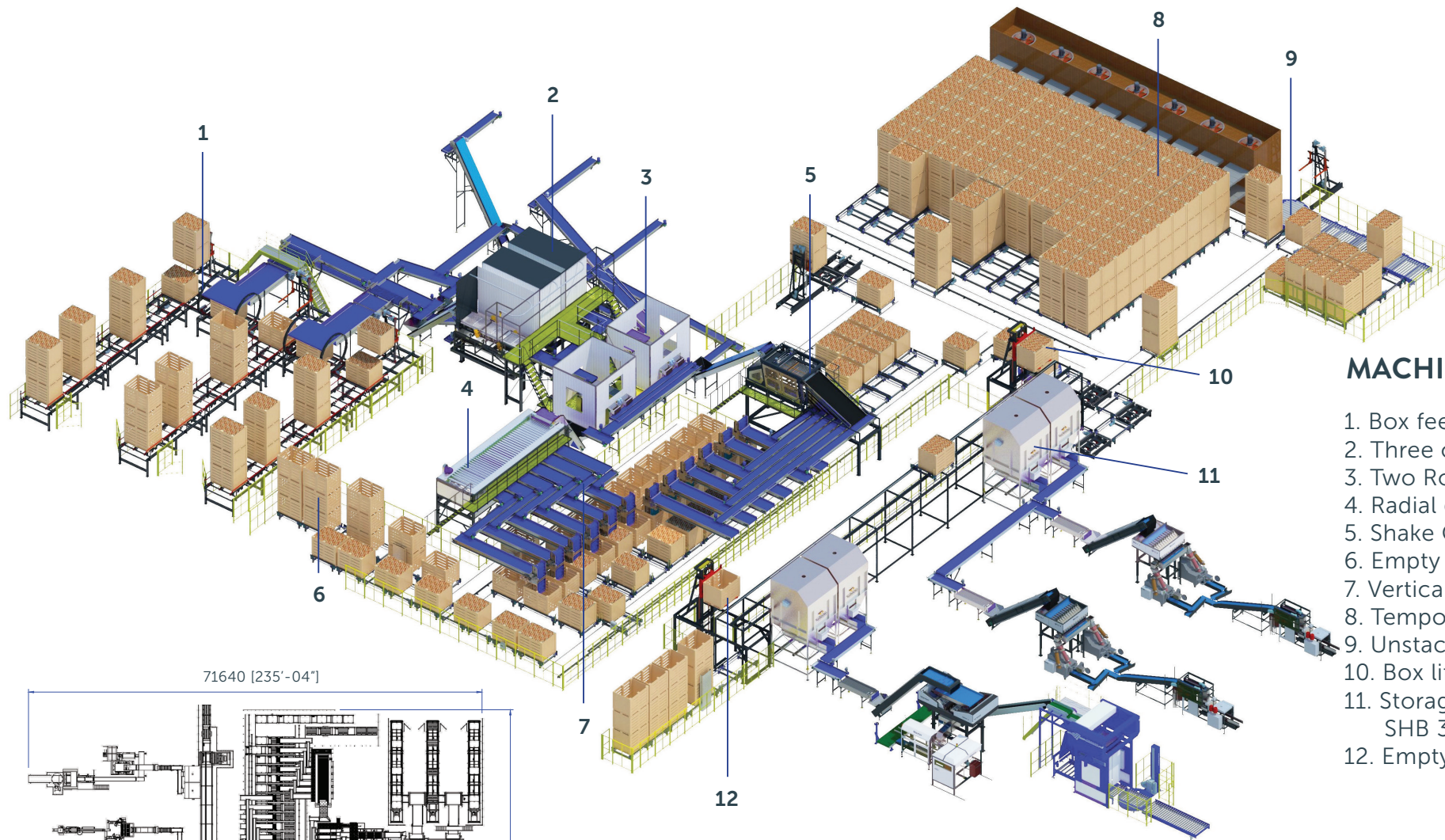
An onion line with a capacity of 90-tons/hour. This version is stainless steel with food-grade belts, and automated box-filling and transport system. This box system is designed to collect full boxes in double-stacks.



## MACHINERY LIST

1. Receiving hopper
2. Belt grader
3. Onion toppers A3
4. Manual inspection D 80-500
5. Radial grader R 260-76-4
6. Unstacker empty boxes BU 120-120
7. Horizontal box filler AHF 100
8. Stacker BS 120-120
9. Collecting station
10. Dust extraction

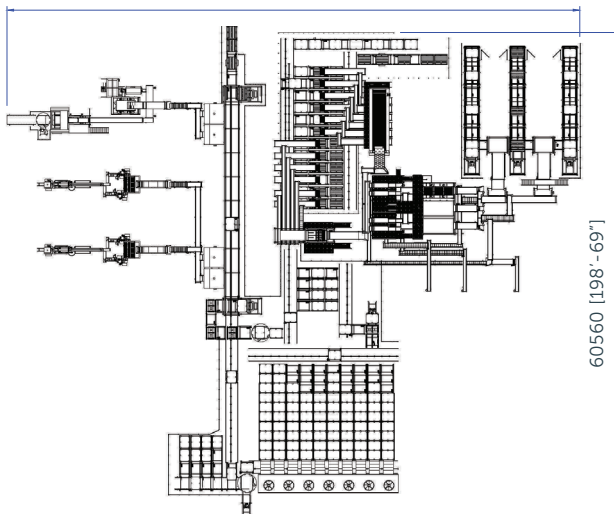
# ONION LINE - FULLY AUTOMATED BOX HANDLING



## MACHINERY LIST

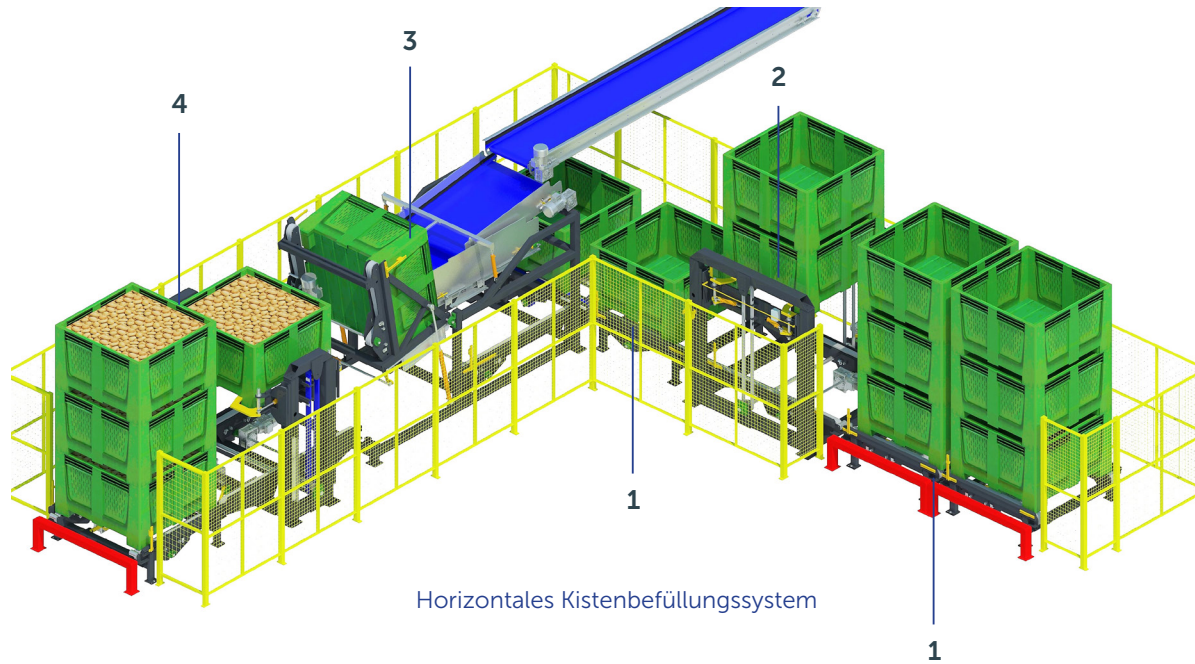
1. Box feeding
2. Three onion topper A3
3. Two Roller inspection tables
4. Radial grader R 170-70-6
5. Shake Grader SG 120-5
6. Empty box supply
7. Vertical box filling
8. Temporarily storage
9. Unstacker
10. Box lifting
11. Storage hopper box tiper SHB 3
12. Empty box stacker

71640 [235'-04"]



A fully automated 30-tons/hour onion line constructed in France. Box feeding system with two high speed revolving box tippers. Three onion toppers with rail system and crane for changing sieves. Roller inspection tables in cabins. Depending on the shape of the product, a choice for radial grading or shake grading. Because of space and combination of two grading systems, inevitable selection of vertical box filling system. Filled boxes to the temporary storage for even flow and conditioning. From storage automatically to the packaging stations.

# BOX FILLING SYSTEMS



Horizontales Kistenbefüllungssystem

## MACHINERY LIST

1. Empty box feeding BTU 120-120
2. Unstacker BU 120-120
3. Horizontal box filler AHF 100
4. Stacker BS 120-120

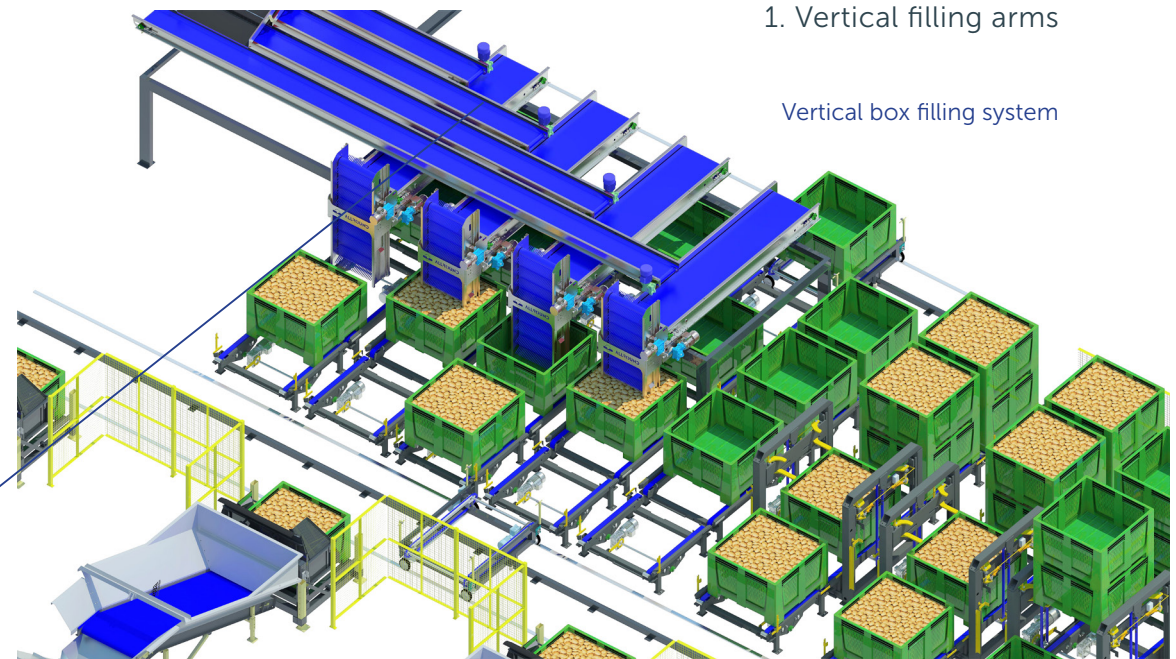
Vertical and horizontal box filling system depends on:

- Box sizes
- Space available

- Box unstacking, box tipping & box stacking
- Fully automatic box filling and transportation system
- Provides a logistic advantage by reducing forklift movements
- Very gentle filling of the boxes no leveling needed
- Central point to collect the boxes
- A complete Track & Trace system can be included
- Optionally with box unstacker so more boxes can be placed in one at a time
- Optionally with scale to weigh the boxes
- Can be added to existing lines
- Smaller footprint

