



De Ruiter™



# De Ruiter Experience Center 2020

[www.deruiterseeds.nl](http://www.deruiterseeds.nl)



De Ruyter<sup>™</sup>  
Experience Center



# Welcome

It is with great pleasure, that I welcome you to the De Ruiter Experience Center in Bleiswijk. We are now taking the next step in innovation. We are very proud to present our Tomato portfolio in a modern, state-of-the-art glasshouse. In the section for the lit crop, you will get an impression on what is possible with our new varieties and their yield potential. We can showcase the technical advancements of growing systems and collect reliable data to compare breeding and commercial trials, including competitor varieties. In our the De Ruiter Market you will find samples of harvested tomatoes and other crops. In the De Ruiter Experience Center, a variety of meeting rooms is available for presentations. It is a pleasure to host you during your visit and we hope you will find it as interesting and exciting as we do. We thank you for your interest in our portfolio and appreciate your business with us.

We wish you a great experience with De Ruiter!

***Bayer EMEA Vegetable Team***



# *Innovation in the* **De Ruiter Experience Center**

Since the opening of the De Ruiter Experience Center in 2018, time has not stood still in our demo glasshouse. Paul Zantman (partner) and Robert Prins (manager) tell more about all the innovations of last year.

Robert says: 'At the opening, the harvest registration system was not yet operational. That is now up and running; we now have a wealth of valuable data. They are vital for our technical people and account managers.'

## ***Advanced Precision Horticulture***

Paul: 'We are implementing Advanced Precision Horticulture (APH). With APH, dozens of sensors are placed between the crops. This gives us real-time insight into the climate and growth behavior of plants. APH collects an enormous amount of data: what does a plant weigh, what is the light radiation and moisture in the mat, what is the temperature of the plant. That way we can optimize more and more.'

Robert adds: 'The goal, of course, is to be able to give growers even better growing advice. Ultimately, we strive for every variety to have a very specific, own cultivation recipe. But we're not there yet.'

## ***LED between the plants***

*Since October, the first LED lamps are installed in the lit part of the glasshouse. Paul: "The LED lights are in the first three gutters. With sensors, we now look at the influence of LED on temperature and moisture. The first results will be announced later in the year." Robert concludes: "We are very proud of our demo greenhouse. The crop looks good, with excellent varieties, also many new ones. Such as the tomatoes from the 1000, 8000 and 9000 Series."*



# *The host of the* **Experience Center**

John van der Knaap is the manager of the De Ruiter Experience Center and has become a familiar face for guests from the Benelux and abroad. From his position John works closely with Paul Zantman and Robert Prins; together they take a tour in the glasshouse at least twice a week and discuss all the ins and outs of cultivation.

John says: 'In addition, I arrange everything that has to do with facilities - and much more. All visits go through me. I ensure that meeting rooms are booked, that guests register and that they adhere to all hygiene protocols. That is no problem for guests from the Benelux, they are used to our measures. But growers from other countries often apply slightly different rules!'

John concludes: 'Many events are organized in the De Ruiter Experience Center, from open days to knowledge and breakfast sessions. For that I work intensively with the event managers of our company or external organizations. But the best thing about my job is to exchange knowledge with foreign growers. That really energizes me!'





# Crop Information

## **General information**

- Gutter height: 6.88 meter
- Roof: 'normal' 92+ glass (no diffuse/haze), width 167.5 centimeter
- Width paths: 1.60 meter
- All water treated with UV and chlorine
- Two nutrient solutions possible
- CO2 via OCAP
- Rootstock loose, saladette, truss and beef: Maxifort
- Rootstock cherry, cocktail and specialties: DR0141TX

## **Lit crop**

- 3.200 m<sup>2</sup>
- 13.000 lux Son T lights
- Additional screen to prevent light emission
- Sowing date: 28<sup>th</sup> August 2018
- Planting date: 18<sup>th</sup> October 2018
- Stem density start: 2.5 st/m<sup>2</sup> for loose, truss, beef
- Stem density start: 3.75 st/m<sup>2</sup> for cherry, cocktail

## **Year round crop**

- 4.000 m<sup>2</sup>
- Sowing date: 26<sup>th</sup> October 2018
- Planting date: 19<sup>th</sup> December 2018
- Stem density start: 2.5 st/m<sup>2</sup> (all segments)





## Ducovery

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Beef tomato / loose	250-300 grams	Year-round	<b>HR</b> ToMV:0-2/Ff:A-E/Fol:0,1 <b>IR</b> On

Ducovery is the BBB variety: 'Big Beef, Big yield'.

