



Passion for carrots

2020/2021

 **BASF**
We create chemistry

 **nunhems**[®]



A shared vision, fit for the future.

As times change, so do tastes and how people consume their meals, snacks and treats. For instance, more and more vegetables are being bought online and delivered directly to the homes of consumers, new varieties are being developed and introduced to seduce consumers to experience new flavors, and traditional mealtimes are giving way to 'on-the-go' eating moments

What's more, consumers are being educated on the importance of eating in a more healthy and sustainable way while seeking convenience and choice. The digital era has truly transformed the market and the whole supply chain has been encouraged to embrace technology.

Each and every day across the globe, millions of baby carrots are packed and delivered, especially for consumers that are looking for healthy snacks, and fresh washed carrots are displayed in supermarkets or shipped to food service companies. The fresh cut carrots are available in schools and for busy families who want to eat healthy but are always in a hurry. Frozen and canned carrots are bought and stored – ready to be added to a healthy meal in the future.

While carrots are a leading seller in the vegetable category, it relies on the whole industry, working as one, to add value and stay ahead of the game. At BASF Vegetable Seeds, we've always worked alongside our partners specialized in the genetic science behind breeding carrots, to pack all benefits into every seed. Breeding carrots that have an increased yield, overall quality and disease resistance. Products with the best taste and nutritional value, from a source that treats people and the planet responsibly.

We know the world is a changing place, and we are changing with it. We are committed to understanding the needs of our partners and working together to answers tomorrow's questions, today.

Together, we'll unlock the full potential in the carrot world, adding value to you - our business partners - and to consumers. Let's embrace a shared vision, fit for the future.

The Passionate Carrot Team



Good business partners think beyond their own product. Apart from the seed industry, we actively help you grow all aspects of your business. We are developing material to fit in with your technical industry processes, because we understand your customer's requirements. We also understand it takes more than just seeds to make your business grow.

Carrots

What better crop to be passionate about!

Carrots make a solid contribution to a healthy, nutritionally-balanced and tasty diet and have universal consumer appeal.

These factors create the widespread and year-round demand for carrots that transcends climatic, geographical and cultural boundaries. Global demand for carrots is still rising, and with the global population anticipated to reach nine billion by 2050, the world's appetite for these versatile vegetables will continue to grow.

With more than 100 years of experience, BASF Vegetable Seeds, develops and supplies top quality vegetable seeds to growers all over the world. Carrots are a strategic crop for our company, and we are one of the leading carrot seed producers. BASF Vegetable Seeds has been breeding a diverse assortment of carrots for more than 50 years and has already successfully developed a wide range of top quality varieties matched to specific global markets. The main target of our breeding program is to look for varieties that will give you high level of sustainability: our two newest varieties Allyance F1 and Brilliance F1 are clear examples of such combination of Resistances and Attractiveness.

In this catalogue, you will find all the information related to our assortment. It has been designed based on your market needs.

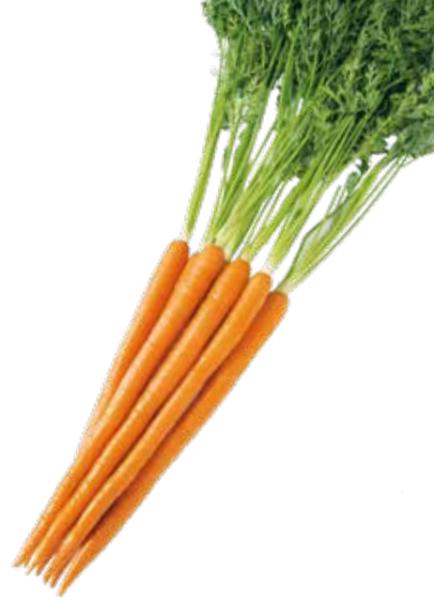
Make optimal use of it and don't hesitate to contact our carrots sales specialist if you need more details.

www.nunhems.com



Fresh carrots

The fresh market accounts for most of the global production. Varieties within this segment are long-established, traditional, multipurpose favorites. They are sweet and crisp, rounded at the tip and have an inconspicuous core. Growers and retailers strive for a fresh, uniform final product, with good flavor, shape, color and smoothness. Within this segment the specific requirements vary widely country-by-country according to agronomic traits and consumer use. We have a wide range of varieties that can be advised and tailored to your need and growing environment.