## MACHINERY LIST

1. Vertical filling arms

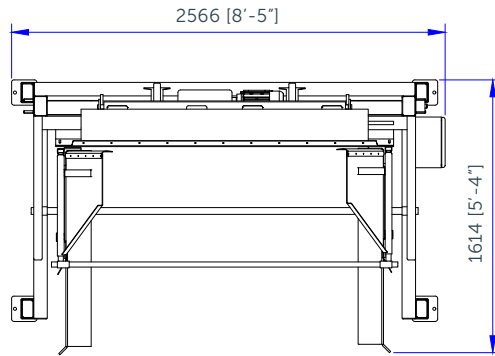


Vertikales Kistenbefüllungssystem

# BOX TIPPERS

## BOX TIPPER

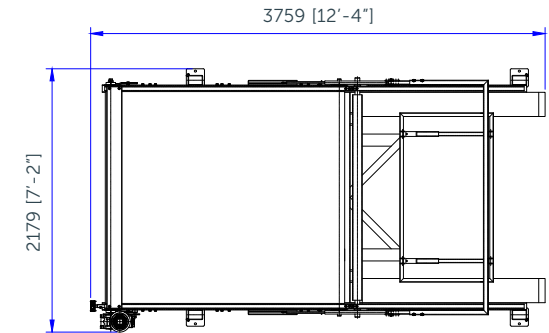
- To tip boxes into a hopper or chute
- Max. box width: 2500 mm
- Models available: Z 160, Z 180, Z 250



Box Tipper Z 180

## CABBAGE BOX TIPPER

- For tipping cabbage onto the line with no drop
- Can also be used for other products



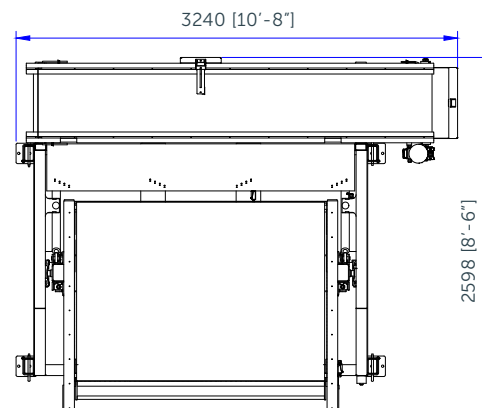
Cabbage Box Tipper ZC 160

## DOSING BOX TIPPER

- Models available: ZD 120, ZD 150, ZD 160, ZD 180.
- Constant adjustable flow of product.
- No drop height

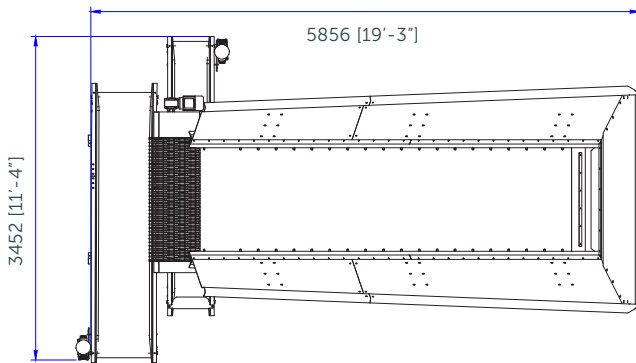


Dosing Box tipper ZD 160





Hopper B 120-450



## HOPPERS

- Gentle feeding of the line
- Suitable for boxes and big-bags
- Models: B 100-300, B 120-450, B 160-500, B 230-800

HOPPERS CONTENT		
	TOTAL CONTENT (M <sup>3</sup> )	EFFECTIVE CONTENT (M <sup>3</sup> )
B 100 - 300	2	1.5
B 120 - 450	5.5	3.5
B 160 - 500	11	7
B 230 - 800	20	14



Spiral Roller Set



Blank Roller Set

## FINGER ROLLER SET

- Removes a lot of dirt from the product
- Star shaped rubber rollers are very product friendly

Finger roller set



## ADJUSTABLE ROLLER SET

- Adjustable Roller Sets for pre-cleaning and pre-grading
- Available with stainless steel rollers, spiral rollers and diabolic rollers
- Can be mounted on all types of Allround Hoppers
- Models: VR 160-6, VD 160-6, VS 160-6, VR 240-6, VD 240-6, VS 240-6





Receiving Hopper ARH 160-500-200



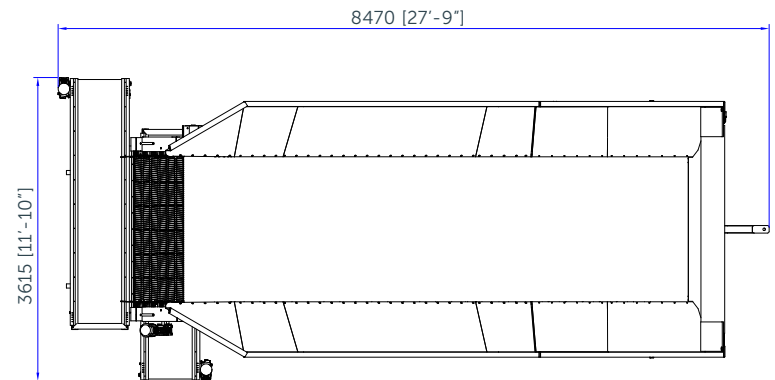
Receiving Hopper ARH 160-500

## RECEIVING HOPPERS

- They are suitable for dump trailers because of the flat-bottom.
- Best value-for-money Receiving Hoppers
- Models: ARH 160-500, ARH 240-600

### Options:

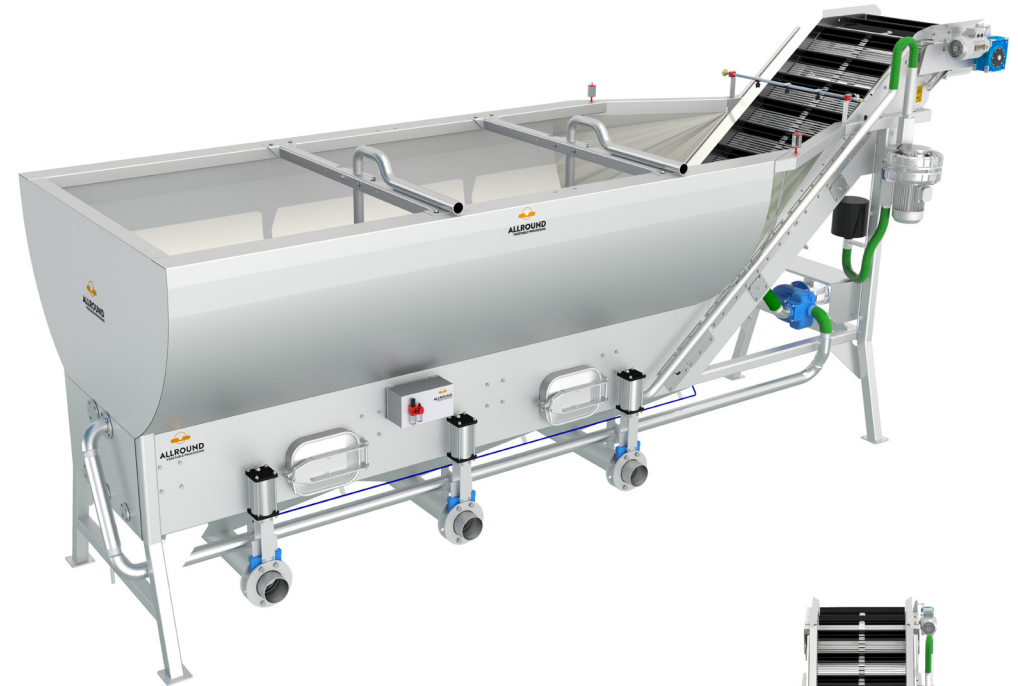
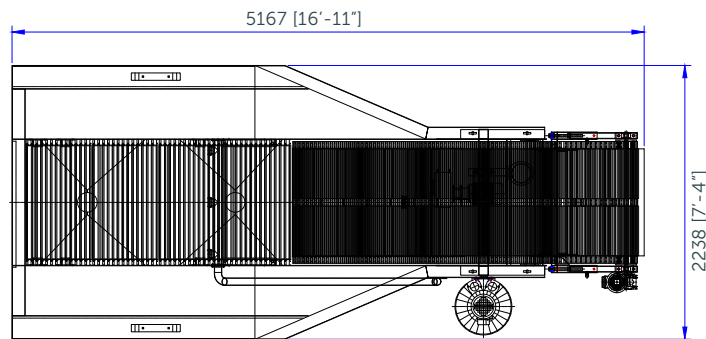
- Pre-grading and pre-cleaning
- Flat bottom part for side-tipping trailers



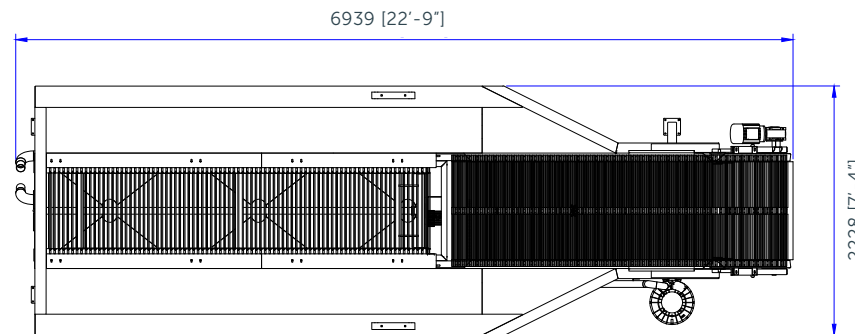
# WET HOPPERS



Wet hopper J 2T



Wet hopper J 4T



## WET HOPPERS

- Pre-soaking method for product from heavy soil
- Water with air forced through for agitation

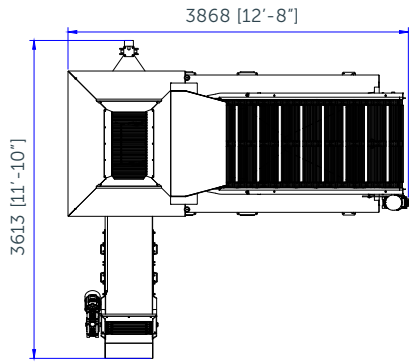
### Optional:

- Integrated Destoner
- Models available with 6 and 12 m<sup>3</sup> content
- Models: J 2T, J 4T

# DESTONERS, SKIN SEPARATOR



Destoner D 150

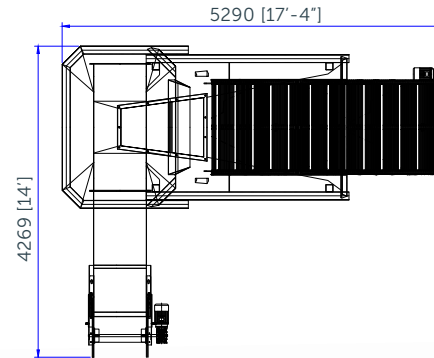


## DESTONERS

- To remove stones and clods from your products!
- Capacity: 25 - 80 tons / hour
- Models: D 110, D 150, D 200

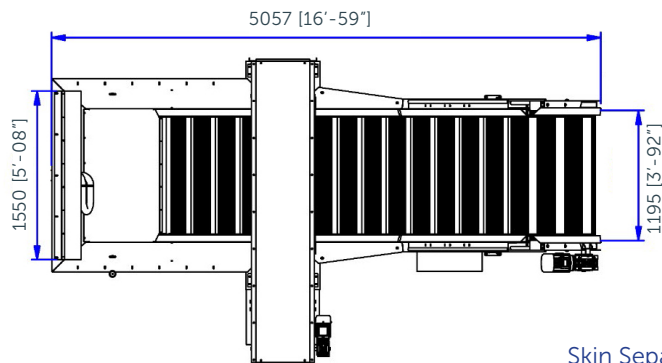


Destoner D 200



## SKIN SEPARATORS

- To remove floating waste from your product
- Capacity: 25 - 80 tons / hour
- Models: SK 100, SK 160