### **Benefits:**

- Strong crop, standard plant model with long, horizontal leaves
- Strong plant with good balance
- Strong against yellow crowns and mildew resistant (IR)
- Good early production and a high yield potential
- Improved biological equilibrium by IR resistance to mildew



## Rebelski

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Beef tomato / loose	210-250 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/Ff:A-E/Fol:0,1 <b>IR</b> On

Rebelski is one of the two beef tomatoes that is accepted into the Belgian auction. This beef tomato offers early and rapid truss development, ensuring a high overall yield. The ribbed fruit with a deep calyx helps to avoid puncture damage. The fruits ripen to a marvellous red colour. Rebelski has a tall, open and vegetative plant habit.

### **Benefits:**

- IR mildew resistance
- Harvest starts early
- Attractive red fruit colour
- Excellent shelf life



## Admiro

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Beef tomato / loose	150-160 grams	Year-round, summer, autumn and lit crops	HR ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0 IR On

Admiro combines a high overall yield, uniform size, excellent shelf life and good fruit shape. Admiro is particularly labourfriendly due to its open, short plant habit. Consequently, this variety is ideally suited for both year round and short crops.

### **Benefits:**

- IR mildew resistance
- Good, consistent fruit shape
- Uniform grade size
- Excellent shelf life
- High overall yield
- Labour-friendly crop

**For more new beef tomato varieties read the OR codes and discover the latest beauties!**



## Foronti

### **Resistance**

HR ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0  
IR On



## Ondero

### **Resistance**

HR ToMV:2/ToTV/Ff:E/Fol:0,1/For  
IR On



## Sevance

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Medium truss	110-130 grams	Year-round, lit and autumn crop	<b>HR</b> ToMV:0-2/ToTV/TSWV/Ff:A-E/ Fol:0,1/For/Va:0/Vd:0 <b>IR</b> On

Sevance offers the ultimate combination of yield and quality. With its great taste, beautiful color and flexible truss pruning at 5, 6 or 7, Sevance is a great addition in the medium truss segment.

### **Benefits:**

- Open, vigorous crop
- Uniform presentation, nice flat trusses, jointless
- Strong against powdery mildew (IR) and yellow crowns
- Firm fruit with a deep red, shiny color - slightly ribbed
- Excellent taste in this segment
- High production potential
- Excellent shelf life
- Flexible in pruning - optional in 5, 6 or 7 fruits per truss
- High yield potential



## Confiance

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Medium truss	130-150 grams	Year-round	<b>HR</b> ToMV:0-2/ToTV/TSWV/Ff:A-E/ Fol:0,1/For/Va:0/Vd:0 <b>IR</b> On

The excellent quality, medium truss variety with strong green part and deep internal and external red color. Low labour demanding and Oidium resistance.

### **Benefits:**

- Good yield
- Deep red internal and external colour
- High percentage of extra class fruit
- Low labour demanding thanks to plant architecture
- Attractive fruit colour and green parts
- Good Shelf life

## Medium and large truss tomato



# Marvellance

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Medium truss	130-135 grams	Year-round, lit and autumn crop	<b>HR</b> ToMV:0-2/ToTV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0

Marvellance is a very marketable variety with great yield potential. Its selflife and appereance are perfectly fit for supermarket's requirements.

### **Benefits:**

- Good yield
- Marketable fruits; high % of first quality fruits
- Open and thick calyx
- Potentially less pesticide applications needed



# Radiance

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Medium/large truss	130-150 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/TSWV/Ff: A-E/Fol:0,1/For/Va: 0/Vd:0 <b>IR</b> On

From our 1000 Series, we proudly present DRTH1004, which is now called Radiance!

### **Benefits:**

- Fruits with a dark red color
- Excellent (early) production potential
- More resilience thanks to a broad resistance package
- Fresh green parts
- Beautiful presentation in store



## Merlice

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Tomato on the vine / large / loose and truss	130-160 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0 <b>IR</b> On

Merlice is the variety with the highest production in the market in the large truss segment. Due to its resistance to mildew (IR), high average fruit weight and reliability, this is the number one tomato for growers and retailers. Merlice is suitable for loose and truss harvest. In addition, Merlice is a variety that requires very low labour costs.