Fresh packed

The fresh packed market requires perfection in color, form, length, and shape in carrot roots. Good flavor is also required to meet consumer expectations. Growers strive for the highest possible proportion of useable products and varieties that are easy to clean. We offer an award-winning range of products leading this segment.



Juice & natural ingredients

Carrot juice is healthy and growing in popularity globally. Color, yield and long-lasting flavor are priorities in this segment. Both processed carrots and carrot juice are delicate products that require careful attention to keep their flavor and color fresh and attractive during processing. Our varieties in this segment are developed to meet all these needs. They are with a good color for making juice and processing products. Our nice colored carrots also provide interesting, new opportunities in this segment.



Processed & convenient carrots

For the slicing segment, growers aim to maximize the number of slices deliverable per hectare. Slicing carrots must also have a good, long-lasting color. Our slicing varieties include large and long, highly cylindrical carrots with a uniform diameter. They offer the highest yields of useable products.





Nantes assortment

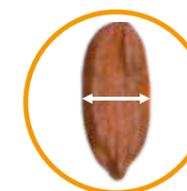
Don't underestimate Nunhems' power seeds

Carrot growers choose varieties for their growth, yield and quality characteristics. Similarly, the seeds of different varieties have their own characteristic sizes, weights and shapes.

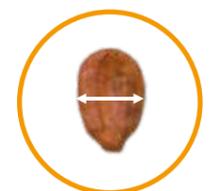
Variety	Seeds Description
Laguna F1	heavy and big seeds
Sirkana F1	heavy and big seeds
Romance F1	very heavy and big elongated seeds
Brilliance F1	light and small seeds
Dailiance F1	medium heavy and medium big seeds
Elegance F1	medium heavy and medium big seeds
Cadance F1	medium heavy and medium big rounded seeds
Alliance F1	medium heavy and medium big seeds
Dordogne F1	light and small seeds

As you can see below, the shape can be very different in the same seeds size.

Romance F1 1,4 - 1,6



Cadance F1 1,4 - 1,6



The seed size only refers to the width of the seeds!



Laguna F1   

The early high yielding standard

- High netto early yield
- For washing and bunching
- No green shoulders
- Straight carrots
- Strong against breaking
- Early variety

Suitable for organic production
 Suitable cool room storage when harvested as young product

IR:

- Alternaria dauci
- Powdery Mildew



Romance F1    

Uniformity Excellence

- High netto yield
- For washing and bunching
- Very uniform and straight carrots
- Strong against breaking
- Very erect dark green foliage with good attachment
- Medium early variety

Suitable for organic production
 For cool room storage and short term soil storage

IR:

- Alternaria dauci
- Powdery Mildew



Alliance F1*   

The new generation of attractive carrot with a high resistance package

- High levels of resistances
- Very smooth, uniform and attractive carrots
- Good blunting
- Cylindrical carrot shape
- Medium early
- Good field holding ability
- No green shoulders
- Good taste
- Flexible for various sowing and harvesting periods due to the high resistance levels

HR:

- Alternaria dauci
- Cercospora carotae
- Cavity spot
- Bolting

IR

- Powdery Mildew



Dordogne F1 

High uniformity and good blunting

- Smooth carrots
- Nice cylindrical shape
- No green shoulders
- Good field holding ability
- Medium early

For fresh washing and soil storage

IR:

- Alternaria dauci
- Orobanche

HR:

- Bolting



Daillyance F1 NEW  

The Power of Bright Orange

- Medium early maturity
- For washing
- No green shoulders with nice leaf in-plant
- Nice smooth skin
- Good taste experience
- More bulky type
- Suitable cool room storage
- NOT for soil storage

HR:

- Cercospora carotae
- Powdery Mildew
- Cavity Spot

IR:

- Alternaria dauci



Brillyance F1 NEW   

The power of attraction

- For washing
- No green shoulders
- Very smooth
- Nice leaf inplant
- Late maturity

Suitable for organic production
 Suitable cool room storage
 Suitable for soil storage
 Suitable for organic production as result of resistances

HR:

- Alternaria dauci
- Powdery Mildew
- Cercospora carotae
- Cavity Spot
- Resistance to summer bolting