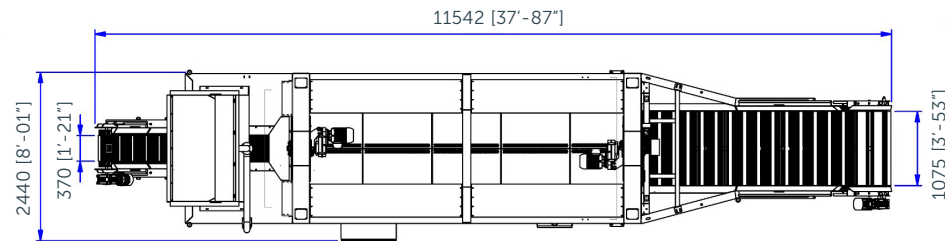
Skin Separator SK 160



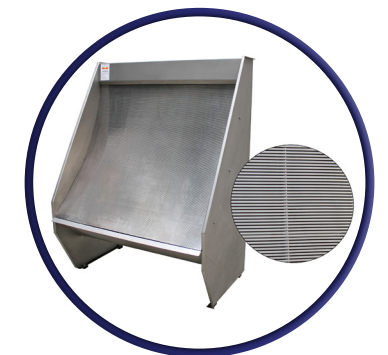
Washing Machine PD 500



Optional brush and pintle rubber



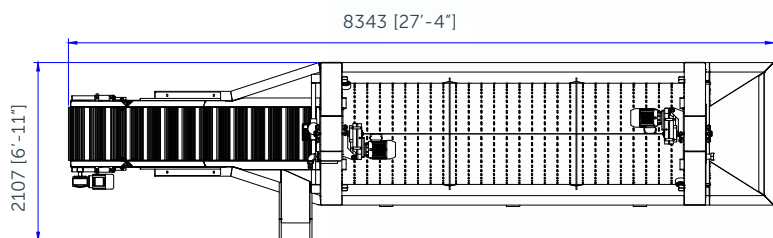
DRUM LENGTH X Ø	170X80 CM	300X100 CM	450X120 CM	500X160 CM	600X190 CM
	170 TYPE	300 TYPE	450 TYPE	500 TYPE	600 TYPE
Drum content	0.83 m <sup>3</sup>	2.36 m <sup>3</sup>	5.09 m <sup>3</sup>	10.05 m <sup>3</sup>	17 m <sup>3</sup>
C-type (carrots only)	Available	Available	Available	X	X
U-type	Available	Available	Available	Available	Available
UK-type	X	Available	Available	Available	X
PD-type	X	Available	Available	Available	X
PDK-type	X	Available	Available	Available	X



Optional Sieve Bow for Washing Machine

### ESTIMATED CAPACITIES OF THE WASHING MACHINES

	170 TYPE	300 TYPE	450 TYPE	500 TYPE	600 TYPE
Carrots	1 - 2	2 - 3	4 - 8	8 - 16	22 - 25
Baby carrots	1 - 1.5	2 - 3	3 - 6	6 - 12	10 - 20
Red beet	1.5 - 2	2 - 3	5 - 9	15 - 17	20 - 23
Potatoes	2 - 3	5 - 7	12 - 17	25 - 30	32 - 40
Parsnips	1 - 1.5	2 - 3	4 - 6	7 - 11	10 - 15
Celeriac	2	2.5 - 3.5	6 - 10	8 - 15	12 - 20



Washing Machine U 450

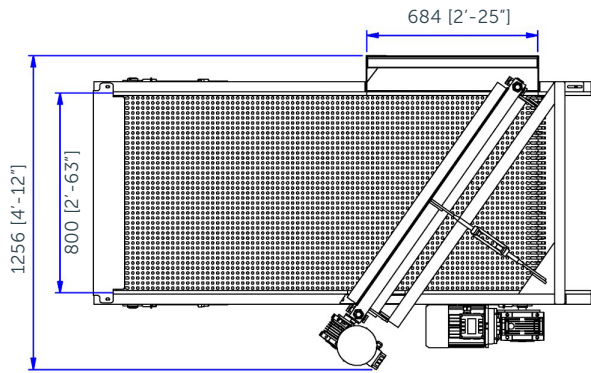
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WASHING MACHINES	C-TYPE (CARROTS ONLY)	U - TYPE	UK - TYPE	PD - TYPE	PDK - TYPE
Recirculation system	-	Option	Option	Option	Option
Recirculation system 'dirty washing'	-	Option	Option	Option	Option
Recirculation system 'sieve bow'	-	Option	Option	Option	Option
Brush in the drum	Option	Option	Option	Option	Option
Pintle rubber in the drum	Option	Option	Option	Option	Option
Water level adjustable	-	Standard	Standard	Standard	Standard
Automatic water level adjustment	-	Option	Option	Option	Option
Integrated Destoner	-	-	-	Standard	Standard
Stainless steel drum	Standard	Standard	Standard	Standard	Standard

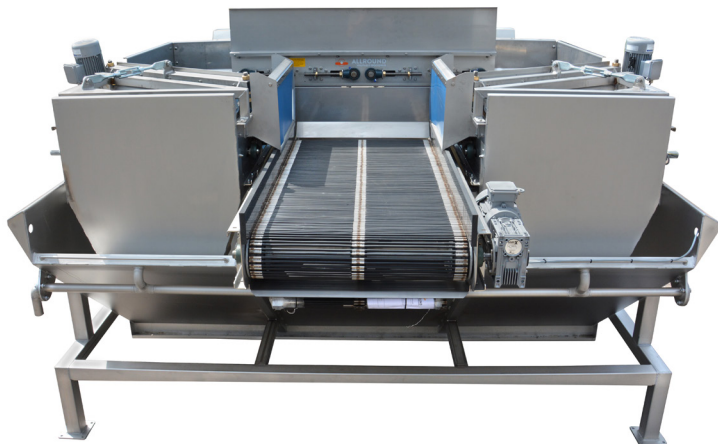
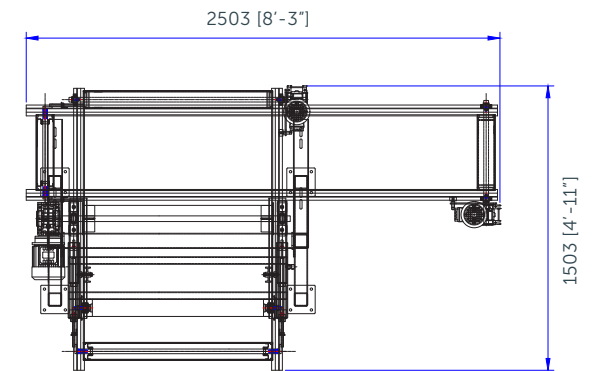
# LEAF SEPARATOR

## LEAF SEPARATOR

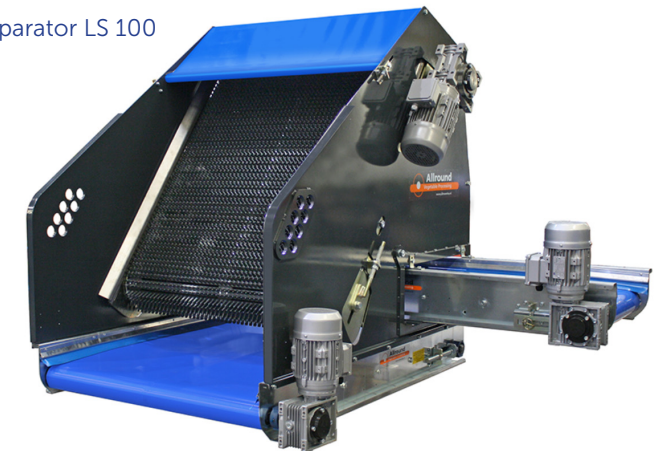
- Hedgehog belt removes leaves from the product
- Models: LS 60, LS 80, LS 100, LSH 200-80



Leaf separator LSH 200-80



Leaf separator LS 100



## POLISHERS

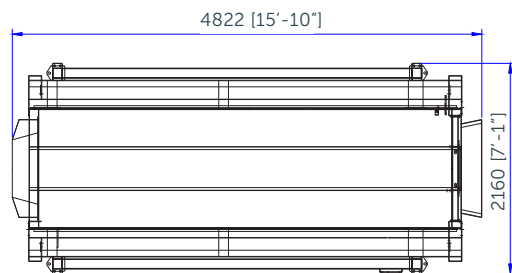
- Half-round and round drum types available
- Brushes available: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70
- Brushes and shafts are easy to mount and dismount

### Options:

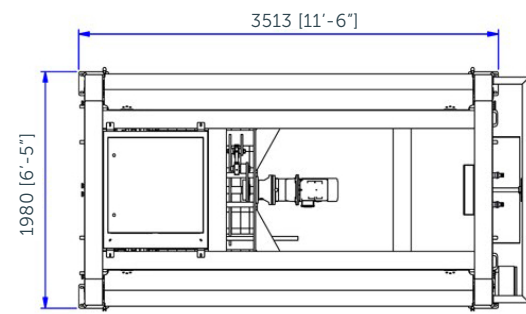
- Legs
- Water cleaning system
- Water recirculation system
- Stainless steel



Polisher TD 350-18



Polisher RM 300-8



	RM 300-8	TD 250-12	TD 300-14	TD 350-18
Brush segments	8 segments	12 segments	14 segments	18 segments
Drum length	3000 mm	2500 mm	3000 mm	3500 mm
Potatoes	8 ton - 10 ton	10 ton - 14 ton	15 ton - 17 ton	25 ton
Carrots	3 ton - 5 ton	6 ton - 8 ton	8 ton - 10 ton	15 ton - 20 ton
Baby carrots	2 ton - 4 ton	5 ton - 7 ton	6 ton - 8 ton	10 ton - 15 ton

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

# INSPECTION UNITS

Inspection belt IB 500-50

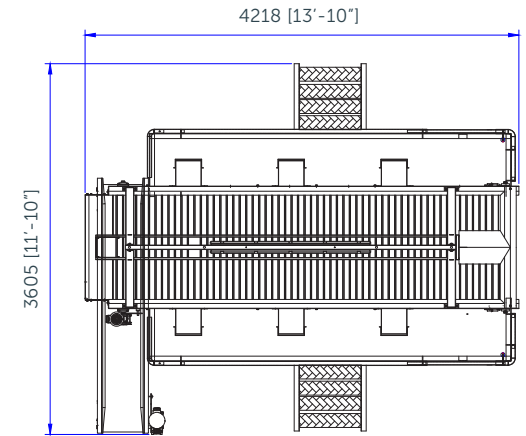


## INSPECTION UNITS

- Roller inspection table and inspection belts available

### Options

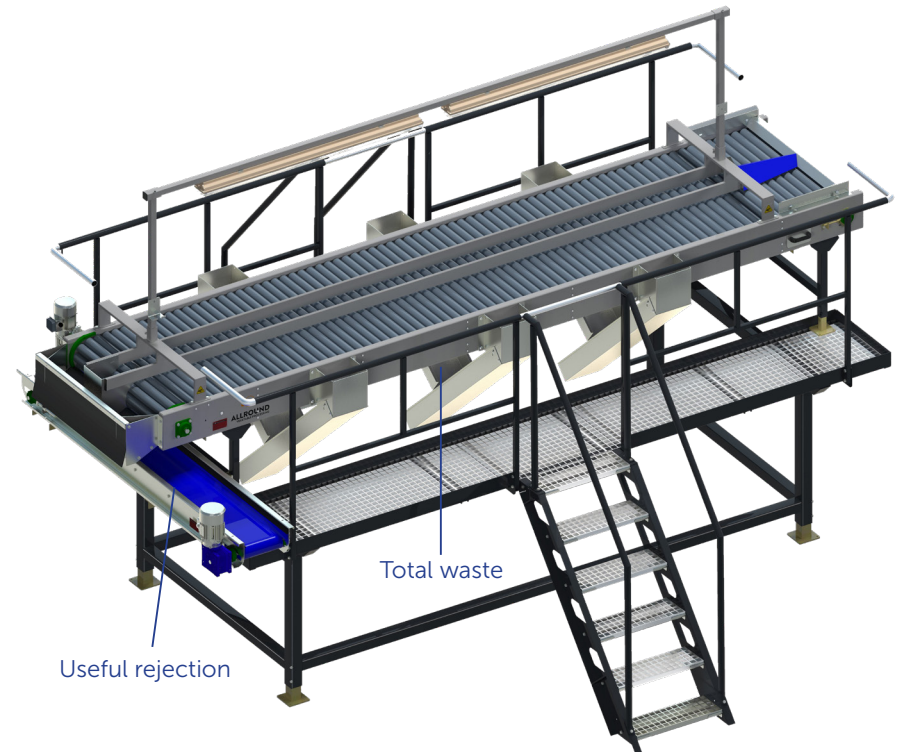
- Single platform
- Double platform
- Frequency inverter
- Aisle in the middle
- Waste belt
- Waste chute
- Adjust roller speed
- Stainless steel



Inspection unit RI 400-100



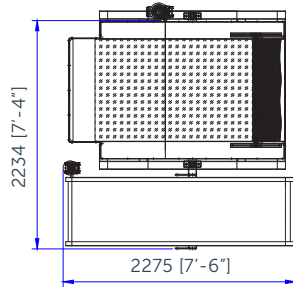
Sitting Inspection





# BRUSH, DRYER, CHUNK/LENGTH GRADER

Potato brush BR 100-13



POTATO BRUSH	
BR 60-9	6 tons / hour
BR 100-13	10 tons / hour
BR 120-15	15 tons / hour

Potato brush BR 120-15



## POTATO BRUSH

- Soft brush for cleaning dry dirt
- Optional by-pass and dirt belt
- Models: BR 60-9, BR 100-13, BR 120-15

