



anniversary

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**profi**  
2024/27

# Vegetable seed catalog

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Country distributor:

### Signs

- new variety
- variety in preparation

- very suitable variety
- suitable variety
- not suitable variety



### Please note:

All variety descriptions and recommendations in this catalogue are based on our experience in Central Europe. Growing times, size of fruit, color and other characteristics may vary in other regions. Buyers need to determine which varieties are likely to be adapted to the prevailing conditions in their own areas by performing trials in their locations.

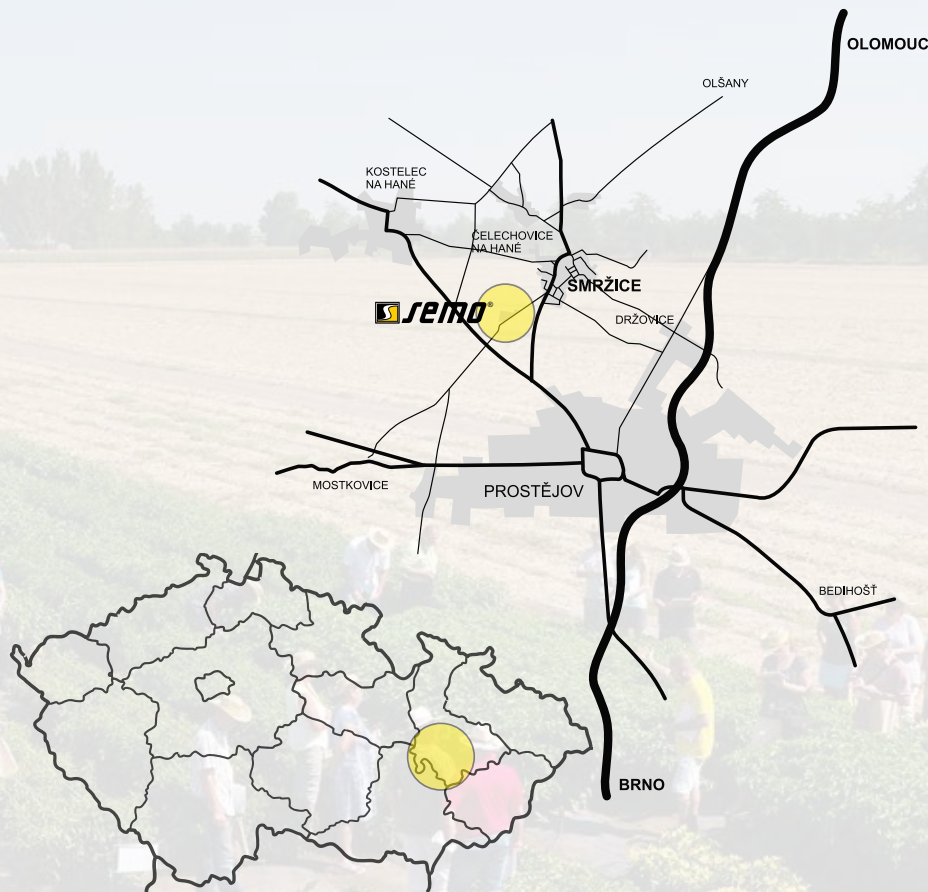
### Non-GMO Declaration

We confirm that none of our varieties is a product of genetic manipulation and that our seed is therefore free of genetic modification (GMO).

### Resistance:

We use the definitions according to ISF rules (International Seed Federation):  
 IR = intermediate/moderate resistance  
 HR = high/standard resistance





Dear business friends,

We offer an open invitation for you to visit us at our premises, so we can show you SEMO's facilities and our assortment of our new and existing varieties. You are welcome to visit us at any time. The best time for a visit is the last week of July, as this is time when the most crops are ready, especially cucumbers, tomatoes and peppers. Our managers, breeders and the rest of our staff look forward to hosting your visit during this week.

Your SEMO team

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Dear growers,

growing vegetables has become highly specialized and intensive activity. Professional gardeners are real pioneers in precision agriculture. In order to be successful in this challenging journey they demand high quality varieties and high quality seed. And we are ready to meet these requirements.

"Everything we do, we do for our shared success". For us it's not just a phrase. In order to succeed in the challenging and competitive world of seed breeding we must offer high quality, competitive varieties of excellent seed quality. This is what we mean by our motto – "Seed from the right hands". The proof of our success is evidenced by the growing interest in our high quality varieties and hybrids from our wide assortment.

We are very pleased to introduce our new catalog. Included in it are established varieties, as well as promising new varieties from our breeding program. We believe that many of them will prove successful in your fields, plastic tunnels or greenhouses. We thank you for your current business and look forward to working with you in the future. I wish you a successful and profitable growing season.

Jan Prášil  
Chairman of the Board of Directors

## WHO we are

SEMO a.s. is a Czech company that was founded in 1994. With its formation, SEMO continued more than 50 years of tradition in plant breeding connected with the former Vegetable Breeding Station. Now SEMO is acknowledged as a leader in the breeding of vegetable crops in Europe. We concentrate mainly on fruit vegetables (especially tomatoes, cucumbers, and peppers), green peas, lettuce, onions and root crops. Our varieties are known in many countries and our customer base is increasing every year.

In 2017 we acquired the Slovak breeding company Zelseed. The best beans, peppers, sweet corns and tomatoes from its program are now in our catalog.

## Seed Quality

SEMO is proud of the high quality of its products. We produce seeds all over the world – in environments that have the best conditions for seed production for each specific crop. All new seeds are then tested here in our laboratory for germination, purity and health. Testing continues in our greenhouses and trial fields, and the quality of the seed inventory is regularly monitored. All seeds leaving SEMO comply with our high quality standards.

## Approach to Growers

Besides offering high quality seeds, our goal is to provide growers with high quality service. Our customer service does not end with the purchase of the seed. We also offer an advisory service that is available to you throughout the growing season. We are eager to help to solve any problems you encounter.





## Our seeds

We offer the following categories of seeds:

### NORMAL seed

NORMAL seed is sold by weight (kilos). Our NORMAL seed meets all ISTA standards (the International Seed Testing Association).

### PRECISION seed

PRECISION seed is sorted according to its size. The uniform size of the seed results in uniform germination. It is sold by count (in units of 1 000 seeds). PRECISION seed is of a high quality and is subjected to additional treatments – HWT, SEMO Vital etc.

### Pills/Pellets

SEMO offer pelleted seed of Celeriac NEON, leek BYSTRIN and selected lettuce varieties. Current information about the range of pellets for the season can be found in our price list.

### Organic seed

Our organic seed is certified by the Czech Government authority, and is intended for organic farming.

### Seed treatments and seed improving

#### • Fungicide coating

Most of the seed varieties we offer in the price list as treated can also be ordered as untreated. Your request for untreated seeds please always specify in your order. The price for untreated seed stays the same as for treated.

#### • Hot Water Treatment (HWT)

HWT is carried out by SEMO on PRECISION seeds of pepper, carrot, parsley and parsnip and brassica seed lots. This treatment eliminates any bacterial

infection that may be on the surface of the seed – for example *Candidatus Liberibacter Solanacearu*.

#### • SEMO Vital

SEMO Vital is the whole set of improving substances. It includes physical disinfection of seeds and the application of supporting substances that improve germination, support the development of the root system and the adaptation of plants to stress. We use SEMO VITAL for PRECISION seeds of onions, bunching onions, root parsley and selected varieties of peppers. For more information, please contact us.

#### • Primed seed of parsley, celeriac, carrot, dill and onion

Germination is quicker and more uniform when using primed seed.

#### • Thermo-primed seed of lettuce

Important for summer (hot weather) sowing, where the germination is better and more uniform with thermo-primed seed.

#### • Cold plasma seed treatment

In the testing phase is seed treatment by cold plasma. It is not, of course, a full substitution for chemical treatment. Through this process we can only eliminate pathogens on seeds surface. Unfortunately it does not prevent infection after sowing.

As there is an emphasis on decreasing chemical use in agriculture, existing and new methods of physical seeds disinfection are becoming more and more important.



**BONA**



**GAMA**



**AIDAGOLD**

# Bean – bush (dwarf)

*Phaseolus vulgaris L.*



More about all our Beans



**LILANA**



**HYNEK**

## BONA

(Green pods: 10–12 cm, diameter 0.7 cm, white seeds: WTS 190 g)

A mid-early variety of French bean with a sturdy plant and uniform pods. It achieves high and early yields. Intermediate resistance to Anthracnose. We recommend this variety for both processing and for fresh market.

## LILANA

(Wax pods: 12–15 cm, diameter 0.8 cm, light brown seeds: WTS 210 g)

A mid-early bush bean with yellow pods and large, light brown seeds. LILANA offers shiny stringless pods those are perfect for fresh use as well as for freezing and canning. Excellent and fancy appearance.

## GAMA

(Green pods: 10–12 cm, diameter 0.8 cm, white seeds: WTS 220 g)

A mid-late variety of French bean with a sturdy plant and uniform pods. GAMA has a high yield potential. Intermediate resistance to Anthracnose. We recommend this variety for processing and for fresh market.

## NIGRONA

(Wax pods: 10–12 cm, diameter 0.9 cm, black seeds: WTS 300 g)

A mid-late bush bean with yellow pods and medium sized, black seeds. NIGRONA is possible for harvest of young pods or nice dark dry seeds.

## AIDAGOLD

(Wax pods: 10–12 cm, diameter 0.75 cm, white seeds: WTS 230 g)

A mid-early variety of wax French bean. Its yellow pods are straight and attractive. Medium vigorous plant that is well adapted to mechanical harvesting. Good for fresh market and various processing including canning and freezing.

## HYNEK

(Green at young stage then patchy violet and beige in full dry pods: 9–12 cm, almost black seeds: WTS about 600 g)

Mid-late bush shell bean with beige pods and fine, dark grown almost black seeds. Nice variety for shelling of dry seeds. Vigorous plant with violet flowers is very tolerant to dry and other stress conditions. The best harvest time is when pods are dry and beige colored.

Variety	Days from sowing to harvest	Maturity	Plant height (cm)	Pod			Seed		General remarks
				length (cm)	diameter (cm)	color	average TSW of dry seeds (g)	color	
<b>BONA</b>	70	mid-early	30 - 40	10 - 12	0.7	medium dark green	190	white	for harvest of young pods IR to Anthracnose
<b>GAMA</b>	75	mid-late	40 - 45	10 - 12	0.8	medium dark green	220	white	for harvest of young pods IR to Anthracnose
<b>LILANA</b>	70	mid-early	30 - 40	12 - 15	0.8	yellow	210	light brown	for harvest of young pods, with beige seeds
<b>AIDAGOLD</b>	70	mid-early	30 - 40	10 - 12	0.75	yellow	230	white	for harvest of young pods, straight and attractive pods
<b>NIGRONA</b>	75	mid-late	40 - 50	10 - 12	0.9	yellow	300	black	for harvest of young pods or nice dark dry seeds



RED SHINE

## Beetroot

*Beta vulgaris L. var. conditiva Alef.*



More about all our Beetroots

### RED SHINE

RED SHINE seeds are „one sprout types“ that are genetically monogerm. Uniform beets are globe-shaped with very smooth skin. Dark red flesh with high sugar content. Vigor is medium with strong, short tops. High tolerance to bolting allows early sowing. Since each seed produces just one embryo, RED SHINE is ideal for precision sowing. Excellent uniformity. Perfect for bunching or marketing without tops at full maturity. Suitable for fresh market and processing.

### CERVENA KULATA

A high yielding, medium-late DETROIT type with strong erect foliage. Beets with a deep-red color and paler rings are very suitable for industry and long term storage. Firm skin and very good plant health is important characteristics of this „time tested“ variety.

### KARKULKA

Excellent flavor and deep red color are the most important characteristics of KARKULKA. Cylindrical shaped roots with smooth skin. High yield potential. Excellent for fresh market and storage. KARKULKA is suitable for all types of processing including slicing, pickling and production of chips. It is sensitive to cold so later spring sowings are recommended to avoid bolting.

### BETINA

A selection of DETROIT type with more uniform round roots and very healthy tops. Deep red flesh with slightly paler rings. A reliable variety for fresh market as well as for processing, including canning of baby roots.



BETINA

## Brussels sprouts

*Brassica oleracea L. convar. oleracea var. gemnifera (DC).*

### DANET F1

Nice mid-early hybrid with a short stem and high tolerance to lodging. The sprouts are smaller at the top of the stem and are bigger at the bottom. The firm sprouts are round, with good color and

are easy to harvest. DANET is recommended for home gardens and fresh market. Excellent tolerance to cold allows for winter harvest in areas with moderate winters.



DANET F1

## Celeriac

*Apium graveolens L. var. rapaceum (Mill.) Gaud.*

### NEON

An early, high yielding and reliable variety with smooth white roots (they do not contain Anthocyanin) that stays white when cooked. NEON has an extensive root system, healthy tops and

is not susceptible to Septoria. Roots are dense, resistance to hollow heart, and store well. Suitable for drying and for fresh market. Approximately 137 days from transplanting to maturity.



CERVENA KULATA



KARKULKA



NEON



MINICA F1



SLAVA F1

# Cabbage

*Brassica oleracea L. convar. capitata (L) Alef.*



More about all our Cabbages

We offer an exclusive range of cabbage hybrid varieties directly from the breeder, Mrs. Jitka Hrubešová and her team. These hybrids are suitable for fresh market, processing and long-term storage.

## MINICA F1

Nice mini cabbage for high density planting. MINICA is tolerant to cracking and holds well on the field. Heads are small (0.5 kg–1.0 kg) but firm and good for fresh use or storage. Leaves are thin with a nice mild sweet flavor and are excellent for fresh use or cooking.

## SLAVA F1

An early cabbage for early summer harvest. Its round heads are medium dense, resistant to cracking and reach a balanced weight of 0.9 to 1.2 kg. They are primarily intended for fresh market. It grows evenly until harvest maturity. SLAVA is resistant to low temperatures and bolting. This variety is also suitable for year-round growing with direct sowing until July 15th (in Central European conditions).

## UNIKAT F1

An early cabbage hybrid for fresh market. Heads are round and uniform, average weight is about 1.2 kg. They have a short core and tender leaves. High tolerance to cracking and good field-standing ability.

## PORTOZA F1

A very attractive hybrid. Firm round heads with a good field holding ability. Weight depends on density of sowing, ranging between 3.0–6.0 kg. Very tolerant to cold conditions, cracking and thrips. An all-purpose variety for processing and long-term storage (Zerlina type). Performs well with stable yields even in difficult weather conditions.



UNIKAT F1



PORTOZA F1

Variety	Use			Maturity	Days from transplanting to harvest*	Head		Recommended number of plants/ha	General remarks
	fresh market	processing	storability			weight (kg)	shape		
for fresh market									
MINICA F1	👍👍	👎	👍	early	70	0.5 - 1.0	round to egg-shaped	65 000	short internal core tolerant to cracking
SLAVA F1	👍👍	👎	👎	early	75	0.9 - 1.2	round	65 000	resistant to low temperatures for year-round growing
UNIKAT F1	👍👍	👍	👎	early	80 **	0.9 - 1.5	round	60 000	uniform heads with short core, perfect for fresh market, holds well in the field
for processing and long term storage									
PORTOZA F1	👍	👍👍	👍👍	late	130	3 - 6	round	32 000	firm head with dense internal structure, tolerant to thrips; good for long term storage and processing

👍👍 very suitable

👍 suitable

👎 not suitable

\* valid for Central European conditions

\*\* 50 days in Panjab - India





RAPID F1



CONCORD F1

# Cabbage – Chinese

*Brassica rapa L.*



More about all our Chinese Cabbages

## RAPID F1 (SM 9/18 CHU)

An early hybrid (approximately 60 days from transplanting to maturity). Uniform and really tasty semi cylindrical dark green heads (weight 1.5–2.0 kg) with golden yellow inner core. RAPID is strong against bolting and suitable even for spring planting. Resistant (HR) to Clubroot and tolerant (IR) to pepper spot, Downy Mildew and viral diseases. Recommended hybrid for fresh market and medium term storage.

## MERKUR F1 (SM 10/18 JIN)

A mid-early hybrid (approximately 65 days from transplanting to maturity) with shorter semi cylindrical compact heads (weight 1.7–2.5 kg). The heads with nice golden yellow inner core can be easily cleaned after storage. MERKUR is suitable for long term storage. High tolerance to bolting and to packet of fungi diseases are advantages of this hybrid. Recommended for planting in both spring and summer period.

## CONCORD F1

A mid-late chinese cabbage (approximately 68 days from transplanting to maturity) for all summer sowing including the early one. Compact cylindrical heads weighing 1.5–2.0 kg with good long-term storage ability. The tops of firm heads are very nicely covered. The heads can be easily cleaned when taken out from the storage place. Recommended harvest season from August to November.