IR:

- Rhexocercosporidium carotae (Acrothecium)



Elegance F1  

Premium color after storage

- Attractive carrot color and smoothness
- For washing
- Straight and more bulky carrots
- No green shoulders
- Very strong against breaking
- Medium late variety

For cool room storage and long term soil storage

HR:

- High bolting resistance so very suitable for the autumn sowings in Southern Europe

IR:

- Alternaria dauci
- Powdery Mildew



Cadance F1 

Good taste after storage

- Very strong against breaking, growth cracks and splitting
- For washing
- No green shoulders
- Fine diameter carrot
- Late maturity
- NOT for soil storage

For cool room storage

IR:

- Alternaria dauci
- Powdery Mildew
- Cercospora carotae

HR:

- Cavity Spot



Sirkana F1



Yield and Color

- Bulky carrots giving high yield potential
- For washing and processing
- Nice dark orange internal color
- Good results in lower densities
- Medium late variety

For cool room storage and short term soil storage

IR:

- Alternaria dauci
- Powdery Mildew
- Cercospora carotae

HR:

- High bolting resistance so very suitable for the autumn sowings in Southern Europe



Coltan F1



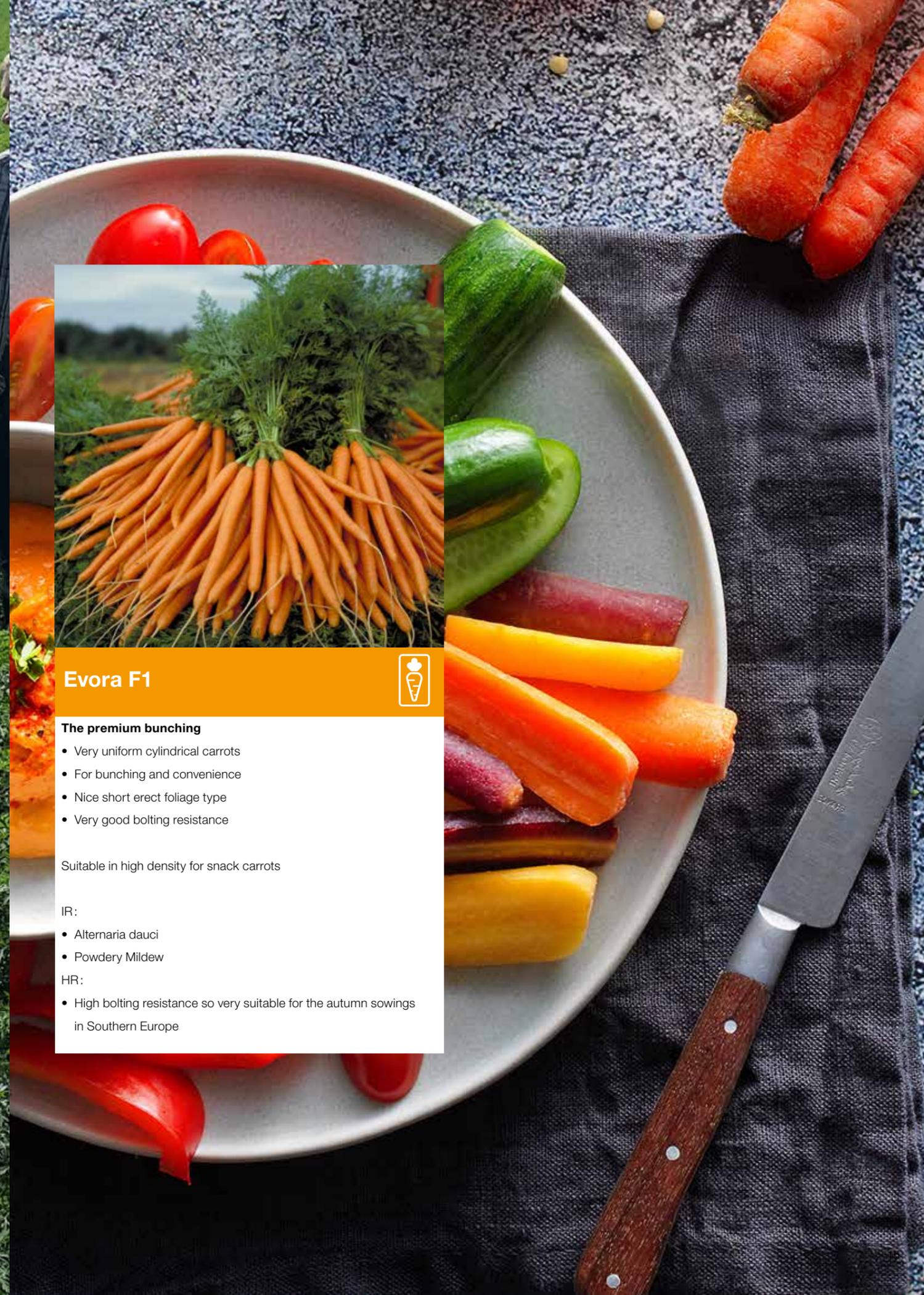
Tons, tons!!!