## CHUNK / LENGTH GRADER

- To separate broken carrots
- Grades carrots in two or three lengths + oversize
- Saves at least 1 - 2 people at the inspection table
- W-shaped infeed bed to spread the carrots on the machine
- Opening is adjustable
- Models: L 100, L 120, L 150, L180, L 200

### Option:

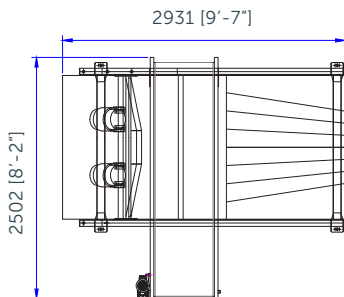
- Waste belt

## POTATO DRYER

- Felt dryer for potatoes
- Optional by-pass belt
- Models: DR 60-10, DR 100-12, DR 140-17



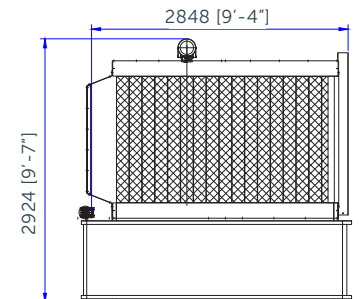
Chunk grader L 150-2



CHUNK/LENGTH	GRADER CAPACITY
L 100	2 - 3 tons / hour
L 120	3 - 5 tons / hour
L 150	4 - 7 tons / hour
L 180	6 - 9 tons / hour
L 200	8 - 11 tons / hour



Potato dryer DR 140-17

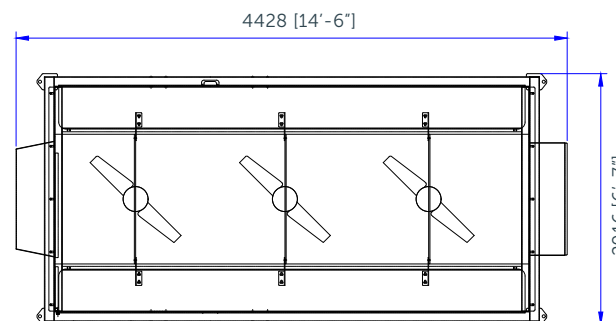
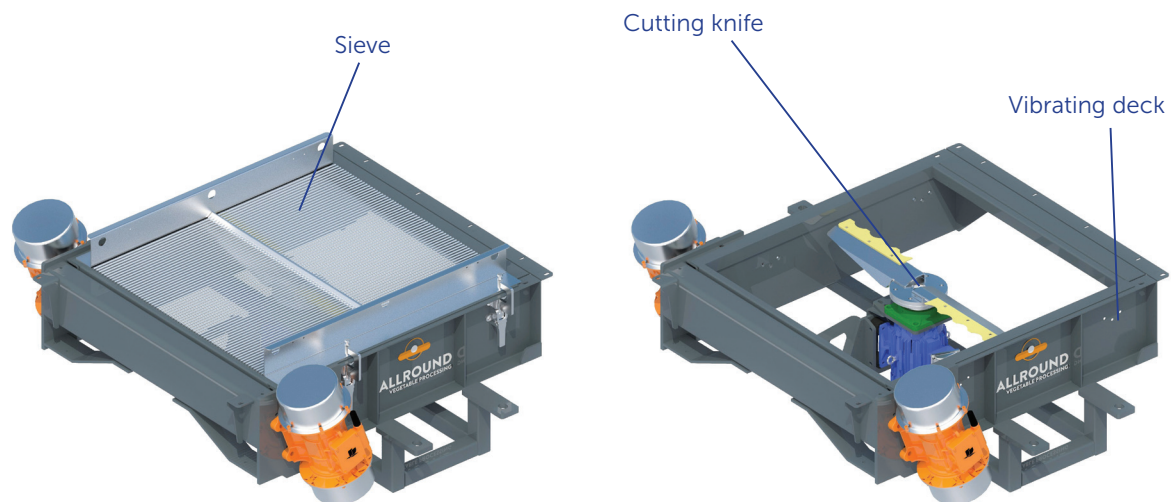


POTATO DRYER	
DR 60-10	6 tons / hour
DR 100-12	10 tons / hour
DR 140-17	20 tons / hour

# ONION TOPPERS & PREGRADERS



Onion Topper A 3



## ONION TOPPERS

- Air circulation caused by a propeller in the machine drags the onion tops through a sieve
- The knife on the propeller cuts the tops of the onion
- Waste is collected on a waste belt
- New adjustable blade height control
- One, two and three blade models

### Options:

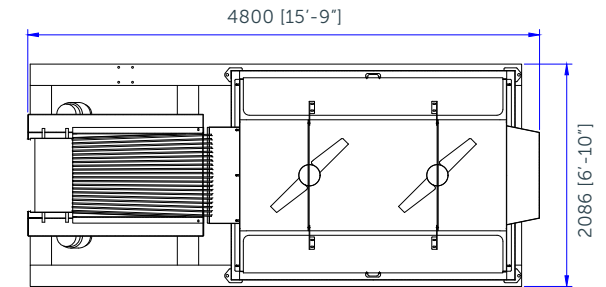
- New design with hydraulic open-top hatch for easy changing of sieves

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

ONION TOPPERS	NUMBER OF PROPELLORS	WASTE BELT	DUST HOOD	ON WHEELS	CAPACITY ONIONS	CAPACITY SET-ONIONS
A 1	1	Standard	Standard	Option	3 - 4 tons / hour	2 tons / hour
A 1+pregrader	1	Standard	Standard	-	3 - 4 tons / hour	2 tons / hour
A 2	2	Standard	Standard	-	6 - 8 tons / hour	4 tons / hour
A 2+pregrader	2	Standard	Standard	-	6 - 8 tons / hour	4 tons / hour
A 3	3	Standard	Standard	-	9 - 12 tons / hour	6 tons / hour
A 3+pregrader	3	Standard	Standard	-	9 - 12 tons / hour	6 tons / hour

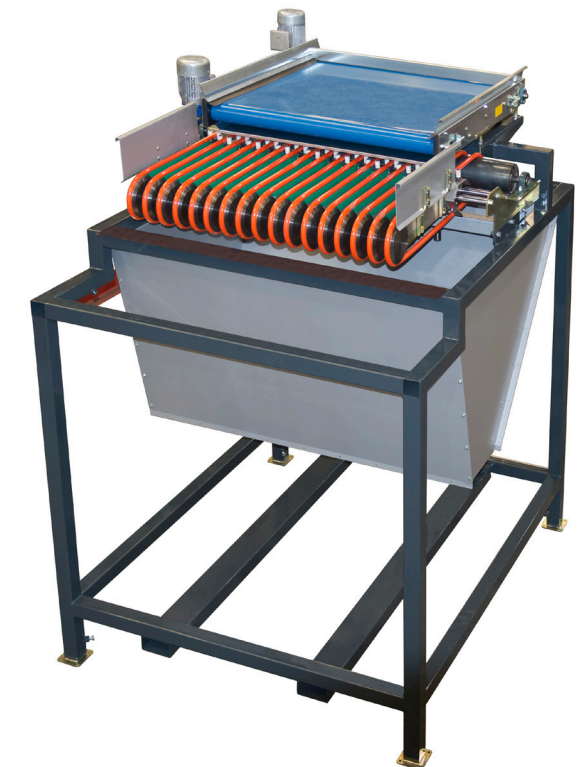
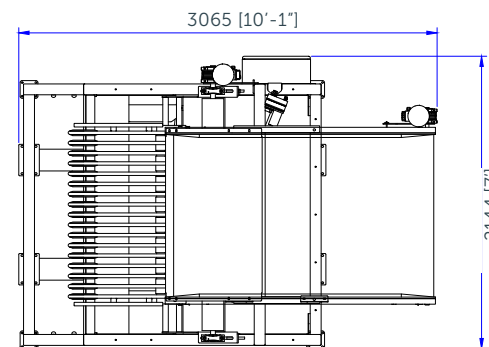


Onion Topper A 2 + Pregrader



## STRING GRADER

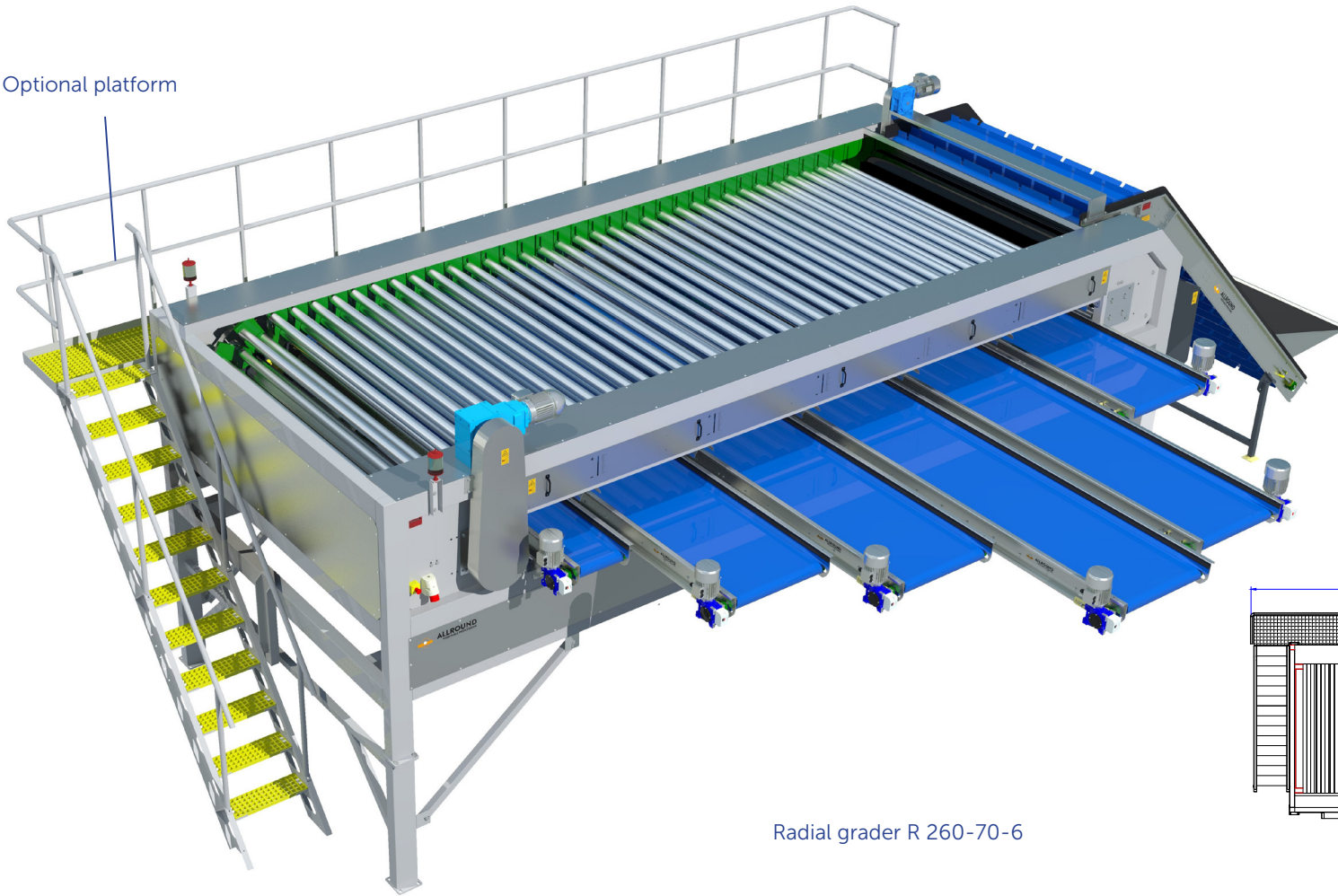
- High capacity pre grader
- To remove stones or under size
- Size-range 40 mm to 100 mm.
- Ideal for removing stones and undersize product prior to topping
- Great for separating oversize product
- Grading size set electronically
- Extremely gentle