MERKUR F1



CONCORD F1

Variety	Maturity	Days from transplanting to harvest*	Recommended for planting*	Head		Recommended number of plants/ha	Disease resistance	General remarks
				weight (kg)	shape			
<b>RAPID F1 (SM 9/18 CHU)</b>	early	60	spring, summer	1.5 - 2.0	barrel - cylindrical	65 000	HR Pb, IR DM	really good fine taste, tolerant to viral diseases, golden yellow inner core
<b>MERKUR F1 (SM 10/18 JIN)</b>	mid-early	65	spring, summer	1.7 - 2.5	barrel - cylindrical	60 000		compact heads with rich golden yellow inner core, high tolerance to bolting
<b>CONCORD F1</b>	mid-late	68	summer	1.5 - 2.0	barrel - cylindrical	65 000		compact, suitable for long term storage, for summer sowing including the early one

\* valid for Central European conditions

### Resistance

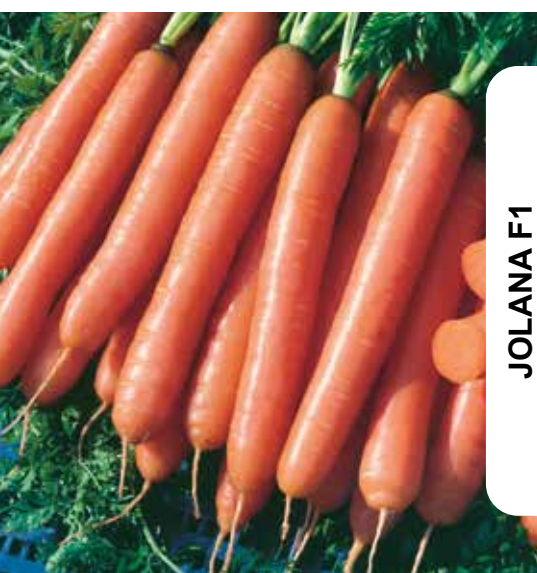
PB = Clubroot (Plasmodiophora brassicae),  
DM = Downy Mildew (Peronospora parasitica)



BABETKA



HAMI F1



JOLANA F1

# Carrot

*Daucus carota L.*

More about all our Carrots



## **N** BABETKA

A very early baby carrots of Nantes type with low tops. Both professional growers and gardeners, including the youngest ones, will appreciate it. We harvest it already in 85 days after sowing (in conditions of Central Europe). The roots are slender with a blunt tip and a smooth bright orange skin. The taste is exceptionally sweet and juicy. Grateful carrot for early bunching. Ideal for snacking - children love it.

## **N** HAMI F1

An attractive Imperator type of carrot with good health and resistance to cracking and bolting - it can be sown since early spring even under conditions of Central Europe. HAMI has attractive, smooth and really dark orange roots with a blunt end. Good storability also enhances the suitability for bunching. The roots are also fitting for peeling and production of canned or frozen baby carrots.

## **MARQUETTE**

Nantes type carrot perfect for bunching and fresh market. Very uniform smooth roots with excellent internal and external color and nice sweet taste.

## **N** TENA F1

Mid-late hybrid Chantenay with high tolerance to root cracking and bolting – sowing is possible from early spring. TENA offers uniform roots in size and shape and is suitable for sowing even in heavy soils. Roots are smooth skinned with very intensive dark orange color and nice sweet taste. Suitable for all type of using - fresh market, freezing, canning and first of for juicing.

## **JOLANA F1**

A Nantes hybrid that has short, extremely healthy tops. Tolerant (IR) to Alternarium. Roots are attractive, uniform and smooth with excellent external and internal color. Excellent hybrid for bunching and mechanical harvesting.

## **ANINA**

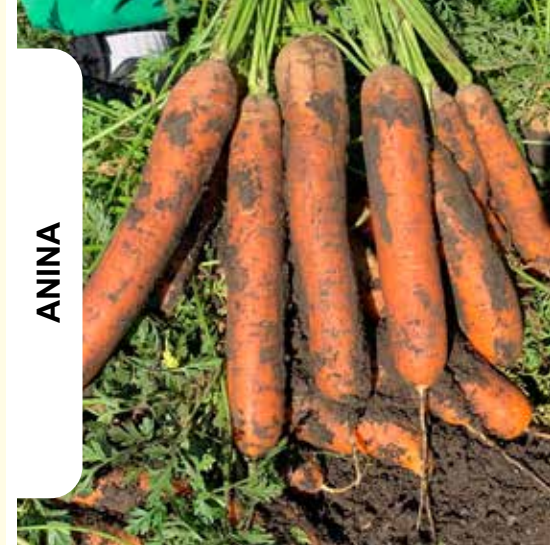
Main Nantes type variety. The roots are smooth skinned, deep orange and have a long cylindrical root with a blunt end. The tops are very healthy and strong. Suitable for fresh market and long-term storage. It is tolerant to high temperatures and for many reasons is really popular in the Middle East. Confirmed variety for Organic growing because stands adverse weather conditions very well.

## **N** KORADA F1

KORADA is more resistant to bolting comparing to other carrots of the Kuroda type. Sowing is safe from the beginning of May even under the conditions of Central Europe. Its strong vigorous top shows a high tolerance to fungal leaf diseases. It creates an uniform typical wedge-shaped very smooth root with a blunt end. The flesh is tasty and crunchy with a high sugar and carotene content. KORADA is suitable for bunching due to its strong healthy top and rapid root growth. We can also recommend it for juicing and canning. Really healthy variety – tolerance (IR) to Alternarium and Powdery Mildew.

## **N** JUDITA F1

A mid-early Berlicum type of carrot. It stands out for its good health including medium resistance to Alternarium and next leaf fungi diseases and root rotting. Due to its strong and healthy laves it is very suitable for combine harvesting. Smooth and uniform roots have a rich color and are tolerant to cracking. JUDITA is also very tolerant to bolting and suitable even for very early spring sowing. An universal variety suitable for the fresh market, long-term storage and processing. Performs well in subtropical areas.



ANINA



KORADA F1



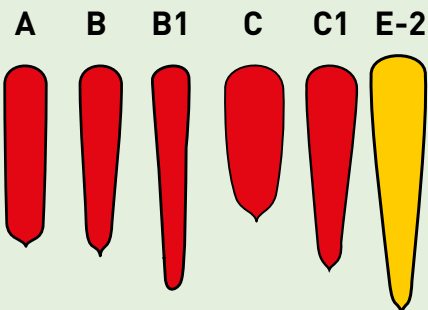
JUDITA F1

# Carrot

Variety	Type	Maturity	Days from sowing to harvest*	Root			Use			General remarks
				color flesh/skin	average length (cm)	shape	fresh market	storage processing	processing	
HAMI F1	Imperator	early	120	8 / 8	20	B1	👍👍	👍	👍	nice variety for bunching, also suitable for canned or frozen baby carrots
MARQUETTE	Nantes	early	115	8 / 8	22	A	👍👍	👍👍	👍	smooth roots perfect for bunching and fresh market
JARANA F1	Nantes	early	115	7 / 8	20	A	👍👍	👍	👍	longer uniform roots strong foliage, very good for fresh market
BABETKA	Nantes	very-early	85	7 / 7	14	A	👍👍	👎	👎	a very early baby carrots with slender roots for both professional growers and gardeners
ANINA	Nantes	mid-early	125	7 / 7	20	A	👍👍	👍👍	👍	long uniform roots, strong foliage performs well in subtropical area, confirmed carrot for organic growing
LENKA	Berlicum x Nantes	mid-early	125	7 / 7	23	B	👍👍	👍👍	👍👍	resistant to cold weather and suitable even for early spring sowing, nice long roots
JOLANA F1	Nantes	mid-early	125	9 / 8	20	A	👍👍	👍👍	👍👍	for bunching, also good for late harvest and storage, high tolerance to Alternarium
CHAMARE	Chantenay	mid-late	135	7 / 7	15	C	👍👍	👍	👍👍	strong foliage and good storage ability suitable for juicing and fresh market
TENA F1	Chantenay	mid-late	135	8 / 8	15	C	👍👍	👍	👍👍	high tolerance to root cracking and bolting sowing is possible from early spring
KORADA F1	Kuroda	mid-late	135	9 / 9	18	C1	👍👍	👍	👍👍	more tolerant to bolting than other Kurodas late spring sowing is possible
VERA F1	Berlicum	early	120	8 / 8	22	B	👍👍	👍👍	👍👍	versatile variety for bunching, storage and processing, very healthy leaves
JUDITA F1	Berlicum	mid-early	130	8 / 8	20	B	👍👍	👍👍	👍👍	due to its strong and healthy leaves it is very suitable for combine harvesting
JITKA F1	Berlicum	mid-late	135	7 / 8	20	B	👍👍	👍👍	👍👍	suitable for both fresh market and processing
KOLOSEUM F1	Berlicum	late	145	7 / 8	22	B	👍	👍👍	👍👍	high yielding variety, high dry matter content for processing and long storage
TABORSKA ZLUTA	Flakkee	late	150	1 / 1	22	E-2	👍	👍👍	👍	not only for human nutrition but also valuable feed for horses, really high yielding variety

\* valid for Central European conditions  
color: 1 = yellow; 10 = intense red

👍👍 very suitable    👍 suitable    👎 not suitable



## Celery

*Apium graveolens L.*

### MERLIN

An early variety with long erect stems and medium dark green leaves. MERLIN can be grown successfully for summer and for autumn harvests. The most important characteristics of this celery

are high tolerance to Septoria and bolting. High yielding. Suitable for both fresh market and processing.

MERLIN



# Pickling cucumber

*Cucumis sativus L.*



More about all our Picklers

BOHEMIA F1



Cucumbers are an important crop in SEMO's breeding program. We offer premium varieties of picklers, American slicers and indoor cucumbers in different sizes. Variety requirements differ by country, region and production systems. Our assortment is therefore increasing every year to meet these requirements.

## BOHEMIA F1

An early, high yielding, spined nonparthenocarpic variety. The uniform fruits are dark green and slim, with a very good pickling quality. Fruits are easy to harvest as the medium length vines are less dense than for a typical cucumber. Intermediate resistance to Downy Mildew and tolerant to high temperatures.

## ANYA F1

Spined parthenocarpic hybrid with slightly shorter and darker fruits than DAFNE. Very early maturity. ANYA has high early yields, keeps producing well the entire season. A great advantage of this variety is its ability to recover from weather events such as frost or hail. ANYA is excellent for hoophouse, unheated greenhouse and open field.

## **N** ARTEMIS F1 (SM 65/21)

This new, very early spined parthenocarpic hybrid was bred especially for harvest of cornichons (3–6 cm) or for harvest of little longer but still small fruits (6–8 cm). ARTEMIS has the shortest fruits of our spined parthenocarpic assortment. Its dark green fruits with small seed cavity are crunchy and tasty. It has the broadest disease resistance package including intermediate resistance (IR) to Downy Mildew. Well regenerating plants produce fruits over a long harvest period. Thanks to these positives, ARTEMIS belongs among the highest yielding gherkins.

ARTEMIS F1



ANYA F1



## GRACIE F1

A very early variety well adapted to various climates and suitable for growing in greenhouses and open field. The plant is medium vigorous and therefore suitable for trellising. Fruits are very long, up to 12 cm, and very slender. They have dark green skin with white spines. Very healthy vines with intermediate tolerance (IR) to Downy Mildew and tolerance to low and high temperatures. GRACIE is well suited for salt and vinegar processing. Sells well on fresh market.

## CHARLOTTE F1

An extremely early nonparthenocarpic variety producing 3–4 cucumbers per node. Smooth fruits are long, thin and attractive. The plant's canopy is not very dense so the fruits are easy to see and harvest. CHARLOTTE is very suitable for growing on a trellis.

## NAJADA F1

An extremely early black-spined cucumber with really long, attractive fruits. Recommended for all indoor and field growing techniques including trellising. Medium vigorous plants have an excellent disease package including intermediate tolerance to both Downy and Powdery Mildews and tolerance to low and high temperatures. NAJADA is well suited for salt and vinegar processing. Nice long fruits (up to 10 cm) are excellent for fresh market sales.

## HARRIET F1

Recommended for intensive production systems using drip irrigation. This smooth type parthenocarpic variety is very high yielding. Plants are healthy and stress tolerant. The fruits are attractive, cylindrical and are very dark green. Recommended for outdoor or hoophouse production. HARRIET has a high tolerance to many fungal diseases. Fruits hold well on the vines.

GRACIE F1



CHARLOTTE F1



HARRIET F1



## Pickling cucumber

Type	Variety	Maturity	Plant vigor	Genetically non-bitter	Fruit			Recommended for					RESISTANCES					General remarks
					spine color	length /width	color	comichons	salt processing	growing on trellis	harvest by machine	indoor growing	CMV	CC	ALS	DM	PM	
Spined (American) type non-parthenocarpic	<b>BARA F1</b>	early	vigorous	no	white	3.3 : 1	8						HR	HR	HR	6		attractive slim fruit, very healthy plants
	<b>BOHEMIA F1</b>	early	compact - vigorous	yes	white	3.6 : 1	8						HR	HR		7	IR	uniform fruit, very tolerant to DM
	<b>REGINA F1</b>	early	very vigorous	no	white	3.1 : 1	8						IR	IR		4		standard variety tolerant to DM
	<b>IWONNA F1</b>	mid-early	vigorous	no	white	3.0 : 1	7						HR	HR	HR	5		tasty crunchy flesh very good for salt pickling
	<b>CHANTAL F1</b>	mid-early	compact - vigorous	no	white	3.2 : 1	8						HR	HR	HR	4	IR	densely spined fruit
Spined type parthenocarpic	<b>DAFNE F1</b>	extremely early	compact - vigorous	yes	white	3.4 : 1	8						HR	HR		4		good yields of nice dark fruit, stress tolerant
	<b>ANYA F1</b>	very early	compact - vigorous	yes	white	3.1 : 1	9						HR	HR		4	IR	high yielding for a long harvest window, stress tolerant, quick recovering
	<b>ARTEMIS F1 (SM 65/21)</b>	very early	compact - vigorous	yes	white	3.0 : 1	9						HR	HR		6	IR	very uniform fruits shorter than ANYA, quick recovering, resistance (IR) to DM
	<b>GRACIE F1</b>	very early	compact - vigorous	yes	white	3.8 : 1	9						HR	HR		4		nice, very slender fruits suitable also for "Vertico" production
	<b>NAJADA F1</b>	extremely early	compact - vigorous	yes	black	4.1 : 1	8						HR	HR	HR	4	IR	very healthy, extremely early very suitable for fresh market (harvest up to a length of 10 cm)
Smooth type non-parthenocarpic	<b>CHARLOTTE F1</b>	extremely early	compact	yes	white	3.6 : 1	7						HR	HR		3	IR	the earliest variety on the market, long and slender fruits
	<b>ORNELLO F1</b>	mid-early	compact	yes	white	3.4 : 1	8						HR	HR		3		tolerant to poor conditions concentrated fruit set
Smooth type parthenocarpic	<b>SONADA F1</b>	very early	compact	yes	white	3.2 : 1	8						HR	HR		3		large stable yield, good plant health
	<b>HARRIET F1</b>	very early	compact	yes	white	3.3 : 1	7						HR	HR		3		very high yielding variety for intensive growing systems

very suitable

suitable

not suitable

### Legend:

**color:** 1 = pale green; 9 = dark green

**CMV** = cucumis mosaic virus; **CC** = scab; **ALS** = cucumber anthracnose; **DM** = downy mildew; **PM** = powdery mildew

**Resistance:** **IR** = intermediate resistance; **HR** = high resistance

**DM** 1 = sensitive, 9 = full resistance

# Salad cucumber

*Cucumis sativus L.*



More about all our Cucumbers

MARKYZA F1

## MARKYZA F1

A very early hybrid ideal for open field and indoor growing. MARKYZA produces uniform dark green fruits that maintain their quality during the entire harvest period. Healthy plant with high tolerance to Downy and Powdery Mildew make it suitable for late summer and autumn sowing. Its small seed cavity makes it suitable for processing into slices or cubes. Highly resistant to stress, especially to high temperatures, with good results in the Mediterranean.

## ANDROMEDA F1 (SM 41/21)

A mid-early, 100% non-bitter parthenocarpic Japanese cucumber. Its slim fruits with typical shallow ridges and small white spines are juicy and sweet tasting. Excellent cucumber for fresh eating and salads.

## BABY F1

A very early high yielding parthenocarpic mini cucumber with medium vigor plants. The bright green fruits have firm skin, giving them a long shelf life. BABY is mainly recommended for harvesting as baby fruits (length about 8–10 cm), requiring harvests every two days. If we do not harvest the baby fruits they extend their length up to approximately 15 centimeters. This versatility is certainly advantageous for farmers. BABY is suitable for year-round growing in greenhouses and plastic hoophouses.

## SNACK F1

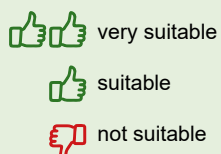
Our new parthenocarpic mini cucumber with very uniform fruits for year-round growing. Medium to dark green fruits (slightly darker than BABY) with excellent sweet flavor. Perfect for harvesting as baby fruits (length about 10 cm) – we recommend daily picking. Later picking of fruits up to 17 cm long is also possible. SNACK is a really high yielding variety with multifruit consistent fruit setting. Perfect results on rootstocks SPRINTER F1 or BOLT F1.

## FORMULE F1

A very early and very high yielding Beit Alpha parthenocarpic type. The long dark green fruits are uniformly cylindrical. The size is between medium and long types and they can be harvested from 16–24 cm. A reliable variety for year-round production in greenhouses and hoophouses. Due to high tolerance to shortening days and low light levels is also suitable for autumn and winter (in southern regions) growing.

## VISTA F1

A parthenocarpic salad cucumber with medium growth. The medium green fruits average length is 35–40 cm. VISTA is suitable for year-round growing in greenhouses, including autumn or winter (southern regions) because plants are tolerant to shortening days.