- High yield, bulky and heavy roots
- For washing
- High level of resistance to breaking
- Attention for Powdery Mildew control
- Medium late variety

For cool room storage

IR:

- Alternaria dauci
- Cercospora carotae



Evora F1



The premium bunching

- Very uniform cylindrical carrots
- For bunching and convenience
- Nice short erect foliage type
- Very good bolting resistance

Suitable in high density for snack carrots

IR:

- Alternaria dauci
- Powdery Mildew

HR:

- High bolting resistance so very suitable for the autumn sowings in Southern Europe



Colorful carrots

Inside every carrot, you'll find a nutritional powerhouse. This inner strength shows on the surface too. Spanning a full spectrum, a carrot's color reflects the health benefits and key vitamins at their core.

Carrots were originally either purple or white. The orange carrot popular today was introduced later. Colored carrots can be used fresh (packed or bunch).

It creates new interest for the food industry, which increasingly uses this natural colorant. Our colored carrot assortment provides a rainbow of new options in this segment for fresh and processed products.



Snow Man F1



- Nice uniform bright white color
- No external and no internal greening
- Big and vigorous foliage type
- Long tapered roots
- (A Few) bolters may occur depending sowing season
- Good flavor



Rubyprince F1



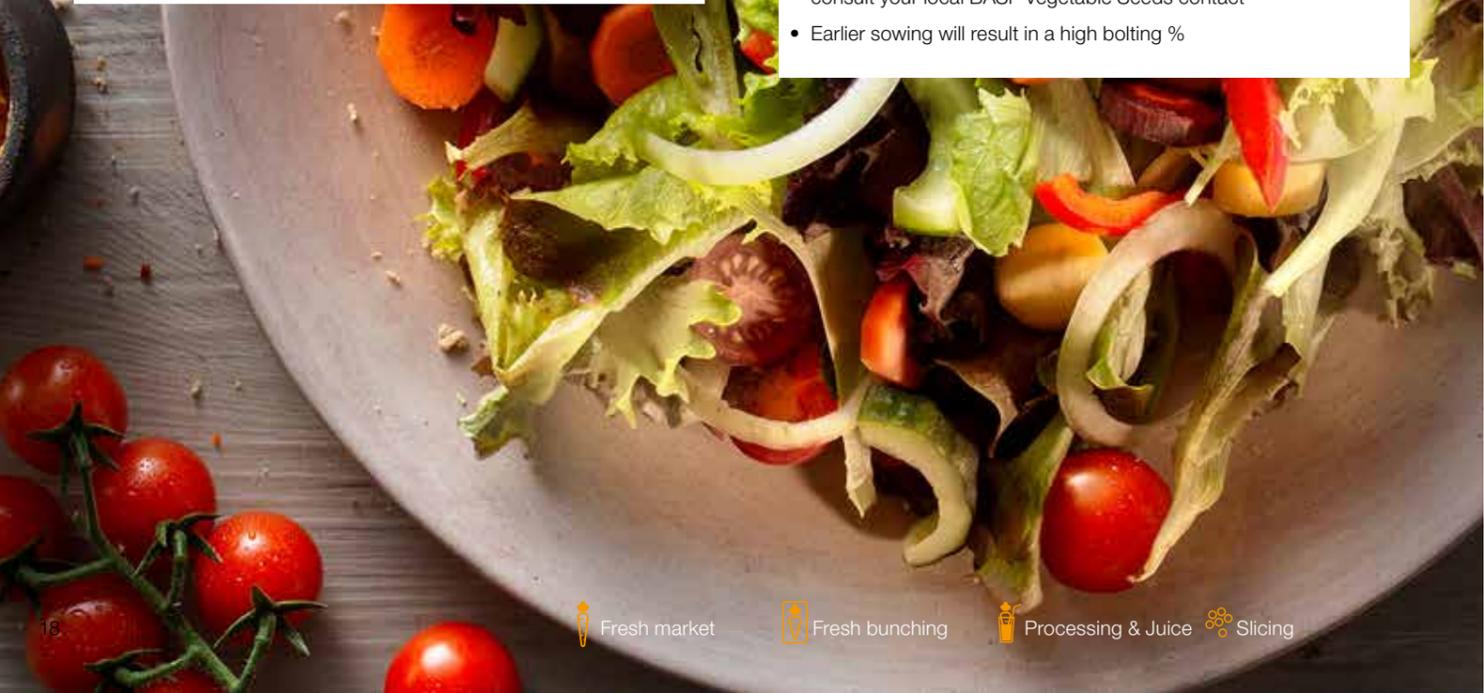
- New color in the assortment
- Cylindrical carrots with early blunting
- Red internal color
- Crispy, good-tasting carrots
- Small and clearly less vigorous foliage than the other colors
- Special attention for sowing dates in relation to bolting; please consult your local BASF Vegetable Seeds contact
- Earlier sowing will result in a high bolting %