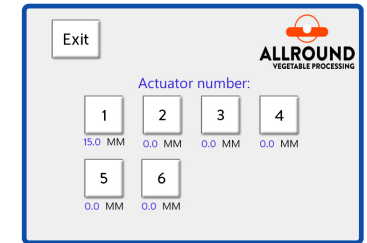
String grader PS 70-17

# RADIAL GRADERS

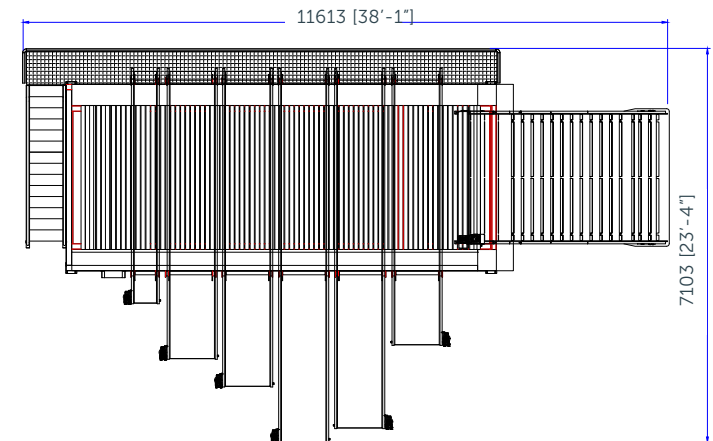
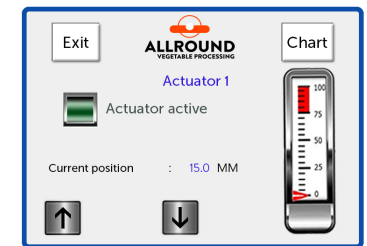
Optional platform



Radial grader R 260-70-6

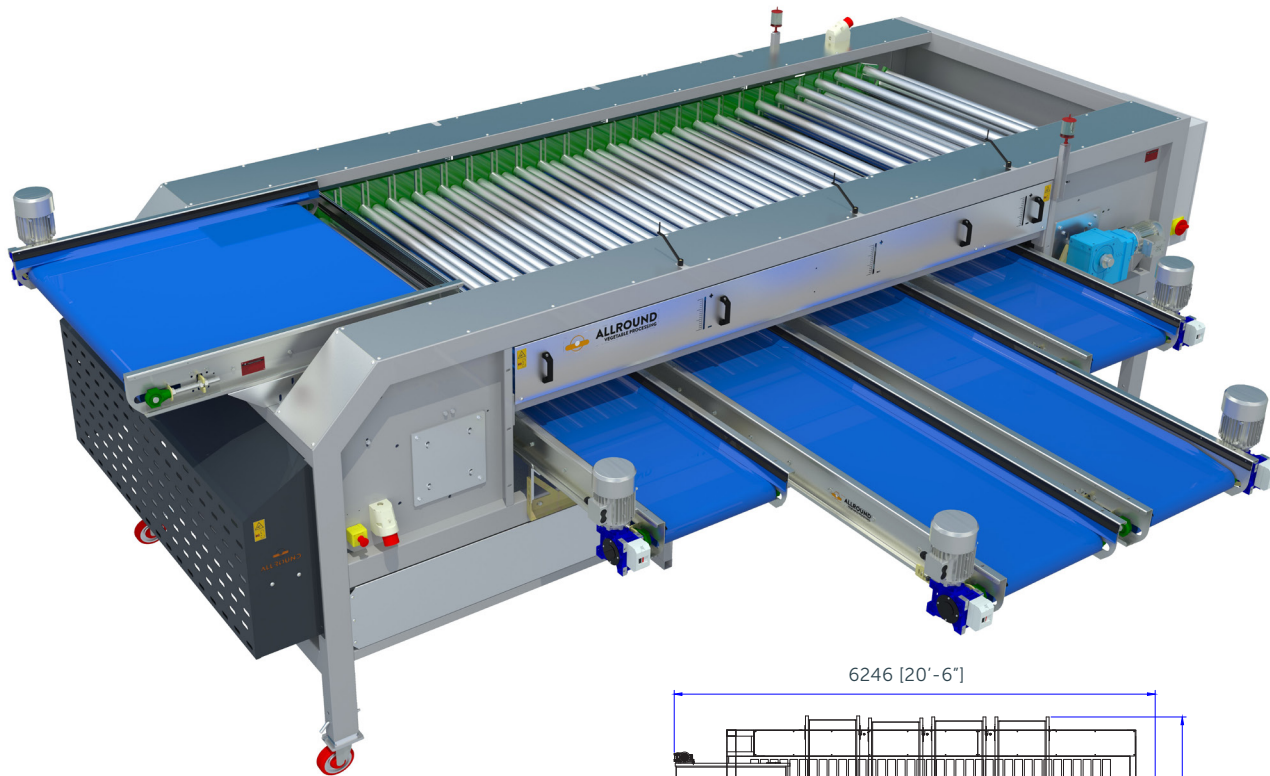


Automatic size settings

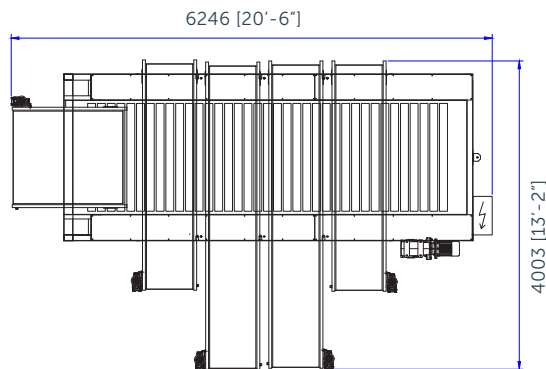


## GRADING SIZE MIN - MAX

Roll diameter	Pitch 63	Pitch 76.2	Pitch 80	Pitch 90	Pitch 100	Pitch 110	Pitch 125
57 mm	6 - 69 mm	-	-	-	-	-	-
70 mm	-	6.2 - 82.4 mm	10 - 90 mm	20 - 110 mm	30 - 130 mm	40 - 150 mm	-
76 mm	-	-	-	14 - 104 mm	-	-	-
84 mm	-	-	-	-	16 - 116 mm	-	40 - 165 mm



Radial grader R 150-70-4



## RADIAL GRADERS

Allround Radial Graders are the most effective way of grading round and root-shaped product. The Radial Grader separates the smallest size first. With the receding rollers the product is not damaged during grading. Furthermore, the system gives very high capacities.

### Options

- Brush
- Electrical size adjustment
- Fully stainless steel



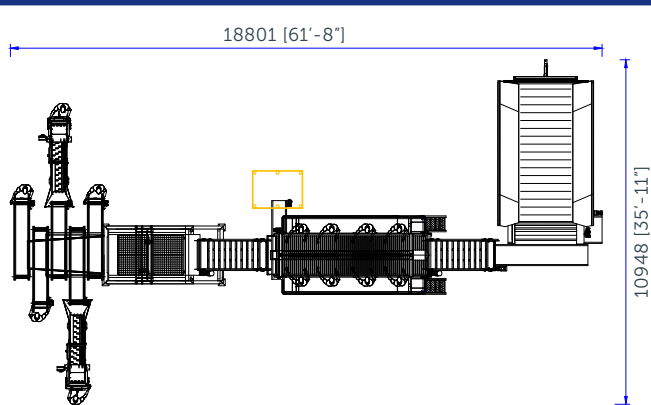
Optional Brush

### ESTIMATED MAXIMUM CAPACITIES OF THE RADIAL GRADERS

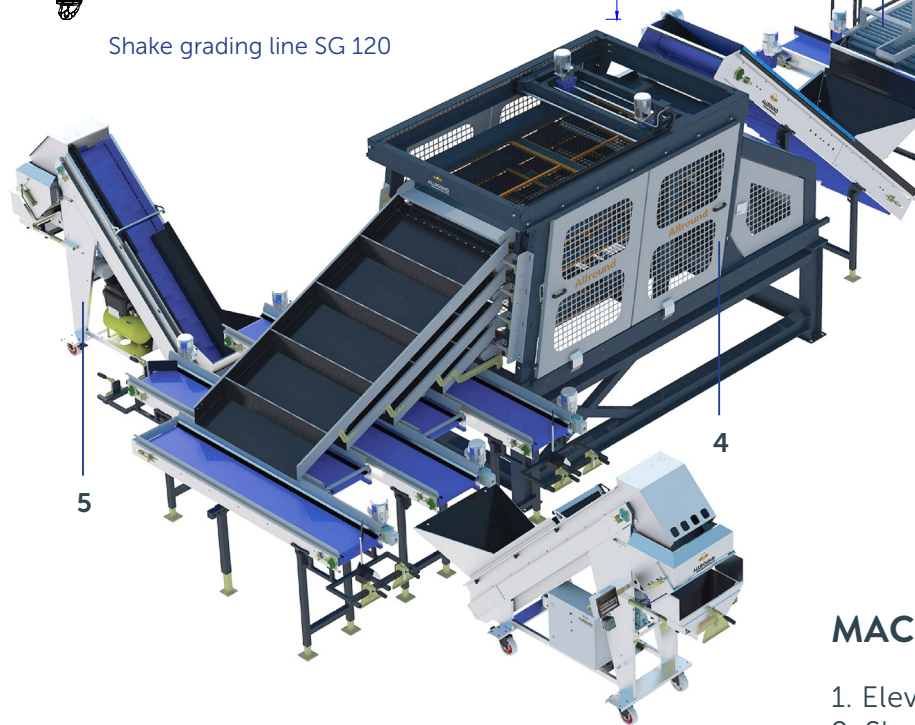
	R 80 TYPE	R 120 TYPE	R 150 TYPE	R 180 TYPE	R 200 TYPE	R 260 TYPE
Carrots	3 - 4	8	14	20	25	35
Baby carrots	3 - 4	5 - 8	10 - 12	14 - 16	18 - 22	25 - 30
Red beet	5 - 6	8 - 10	14 - 16	22 - 30	35	45
Potatoes	6 - 7	8 - 10	15 - 18	22 - 30	35 - 40	45 - 50
Parsnips	2 - 3	3 - 4	6 - 8	12	18	24
Onions	6 - 7	8 - 10	15 - 18	22 - 30	35 - 40	60
Set onions	3 - 5	6 - 8	10 - 12	14 - 16	18 - 22	25 - 30

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

# SHAKE GRADING / WEB GRADING LINES



Shake grading line SG 120



## MACHINERY LIST

1. Hopper ARH 160-500
2. Elevator EL 300-90
3. Roller inspection table RI 120-500
4. Shake grader SG 120-5
5. Automatic weighing AW 50-2

## MACHINERY LIST

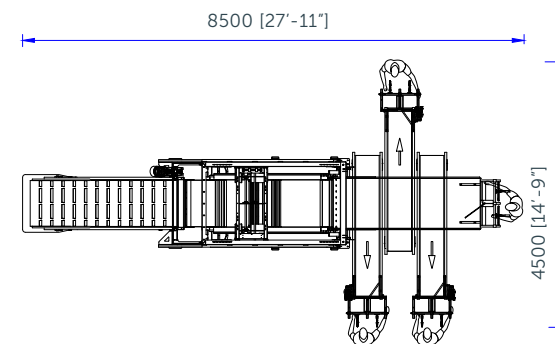
1. Elevator EL 350-60
2. Shake grader SG 80-4

PRODUCT	SG 80 SERIES	SG 120 SERIES	SG 160 SERIES
Potatoes	10 - 15 tons / hour	20 - 30 tons / hour	40 - 45 tons / hour
Onions	8 - 10 tons / hour	20 - 25 tons / hour	30 - 35 tons / hour

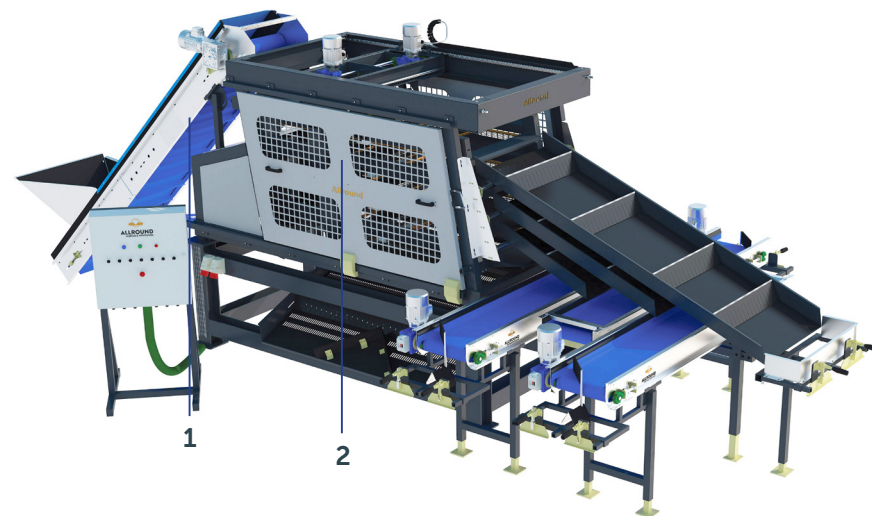
All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.