### Legend:

color: 1 = pale green; 9 = dark green  
CMV = cucumis mosaic virus; CC = scab;  
ALS = cucumber anthracnose; DM = downy mildew;  
PM = powdery mildew

### Resistance:

IR = intermediate resistance;  
HR = high resistance

ANDROMEDA F1

BABY F1

SNACK F1

FORMULE F1

VISTA F1

## Salad cucumber

Type	Variety	Maturity	Plant vigor	Flowering trait	Genetically non-bitter	Recommended for			Fruit			RESISTANCES					General remarks
						open field	indoor summer season	indoor winter season	length (cm)	weight (g)	color	CMV	CC	ALS	DM	PM	
Slicing type - outdoor and indoor - nonparthenocarpic	<b>MARKYZA F1</b>	very early	fairly - vigorous	predominantly female	yes				18 - 22	300 - 360	9	HR	HR		IR	IR	very early harvest, attractive uniform fruit with fine skin
	<b>MARLEN F1</b>	very early	fairly - vigorous	predominantly female	yes				18 - 20	280 - 340	9	HR	HR	HR	IR	IR	very early high yielding cucumber, good health
	<b>LILI F1</b>	early	fairly - vigorous	predominantly female	yes				23 - 24	370 - 420	9	HR	HR		IR	IR	dark green fruit with good storage ability, really healthy cucumber
	<b>CHEER F1</b>	early	fairly - vigorous	predominantly female	yes				20 - 22	340 - 390	9	HR	HR		IR		very firm skin, tolerant to damage by insect, suitable also for summer planting
	<b>AMANDA F1</b>	early	medium	predominantly female	yes				23 - 28	300 - 360	9	HR	HR	HR		IR	long slicer mainly for indoor production, plants display excellent health properties
Japanese burpless type - outdoor and indoor - nonparthenocarpic	<b>AVANTGARDE F1</b>	mid-early	fairly - vigorous	predominantly female	no				26 - 28	410 - 440	9	HR	HR	HR	IR	IR	nonparthenocarpic, good health, shallow ridges, small white spines top of fruit can be bitter
	<b>ANDROMEDA F1 (SM 41/21)</b>	mid-early	fairly - vigorous	100% female	yes				28 - 32	420 - 460	9	HR	HR	HR	IR	IR	multiple disease resistance, one of the few variety of 100% non-bitter Japanese cucumbers, parthenocarpic
Beit Alpha type - outdoor and indoor - nonparthenocarpic	<b>LIVIE F1</b>	very early	vigorous	predominantly female	yes				23 - 27	390 - 450	6	HR	HR	HR			indoor Beit Alpha cucumbers, light and fine skin, really narrow core
Mini type - indoor - parthenocarpic	<b>BABY F1</b>	very early	medium	100% female	yes				8 - 15	120 - 320	7	HR	HR			IR	excellent for baby fruit production
	<b>OFELIE F1</b>	very early	medium	100% female	yes				8 - 17	120 - 300	8	HR	HR	HR	IR	IR	excellent for baby fruit production overripe fruit (up 10cm) are also nice it is not registered in the EC
	<b>SNACK F1</b>	very early	medium	100% female	yes				8 - 17	120 - 300	8	HR	HR	HR	IR	IR	mini cucumber with very uniform fruits for year-round growing
Medium size type - indoor - parthenocarpic	<b>MINISPRINT F1</b>	very early	fairly - vigorous	100% female	yes				15 - 17	280 - 310	7	HR	HR	HR			high yielding, excellent sweet flavor very popular with hobby growers
	<b>EMILIE F1</b>	very early	medium	100% female	yes				19 - 22	300 - 360	9	HR	HR	HR		IR	good tolerance to very high temperatures recommended for subtropical areas
	<b>FORMULE F1</b>	very early	medium	100% female	yes				16 - 24	330 - 370	9	IR	HR			IR	also suitable for autumn growing tolerant to shortening days
Long (Dutch) type - indoor - parthenocarpic	<b>SUPERSTAR F1</b>	early	medium	100% female	yes				25 - 30	380 - 420	9	HR	HR				attractive long fruits, very popular with hobby growers
	<b>TRIBUTE F1</b>	early	medium	100% female	yes				28 - 35	410 - 450	10	HR	HR				high reliable yields, attractive dark fruit high level of tolerance to hot conditions
	<b>VISTA F1</b>	mid-early	medium	100% female	yes				35 - 40	420 - 460	8	HR	HR			IR	also suitable for autumn growing, tolerant to shortening days
	<b>ORCA F1</b>	mid-early	medium	100% female	yes				40 - 50	440 - 480	9	HR	HR			IR	exceptionally long slightly ribbed fruits, high yielding hybrid



HANAK



COMPACT



KLASIK

## Dill

*Anethum graveolens L.*



[More about all our Dills](#)

### HANAK

A high-yielding variety with a fine spicy taste. The plants are 80–100 cm tall, with medium foliage and bright green leaves. HANAK has a high ratio of leaves to total plant green matter. Excellent, uniform color. Approximately 70 days from sowing to harvest (in Central European conditions).

### COMPACT

This variety is recommended for growing in containers. However, it is also very suitable for sowing in open fields. COMPACT is only slightly shorter than the traditional field variety HANAK. The advantage of COMPACT is its color as it is the darkest green dill variety that we offer. Approximately 70 days from sowing to harvest (in Central European conditions).

### MAMUT

Variety with darker leaves and thicker stalks than HANAK, making this variety ideal for bunching. The plants are vigorous and bunches have a long life after cutting. Approximately 75 days from sowing to harvest (in Central European conditions). Really good dill even for summer growing because of tolerance to high temperature conditions and significant leaf diseases.



MAMUT

## Eggplant

*Solanum melongena L.*



[More about all our Eggplants](#)

### KLASIK

A mid-early eggplant with high tolerance to heat stress. Fruits have a classic shape - long, slim with black skin. The greenish flesh is very tender and delicious. KLASIK has healthy plants that perform well in the field.

### KRASAN

A mid-early heirloom variety. Strong plants produce oval-round shaped fruits with shiny black skin. The flesh is a delicate creamy-white without any bitterness and very few seeds. KRASAN is very reliable and performs well under less favorable climatic conditions.

### SE 02 F1

An early high yielding hybrid suitable for greenhouse and open field production. Black fruits are round-oval shaped, with fleshy pulp and

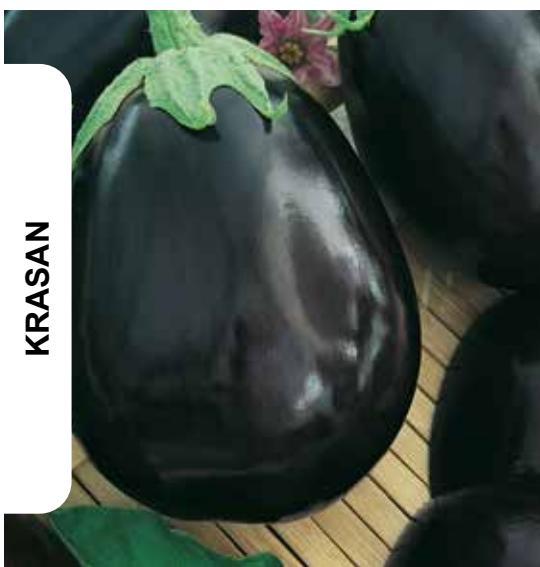
very few seeds. SE 02 has excellent plant health, including resistance to fusarium and other soil borne fungal diseases.

### BE 02 F1

A mid-early hybrid is suitable for heated or unheated indoor growing, as well as open-field production. Very attractive pink fruits are oval-round and slightly ribbed. The flesh remains white even after cutting. Nice variety for fresh market. Good fruit setting even under high temperature conditions.

### ALBIN F1

This mid-early white hybrid is almost spineless. For indoor as well as for open field growing. Heavy fleshy fruits are round-oval and slightly ribbed with attractive white skin. Delicate taste and high eating qualities are important benefits of this hybrid.



KRASAN



SE 02 F1





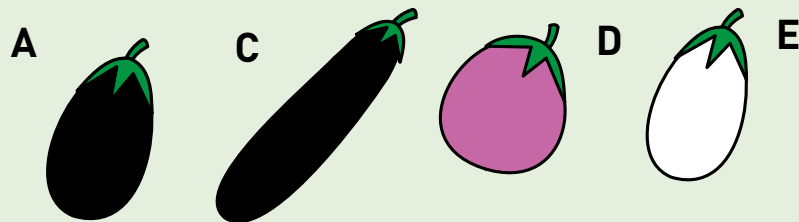
BE 02 F1



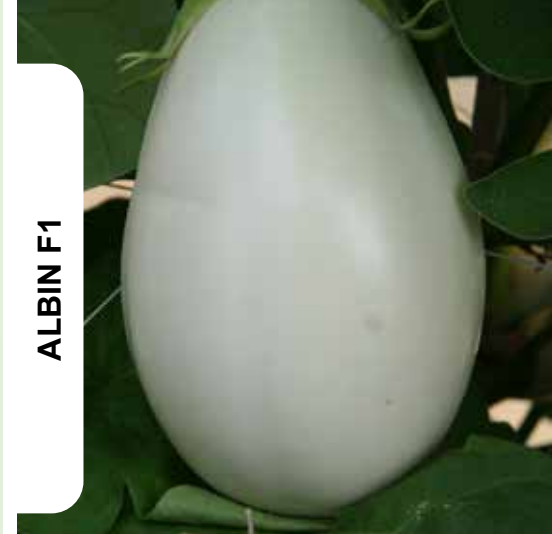
MODRAVA F1



PURPURAN F1



Variety	Maturity	Plant growth habit	Fruit				General remarks
			shape	color	average size (cm)	weight cca (g)	
SE 02 F1	early	medium	A	black	17 x 11	550	very tolerant to soil fungal diseases, for green houses and field growing
KLASIK	mid-early	medium	C	black	23 x 5	450	high tolerance to heat stress, for greenhouses and field growing
KRASAN	mid-early	vigorous	A	black	19 x 13	580	high yielding even in poor conditions for greenhouses and field growing
BE 02 F1	mid-early	medium	D	light purple	13 x 11	560	very attractive fruits for greenhouses and field growing
ALBIN F1	mid-early	medium	E	white	13 x 10	580	high-yielding variety for greenhouses and field growing



ALBIN F1



SPARTA F1



GIGANT

## Kohlrabi

*Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes*



More about all our Kohlrabies

### MODRAVA F1

A purple kohlrabi hybrid for spring and autumn field production. Early, about 60 days from transplanting (in Central Europe conditions). The bulbs are medium-sized and flattened, and the flesh is of high quality. Tolerant to lignification and cracking, the bulbs will develop uniformly even in poor conditions.

### PURPURAN F1

A purple hybrid for spring and autumn growing. Mid-early, about 65 days from transplanting (in Central Europe conditions) – about 5 days later than MODRAVA. A vigorous variety with attractive bulbs resistant to lignification, cracking and greening. The eating quality is excellent, quite sweet and crunchy. PURPURAN is intended especially for field growing in spring and autumn.

### SPARTA F1

A mid-early hybrid, about 70 days from transplanting (in Central Europe conditions) with bigger, flattened round, bright green, crack tolerant bulbs. SPARTA is suitable for all year growing as it is tolerant to bolting, allowing for summer growing. Performs well under low temperatures and poor light conditions making it an excellent choice for late autumn sowing. Extended harvest is possible till hard frosts.

### GIGANT

This unique kohlrabi clearly belongs to the Czechoslovak heirloom. A late white variety producing very large bulbs (weighing 3–5 kg). Even the large bulbs will stay sweet, delicious, and tender. Excellent for winter storage. Used fresh or cooked in any size from small to large. The leaves of large plants can be eaten like cabbage. Resistant (IR) to cabbage root fly.

## Kohlrabi

Variety	Maturity	Growing period from planting (days) *	Bulb		Leaves	Plant density (cm)	General remarks
			color	shape			
<b>DVORANA</b>	very early	55	white	slightly flattened round	low, fine	25 x 20	grows well in low temperatures and poor light conditions nice for tunnels or early field growing
<b>MODRAVA F1</b>	early	60	purple	flattened round	mid-high	25 x 30	very uniform bulbs suitable for spring and autumn field production
<b>BLANKYT</b>	early	60	purple	flattened round	low, fine	25 x 30	tolerant to cracking, nice for field production including summer planting
<b>AZUR</b>	mid-early	65	purple	flattened round	high	25 x 30	tolerant to cracking
<b>PURPURAN F1</b>	mid-early	65	purple	flattened round	mid-high	25 x 30	big bulbs tolerant to cracking suitable for spring and autumn field production
<b>SPARTA F1</b>	mid-early	70	white	flattened round	mid-high	30 x 30	big uniform bulbs tolerant to cracking nice for field production including summer planting
<b>VIOLETA</b>	late	90	purple	slightly flattened round	high, vigorous	30 x 40	very big bulbs (close to 1 kg) tolerant to cracking for long-term storage
<b>GIGANT</b>	very late	110	white	slightly flattened round	mid-high	40 x 40	gigantic bulbs (close to 5 kg) tolerant to cracking for long-term storage

\* valid for Central Europe conditions

## Garlic

Variety	Type	Maturity	Leaf	Bulb				Storage (1-10) 1=very short 10=very long	General remarks
				weight * (g)	skin color of head and cloves	shape	number of cloves		
<b>STEPAN</b>	soft neck, for autumn sowing	mid-early	wide erect light green	80-100	creamy white head brown clove	round	8-12	8	good plant health, tolerant to dry conditions
<b>OTAKAR</b>	hard neck, for autumn sowing	early	medium-wide sharply erect dark green	70-90	purple head dark purple cloves	slightly flattened round	9-11	6	very healthy, large bulbs
<b>IVAN</b>	hard neck, for autumn sowing	mid-early	wide erect green	80-120	creamy head violet cloves	slightly flattened round	6-7	6	very healthy, large bulbs
<b>KAREL IV.</b>	hard neck, for autumn sowing	mid-late	wide erect with bent tops dark green	70-90	creamy head violet cloves	slightly flattened round	5-7	7	stable high yield
<b>ADAM</b>	soft neck, for spring sowing	early	fine bent tops light green	30-50	creamy white	slightly flattened round	10-12	10	excellent plant health, for long-term storage

\* Valid for sowing density 180 000 plants/ha and lower



STEPAN



OTAKAR



IVAN

# Garlic

*Allium sativum* L.



More about all our Garlics

## STEPAN

A mid-early variety of overwintering soft neck garlic for autumn planting and a harvest time of around 10th July (in Central European conditions). Bulbs weigh 80–100 g (immediately after harvest) and have creamy white wrappers and 8–12 brown-skinned cloves. Good health, long term storability and a delicious taste are the most important characteristics of this variety. Intermediate to long day type.

## OTAKAR

Overwintering hard neck garlic for autumn planting. The earliest garlic from our range (harvest around July 5, about 5 days earlier than variety STEPAN – valid for Central Europe conditions). Purple onions weigh from 70 to 90 grams. They contain 9–11 plump cloves covered with nice dark purple skin. OTAKAR has medium-wide dark green leaves that are sharply erect and almost do not bend. The advantages of this new garlic include not only earliness and very attractive appearance but also a good health, long storability and strong but nice garlic flavor.

## IVAN

Mid-early overwintering hard neck garlic. Under Central European conditions the bulbs are harvested between 10–15th July (about one week before KAREL IV.). Vigorous leaves and very big bulbs (80 to 120 grams) are important characteristics of this nice garlic. Creamy colored bulbs with violet strips contain 6–7 brown-violet skinned cloves which peel easily. A strong garlic aroma is typical for this variety. IVAN has been shown to yield well in favorable and stressful conditions. Suitable for long-term storage. Long day type.

## KAREL IV.

A mid-late overwintering hard neck variety that produces large bulbs 70–90 g (immediately after harvest) with creamy wrappers and 5–7 violet skinned cloves. Under Central European conditions the bulbs are harvested between 15–20th July. Performs well in adverse weather conditions, producing big yields in both dry and wet conditions. Stores well. Grows vigorously in the spring, making this variety very good for bunching. Long day type.

## ADAM

An early variety for spring sowing with pleasant delicate taste. In Central European conditions the harvest is around 15th July. It has smaller than average bulbs (30 to 50 grams) with a fine white creamy skin. It contains 10 to 12 narrow curved cloves, with a light violet skin. ADAM is well adapted to low temperatures and is suitable for very early spring plantings. The most important advantages of this variety are long-term shelf life (bulbs can be successfully stored until the new harvest) and excellent plant health. Intermediate to long day type.



KAREL IV.



ADAM



STEPAN



BYSTRIN F1



ODRIN F1



PRAGA

## Leek

*Allium porrum L.*



More about all our Leeks

Many years of our breeding has resulted in our three hybrid leeks. Their common feature is high yield, fast growth, and good health – all under the less favorable climatic conditions. The feedback of trials in many countries has been excellent. We expect these three hybrids to find their place in the market very quickly.

### BYSTRIN F1

A leek with a long white shank for early July harvest (in Central Europe conditions) also suitable for fields covering by row cover. BYSTRIN has showed very long field life - we can keep it on the field until autumn. The plants are very tall with light green and very upright leaves. BYSTRIN is very resistant to high temperatures and lodging.

- Growing period 75 days (from planting to time of first possible harvest in Central Europe)
- Length/diameter of the white shaft 45/3 cm
- Light green leaf

### MORAVIN F1

A medium tall and very fast growing leek for harvest from August through October (in conditions in Central Europe). The advantage of MORAVIN is high tolerance against diseases and thrips. It also tolerates both cold and high temperatures very well. Tolerant to lodging.

- Growing period 85 days (from planting to first possible harvest, valid for Central Europe)
- Length/diameter of the white shaft 35/5 cm
- Dark green leaf

### ODRIN F1

A winter variety with superior cold tolerance and a short but robust plant. It has a very strong root system and grows fast, even at low temperatures. In the spring it grows much faster than the Dutch varieties. ODRIN is also very resistant to bolting. Harvest November through April (in conditions in Central Europe). Resistant to lodging.

- Growing period 100–140 days (from planting to first possible harvest, valid for Central Europe, depends on day of planting)
- Length/diameter of the white shaft 30/6 cm
- Blue-green leaf



MORAVIN F1



ODRIN F1

## Chives

*Allium schoenoprasum L.*



More about all our Chives

### PRAGA

An early chive with firm, dark green leaves and an intense chive aroma. Good for fresh market and potted plants.