Creampak F1



- Light yellow color
- Very uniform color
- Bulky and blunting carrots with smooth skin
- No external and no internal greening
- Big and vigorous foliage type
- (A few) bolters may occur depending on the sowing season
- Good flavor





Yellowbunch F1



- Nice bright yellow color
- Tapered roots with medium size
- Big and vigorous foliage type
- (A few) bolters may occur depending on the sowing season
- Good flavor



Night Bird F1



- Full purple carrots
- To be drilled after the longest day
- Careful about the sowing dates; bolters will occur depending on the sowing season

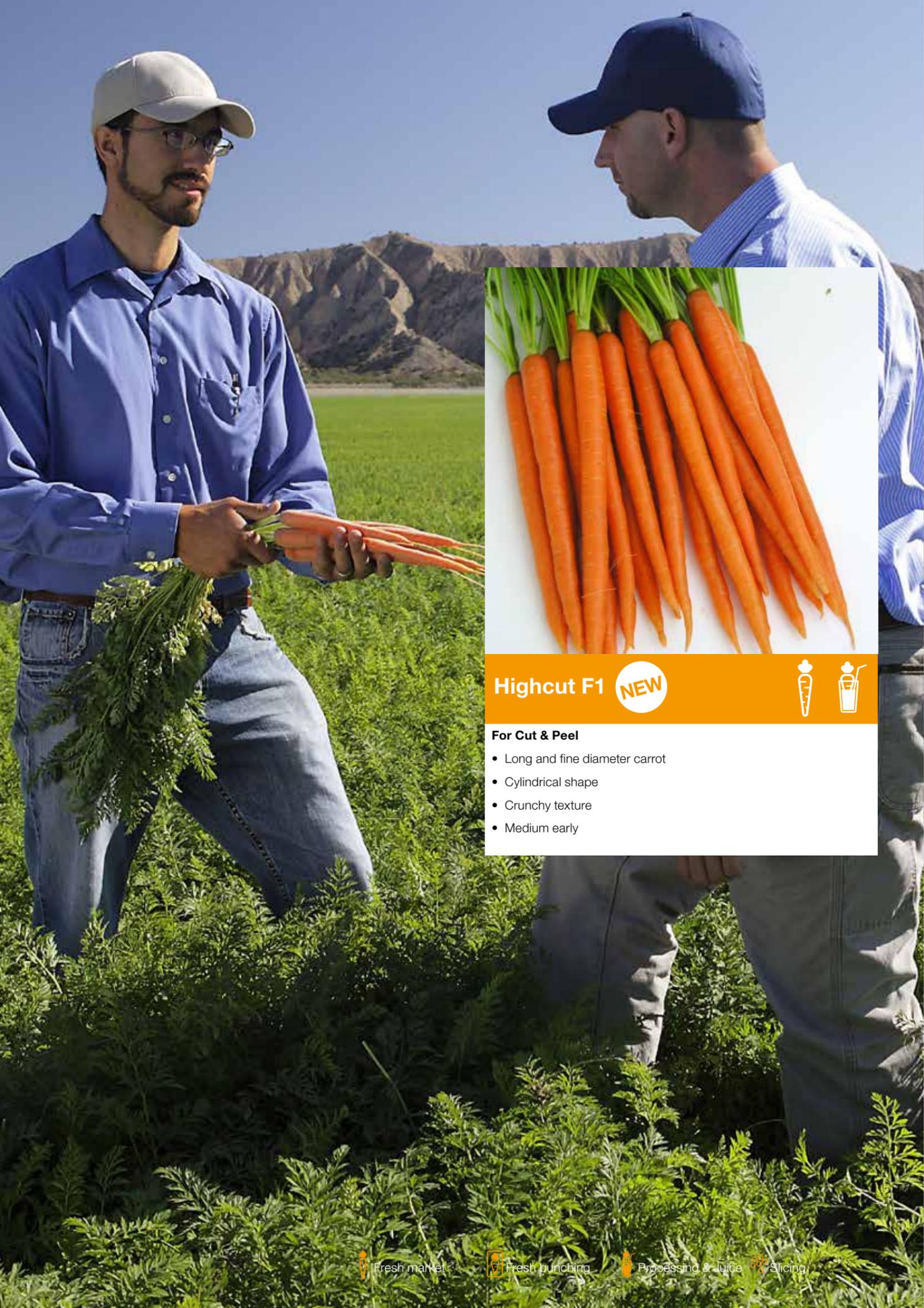




Imperator assortment

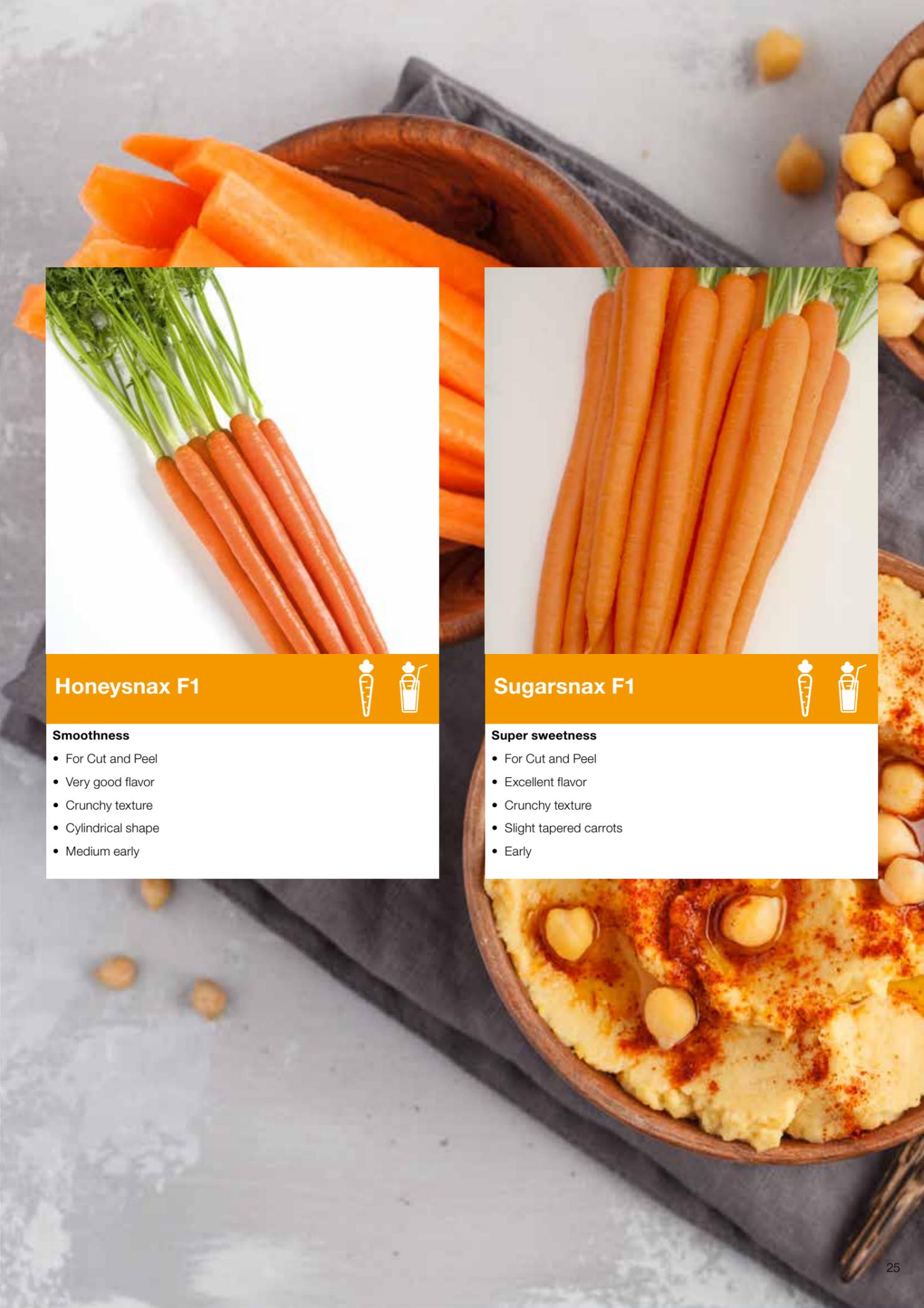
Imperator is the main carrot type grown in many countries. High yield and a specific taste and texture are critical traits in Imperator varieties.