## SHAKE GRADER

- Capacity up to 30 tons / hour
- Grades on the square size of the product
- Shake Grader separates the biggest size first
- Models: SG 60-4, SG 80-4, SG 120-5

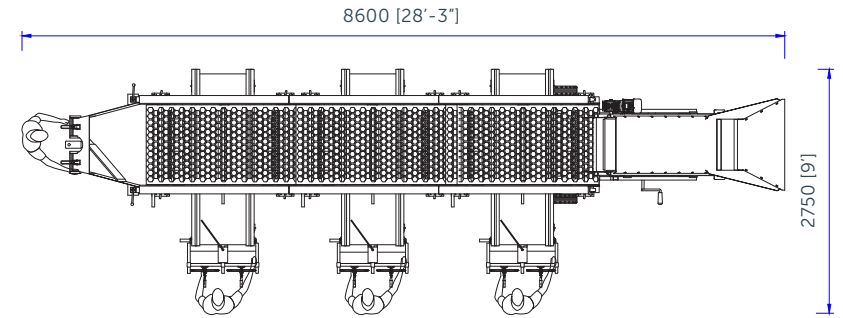


Shake grading line SG 80 (1)

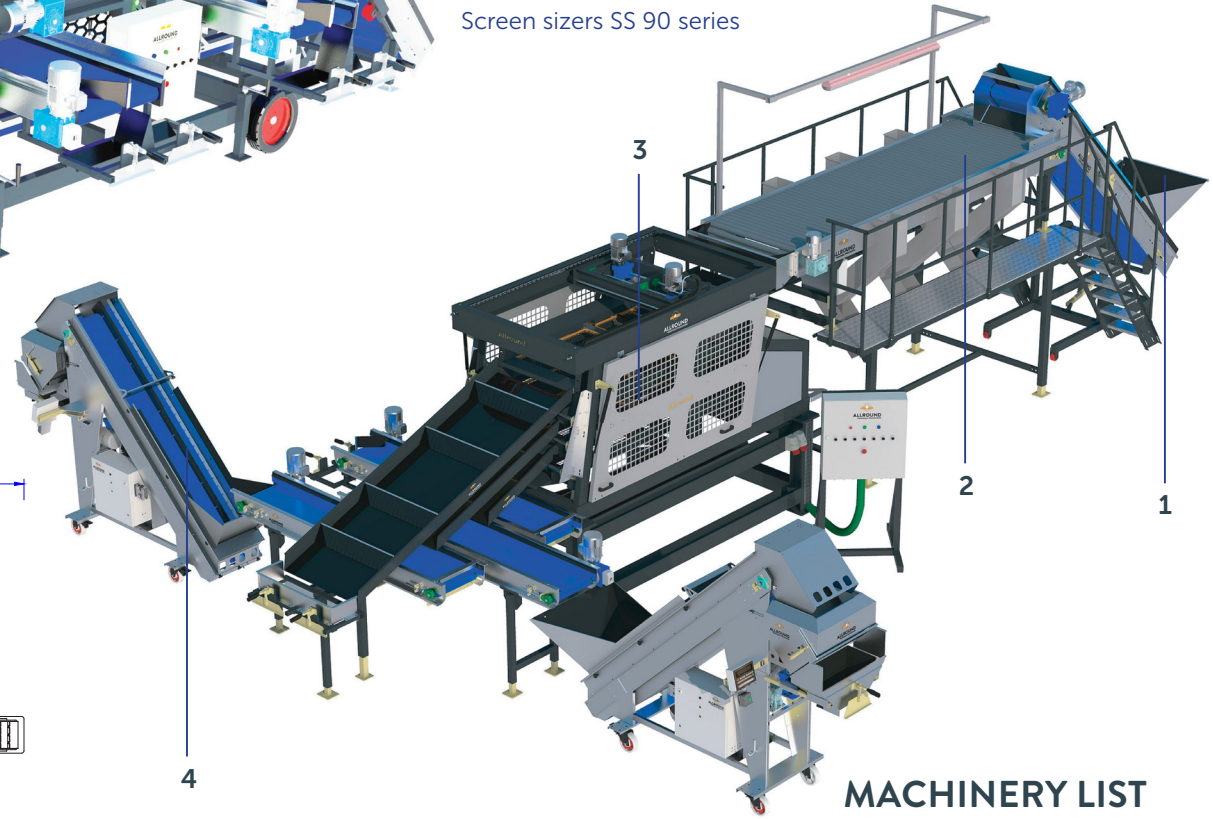
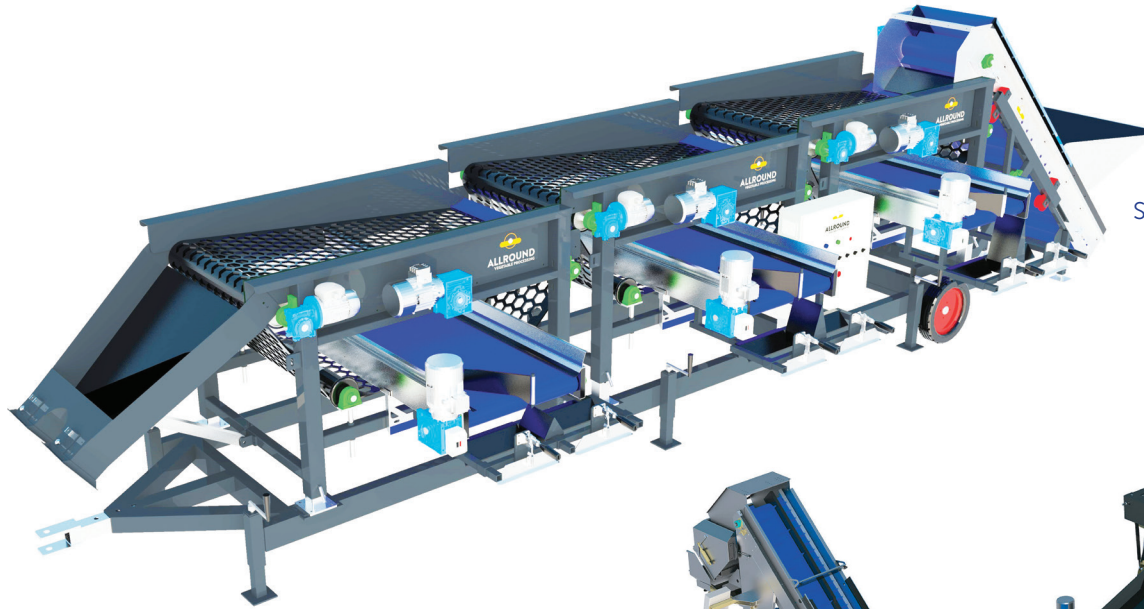


PRODUCT	SS 90 SERIES	SS 120 SERIES	SS 180 SERIES
Potatoes	8 - 10 tons / hour	12 - 14 tons / hour	18 - 20 tons / hour
Onions	6 - 8 tons / hour	10 - 12 tons / hour	15 - 18 tons / hour

All capacities are indications based on experience from the past and depend on the agro climatic, soil and logistic conditions of the product, Allround VP does not guarantee any of these.



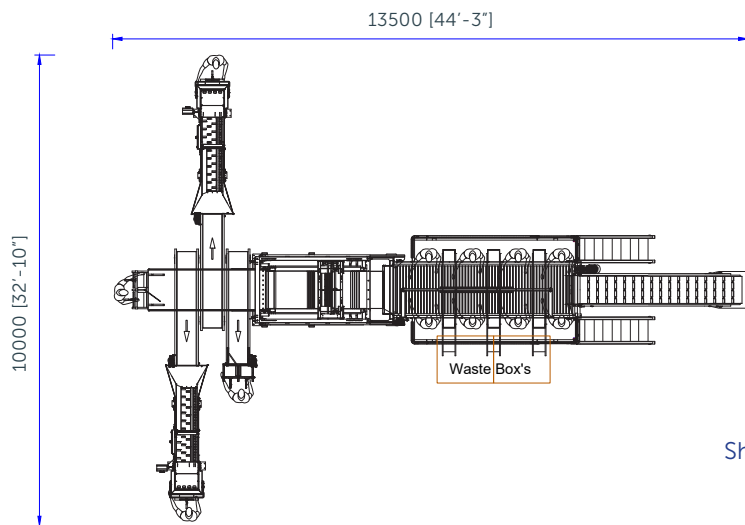
Screen sizers SS 90 series



### MACHINERY LIST

1. Elevator EL 400-60
2. Roller inspection table RI 100-400
3. Shake grader SG 80-4
4. Automatic weighing AW 50-2

Shake grading line SG 80 (2)



# HYDROCOOLERS



Hydrocooler HC 300

Hydrocoolers cool down carrots fast by spraying ice cold water over the produce to mostly 3-4 degrees Celsius right before the product is cold stored or transported.

Which machine you will need completely depends on the temperature gap and required capacity per hour. The formula is as follows:

$$(\Delta T/^{\circ}\text{C} \times \text{tons product/hour}) \times 1.36 = \text{kW}$$

**FOR SPECIFIC ADVICE PLEASE CONTACT US.**

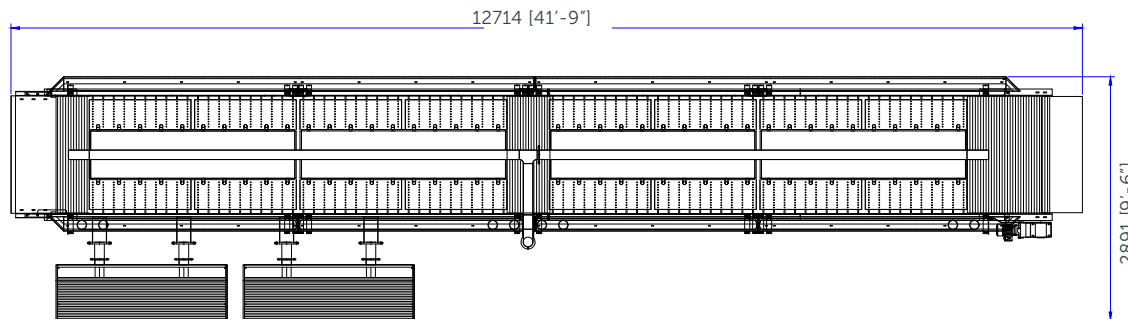
For example:

Incoming temperature: 16° C

Outgoing temperature: 4° C

Tons per hour: 5 t/h

$(16^{\circ}-4^{\circ}) \times 5 \times 1,36 = 81,6 \text{ kW}$  needed



Sieve bow



# STAND ALONE ALLROUND CONVEYORS

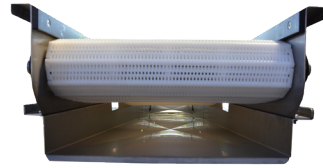
- Custom lengths
- Flat Transport belts
- Incline conveyors
- Adjustable legs for various heights and angle
- Swan-neck style in custom measurements
- Food-grade belts
- One-piece welded belts
- Modular belts (Intralox)