### ERECTA

An early variety with thick, erected leaves. Delicious flavor, on the other hand the aroma is not as intense as PRAGA, making it very good for

mixed vegetable salads. A perfect variety for both fresh and pot markets.

### **P** PRAGUE SPRING

Improved PRAGA variety with more uniform and more upright plant habit, straighter leaf and delicate taste. Adaptable for various climate and growing methods in both open field and green house including production of flower pots. Nice chive for flower pots and fresh consumption.



PRAGUE SPRING



ANDELSKA KRIDLA



BABY BOO



Z BRADAVIC

## Gourd ornamental

We offer an attractive assortment of ornamental gourds that are grown for their decorative value as they are very attractive, colorful and can be stored for a long time. They are inedible and not intended for consumption unless otherwise noted.

### ANDELSKA KRIDLA

Attractive fruits with „wings“ that come in a mix of different colors (14–18 cm long).

### BABY BOO

Small, white, flattened round fruits (8–10 cm diameter).

### Z BRADAVIC

Fruits with warts that come in a mix of colors (15–20 cm long).

### CELEBRATION F1

Flatly round, creamy yellow fruits with orange stripes, excellent eating quality, diameter 8–10 cm.

### GALAXY OF STARS F1

A mix of star shaped fruits in various striped colors and bicolor patterns.

### JACK BE LITTLE

Orange, flattened round, deeply ribbed fruits (8–10 cm diameter).

### KACENKY

Yellow „crookneck“ shaped fruits (18–25 cm long).

### GA GA GA F1

Ornamental crookneck squash for both type of use. The young light yellow fruits with buttery flavor and firm texture are nice for cooking. Fully ripen golden-yellow blistered fruits can be used as very attractive autumn and winter decorations. The vigorous bushy plants offer fruits for long picking period. Weight of fruit is about 600 grams (size 25 x 8 cm).

### MINI TURBAN

A very attractive miniature version of the famous Turkish Turban, diameter 13–18 cm.

### PEAR BICOLOR

Bicolor (green-yellow), pear shaped fruits (12–15 cm long).

### SWEET DUMPLING

Decorative fruit with excellent eating quality. Flattened round white fruits with green stripes (8–10 cm diameter).

### TRNOVA KORUNA

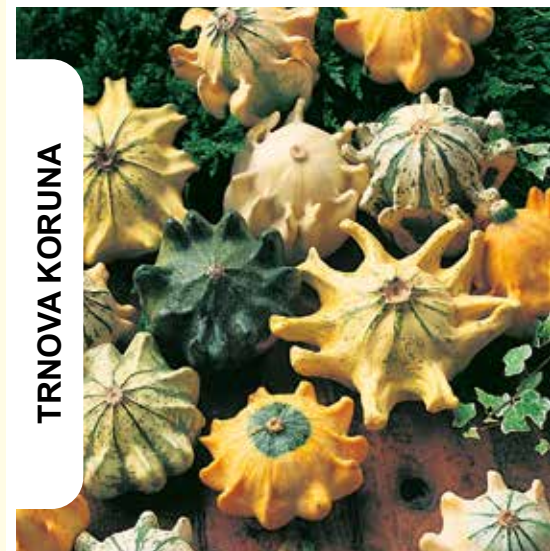
Very decorative fruits with a Crown of Thorns shape. Comes in a mix of colors (diameter 8–10 cm)



JACK BE LITTLE



KACENKY



TRNOVA KORUNA

# Butterhead Lettuce

*Lactuca sativa L. var. capitata L.*



More about all our Butterheads

SMARAGDUS

Our customers can choose from many varieties of butterhead, iceberg, leaf and cos/romaine lettuces. The common features of them all in PROFI series are:

- Good health (resistance to most important NL and BL races)
- Good field-holding ability
- Suitability for medium-term storage

We produce our lettuce seeds in Chile, where the optimal combination of high altitude, plenty of sunshine and low humidity typically result in seed lots with superior germination and seed health.

The seeds are produced in protected net houses and certified as 100% "LMV free". We offer not only NORMAL and PRECISION seeds but also pills/pellets. Seed pelleting of some of our varieties is made by the Dutch company INCOTEC. We offer „Split Pill“ 2.75 mm pills. You can find our pills offered in our price list for the current season.

Confidently like "The Magnificent seven" comes on the scene our new brand lettuces: butternut variety SMARAGDUS, KAMENEX, SAFIRUS, TITANUS, HAKON, SATURION and Batavia type lettuce – BATAVUS. All seven varieties are characterized by high resistance to bolting - they are suitable for all year growing. Next common feature is excellent health condition including resistance to Bremia Lactuca and also high tolerant to rot. New lettuces have strong but crispy leaves and they are tolerant to transport and storability.

KAMENEX

TITANUS

## **N** SMARAGDUS

A very early variety with small heads. Ideal for greenhouses and all types of indoor growing. All year round open field growing is also possible. SMARAGDUS is shiny yellow – green with slightly blistered leaf, 150–200 grams attractive sturdy heads with good storability.

## **N** KAMENEX

An early butterhead with sturdy green heads which hold well. Heads, 250–300 grams, are well-packed with smooth leaves. Universal lettuce for indoor and open field growing. Upright leaves increase its resistance to rot. A follower of our CITRIN variety.

## **N** TITANUS

A mid-early upright, light green butterhead with smooth texture. Full size heads, 350–400 grams heads with excellent flavor and good storability. Ideal variety for spring and autumn field growing.

## **N** HAKON

A mid-late butterhead with large sturdy heads, 350–400 grams. Lettuce Hakon is yellow-green with slightly blistered leaves. It is adapted for all year growing, including summer and autumn plantings. It's very tolerant to rot. Hakon is a follower of our MARATON variety.

## **N** SATURION

The optimal variety for a large family dinner. The heads of this butterhead weigh up to 600 grams. SATURION is a nice light green variety with smooth leaves. It is suitable for all year open field growing including summer plantings. Good storability, follower of the varieties MARS and MARSALUS. Nice lettuce also for processing industry.

## **C** CERVANEK

This red-green butterhead lettuce is ideal for outdoor growing in the spring and autumn. Its blistered heads are firm and heavy (about 360 g). High tolerance to low and high temperatures and good tolerance to bolting. Red lettuce with excellent flavor and texture.

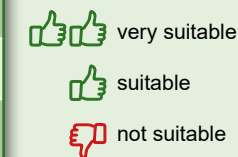
HAKON

SATURION

CERVANEK

## Butterhead Lettuce

Variety	Growing season (Central European conditions)				Earliness	Head			High resistance to Bremia lactucae (races)	General remarks
	indoor	spring	summer	autumn		weight (g)	leaf surface texture	color		
<b>BREMEX</b>	👍👍	👍	👍👍	👍	very early	175	slightly blistered	matt green	16-25	because of its extreme tolerance to bolting it is very suitable for growing in summer
<b>SMARAGDUS</b>	👍👍	👍	👍	👍	very early	175	slightly blistered	yellow-green	16-26	very attractive firm heads, for greenhouses and for all year round field growing
<b>KAMENEX</b>	👍👍	👍👍	👍	👍👍	early	275	smooth	matt green	16-26	universal lettuce for all year growing upright leaves increase resistance to rot
<b>SAFIRUS</b>	👍👍	👍👍	👍	👍👍	early	325	slightly blistered	light green	16-20, 22-29, 31	shiny green lettuce with slightly blistered leaf tolerates stress well
<b>MARS</b>	👎	👍👍	👍👍	👍👍	very early	340	smooth	green	16-21, 23-25	confirmed very fast growing lettuce mainly for summer growing
<b>TITANUS</b>	👍	👍👍	👍	👍👍	mid-early	375	smooth	light green	16-26, 31	ideal lettuce for spring and autumn field growing very good storability
<b>MERKURION</b>	👎	👍👍	👍	👍👍	mid-early	380	smooth	green	16-24	intermediate resistance to LMV, uniform sized heads
<b>HAKON</b>	👎	👍👍	👍	👍	mid-late	400	slightly blistered	yellow-green	16-24	thanks to the proportion of the iceberg blood, it is very tolerant to high temperatures
<b>SATURION</b>	👎	👍👍	👍👍	👍👍	mid-late	500	smooth	light green	16-26, 31	Intermediate resistance to LMV high tolerance to high temperatures
<b>CERVANEK</b>	👎	👍👍	👎	👍👍	early	360	slightly blistered	reddish	16-19, 21-25	attractive red color and delicious taste high tolerance to low and high temperatures
<b>HUMIL</b>	for open field overwintering				early	340	slightly blistered	light green	not tested	confirmed for overwintering in the Central Europe and areas with a similar climate



**MERKURION**



**BREMEX**



**MARS**



**HUMIL**



# Lettuce – Cos, Iceberg, Batavia and Leaf type

*Lactuca sativa L.*



More about all our Lettuces

GELBUS



## GELBUS

A mid-early romaine with very attractive yellow-green leaves and intermediate resistance (IR) to LMV. Heads are well formed and weigh about 700–800 g. Good for spring and autumn production. Suitable for selling as individual heads as well as for indoor and outdoor baby leaf production. Young leaves are very firm and grow upright.

## MEDIMO

A mid-early Iceberg lettuce for all year production with extremely good bolting resistance. Well wrapped heads are uniform with slightly blistered leaves and average weight of more than 450 g. MEDIMO can be grown successfully in hot summers as it shows high tolerance to heat and intermediate resistance to Sclerotinia Rot and to LMV. MEDIMO is one of the most tolerant icebergs to Tipburn caused by lack of calcium uptake.

## **N** BATAVUS

A Batavia type variety with many advantages and different types of uses including "cut and come again" harvesting. The leaves are curled, crunchy and juicy. BATAVUS creates open heads of upright curly leaves in winter or under very early spring indoor growing conditions. When grown later it forms firm and well-closed heads. BATAVUS is high heat resistant variety and can be grown from early spring to late autumn. It is nice breed for covered open field production first of all. Very healthy lettuce with good storability.

BATAVUS



## DARK RODEN

A red Bowl type with big dark red leaves that resemble chicory but are less bitter. Makes a loose head of very curly leaves weighing over 400 grams. Very healthy plants. Mid-early variety for spring and autumn field planting.

## ZLATAVA

An early, yellow-green Lollo type, 380 grams, for spring, summer and autumn growing. Its tight curly leaves and very crisp and crunchy texture makes ZLATAVA excellent as a salad ingredient.

## DUBARED

A mid-early red Oak-leaf lettuce with really large heads, 480 grams. Attractive shiny lobed leaf is red and turning green towards the heart. A buttery texture and mild sweet flavor make DUBARED very suitable for all kinds of fresh use. High yielding variety with heat tolerance mainly recommended for spring and autumn growing.

## DUBAGOLD

A mid-early green Oak-leaf lettuce with really large heads, 500 grams. Shiny golden-green lobed leaves are soft and delicious. A buttery texture and never bitter flavor make DUBAGOLD very suitable for all kinds of fresh using including "cut and come again". High yielding variety with proven bolt resistance for year-round growing (spring, summer and autumn). Extended field and shelf life.

DARK RODEN



ZLATAVA



DUBAGOLD





## Leaf Lettuce

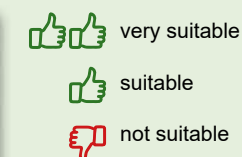
Variety	Growing season			Maturity	Head			High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf type	color		
RODEN	👍👍	👍	👍👍	mid-early	400	BOWL	red	not tested	heat tolerant
DARK RODEN	👍👍	👎	👍👍	mid-early	420	BOWL - CHICORY	dark red	16-25	dark red upright "chicory" type leaves
KARMINOVA	👍👍	👍	👍👍	early	350	LOLO	dark red	not tested	LOLLO ROSSA for all season growing
ZLATAVA	👍👍	👍	👍👍	early	380	LOLO	yellow-green	not tested	LOLLO BIONDA for all season growing
DUBARED	👍👍	👎	👍👍	mid-early	480	OAKLEAF	red	16-23	heat tolerant, large heads
DUBAGOLD	👍👍	👍	👍👍	mid-early	500	OAKLEAF	yellow-green	16-24	high bolting tolerance, large heads

## Iceberg and Batavia Lettuce

Variety	Growing season			Maturity	Head			High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf type	color		
<b>Iceberg Lettuce</b>									
MINIKO	👍👍	👍	👍👍	very early	400	smooth	green	21, 24, 25	small firm head, excellent bolting tolerance
MEDIMO	👍	👍👍	👍	mid-early	450	slightly blistered	green	17, 21	intermediate resistance (IR) to LMV, high level of tolerance to head rot
MAXIMO	👍	👍👍	👍	mid-late	500	slightly blistered	green	17, 18, 21, 25	intermediate resistance (IR) to LMV, really large head nice, even for processing
<b>Batavia Lettuce</b>									
LEDANO	👍👍	👎	👍👍	early	460	slightly blistered	yellow-green	17-18, 21-25	attractive yellow-green heads "BLONDE DE PARI" type
BATAVUS	👍	👍👍	👍👍	mid-early	350	significant blistered leaves	green	16, 20-28, 30, 31	open heads in winter or early spring and well-closed heads from later growing

## Cos Lettuce

Variety	Growing season			Earliness	Head				High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf surface texture	shape	color		
GLOBUS	👍👍	👎	👍👍	mid-early	900	smooth	round	green	1, 2, 5-12, 16, 21, 24, 25	round head which is unusual for cos lettuce types also very good for baby leaf
GELBUS	👍👍	👍	👍👍	mid-early	700	slightly blistered	oval	yellow green	1-25	intermediate resistance (IR) to LMV attractive color, crispy pleasant taste





KLARIA



AENEUS F1



ELISTA



ALICE

# Onion

*Allium cepa L.*



More about all our Onions

## KLARIA

A mid-early variety of spring onion with American x Rijnsburger blood. The round bulbs have thick brown to yellow colored skins. KLARIA is very resistant to environmental stresses due to its strong roots. The leaves are very erect with thicker layer of wax and dry quickly. This results in high tolerance to Mildew. High yielding onion with good storability.

## AENEUS F1

A mid-early hybrid with an extensive root system and strong upright leaves combine American and Spain blood. The bulbs of AENEUS are uniform with thick bronze skin and thin necks that dry quickly. Suitable for long-term storage. Stable high yields, tolerance to dry condition, Mildew resistance and long storability are the main advantages of this hybrid.

## ELISTA

An early onion with bulbs of elongated shape. ELISTA has an attractive bronze skin and good storage ability. Chefs value this variety for its shape as it is ideal for slicing into uniform onion rings.

## KARMINKA

An early spring onion forming attractive elongated bulbs. The color of the skin and inner rings is intense red. Suitable for fresh market and often marketed as a set. Ideal for slicing into uniform onion rings. For medium-term storage.

## ALBIENKA

A mid-early variety with an attractive white skin. Flattened round bulbs are excellent for bunching and for pearl onions. ALBIENKA is also used for growing onion sets. Bulbs have high dry matter content (more than 14 %), making them suitable for processing, especially for drying. Suitable for short-term storage.

## WINTERIA

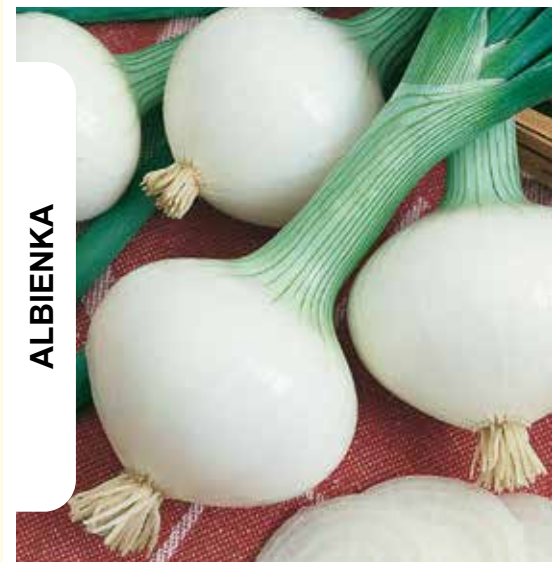
Our new mid-early overwintering onion with stable high yield even in stressful conditions. The uniform bulbs are nice, globe shaped with firm yellow skin. WINTERIA offers very strong winter hardness and is also very tolerant to bolting. Suitable for medium-term storage.