Our Imperator assortment has supported our global customers in bringing healthy snack solutions, as well as juice, convenience carrot products to consumers successfully.



Highcut F1 NEW  

- For Cut & Peel**
- Long and fine diameter carrot
 - Cylindrical shape
 - Crunchy texture
 - Medium early



Honeysnax F1  

- Smoothness**
- For Cut and Peel
 - Very good flavor
 - Crunchy texture
 - Cylindrical shape
 - Medium early



Sugarsnax F1  

- Super sweetness**
- For Cut and Peel
 - Excellent flavor
 - Crunchy texture
 - Slight tapered carrots
 - Early

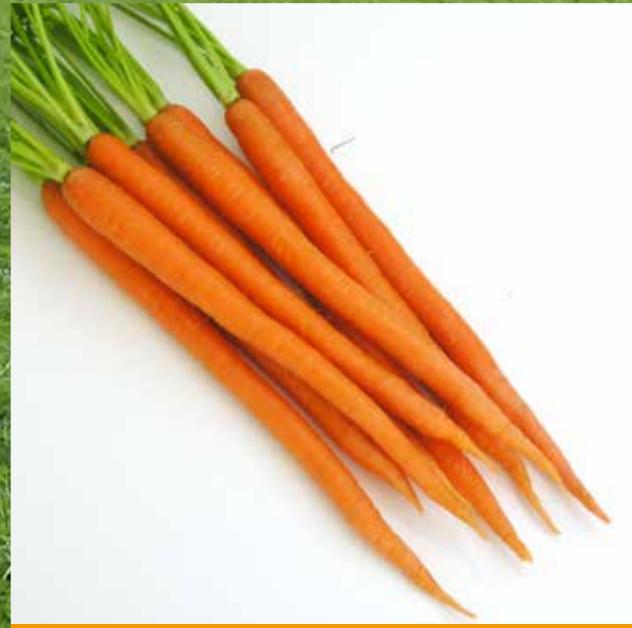


Crispycut F1



Length and storage ability

- For Cut and Peel
- Very good flavor
- Crunchy texture
- Durable
- Semi-cylindrical shape
- Long carrots
- Medium late



Uppercut F1



Vigorous

- For Cut and Peel
- Very good flavor
- Crunchy texture
- Cylindrical shape
- Medium early

 **nunhems**[®]

 **BASF**
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Advice for cultivation practice*

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Product illustrations

All varieties shown were grown under favorable conditions. Identical results are not guaranteed nor implied for all growing conditions.

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* under application for inclusion in the EC Common Catalogue of Vegetable Varieties