## Options:

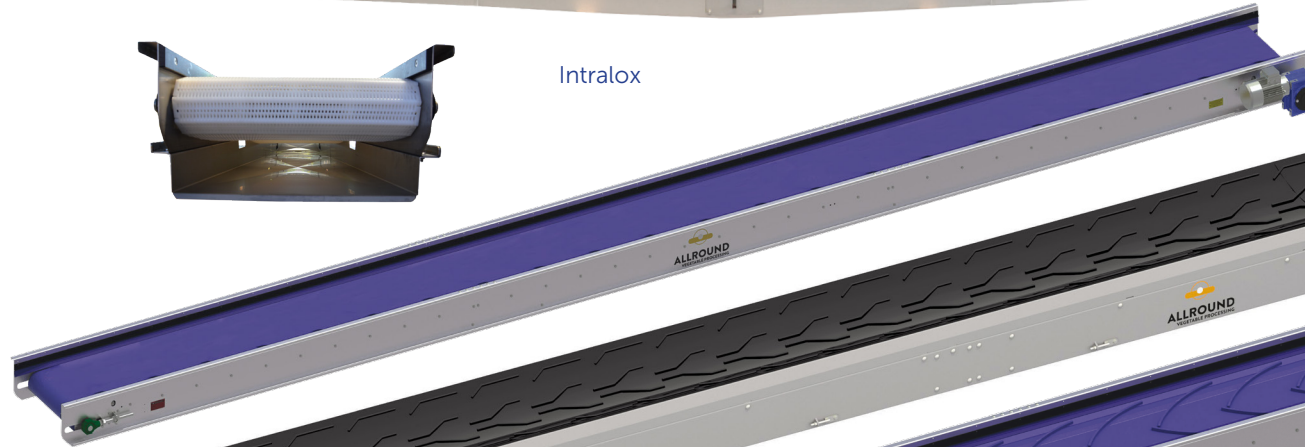
- Stainless steel
- Frequency inverter



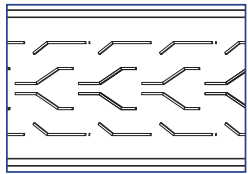
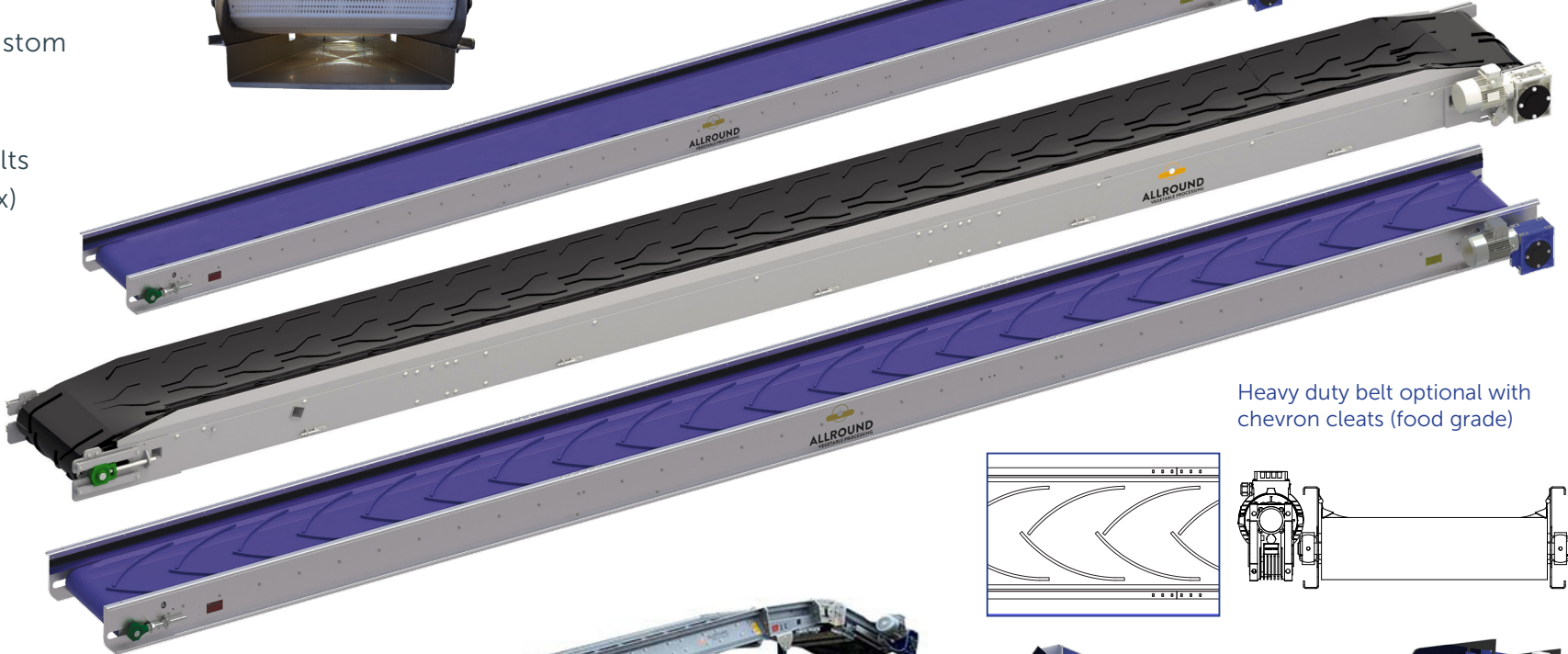
Flat transport belt



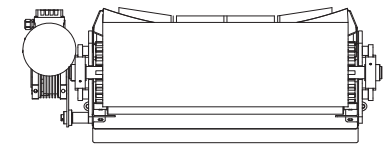
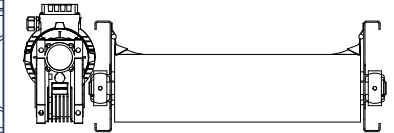
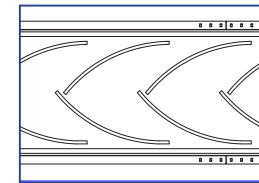
Intralox



Heavy duty belt optional with chevron cleats (food grade)



Trough belt



Trough belt



Elevator - straight



Elevator - swan neck

# TIPPER-HOPPERS, EVEN-FLOW HOPPERS



Storage hopper - Box tipper SHB 160-1.5



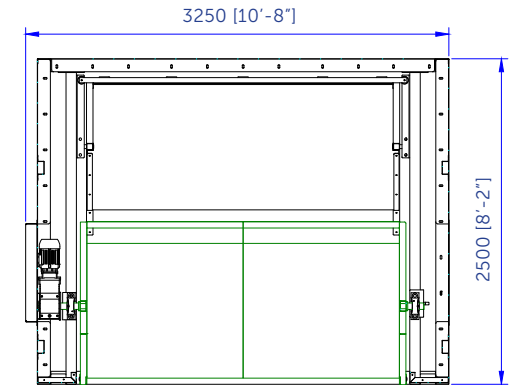
Also suitable for big/jumbo bags

## STORAGE HOPPER - BOX TIPPER COMBINATIONS

- Very space-efficient solutions to feed a line
- Suitable for potatoes, onions and red beet
- Models: SHB 160-1.5, SHB 160-3, SHB 180-3.5, SHB 180-7

### Options:

- Dust hood
- Remote control
- Stainless steel
- Big/Jumbo bags

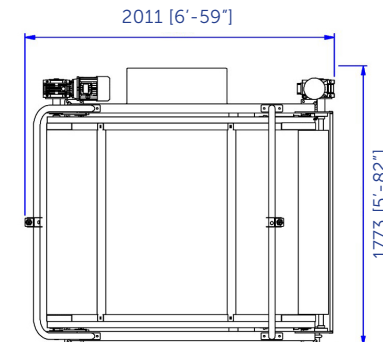


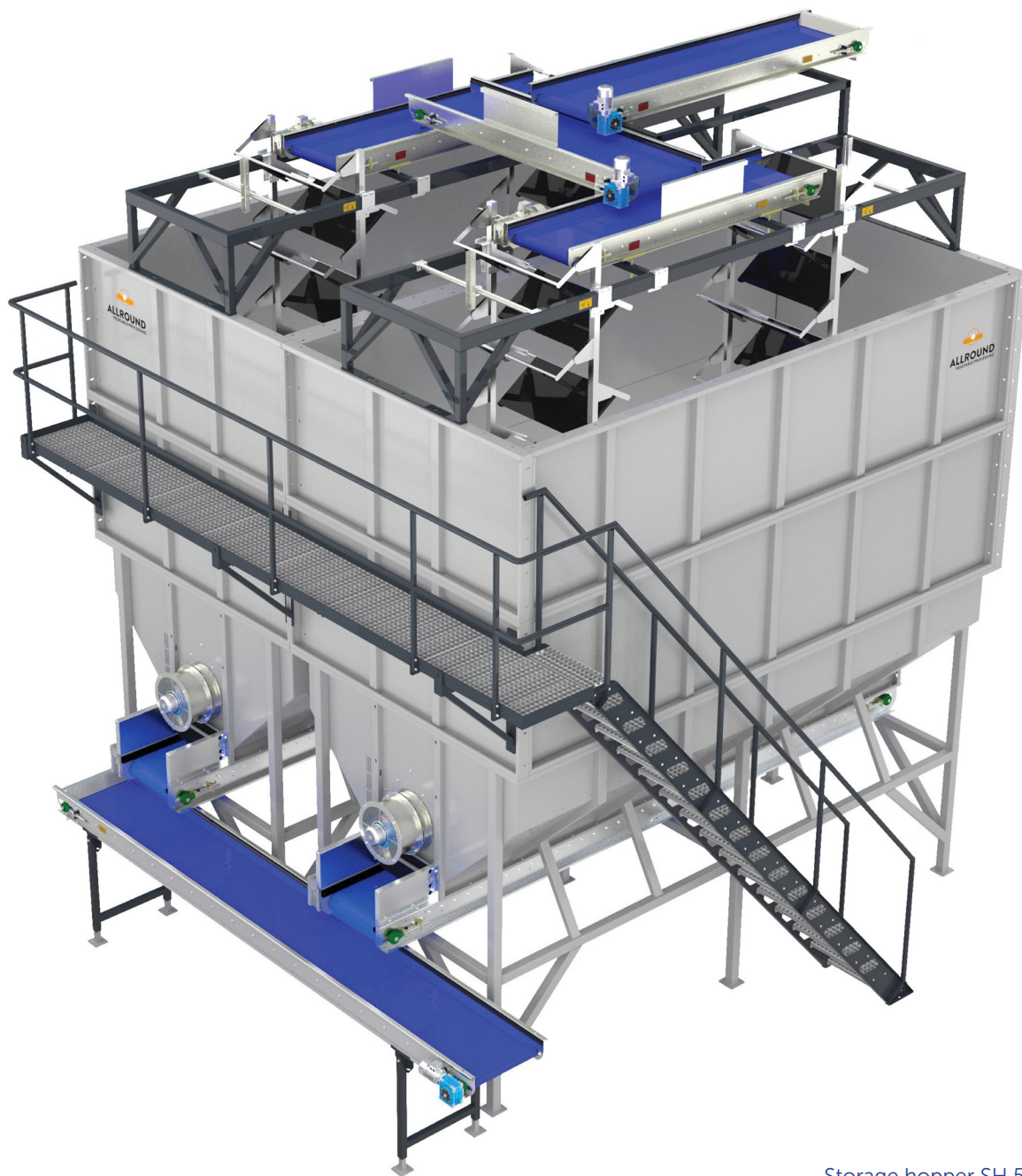
## EVEN-FLOW HOPPERS

- To ensure an even flow in the line
- With lowering belt for buffering
- Models: EF 60-0.4, EF 100-0.7, EF 120-0.9
- Other models on request



Even-Flow hopper EF 120-0.9



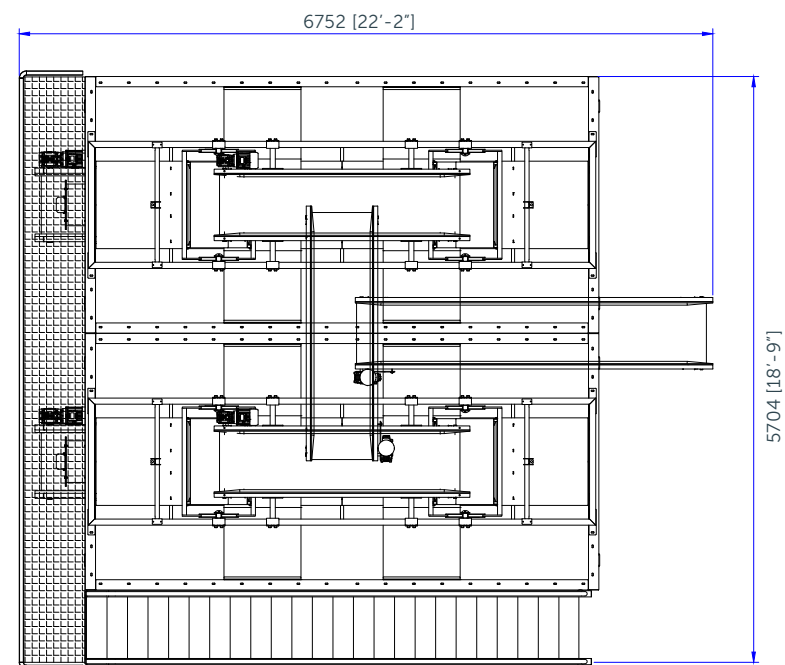


## STORAGE HOPPERS

- For temporary storage of product
- Suitable for potatoes, onions and red beet
- Models: SH 25-25-4, SH 25-25-10, SH 25-25-16, SH 50-25-8, SH 50-25-20, SH 50-25-32

### Options:

- Ventilator
- Soft landing
- CCTV camera
- Platform

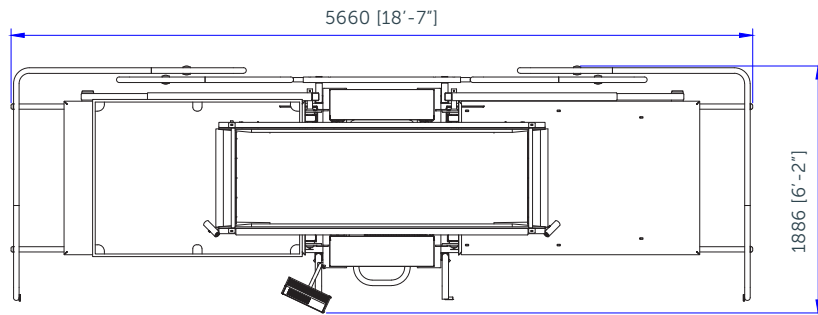


Storage hopper SH 50-25-20

## HORIZONTAL BOX FILLER

- Minimum product damage
- Pre set filling programmes
- For each 'product' and size suitable