**Benefits:**

- Increased financial yields due to larger harvests
- Extra security and less labour input due to IR mildew resistance



## Fujimaru

**Segment**

Pink beef tomato

**Weight**

220 grams

**Cultivation method**

Year-round and lit crop

**Resistance**

HR ToMV:0-2/ToTV/Ff:A-E/Fol:0,1/For/Va/Vd:0  
IR On

Early, no yellow shoulder, less blossom end rot and higher yield potential.

**Benefits:**

- Higher vigour
- Vegetative plant character
- High percentage of BBB fruit size
- Good fruit quality
- No yellow shoulder on the fruits
- Less BER susceptible

**Stay tuned and get to know the newest pinks of our portfolio!**



## Yarimaru

**Resistance**

HR ToMV:0-2/ToTV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0  
IR On



## Hakumaru

**Resistance**

HR ToMV:0-2/ToTV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Ma/Mi/Mj  
IR On



## DRC 564

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Cherry, on the vine, also loose	15-20 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/TSWV/Fol:0,1/Va:0/Vd:00 <b>IR</b> Ma/Mi/Mj

DRC 564 gives wonderful cherry tomatoes with a beautiful colour and delicious taste.

### **Benefits:**

- Beautiful dark red fruit colour
- Consistent truss appearance
- Very good taste
- Not sensitive to microcracking
- Suitable for loose and truss harvest



## Yelorita

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Cherry truss	14-22 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/Va/Vd/Fol:0 <b>IR</b> ToTV/TYL CV/Pst:0/Ma/MI/MJ

Yellow cherry suitable for truss harvest, with excellent taste and good shelf life.

### **Benefits:**

- Yellow, (slightly flattened) round fruits
- Fruit will stay on truss, not only at harvest, but also during shelf life
- Produces a high number of trusses
- Very nice taste, even better when harvested ripe
- Balanced variety (vegetative/generative)
- 12 months availability, lit crop possible



## Sharmita

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Cherry truss	10-15 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/ToTV/TSWV/Ff:A-E/ Fol:0,1/For/Va:0/Vd:0 <b>IR</b> On/Pst:0/Ma/Mi/Mj

Sharmita is a new premium cherry truss tomato with a powerful and balanced taste profile. Optimising acidity and sweetness brings this new and versatile tomato to consumers who seeking greater depth of flavour for snacking or culinary exploits.

### **Benefits:**

- Good fruit retention and firmness
- Strong green parts
- Beautiful without plastic
- Reliable uniformity
- Mighty taste



## Strabena

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Midi cherry truss	18-24 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/ToTV/Ff:A-E/Fol:0-1 <b>IR</b> Ma/Mi/Mj

Strabena is a strawberry-shaped snack tomato with excellent taste and truss fixation.

### **Benefits:**

- Excellent taste perception
- Dark red internal and external colour
- Unique fitting on the truss
- Year-round availability



## Delisher

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Cherry plum	12-18 grams	Year-round and lit crop	<b>HR</b> ToMV:0-2/ToTV/Ff:A-E/Fol:0 <b>IR</b> Ma/Mi/Mj

Delisher is a sweet, plum-shaped snack tomato, which is good to harvest as a truss.

### **Benefits:**

- Can be harvested as loose or truss
- Average fruit weight 12-14 gram
- Excellent taste
- Good looking, shiny fruits



## Portento

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
San Marzano tomato	105-125 grams	Year-round	<b>HR</b> ToMV:0-2/TSWV/Fol:0,1/Va:0/Vd:0 <b>IR</b> Ma/Mi/Mj

Portento is the tomato with the nostalgic elongated tomato shape. Portento gives a very good production. It has low sensitivity to blossom end rot, better firmness and less micro cracking.

### **Benefits:**

- Recognisable and attractive fruit product
- Very good production
- Good quality

## Cherry and cocktail tomato



# Kurtino

<b>Segment</b>	<b>Weight</b>	<b>Cultivation method</b>	<b>Resistance</b>
Cocktail round tomato	40-45 grams	Year-round	<b>HR</b> ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0 <b>IR</b> Ma/Mi/Mj

Kurtino is a tasty and attractive cocktail truss tomato. This variety produces long, uniform trusses, has good colouration and consistent fruit weight.