GLOBO



KARMINKA



ALBIENKA

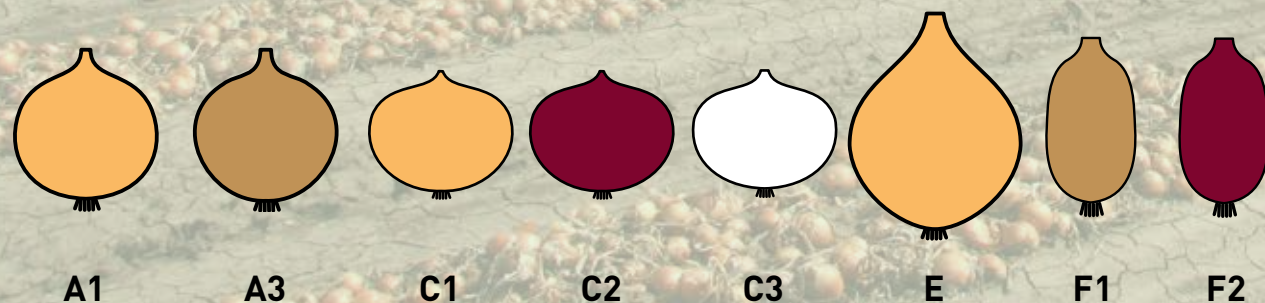


WINTERIA

# Onion

\* valid for central Europe conditions

Variety	Type	Growing period from sowing (days) *	Skin color	Bulb shape		Dry matter %	Bulb weight (g)	Storage (1 - 10) 1=very short 10=very long	Recommended sowing rate (UNIT/ha) 1 UNIT = 250 000 s
<b>For spring sowing *</b>									
<b>GLOBO</b>	intermediate day	117	yellow	round	E	10.4	400	3	2.0 - 3.0 UNIT
<b>LUSY</b>	long day	120	yellow-bronze	round	A1	12.0	130	7	3.5 - 4.0 UNIT
<b>ALICE</b>	long day	123	yellow	round	A1	12.4	130	7	3.5 - 4.0 UNIT
<b>DAGMAR</b>	long day	125	bronze	round	A3	11.6	140	6	3.0 - 3.5 UNIT
<b>KLARIA</b>	long day	126	bronze	round	A3	14.0	165	8	3.0 - 3.5 UNIT
<b>WELLINA</b>	long day	130	yellow	round	A1	14.0	125	7	3.0 - 3.5 UNIT
<b>AENEUS F1</b>	long day	135	bronze	round	A3	14.5	160	8	3.0 - 3.5 UNIT
<b>ELISTA</b>	long day	122	bronze	elliptic	F1	13.0	110	6	4.0 - 4.5 UNIT
<b>ALBIENKA</b>	long day	125	white	flattened round	C3	14.0	105	4	3.5 - 4.0 UNIT
<b>KARMEN</b>	long day	126	red	flattened round	C2	13.8	110	7	3.5 - 4.0 UNIT
<b>KARMINKA</b>	long day	120	red	elliptic	F2	13.2	90	6	4.0 - 4.5 UNIT
<b>For overwintering *</b>									
<b>SENSHYU YELLOW</b>	short day	early	yellow	flattened round	C1	10.5	110	3	4.0 - 4.5 UNIT
<b>AUGUSTA</b>	short day	mid-early	yellow	flattened round	C1	10.5	110	3	4.0 - 4.5 UNIT
<b>WINTERIA</b>	short day	mid-early	yellow	round	A1	11.0	115	4	4.0 - 4.5 UNIT





SNOW QUEEN F1



GERDA



FESTIVAL 68

## Bunching Onion

(*Allium fistulosum*)



More about all our Bunching Onions

### SNOW QUEEN F1

A very early hybrid producing fine shanks with dark green leaves. Suitable for production in the autumn and spring. High uniformity and cold tolerance are the main advantages of this bunching onion.

### GERDA

A very early variety (70 days in conditions of Central Europe) with a delicious taste and dark green, upright foliage. White shanks are 8–10 cm long. The big advantages of GERDA are very early maturity and high resistance to stress. GERDA is also tolerant to low and high temperatures. Suitable for year-round growing, especially for early spring sowing. Not intended for overwintering but in Mediterranean and regions with a similar mild climate it survives winter very well. An excellent variety overall.

### KAJ

KAJ is a mid-early variety (80 days in conditions of Central Europe) with upright leaves. Can grow up to 70 cm with white shanks about 10–12 cm long that make KAJ particularly nice for bunching. Widely adapted and suitable for spring to autumn harvest. Deep green leaves have thicker waxy layer than other varieties, making this variety more resistant to Downy Mildew than typical bunching onions. Its high tolerance to fungal diseases makes it good choice for summer sowing, where there is a greater likelihood of fungal diseases. Not intended for overwintering but in Mediterranean and regions with mild climates it survives winter well.



KAJ



MARUNKA

## Parsley-leaf

(*Petroselinum crispum* (Mill.))



More about all our Parslies

### GIGANTE D'ITALIA (GIANT OF ITALY)

Standard European variety with large dark green leaves. A high yielding parsley producing flat, dark green leaves of excellent flavor. Ideal for salads and cooking. Suitable for both fresh markets and processing. We offer seeds from our own selection.

### FESTIVAL 68

A vigorous plant with numerous dark green leaves and great flavor. FESTIVAL 68 is resistant to Powdery Mildew and Septoria. This high yielding variety is suitable for both fresh market and processing, especially drying.

### MARUNKA

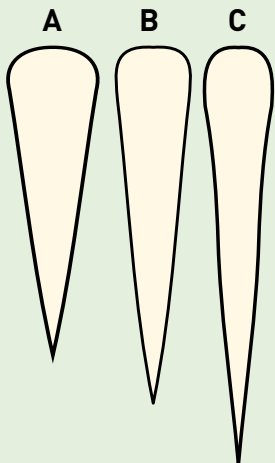
A Mooskrause type variety for indoor and outdoor production. High yielding, medium green, very curly tops on upright plants. Leaves are resistant to Mildews. MARUNKA is suitable for fresh use and for drying. First harvest in 95 days from sowing (Central European conditions).

### KUDRNKA

A Paramount type with dark green, highly curled leaves on long leafstalks. Tops are semi-upright. They do not lodge in rain, and are resistant to Powdery Mildew. Suitable for spring and summer sowings and for indoor growing. Excellent for fresh use and for drying. Good for bunching. First harvest in 95 days after sowing (Central European conditions).



KUDRNKA



# Parsley - root

*Petroselinum crispum* (Mill.)



More about all our Parslies

We focus on breeding of root parsleys. Root parsley is indispensable part of Central European cuisine and has been grown in the Czech lands since times immemorial.

Our new varieties exceed the competing ones mainly due to their excellent health. Powdery Mildew, Rot and Rust tolerance are matter of course. Our customers can choose among NORMAL, PRECISION or PRIMED PRECISION seeds. The PRECISION seeds of root parsley are improved with SEMO Vital. It is the whole set of improving substances. It includes physical disinfection of seeds and the application of supporting substances that improve germination, support the development of the root system and the adaptation of plants to stress.

## ATIKA

An early variety of root parsley with high resistance to Powdery Mildew. The fast growing conical roots are shiny, white and very smooth. The tops are medium tall. Excellent for bunching. ATIKA stores very well and is also suitable for processing, especially drying. ATIKA has shown very high tolerance to root Rot, even in wet years and in heavy soils.

## EFEZ

A mid-late high yielding variety that stores well and is tolerant (IR) to Powdery Mildew, Rust, Rot and also against Bacteriosis. The roots are smooth, wide and 20–23 cm long. Suitable for bunching and for long-term storage. In lower sowing density (till 0.8 million seed/hectare) EFEZ creates very large roots that are perfect for processing. Worldwide (known) parsley with the healthiest and most shiny leaves.

## ORBIS

A mid-early variety characterized by healthy plants and high yields. Dark green upright tops with medium long conical roots. ORBIS performs well in heavy soils. ORBIS is suitable for long-term storage and for all types of processing.

## TROJA

TROJA produces good yields of smooth wide big roots with short but strong leaves. Mid-late maturity. TROJA is good for long-term storage. Plants are healthy and offer high tolerance (IR) to Powdery Mildew and Bacteriosis. We can also recommend it even for growing in heavy soil.



ATIKA



EFEZ



TROJA

Variety	Maturity	Days from sowing to harvest* (days)	Root			Tops	Recommended sowing rate (million seeds/ha)		General remarks
			shape	length (cm)	storage		NORMAL precision seed	PRIMED precision seed	
ATIKA	early	170	B	19 - 22	long-term	medium	1.0 - 1.2	0.8 - 1.0	resistant to root Rot, perfect for bunching, very smooth roots
ORBIS	mid-early	182	B	20 - 22	long-term	high	1.0 - 1.2	0.8 - 1.0	high yielding grows well even in heavy soils
EFEZ	mid-late	185	A	20 - 23	long-term	high	1.0 - 1.2 (0.8 for processing)	0.8 - 1.0	resistant to root Rot and Powdery Mildew, grows well even in heavy soils, the parsley with the healthiest and shiniest leaf
TROJA	mid-late	185	A	20 - 21	extremely long-term	medium	1.0 - 1.2	0.8 - 1.0	healthy variety including tolerance to Bacteriosis, grows very well even in heavy soils
JADRAN	late	193	C	20 - 22	long-term	high	1.1 - 1.3	0.9 - 1.1	resistant to Powdery Mildew, very good for sandy soils
OLOMOUCKA DLOUHA	late	200	C	21 - 23	long-term	medium	1.1 - 1.3	0.9 - 1.1	traditional variety, very long roots

\* valid for central Europe conditions



DLOUHY BILY

## Parsnip

*Pastinaca sativa L.*



More about all our Parsnips

### DLOUHY BILY

DLOUHY BILY is vigorous and produces high yields of long, sharply pointed 25–30 cm white roots. Good disease resistance. Excellent for fresh market as well as for processing, especially drying. Stores very well. Approximately 200 days from sowing to harvest (in Central European conditions).

### BIELAS

Earlier than DLOUHY BILY (about 180 days from sowing in Central European conditions). Vigorous foliage and smooth wide conical roots. Suitable for fresh market, long-term storage and all types of processing.



BIELAS



AMBROSIA

## Sugar Pea

(substitutes – Snap Pea, Snow pea)

*Pisum sativum L. convar. axiphium Alef. Emend C.O. Lehm*

### AMBROSIA

A very tasty mid-early variety with a bushy (dwarf) growth habit. Good yields of pale green pods. Maturity in 55 days from sowing (Central European conditions).

### SWEET SALOME

Snap pea variety to be grown with support. Very large, light green pods (9 cm long and 3 cm diameter) have a delicious sweet taste. Suitable for fresh market. Maturity in 60 days from sowing (in Central European conditions).



SWEET SALOME



AKACIA

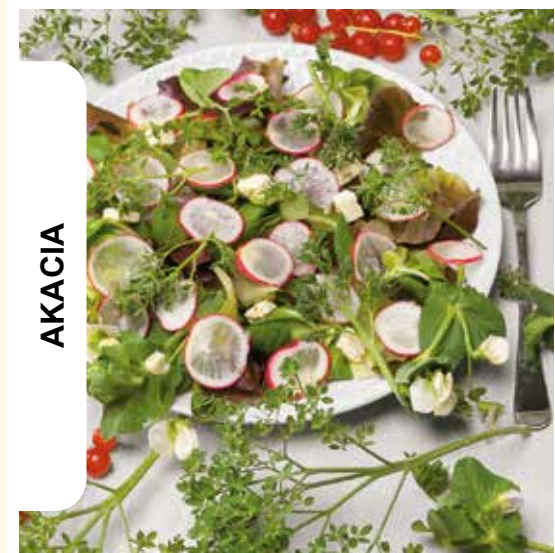
## Parsley (curled) Pea

*Pisum sativum convar. sativum*

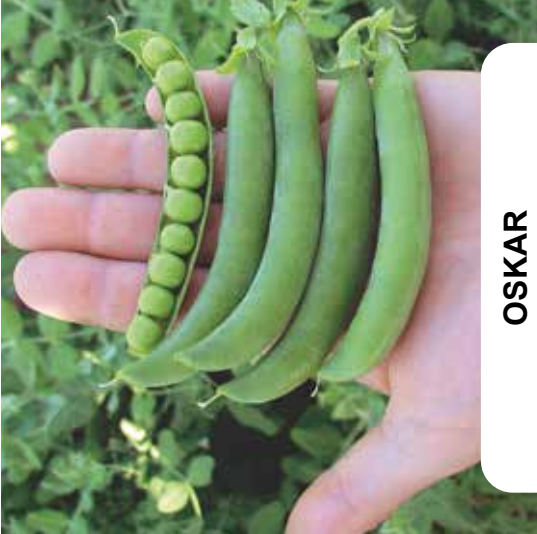
### **N** AKACIA (SM 841/13)

Special "parsley" pea variety for harvest of pea shoots. The name of the variety comes from a certain similarity with acacia leaves. The shoots of pea AKACIA form branched rosettes of tiny leaves. The shoots are cut at young stage when they have sweet pea flavor. They are both tasty and decorative and offer many type of uses. They can flavor and decorate salads or create a wonderful

vegetable garnish. It will be appreciated by amateur gardeners or cooks as well as restaurateurs and professional chefs. Larger round seeds can also be used - the tastiest are from young pods. Fully ripe pods with dry yellowish seeds inside can be used for cooking – soups, purees etc. Among the advantages of the AKACIA is the upright Afila type non-sloping growth and good disease package.



AKACIA



OSKAR



ARTIST (SM-727/10)



TWINSET

## Green Pea

(substitutes - Wrinkled Pea, Shelling Pea)

*Pisum sativum L. convar. medullare Alef. Emend C.O. Lehm.*



More about all our Wrinkled Pea

SEMO offers a complete range of green pea varieties, from small to large seeded and from very early to late. The range includes top quality, very early varieties for fresh market, freezing and canning. The breeding program has put great emphasis on plant health, including resistance to Fusarium Oxysporum, Powdery Mildew, PEMV (Pea enation mosaic virus), PSbMV (Pea Seed-borne Mosaic Virus) and other diseases.

### OSKAR

This is our most popular shelling pea variety. It is high yielding, very early and has long pods with large seeds. Ideal for both hand picking and mechanized harvest. This best-selling variety has proven its suitability under very variable climatic conditions and has shown to perform well in Northern Europe as well as in Mediterranean areas.

### **P** ARTIST (SM 727/10)

Our long-awaited very early pea of the new generation with a large pod and grains. It is intended for harvesting of whole pods as well as for combine harvesting and subsequent canning or freezing. The important advantage is excellent health including resistance (HR) to Fusarium, Powdery Mildew and PSbMV. ARTIST provides stable high yields and tolerance to environmental stresses.

### TWINSET

A mid-late, big seeded variety with large blunt pods. High yields and long, straight pods (9 cm) make TWINSET ideal for both manual and mechanized harvests. Nice resistance package - HR: Fusarium, Erysiphe pisi an PSbmMV.

### **P** ANTONY (SM 764/14)

An early Afila type with perfect health, high stable yield and very uniform pods ripening. This pea of the new generation brings, above all, perfect raw material for canning and freezing. It retains its dark color and sweet taste even after processing. The long pod and large grains certainly attract attention even for harvesting pods for the fresh market. Excellent resistance package - HR: Fusarium, Erysiphe pisi, PSbMV, PEMV and IR: Powdery Mildew.

### **P** MEDUZA (SM 767/14)

MEDUZA is another variety of new generation. It comes from our breeding program too. It is mid-early Afila type variety. Perfect pea quality and stable, very high yield even in unfavorable growing conditions. Variety for the production of canned and especially frozen green peas. Its excellent taste and beautiful dark pods will definitely be appreciated also by the fresh market.

Extended resistance package - HR: Fusarium, Powdery Mildew, Erysiphe pisi, PEMV and IR: Powdery Mildew.

### AMYLAN

This variety is a special Afila type green pea. The pea seed of AMYLAN is intended for harvest in dry maturity when it is high in amylose and suitable for processing in the food industry – for canning, green pea cooking or production of protein pea powder. AMYLAN has a robust plant similar to field pea. However the character of the pod and seeds corresponds to the green pea varieties.



ANTONY (SM 764/14)



MEDUZA (SM 767/14)



AMYLAN

## Green pea

Variety	Growing period from sowing to harvest		Plant Recommended for				Pod			Seed		
	in heat units (°C)	relative to AVOLA (days)	leaf type	height (cm)	first fertile node	number of pods per node	length (cm) summer season	shape	number of peas	TSW** of dry seeds (g)	color	Ø (mm)
<b>AVOLA</b> our own selection	660	0	normal	65 - 75	8	1	8	blunt	7 - 8	210	dark	9,7
<b>JUNOS</b>	684	+2	normal	65 - 75	8	1	9	pointed	8 - 10	195	dark	9,7
<b>OSKAR</b>	684	+2	normal	70 - 80	8	2	9	pointed	8 - 10	210	dark	9,7
<b>ARTIST</b> (SM 727/10)	690	+2	normal	60 - 70	8	2	9	pointed	8 - 10	200	dark	9,6
<b>DRAGON</b>	710	+4	normal	65 - 75	9	2	6	blunt	6 - 7	125	dark	8,6
<b>VLADAN</b>	733	+4	normal	65 - 75	9	2	7	blunt	5 - 6	220	dark	9,7
<b>ANTONY</b> (SM 764/14)	744	+7	afila	35 - 45	10	2	9	blunt	8,5 - 10	190	dark	9,5
<b>MEDUZA</b> (SM 767/14)	761	+8	afila	35 - 45	10	2	8,5	blunt	7 - 9	195	dark	9,5
<b>RADOVAN</b>	833	+13	normal	70 - 85	12	2	7,5	pointed	7 - 9	185	dark	9,6
<b>JOHAN</b>	848	+14	normal	60 - 80	13	2	9	pointed	8 - 10	180	dark	9,8
<b>WIKI</b>	860	+14	normal	70 - 90	14	2	8	blunt	8 - 10	170	dark	9,9
<b>CETRIS</b>	866	+14	normal	65 - 75	12	2 - 3	7	blunt	6 - 8	115	dark	8,5
<b>TWINSET</b>	883	+15	normal	60 - 75	13	2	9	blunt	8 - 10	190	dark	9,1
<b>MORRIS</b>	897	+17	normal	60 - 80	15	2 - 3	7	blunt	6 - 7	150	dark	8,6
<b>CEDRIK</b>	897	+17	normal	80 - 100	16	2	9	blunt	7 - 8	210	dark	9,8
<b>RADIM</b>	900	+18	normal	60 - 70	15	2	9	pointed	8 - 10	185	dark	8,9
<b>DALILA</b>	917	+19	normal	70 - 80	14	2	7	blunt	6 - 8	200	dark	9,9
<b>AMYLAN</b>	-	-	afila	80 - 100	15	2	8	blunt	6-8	200	dark	9,8