Horizontal box filler HBF 75

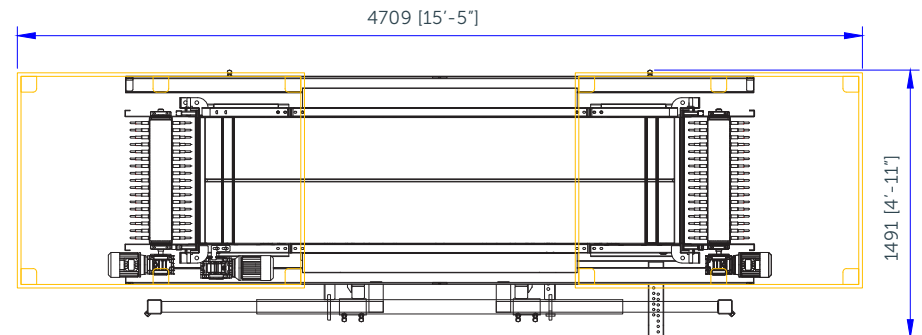


## VERTICAL BOX/BIG BAG FILLER

- Automatic box filler
- Belts lower into the box for gentle filling
- Also suitable for big-bags



Vertical box filler VBF 70



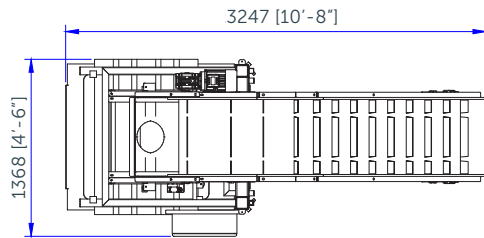
# BIG-BAG FILLER

## BIG-BAG FILLER

- Zig-zag chutes for gentle filling
- Chutes automatically retracts from the bag

### Options:

- Weighing system
- Single and Double filling system
- Models: BBF 01, BBF 02



Big-Bag filler BBF 01



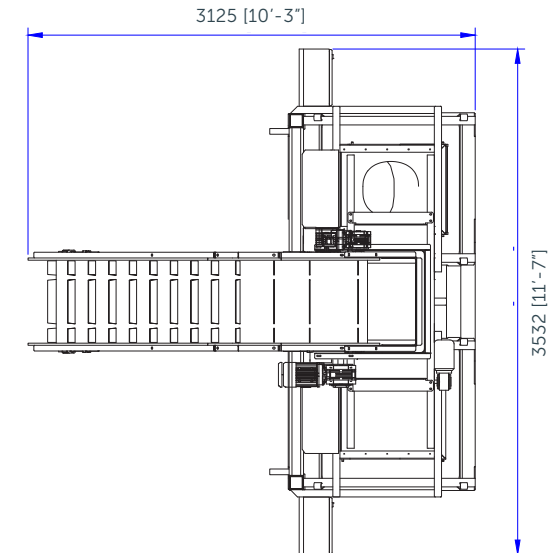
Double big bag filler



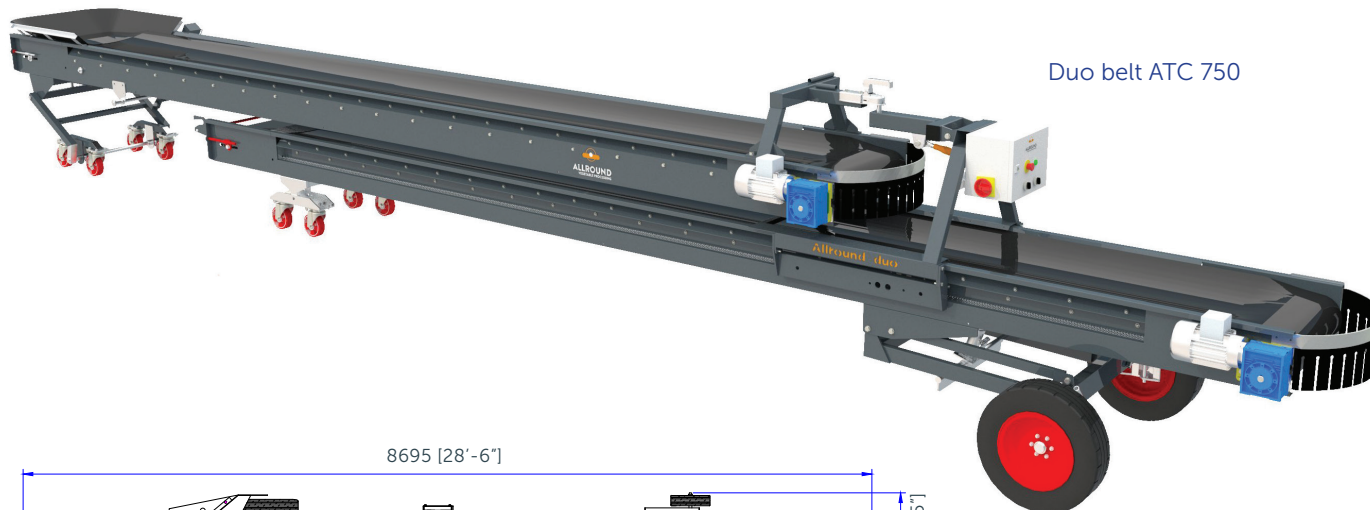
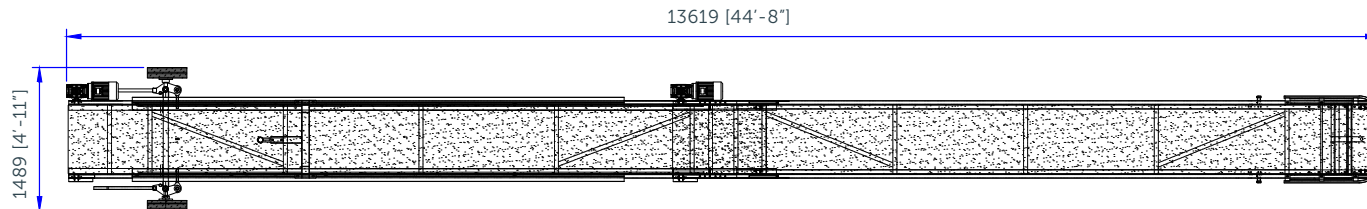
Weigher AW 50-2



Big-Bag filler BBF 02 (Zig-Zag type)

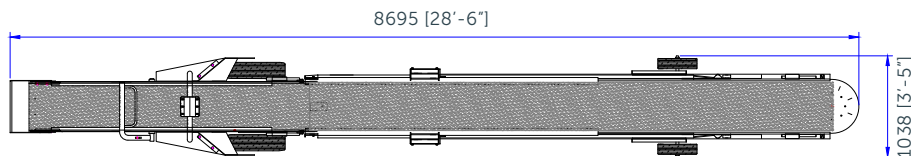


# LOADING AND UNLOADING



## DUO BELT ATC 750

- Belt width: 800 mm
- Conveyor length: 2 x 7500 mm
- Min. length: 8000 mm
- Max. Length: 14000 mm



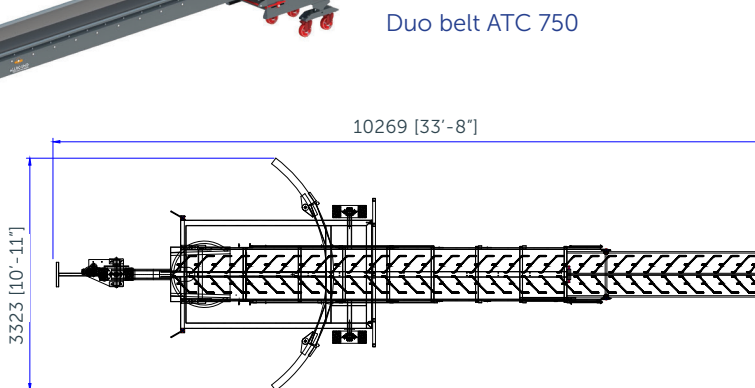
## PICKUP SCOOTER APS 250

- Belt width: 500 mm
- Min. length: 6900 mm
- Max. length: 9100 mm



## SPACE FINDER ASF 950

- Belt width: 600 mm
- Max. length: 9500 mm
- Min. Length: 6350 mm
- Swinging reach: 13000 mm
- Max. discharge height: 5400 mm





## BOX FILLER – BOX 3000

- Destined for the whole of boxes currently used
- Integration at the end of packaging line
- Ranges 0-5 kg
- Easy touch-screen control
- Remote control system
- Program storage



Box filler – Box 3000

## CHECK WEIGHER

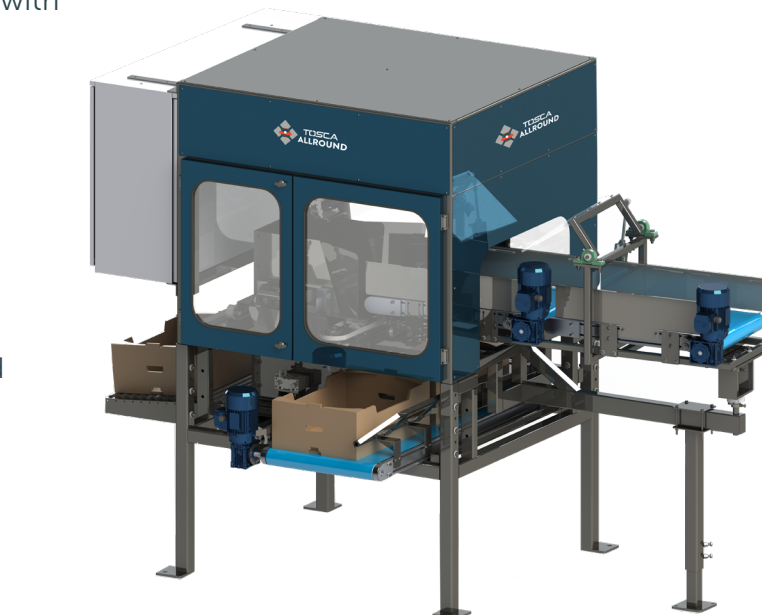
- For all kinds of lines and conveyors
- Continuous control of packaging weight
- Weighing ranges until 5 kg
- Ejection system for wrong weights
- Touchscreen control on the switch cabinet or with remote control
- Setting storage
- Possibility to export Data



Check weigher

## CRATES FILLERS

- For plastic and net bags
- Destined for the whole of crates currently used
- Integration at the end of packaging line
- It aligns and shapes quickly products
- Ranges 0-5 kg
- Easy touch-screen control
- Program storage
- Remote control system



Crate filler – RP 5000

# STORAGE SOLUTIONS

## BULK STORAGE

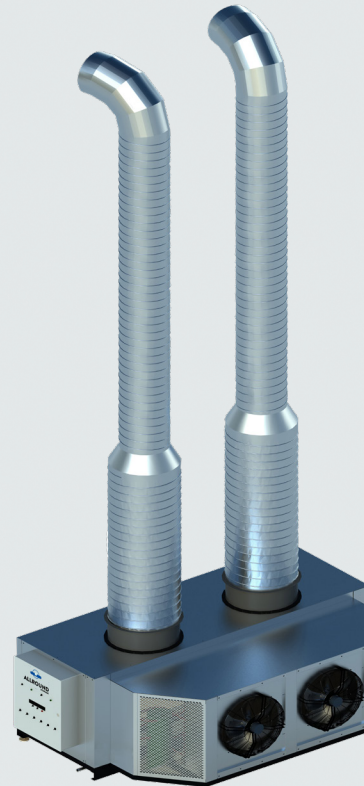
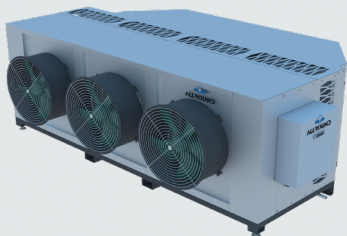


**The most effective and economical way of storage**  
Products to be stored: Industrial potatoes, Table potatoes,  
Onions, Red beet etc.

## BOX STORAGE



**The most flexible way of storage**  
Products to be stored: Potatoes, Onions, Cabbage,  
Carrot, Red beet etc.



**ALLROUND**  
VEGETABLE PROCESSING

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