#### **Benefits:**

- Good taste
- Dark red colour
- Strong green parts
- Flat trusses

## Colourful specialities



# SV0946TS

<b>Segment</b>	<b>Weight</b>	<b>Harvest</b>	<b>Resistance</b>
Zebra cocktail plum	35-50 grams	Loose	<b>HR</b> ToMV:0-2/Fol:0,1/Va:0/Vd:0 <b>IR</b> Ma/Mi/Mj

#### **Benefits:**

- Firm brown and green striped tomato
- Great for mixed packs



# Zebrino

<b>Segment</b>	<b>Weight</b>	<b>Harvest</b>	<b>Resistance</b>
Zebra cocktail round	35-45 grams	Loose	<b>HR</b> ToMV:0-2/Va:0/Vd:0 <b>IR</b> Ma/Mi/Mj

#### **Benefits:**

- Brown and green striped tomato
- Sweet taste

# Abreviationlist

The different levels of resistance as defined by the International Seed Federation: DISEASE TERMINOLOGY:

## HR = High Resistance

The ability of a plant variety to highly restrict the activities of a specific pathogen or insect pest and/or to restrict the symptoms and signs of a disease, when compared to susceptible varieties. Highly Resistant varieties may exhibit some symptoms when specified pathogen or pest pressure is severe. New and/or atypical strains of the specific pathogen or pest may overcome the resistance, sometimes completely.

## IR = Intermediate Resistance

The ability of a plant variety to restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms compared to highly resistant varieties. Intermediate resistant plant varieties will still show less severe symptoms or damage.

Pathogen: scientific name	Code	Strain	Resistance level	Comment
<b>VIRUS</b>				
Tomato Marchitez Virus / Tomato Apex Necrosis	ToMarV / ToANV		HR	
Tomato Torrado Virus	ToTV	0, 1, 2	HR	ToMV:0,1,2 = ToMV:0-2
Tomato Mosaic Virus	ToMV		HR	
Tomato Spotted wilt Virus	TSWV		HR	
Tomato Yellow leaf curl Virus	TYLCV		HR/IR	
<b>BACTERIA</b>				
Pseudomonas Syringae pv. Tomato	Pst	0	IR/HR	
Ralstonia Solanacearum	Rs		IR	
Xanthomonas Campestris pv. Vesicatoria	Xcv		IR	
<b>FUNGUS</b>				
Fulvia Fulva (ex Cladosporium Fulvum)	Ff	A, B, C, D, E	HR	Ff:A,B,C,D,E = Ff:A-E
Fusarium Oxysporum f.sp. Lycopersici	Fol	0, 1, 2	HR	
Fusarium Oxysporum f.sp. Radicis-Lycopersici	For		HR	
Leveillula Taurica (Anamorph: Oidiopsis Sicula)	Lt		HR/IR	
Oidium Neolycopersici (ex O. Lycopersicum)	On		HR/IR	
Phytophthora Infestans	Pi		IR	
Pyrenochaeta Lycopersici	Pl		HR/IR	
Stemphyllium Botryosum f.sp. Lycopersici	Sbl		HR	
Stemphyllium Lycopersici	Sl		HR	
Stemphyllium Solani	Ss		HR	
Verticillium Albo-Atrum	Va		HR	
Verticillium Dahliae	Vd		HR	
<b>NEMATODE</b>				
Meloidogyne Arenaria	Ma		HR/IR	HR up to approx. 28°C. Above this temperature the varieties are increasingly susceptible. Breaking strains commonly occur.
Meloidogyne Incognita	Mi		HR/IR	
Meloidogyne Javanica	Mj		HR/IR	

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### **About Monsanto Vegetable Seeds**

The Monsanto Vegetable Seeds Division is focused on innovations that improve vegetable quality and yields. We develop products that offer consumers new, healthy choices. We hope that our development of products with delicious flavours and unique nutritional values will enable consumers to enjoy vegetables even more. Monsanto invests in research and development and uses the latest technology, not just to enable us to offer the best products to consumers, but also to offer our customers (the growers) and their customers (the partners in the chain) increased yields and value. The Monsanto Vegetable Seeds Division encompasses the brands Seminis and De Ruiter. More information is available on our website, [www.monsantovegetableseeds.com](http://www.monsantovegetableseeds.com)

**[www.deruiterseeds.nl](http://www.deruiterseeds.nl)**

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