Recommended use		Resistance						General remarks
harvest of whole pods	mechanical harvest for canning or freezing	Fop1	Fop2	Ep	Pv	PSbMV	PEMV	
		IR						the earliest well-known variety, our own selection of AVOLA
		IR						slowly over ripening green pea, perfect for home gardens
		HR	IR					big pods, stable yield, tolerant to both low and high temperatures
		HR	HR	HR		HR		new generation of early green pea, strong health, for both fresh market and industry
		IR	HR					high yielding variety with fine, very tasty seed, especially for freezing
		HR	HR					thick stem, dark leaf, rich root system = performs well even in dry conditions
		HR	HR	HR	IR	HR	HR	early Afila with perfect health, high stable yield and very uniform ripening
		HR	HR	HR	IR		HR	mid-early Afila, high yield, perfect pea quality, bred for freezing industry
		HR						stable high yield even in poor conditions and seasons, high lodging resistance
		HR	IR	HR		HR		highly recommended for both – fresh market (because of big straight pods) and processing
		HR	IR	HR		HR		nice results even in poor seasons, popular with canneries and freezers
		HR	HR					"petit pois" type, three pods per nod also interesting for the fresh pods market
		HR	IR	HR		HR		high yielding with long, straight pod, nice for both fresh market and industry
		HR	HR	HR				resistant to important fungal diseases, nice for both canning and freezing
		HR	IR	HR		HR	HR	really strong plant, nice for fields without irrigation, stress tolerant variety
		IR						dark green, late variety with a long pod, for both canning and also processing industry
		HR						popular late green pea with large blunt pods, high yield and healthy plants
	for canning after blanching	HR						special green pea for harvest in dry maturity when it is high in amylose and suitable for processing in the food industry

- very suitable
- suitable
- not suitable

**Legend:**

**Resistances:**

- Fop 1** = Fusarium oxysporum f. sp. pisi Race 1 (Fusarium wilt)
- Fop 2** = Fusarium oxysporum f. sp. pisi Race 2
- Ep** = Erysiphe pisi (Powdery mildew)
- Pv** = Peronospora viciae (Downy mildew)
- PSbMV** = Pea Seed-borne Mosaic Virus
- PEMV** = Pea enation mosaic Virus

**Definition according to ISF rules** (International Seed Federation):

- IR** = intermediate/moderate resistance
- HR** = high / standard resistance

\*\* Thousand seed weight

# Sweet pepper

*Capsicum annuum L. (partim)*

More about all our Peppers



RAFAELUS F1



Peppers are one of SEMO's most important crops. We offer a wide range of pepper types. Every year our breeding program introduces new varieties with a main focus on „Hungarian“ and green pyramid-shaped peppers. Our sweet assortment includes blocky, kapia and snack type of peppers. We also offer a wide range of hot peppers (chilis).

## **N** RAFAELUS F1

A very early kapia type pepper with wider pyramidal fruits. RAFAELUS is primarily intended for harvesting fruits in botanical maturity – dark red. Solid fruits tolerate transport and short-term storage. They are suitable for fresh market as well as for canning or freezing. Sweet pepper RAFAELUS is characterized by stable high yield and tolerance to fungal diseases and Bacteriosis.

## **N** SLAVUS F1

A new widely adaptable hybrid with excellent fruit uniformity and continuous production during the entire growing season. Perfect in hoophouses and the open field. Wide conical fruits ripen from green to red. Good for harvesting at green and red stages for the fresh market. A very promising pepper, especially for intensive field growing.

## **N** GOLDUS F1

A new hybrid with heavy, thick-walled fruits. It ripens from green to yellow and is well marketable at both colors. Green fruits are very suitable for transport and medium term storage. Excellent for "green" fruit harvest in the open field. GOLDUS is also very suitable for low-tech greenhouses and unheated hoophouses. It is tolerant to heat and cold stress.

SLAVUS F1



GOLDUS F1



DILARA ZEL F1



## **DILARA ZEL F1**

An early sweet pepper hybrid with compact upright plants. DILARA is suitable for growing in greenhouses and hoophouses – open field growing is also possible. Three-lobe pyramid shaped fruit ripen from light green to red. The fruits are ideal for both fresh market and processing. Really healthy variety with high tolerance to ToMV and intermediate resistance to PMMV.

## **RADUZA F1**

Raduza's sweet fruits may be harvested in both green and red. The strong plants have intermediate resistance against Fusarium, White Mold (*Sclerotinia sclerotiorum*), *Veticilliu spp.* and *Didymella lycopersici*.

## **N** SLOVANUS F1

SLOVANUS is our improved SLOVANA type pepper. Its conical fruits ripen from light green to white (in full technical maturity). Its extreme earliness and high yield potential make it an excellent choice for the fresh market. SLOVANUS can produce very big yields but, like SLOVANA, it also requires inputs like drip irrigation with fertilization and regular harvesting to reach its full potential.

## **AMY**

Farmers refer to this very popular variety as the „Queen“ of field peppers. The fruits are of the pyramid type and have a good flavor. Starts as creamy white, which is the color when it is marketed, and eventually ripens to a light red. AMY is a reliably good yielding variety and has excellent plant health. Fruits of AMY are also perfect for stuffing and freezing as the fruits do not become bitter when frozen.

SLOVANUS F1



AMY





AMYKUS F1

### AMYKUS F1

A last member of „AMY“ family. Its conical fruits are longer than the fruits of the other „AMY“ types. Juicy, creamy white fruits are very attractive for the fresh market. A significant advantage of this variety is its strong leaf canopy which protects the fruits from sunburn. Yields very well in intensive growing conditions in open field or unheated hoophouse with drip irrigation but has also proven to be very reliable under less favorable growing conditions. Therefore it is also suitable for smaller, lower tech growers.



SASKIA F1

### SASKIA F1

Attractive 3–4 lobed blocky fruits that ripen from apple green to red. They have a very pleasant flavor. Suitable for both indoor and outdoor production. Recommended for harvest green or red.

### RUBIKA F1

A hybrid for both greenhouse and hoophouse production. RUBIKA can be grown successfully in the open field as it is well-adapted for cold climates. Fruits are big, thick-fleshed and blocky, ripening from deep green to dark red. They are normally harvested at the red stage. Good for shipping and short term storage.

### ORENY F1

A hybrid with a short to medium growth habit suitable for growing in greenhouses and hoophouses. Its large blocky fruits with thick-walls ripen from dark green to bright orange and are suitable for fresh market sales. ORENY may be harvested at both green and red stages. Plants are highly resistant to Tm 0.



ORENY F1

### SPIRALUS

An early sweet pepper with long ram horn fruits that have average length 20–25 cm. The fruits start very light green (close to a wax type) and turn to red. Healthy and high yielding, SPIRALUS is good for fresh market and processing, especially for pickling of whole fruits as the flesh stays nice and crunchy after processing. SPIRALUS has shown very good results in open field and plastic hoophouse but may also be grown in the greenhouse.

### BELOROZEC

A long (over 20 cm), straight „banana“ type with thick flesh (4 mm) and an average weight of 100 g. The fruits are very attractive and start from creamy white, which is when we recommend harvesting them, and ripen to light red. Widely adapted and easy to grow in various climates. Suitable for hoophouses and open field.

### JABLINA F1

An ALMA (apple) type pepper. The fruits are juicy with excellent taste and are best eaten at creamy white stage, before they turn yellow-orange. JABLINA is suitable for fresh market and for processing, especially stuffing and canning. The main market color for apple peppers is white, so the creamy white color of JABLINA is a significant advantage

### HAMIK

Worldwide, HAMIK is the most delicious „snack pepper“ for indoor and outdoor production. The fruits ripen from dark green to bright orange, and are almost seedless. The thick-fleshed fruits are exceptionally sweet when orange and highly recommended for fresh market. HAMIK is also perfect variety for production of „antipastas“ as the stuffed canned fruits are extremely tasty. New snack peppers (red and yellow) are in our product development program and we hope to introduce them soon.



SPIRALUS



BELOROZEC

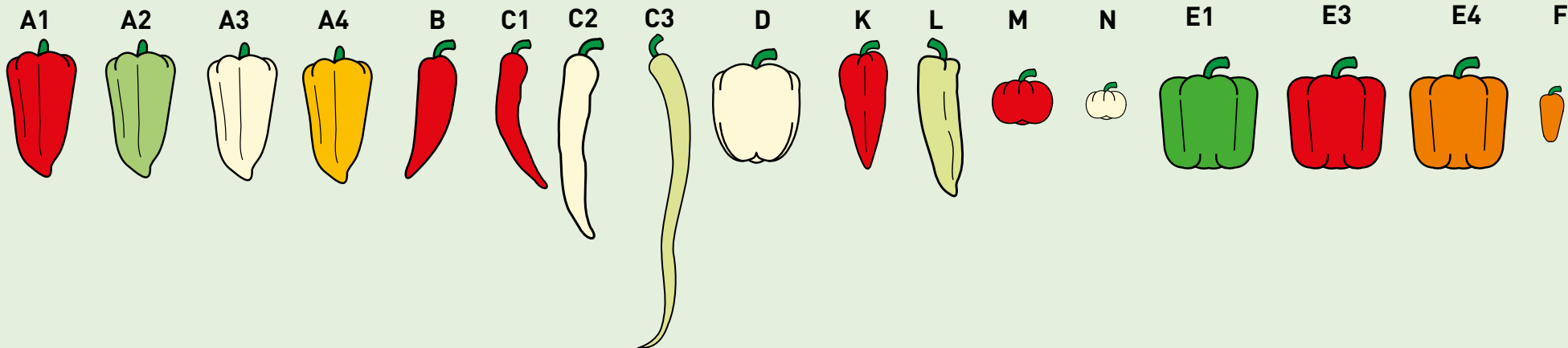


HAMIK

# Sweet pepper

Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	number of lobes	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	
<b>Kapia type</b>															
<b>RAFAELUS F1</b>	very early	medium	green	dark red	2-3	K	6	17 x 8	140						stable high yield and high tolerance to fungal diseases and Bacteriosis, HR ToMV 0-2
<b>RADMILA F1</b>	early	high	green	red	2-3	B	5	18 x 7	120						flattened "kapia" fruit, good for roasting and frying
<b>DERMA</b>	mid-early	medium	green	dark red	2-3	K	6	20 x 7	160						nice for both fresh market and processing, especially for slicing HR, ToMV 0-2
<b>Green to light green pyramid type</b>															
<b>LUNGY F1</b>	very early	high	green	dark red	2-3	A2	4	17 x 7	120						very early pepper, for both green and red harvest
<b>SLAVUS F1</b>	very early	high	green	red	3	A2	5	17 x 7	140						highly adaptable, uniform fruits, high fruit-setting for all season
<b>GOLDUS F1</b>	early	medium	green	yellow	3	A3	6	15 x 8	150						green fruits are very suitable for transport and storage
<b>IVICA F1</b>	early	high	green	yellow-orange	2-3	A4	6	15 x 8	160						nice golden fruits with sweet flavor
<b>DILARA ZEL F1</b>	early	medium	light green	red	3	L	6	19 x 7	220						big fruits are ideal for both fresh market and processing, HR ToMV 0-2, IR PMMV
<b>RADUZA F1</b>	early	medium	green	dark red	3	A1	6	15 x 8	120						an excellent all-purpose soldier for both green and red harvest

very suitable   suitable   not suitable



## Sweet pepper

Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	number of lobes	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	
<b>Creamy white pyramid ( „Hungarian“ ) type</b>															
<b>SLOVANUS F1</b>	very early	high	white-slightly green	red	3	A3	5	17 x 8	130						extreme earliness and high yield potential of very juicy fruits
<b>AMY</b>	early	short	creamy white	light red	2 - 3	A3	5	14 x 7	100						"Queen of field peppers" also nice for stuffing and freezing
<b>AMYKA F1</b>	early	medium	creamy white	light red	3 - 4	A3	6	14 x 7	120						big harvests of uniform fruits, also nice for stuffing and freezing HR, ToMV 0-2
<b>AMYKUS F1</b>	early	high	creamy white	light red	3 - 4	A3	6	16 x 8	130						strong leaf canopy - protects the nice white fruits from sunburn
<b>Blocky type</b>															
<b>SASKIA F1</b>	early	medium	apple green	red	3 - 4	E1	6	12 x 8	220						attractive color, delicious taste, also suitable for subtropics
<b>KVADRY F1</b>	early	medium	creamy white	light red	3 - 4	D	6	11 x 8	200						white blocky hybrid suitable also for open field
<b>RUBIKA F1</b>	mid-early	medium	dark green	dark red	4	E3	6	12 x 9	250						green-red blocky hybrid widely adapted for cold climates HR, ToMV 0-2
<b>ORENY F1</b>	mid-early	short	dark green	orange	3 - 4	E4	6	10 x 9	200						very tolerant to high temperatures, also suitable for subtropics HR, ToMV 0-2
<b>Other types</b>															
<b>TAMINA F1</b>	early	high	green	dark red	3	M	6	diameter 8	110						"tomato pepper", very juicy, nice for stuffing
<b>SEMAROH</b>	early	medium	light green	red	2	C1	3 - 4	16 x 3	80						large "ram's horn" variety for both fresh market and canning
<b>SPIRALUS</b>	early	high	creamy white	red	2	C3	2	22 x 1	40						slim, slightly twisted "ram's horn", nice for canning of whole fruits
<b>BELOROZEC</b>	mid-early	high	creamy white	light red	2	C2	3 - 4	22 x 4	100						very long juicy fruits "banana" type
<b>JABLINA F1</b>	mid-early	medium	creamy white	yellow - orange	3 - 5	N	4 - 5	diameter 5	80						"apple" type, very juicy nice for stuffing
<b>HAMIK</b>	mid-late	medium	dark green	orange	2 - 3	F	3	6 x 3	40						the best orange snack pepper, delicious flavor, nearly seedless HR ToMV 0-2

very suitable   suitable   not suitable



SOMBORIUS F1



DRAKY F1



OHNIVEC

# Hot pepper

*Hot pepper (Capsicum annuum)*



[More about all our Hot Peppers](#)

## **N** SOMBORIUS F1

The name of this pepper type is derived from the Serbian city of Sombor. It is harvested mainly in technical maturity, when the fruits have creamy color. The fruits are suitable for direct consumption, canning or grilling. The wide shape of the fruit makes it ideal for stuffing. At full botanical maturity, the fruits are light red. In Balkan fields you can find many variations of Somborka, which differ from each other in fruit shape, earliness or hotness. We've selected two nice lines from several local versions which are the parents of our new very early hybrid. It differs from local varieties of this type mainly by more uniform habit of plants and thick fleshy fruits. Uniform fruit setting during all growing period is also important advantage of this hybrid. SOMBORIUS is suitable not only for growing in greenhouses or hoopouses. It is ready for stress weather and fully recommended for open field growing in Central European conditions as well.

## **DRAKY F1**

A hot kapia type pepper. The conical firm fruits are uniform in size, shape and ripen from green to dark red. May be harvested when green or red. For fresh market or processing.

## **OHNIVEC**

The Czech name of this variety name means „Fire boy“ and it exactly describes this variety. OHNIVEC is a medium hot „ram's horn“ type. The fruits ripen from light green to red and may be harvested in both colors. Recommended for fresh market and processing.

## **N** SRILANUS F1

For many reasons this unique pepper does not deny its Ceylon roots. The fruits resemble „banana“ type peppers. But fruits of SRILANUS are shorter. The flesh is thicker, juicier and significantly but pleasantly hot. SRILANUS will surprise you with really high yield of uniform fruits in shape and size during all growing period. The fruits are harvested mainly at technical maturity when they are light green. Harvest is also possible at full botanical maturity when fruits are light red. We can recommend SRILANUS not only for growing in greenhouse or hoopouse but also for open field production. The plants of SRILANUS are medium-sized in indoor cultivation. When grown outdoors in Central Europe its growth is lower. SRILANUS is also reliable variety for outdoor summer growing in containers.

## **ORANGE KORAL**

ORANGE KORAL is an early maturing very hot cherry type. The fruits ripen from dark green to very attractive yellow-orange color. The fruits have an excellent quality at both green and yellow-orange stages. The plants stand adverse weather conditions very well. Good for fresh market but also suitable for pickling. ORANGE KORAL and KORAL look fantastic in a mix.

## **DAMIAN, KILIAN, KRISTIAN – three chili brothers**

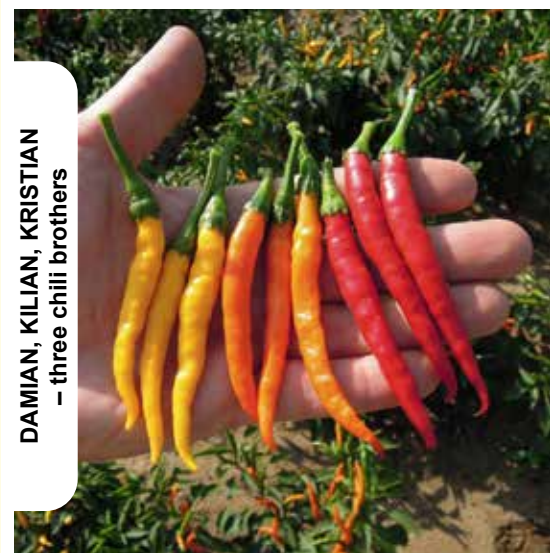
Our three highly recommended, slim fruited, hot chili peppers. Initial color of all three varieties is green, and when mature, DAMIAN turns red, KILIAN orange and KRISTIAN yellow. Fruits are about 8 cm long. They all perform well in indoor pots, greenhouses or hoopouses and are perfect varieties for trellising. Matures early in open field, too.



SRILANUS F1



ORANGE KORAL

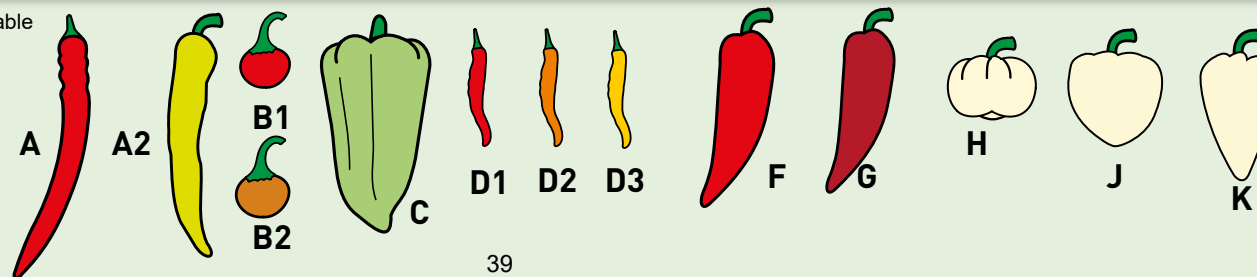


DAMIAN, KILIAN, KRISTIAN – three chili brothers

# Hot Pepper

Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	Scoville heat units (SHU) tested at full maturity	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	
<b>OSTRY F1</b>	very early	medium	light green	red	400 - 600	C	5	15 x 7	120	👍👍	👍	👍👍	👍👍	👍	fruit-shaped like sweet SLAVUS flesh is hot close to seed cavity
<b>SOMBORIUS F1</b>	mid early	short	creamy white	light red	400 - 600	J	5	8 x 7	100	👍👍	👎	👍👍	👎	👎	slightly hot "SOMBORKA" type, the best ingredient for Ajvar
<b>SOMBORIUS MAX F1</b>	mid early	medium	creamy white	light red	300 - 500	K	5	13 x 7	120	👍👍	👍	👍👍	👍👍	👎	slightly hot "SOMBORKA" type, the best ingredient for Ajvar
<b>DRAKY F1</b>	early	medium	green	red	600 - 800	F	4	15 x 5	100	👍👍	👎	👍👍	👍👍	👍	hot "kapia" suitable also for slicing and canning
<b>PALIVEC</b>	early	tall	green	dark red	800 - 1 000	A	3	17 x 2	70	👍👍	👎	👍👍	👍👍	👍	slightly hot "ram horn" good for whole fruit canning
<b>BARKOL</b>	early	tall	green	dark red	600 - 900	A	3	18 x 3	70	👍👍	👍	👍👍	👍👍	👍👍	slightly hot "ram horn" good for whole fruit canning
<b>OHNIVEC</b>	early	medium	light green	red	1 000 - 1 200	A	3	18 x 3	70	👍👍	👎	👍👍	👍👍	👍👍	hot long "ram's horn" good for whole fruit canning
<b>SRILANUS F1</b>	early	medium	light green	light red	10 000 - 15 000	A2	3	15 x 3	60	👍	👍👍	👍👍	👍👍	👍👍	high yield of uniform fruits in shape and size during all growing period
<b>KORAL</b>	early	short	dark green	dark red	30 000 - 50 000	B1	2	diameter 2	15	👍	👍👍	👍	👍👍	👍👍	hot "cherry" pepper, good for whole fruit canning
<b>ORANGE KORAL</b>	early	short	dark green	yellow - orange	30 000 - 40 000	B2	2	diameter 2 - 2,5	15	👍	👍👍	👍👍	👍	👎	hot yellow-orange "cherry" pepper, good for whole fruit canning
<b>DAMIAN</b>	mid early	medium	green	red	30 000 - 50 000	D1	2	8 x 1	10	👍👍	👍	👍👍	👍👍	👍	also for pots, red chili type
<b>KILIAN</b>	mid early	medium	green	orange	30 000 - 50 000	D2	2	8 x 1	10	👍👍	👍	👍👍	👍👍	👍	also for pots, orange chili type
<b>KRISTIAN</b>	mid early	medium	green	yellow	30 000 - 50 000	D3	2	8 x 1	10	👍👍	👍	👍👍	👍👍	👍👍	also for pots, yellow chili type
<b>PALINDA F1</b>	mid early	short	creamy white	light red	2 000 - 2 500	H	5	diameter 5	80	👍👍	👎	👍👍	👍	👎	slightly hot "apple" type, very juicy, good for stuffing
<b>JALAHOT F1</b>	late	medium	dark green	dark red	8 000 - 12 000	G	4	7 x 3	50	👎	👍👍	👍	👍👍	👍	red JALAPENO, good for stuffing

👍👍 very suitable    👍 suitable    👎 not suitable





HABANERO ORANGE



HABANERO LEMON



VULCAIN

## Very hot pepper

(*Capsicum chinense* and *Capsicum Frutescens*)



More about all our Very Hot Peppers

There is ever-increasing demand for extremely hot peppers and in response, every year we add new varieties to our assortment. All of these extremely hot varieties are *Capsicum chinense* or *frutescens* types. Consumption and growing of these "adrenaline" peppers particularly appeal to the younger generation who like to experiment growing new types of these peppers! We believe that our chili offer will appeal to both growers/farmers and seedling dealers.

### HABANERO

It is probably the most popular type of extremely hot peppers worldwide. The name comes from the Spanish name of Havana. The thin-walled fruits are 4–6 cm long and resemble „lanterns“. Their heat levels vary among the various varieties, but all are very hot and range from 200,000 to 700,000 SHU. They mature late, so in colder regions (Central Europe and similar) are only suitable for the greenhouse or hoop house. In warmer regions they can also be successfully grown in open field, with the first harvest in the end of summer.

Our offer:

**HABANERO RED** red fruits SHU 300,000

**HABANERO WHITE** white fruits SHU 400,000

**HABANERO CHOCOLATE** brown-red fruits SHU 450,000

**HABANERO LEMON** yellow fruits SHU 500,000

**HABANERO ORANGE** orange fruits SHU 600,000

### VULCAIN

A variety of *Capsicum frutescens* provides small fruits throughout all growing season. The hot fruits (700,000–900,000 SHU) have shape of very small golden-yellow barrels. In conditions of Central Europe we recommend this pepper for indoor cultivation only. VULCAIN resembles a tree-in-grow; a stronger trunk and a nice branched crown. In addition to the culinary purpose when grown in a container it is also very decorative plant.

### NAGA MORICH

One of the hottest peppers in the world. NAGA MORICH comes from northeastern India and Bangladesh. The plant is low and broad-shouldered. It is well suited for growing in self-watering pots and in greenhouses and hoop houses. Fruits are thin-walled, elongated and ripen from pale green to red. SHU 1,000,000.

### DRACO ORANGE DRACO RED DRACO YELLOW

Our own selection of Bhut Jolokia (900,000 – 1,100,000 SHU). It is extremely hot pepper between *Capsicum chinense* and *Capsicum frutescens*. Our own selections of Bhut Jolokia are slightly earlier and smaller in plant size than another variety of this type. Nevertheless in our climatic conditions (Central Europe) we recommend to grow them in greenhouses where they ripen really reliably. The plants grow high in there and require a rope support. When grown in open field the plants are significantly lower and fruit need more time to full ripening.



DRACO YELLOW



NAGA MORICH



DRACO ORANGE



DRACO RED





RED FLAME



YELLOW FLAME

# Pepper - ornamental chili



More about all our Ornamental Peppers

Ornamental chilies are peppers with a compact growth habit and small hot fruits. They can be successfully grown in open field, but they are best in pots. Interest in ornamental peppers has recently grown considerably. SEMO breeds for this market segment and gradually introduces new varieties.

## RED FLAME

Ornamental pepper with compact plants, nice for pots. Fruits are small pyramids, they ripe from green to red.

## YELLOW FLAME

Ornamental pepper with compact plants, nice for pots. Fruits are small pyramids, they ripe from green to yellow.

## VICTORIA

Ornamental pepper with compact plants nice for pods. Small slim fruits are creamy and red.

## EMMA

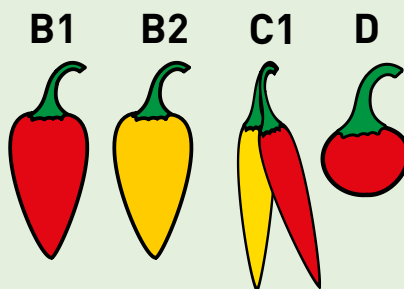
Compact plants, nice for pots. Small cherry fruits are creamy, violet and red.



VICTORIA



EMMA



Variety	Plant growth habit	Fruit						Recommended growing environment	
		unripe color	ripe color	heat level	Scoville heat units (SHU) tested at full maturity	shape	average size (cm)	field	pot
RED FLAME	compact	green	red	very hot	60 000 - 80 000	B1	3 x 3	👍👍	👍👍
YELLOW FLAME	compact	green	yellow	very hot	70 000 - 90 000	B2	3 x 3	👍👍	👍👍
VICTORIA	compact	creamy-yellow	light red	very hot	60 000 - 80 000	C1	5 x 2	👍👍	👍👍
EMMA	medium compact	yellow-green	light red	very hot	70 000 - 90 000	D	diameter 1 cm	👍👍	👍👍

- 👍👍 very suitable
- 👍 suitable
- 👎 not suitable



YELLOWBOYS F1



YELLOWGIRLS F1



GURMAN

# Pumpkins

(*Cucurbita pepo L.*)



More about all our Pumpkins

## YELLOWBOYS F1

A SEMO hybrid with uniform, high quality orange, slightly ribbed round fruits that average weight is about 6–8 kg. The skin is tough, making it suitable for shipping but is still soft enough for Halloween carving. Fruits are good for mid-term storage and may be used also for cooking, especially purées and soups.

## YELLOWGIRLS F1

Our next pumpkin hybrid is similar to its brother, YELLOWBOYS, but with smaller fruits (4–6 kg). It is a perfect variety for children's Halloween Jack O'Lantern.

### P 15/17 SM JJ F1

Another orange hybrid with a very big (15–20 kg) uniform barrel-shaped fruits with attractive ribbing and big dark green handles.

### P 14/17 SM PRAN F1

A medium-sized pumpkin weighing only about 1.5 kg and a decorative dark green stem. The wellribbed fruits are especially suitable for painting. 14/17 SM PRAN F1 is ideal for small children (kindergartens etc.) who want a nice halloween pumpkin but are too young to carve a pumpkin with a knife. Strong resistance to Powdery Mildew.



### N GURMAN (SM TS 396/19)

GURMAN is our OP pumpkin for the production of hull snack seeds. This pumpkin offers very big white seeds which are perfect for healthy and crunchy snacking. They taste great dried and roasted. It is an early variety with many uniform oval fruits that can also be used for Halloween. It actually offers two benefits - large healthy seeds inside and nice fruits suitable for decoration.

### P KING SIZE F1 (SM TS 398/18)

Our first hybrid pumpkin for the production of hull seeds. It is slightly late than GURMAN and its flattened fruits are bigger. An important advantage of KING SIZE is good health including resistance to viruses. Its seeds are really extremely large and are excellent for drying and roasting. The name KING SIZE does not mean only big seeds but also nice big fruits suitable for Halloween.

## APETIT

(*Cucurbita pepo L. var. oleifera*)

Hulless seeds oil pumpkin with medium compact growth - that allows a high density of plants per hectare, resulting in higher yields. Seeds have a high nutritional value and are suitable for cooking, snacking and oil production

## ESO

(*Cucurbita pepo L. var. oleifera*)

An oil pumpkin with hulless seeds. Plants have a semi-bush habit and yield 3–4 fruits per plant. Suitable for mechanized harvests due to its uniform ripening. It gives high yields of big, dark green seeds that are suitable for cooking, snacking and oil production.

### P TRUMF F1 (SM 381/18 BS)

(*Cucurbita pepo L. var. oleifera*)

Our first hulless-naked seed hybrid. TRUMF performs well even in stressful years. Semi-bush habit, 3–5 uniform fruits per plant - these are the ingredients for its high yield. The large dark seeds are nice not only for oil production but also as a snack or for cooking. TRUMF is suitable for mechanized harvests because of its very uniform fruits ripening.



KING SIZE F1



ESO



TRUMF F1



JAPANA F1



JAROLA F1



KULATA CERNA

## Radish – Daikon (Mooli)

*Raphanus sativus L. var. major A. Voss*



More about all our Radishes

### JAPANA F1

A daikon for summer sowing. Roots are smooth skinned, white with a rounded end, measuring up 35 cm long. Flesh is fine and dense. The plants are fast growing and mature quickly. Because of its length JAPANA requires light, deep and well cultivated soils. Best sown in July through early August (in Central Europe). Not for spring sowing as it will bolt without forming a root. Roots keep well throughout the winter. Approximately 80 days from sowing to harvest (Central Europe).

### JAROLA F1

A white radish with light shoulders. Pointed roots are 25 to 30 cm long and have a good internal structure. JAROLA is tolerant to bolting allowing early spring as well as summer sowings. Approximately 90 days from spring sowing and 80 days from summer sowing to harvest (Central Europe).

## Radish – black and other types

*Raphanus sativus L. var. major A. Voss*

### KULATA CERNA

A round black radish with bright white flesh and an average diameter of 5–9 cm. A traditional variety suitable for fresh market and long-term storage. Approximately 80 days from sowing to harvest (in Central Europe conditions).

### PANTER

A black radish with very uniform round roots with an average diameter of 6–9 cm. Perfect for fresh market and long-term storage. Approximately 70 days from sowing to harvest.

### MELINORA

#### Daikon radish with bio drill effect

Long roots break like nature's rototiller through hard, compacted soil. It mechanically opens up channels for water and roots to penetrate. Daikon radish MELINORA is natural reclamation for better using of precipitation and water retention in the soil. It also has a phytosanitary effect - it suppresses the development of some types of soil nematodes and fungal pathogens. The roots contain a high proportion of sugars and promote the development of useful soil microorganisms. MELINORA captures significant amounts of nitrogen, phosphorus and other nutrients from the deeper soil layers and returns them to the root zone to succeeding crops

### LUTEA

An early to medium early summer radish with a yellow roots and white flesh. The roots are elongated, 15–20 cm long. It's intended not only for direct consumption but even for storage (up to 1 month). We sow from mid-summer. Earlier sowings are sensitive to bolting.

### KARMINA

A summer radish with red elongated roots, 15–20 cm long (a third protruding from the soil). The tip of the root is white, the same as its flesh. For both fresh and short-term storage. We sow from mid-summer. Earlier sowings are sensitive to bolting.



MELINORA



PANTER



KARMINA

# Radish – standard type

*Raphanus sativus L. var. sativus*



More about all our Radishes

KATRENA F1



## KATRENA F1

This very early hybrid is suitable for spring, autumn and even summer crops. The large uniform roots have dark red skin and crisp, mild flesh. The tops are short and strong and very good for growing under row covers in open field. It is tolerant to cracking and hollow heart. KATRENA has just the right characteristics for a perfect bunching radish.

KVINTARA F1



## KVINTARA F1

An early hybrid with attractive uniform roots that are bigger than PRIMARA or VINARA. Good tolerance to cracking and bolting. The tops are tall and strong and its roots are bright red with a good flavor, making this variety perfect for bunching. KVINTARA was bred specifically for covered spring field production though it has also proven to be our best variety for late summer sowings. Confirmed radish for organic growing.

TEKO



## TEKO

A very early OP radish that has the uniformity of a hybrid. It is an excellent variety for early open field production but also performs well in hoopouses. Short but strong tops make TEKOK good for bunching.

## DUO



PURPURA F1

## PURPURA F1

An early, bright violet, uniform hybrid with smooth and uniform roots. Crispy white flesh with high tolerance to hollow and cracking. Excellent for bunching. PURPURA is widely adapted for all year open-field growing – spring, summer, or autumn crops.

PURPURA F1

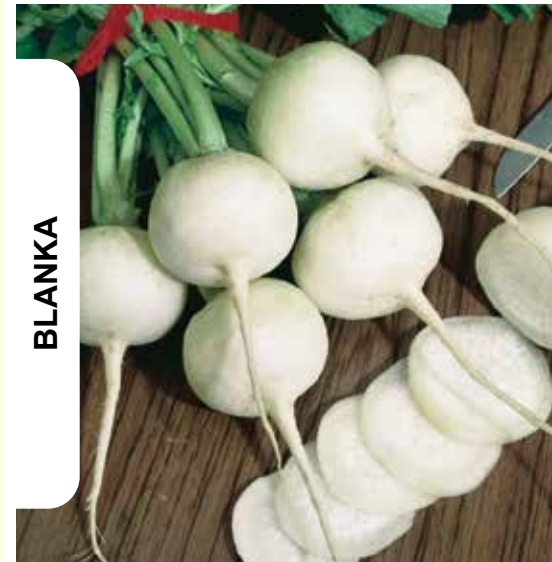


N

## BELANA F1

New hybrid radish with big round bulbs of a snow-white color. It differs from non-hybrid varieties in several important aspects. BELANA offers very uniform bulbs with crispy flesh. It is very tolerant to both cracking and hollow heart. Its leaves are dark, medium low.

BLANKA



N

## STALAGNIT F1

An early white icicle type radish. STALAGNIT differs from similar non-hybrid radish in many ways. Above all, it is significantly earlier, up to 10 days than well-known variety RAMPOUCH. Its spindle-shaped cylindrical bulb is larger with more delicate and not so strong taste. The leaves are more high and robust. STALAGNIT is resistant to caving, cracking and bolting. STALAGNIT is very suitable even for problematic summer sowing.

STALAGNIT F1



## PRIMARA F1



## Radish

Variety	Maturity	Growing			Bulb			Foliage height	General remarks
		indoors	field (spring sowing)	field (summer sowing)	shape	color	size (cm)		
VINARA F1	very early	👍👍	👍👍	👎	round	5	2 - 3	very low	short but strong tops, the best for protected culture
KATRENA F1	very early	👍👍	👍👍	👍👍	round	6	2.5 - 3.5	low	compact strong upright tops, uniform bigger bulbs
PRIMARA F1	very early	👍👍	👍👍	👍	round	5	2 - 3	low	very uniform roots, for early field production
KVINTARA F1	early	👎	👍👍	👍👍	round	5	2.5 - 3.5	medium	uniform big roots, excellent field holding ability
TEKO	very early	👍👍	👍👍	👍	round	5	2 - 3	low	excellent uniformity for an OP, also suitable for tunnels
PRIMA	very early	👍	👍👍	👎	round	5	2 - 2.5	medium	best for early crops in open field, very good internal quality
KVARTA	early	👍	👍👍	👍	round	7	2.5 - 3.5	medium	tetraploid large bulbs
GRANAT	early	👍	👍👍	👎	round	7	2 - 3	medium	dark red bulbs, quick growing
KVINTA	early	👎	👍👍	👎	round	3	2 - 3	medium	attractive pale red bulbs, smooth skin
DUO	early	👍	👍👍	👍	round	red- white	2.5 - 3.5	medium	red-white, round bulbs
SLAVIA	very early	👍	👍👍	👍👍	short cylindrical	red- white	length 3.5 - 4	medium	"French breakfast" type the best even for summer sowing
LILANA	early	👎	👍👍	👎	round	violet	2 - 3	high	very attractive purple color
PURPURA F1	early	👍	👍👍	👍👍	round	violet	2.5 - 3.5	medium	attractive violet radish, high tolerance to cracking and hollow heart
BLANKA	early	👎	👍👍	👎	round	white	2 - 3	high	white round bulbs
BELANA F1	early	👍	👍👍	👎	round	white	2.5 - 3.5	high	uniform white round bulbs tolerant to both cracking and hollow heart
RAMPOUCH	mid-early	👎	👍👍	👍	long cylinder with pointed end	white	length 6 - 10	medium	white pointed bulbs
STALAGNIT F1	early	👎	👍👍	👍	long cylinder with pointed end	white	length 8 - 12	medium	the earliest radish of this type, resistant to caving and cracking

👍👍 very suitable    👍 suitable    👎 not suitable

color: 1 = pale red; 9 = dark red

# Squash – Scallop type – Patty pans

(*Cucurbita pepo L.*)



More about all our Scallops

DELIKATES

## DELIKATES

DELIKATES has a high yield potential of white discs with a creamy white flesh. Intermediate resistance to Powdery Mildew. First harvest is 70 days after sowing (in Central Europe).

## SNOWDISC F1

Our very promising hybrid. Fruits are very uniform with a shiny white color and excellent taste. Very healthy plant. Good for harvest of baby fruits as well as typical patty pan size. First harvest is 65 days after sowing (in Central Europe).

## PATINOVA

A high-yielding variety with a bush habit. White fruits are of a flat disc shape and with a thick cream colored flesh inside. The first fruits can be harvested 75 days after sowing (in Central Europe).

## GREENDISC F1

A high yielding green scallop hybrid suitable for harvests of baby fruits for cooking or canning. Young fruits are light green with darker strips that become dark green at full size. Three varieties of baby fruits pickled mix of white SNOWDISC, yellow SUNSEANCE and green GREENDISC are very beautiful presentation in jars.

## SUNSEANCE F1

A scallop hybrid producing bright yellow disc-shaped fruits without developing any green spots in their centers and with a small blossom-end scar. The fruits have long stems, allowing for easy harvest.

They are also suitable for harvest at full maturity when the fruits are shiny dark yellow. Can be used for both fresh market and for processing. The plants are slightly more compact than other competitive varieties. SUNSEANCE is primarily for open-field cultivation but also performs well when grown in hoophouses for extra early crops. A very early variety, with a first harvest 60 days after sowing (in Central Europe).

GREENDISC F1



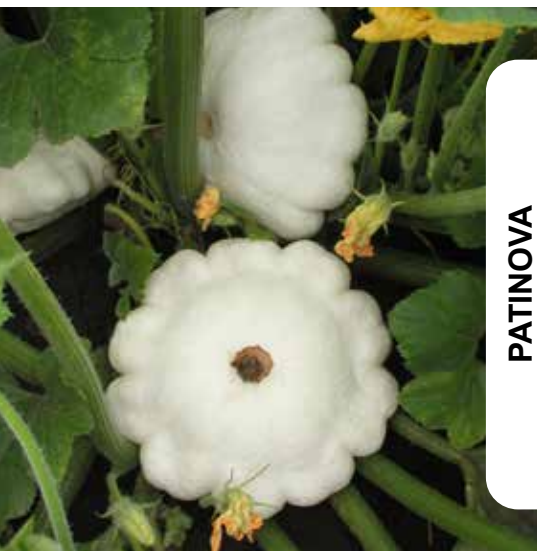
SNOWDISC F1



SUNSEANCE F1



PATINOVA



SUNSEANCE F1



SUNSEANCE F1



SUNSEANCE F1





GAMBIT F1

# Squash – Summer (zucchini)

(*Cucurbita pepo* L.)



More about all our Squash - summer

## GAMBIT F1

GAMBIT is a high yielder of dark green, long, uniform and attractive fruits with a small flower scar. The bush plants are less vigorous and smaller than our other varieties. GAMBIT is tolerant to CYMV. Very early squash, approximately 50 days from sowing to first harvest (in Central Europe).

## EMPEROL F1

A variety with a medium vigorous bush plant that produces shorter than typical cylindrical fruits that are best harvested from 15–20 cm. Skin is creamy green and slightly striped. Very high yielding, especially for harvest of young fruits. EMPEROL is early, averaging about 60 days to first harvest (Central Europe).

## SENZACE F1

Squash with a medium vigorous bush plant that produces medium green, slightly striped, shorter cylindrical fruits with an optimum size of 15–20 cm. Excellent yield potential, especially for harvest of young fruits. SENZACE matures early with a first harvest of about 60 days (in Central Europe).



EMPEROL F1



SENZACE F1

## YELLOWSTAR F1

An early and high yielding zucchini with strong robust plants tolerant to environmental and weather stresses. YELLOWSTAR produces uniform golden yellow fruits with length of 20–30 cm, evenly throughout the vegetation. Regular fruit setting during all growing period. Early variety, vegetation period from sowing to first harvest about 60 days (in Central Europe).

## TREND F1

An early squash with round, light green fruits suitable for fresh market sales. Its size and shape make it perfect for stuffing. The vigorous, bush plants have a high yield potential. TREND is a reliable parthenocarpic hybrid that can produce fruits even in cold and rainy years, when pollinators are not active, as well as in extremely hot weather. Approximately 60 days from sowing to first harvest (in Central Europe).

PS: You can use TREND also for another purpose. Let the fruits fully ripen and harvest them in one time. Ripe flattened fruits have a diameter 15 to 20 cm. The skin is firm and smooth and has creamy yellow color. Such fruits are just ideal for all painters ... including the youngest ones. The growers on the other hand will be satisfied with its high yield which is significantly higher than classic pumpkins.

## GOLD BALL F1

A round squash with bright yellow fruits with an optimal harvest size of 5–8 cm in diameter. Medium vigorous bush type. GOLD BALL has superior tolerance to hot temperatures. Mid-early, approximately 65 days to first harvest (in Central Europe).



YELLOWSTAR F1



TREND F1



GOLD BALL F1



TREND F1



HOKKAIDO ORANGE



DELICIAN F1



RUGBY F1 (310/2021)

## Squash – Winter

(*Cucurbita maxima Duch.*)



More about all our Winter Squashes

### HOKKAIDO ORANGE

(*Cucurbita maxima Duch.*)

Our own selection of high yielding truth Uchiki Kuri type. Vigorous plant and nice deep orange pumpkins with weight 1.0–1.5 kg. They ripen early and stores well.

### DELICIAN F1

(*Cucurbita maxima Duch.*)

A hybrid between Uchiki-Kuri and Kabocha, with flattened round fruits. Skin is slightly lighter than Uchiki-Kuri but the flesh stays deep orange. Very uniform fruits are suitable for long term storage. Average fruit weigh is 1.5–2.0 kg.

### GREY QUEEN F1

(*Cucurbita maxima Duch.*)

Kabocha pumpkin with light grey skin, deep orange flesh and high carotene content. Fruits are very suitable for long-term storage and under optimal conditions (dry, well ventilated) can be stored until late spring. The fruits weigh 2.5–3.5 kg. In addition to its resistance to ZYMV, GREY QUEEN, it also has good eating quality. Nice hybrid for soups, purées and baking.

### **N** RUGBY F1 (310/2021)

(*Cucurbita maxima Duch.*)

A new mini orange Hubbard type hybrid with very attractive rugby ball-shaped fruits. The fruits with weight of 0.8–1.5 kg are uniform in size and can be stored until December. Their skin is slightly lighter than Uchiki-Kuri, with lighter strips. RUGBY has a very small core with a large share of dark orange flesh.

### LAURA

(*Cucurbita moschata Duch. ex Poir.*)

An early small-sized Butternut. Weight of fruits is 1.0–1.5 kg with beige skin and orange flesh and good fruit setting (3–5 fruits per plant) ability. Laura combines earliness and good eating quality with Powdery Mildew resistance.

### STELLA F1

(*Cucurbita moschata Duch. ex Poir.*)

Our early medium-sized Butternut. The fruits weight 1.2–1.7 kg. Fruits are uniform with small seed cavity, rich in color of flesh and skin. STELLA offers high yields and excellent nutty flavor. Good storage life, resistance to ZYMV (Zucchini Yellow Mosaic Virus) and PRSV (Papaya Ringspot Virus) are also important benefits of this new hybrid.

### NUTRIA F1

(*Cucurbita moschata Duch. ex Poir.*)

Butternut with unusual, flattened round fruits (0.8–1.2 kg) with beige skin and orange flesh. The fruits have a very nice and nutty sweet taste and few seeds. NUTRIA sets very well, 5–8 fruits per plant, and is resistant to Powdery Mildew, Fusarium and ZYMV.

### BABY SPAGHETTI F1

(*Cucurbita pepo L.*)

An early mini spaghetti squash with a semi-vigorous plant habit. It matures about two weeks earlier than traditional spaghetti squashes. The uniform egg-shaped fruits weigh 400–600 g and are suitable for long-term storage. The flesh is pale yellow-orange with an excellent nutty flavor. At full maturity the flesh has a fine spaghetti texture. High yielding with an average of 15–20 fruits per plant.



LAURA



NUTRIA F1



BABY SPAGHETTI F1





AMELIE F1

## Turnip

*Brassica rapa L. var. rapa L.*



More about all our Indeterminant Turnips

### AMELIE F1 (SM 5/17 Yu)

An early turnip (45–50 days after sowing) with short tops particularly suited for growing in greenhouses or hoopouses. The round, snow-white roots have a diameter of 5–7 cm and have a very nice, sweet flavor. The bolt tolerant hybrid is suitable for spring and summer sowing.

### ANDY F1 (SM 6/17 Fu)

A mid-early turnip (55–60 days) with large roots and short tops. The round roots are snow-white with a diameter of 10 to 12 cm and have a pleasant, slightly mustardy taste. This hybrid is suitable for spring and summer sowing. We recommend for all type of uses including fresh eating, cooking and storage.



ANDY F1



LAJKO II F1

## Watermelon

*Citrullus lanatus (Thumb.) Matsum ET Nakai*



More about all our Watermelons

### LAJKO II F1

A reliable, early hybrid that also performs well in poor conditions. Oblong fruits are medium-sized with weight about 4–5 kg. Have a firm dark green rind. Its red flesh is very sweet with a fine texture. Ready for harvest in 80–85 days after planting (Central European conditions).

### PRIMAGOLD F1

An easy growing early hybrid with very attractive yellow flesh. The round fruits are green with dark green stripes and average weight of 3–4 kg. The fine-textured flesh is refreshing and of excellent eating quality. Ready for harvest in 85–90 days after planting (Central European conditions).

### SUGAR BABY

A traditional, very early standard „icebox“ watermelon with round fruits (3–5 kg) and a dark green rind with darker green stripes. Good resistance to cracking. Sweet, fine-textured, medium-red flesh. Ready for harvest in 75–80 days after planting (Central European conditions).

### PRIMAORANGE F1

Very similar to its sister variety, PRIMAGOLD, this hybrid produces round green fruits with dark green stripes that weigh about 3 kg. The bright orange flesh is very sweet (11–12 % of sugar) and has only few seeds. Ready for harvest in 85–90 days after planting (Central European conditions).

### CRIMSON SWEET

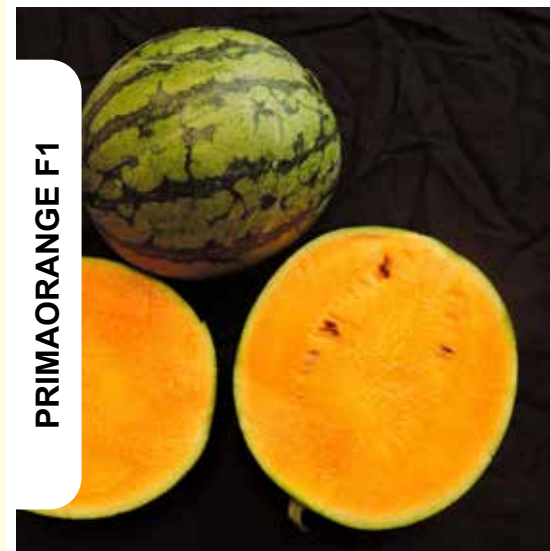
A widely adapted early variety with oval fruits (7–10 kg) and a light green rind with dark green stripes. The flesh is bright red with a nice, flavorful sweet taste. Ready for harvest in 80–85 days after planting (Central European conditions).



PRIMAGOLD F1



CRIMSON SWEET



PRIMAORANGE F1



ELAN F1



AFRODITA F1



GUSTA F1

# Sweet corn

*Zea mays L.*



[More about all our Sweet Corns](#)

In 2017 SEMO acquired the Slovakian breeding company Zelseed, which was focusing on corn breeding. With this acquisition we have increased our strength in sweet corn. See below for our sweet and super sweet hybrids. We have favorable feedback from farmers to our varieties.

## ELAN F1

ELAN is an extremely early variety that is one of the earliest maturing sweet corns worldwide. It also has a high yield potential. Suitable for growing both in open field and in hoophouses. Its dark-yellow kernels have a pleasant, sweet taste. A good choice for both - early fresh market and processing.

## AFRODITA F1

Responding to farmers' demand we are renewing the seeds production of this mid-early sweet corn from Mr. Izakovič's breeding. This robust corn with a high-placed ears perfectly copes with environmental stresses. Above all it is resistant to high temperatures even during the pollination. AFRODITA has confirmed its suitability for growing in the subtropics - but of course it is also grown in the temperate zone. It has large heavy well-closed ears. Good health is also one of its positives.

## GUSTA F1

A really high yielding sweet corn. The vigorous plants produce large cylindrical ears with good tip cover. The big and deep kernels making GUSTA an excellent choice for freezing or canning. Processing varieties require big and deep kernels so that there is still a good yield after the kernels are mechanically cut from the cobs. This late season hybrid has proven to be very reliable, even under less than favorable weather.

## LUMINOX F1

LUMINOX is a very good choice if you are looking for a very early super sweet corn. Its ear is tender but relatively long. LUMINOX is one of the sweetest hybrids in its category (sugar content up to 35%). The sugar content decreases very slowly after harvest, resulting in a long shell life. This stress tolerant hybrid offers truly excellent eating quality. LUMINOX creates mostly single stalk plants, even under less than optimal conditions. Suitable for growing in open field and hoophouses. LUMINOX will provide its product for early market sales.

## LONGA F1

LONGA is optimal combination of earliness, high yield potential, strong plant habit and good plant health. Its ears are large and packed with full-flavored super sweet kernels. LONGA is a reliable variety that is suitable for both fresh and processing markets.

## RAMONDIA F1

Bicolor (75% of yellow and 25% of white kernels) super sweet corn. The long and slender ears offer crisp, juicy, very sweet kernels with superior eating quality. Though primarily grown for fresh market, RAMONDIA is also a good choice for baby corn production. Widely adapted.



LUMINOX F1



LONGA F1



RAMONDIA F1

## Sweet corn

Variety	Type	Maturity	Days from sowing to harvest*	Plant height (cm)	Ear height (cm)	Ear			color of kernal	Resistances					General remarks
						length (cm)	weight (g)	kernel rows		MDMV	SCLB	CRu	KB	ASP	
<b>ELAN F1</b>	sweet, su	very early	85	150 - 170	40 - 50	18 - 20	220 - 300	16	yellow	IR	IR	IR	HR		for early fresh market and early processing
<b>AFRODITA F1</b>	sweet, su	mid-early	105	190 - 220	65 - 75	19 - 20	260 - 320	20 - 22	yellow	IR	IR	IR	IR		very tolerant to high temperatures, also suitable for subtropics
<b>GUSTA F1</b>	sweet, su	mid-late	115	170 - 190	60 - 70	20 - 25	260 - 340	22	yellow	IR	IR	IR	HR		high yielding variety with robust plants and big ears
<b>LUMINOX F1</b>	super sweet, sh2	very early	90	150 - 170	40 - 45	19 - 22	240 - 300	14 - 16	yellow	HR	IR	IR	HR	IR	for early fresh market, tunnels and open field
<b>LONGA F1</b>	super sweet, sh2	early	100	170 - 190	65 - 75	20 - 25	250 - 320	16 - 18	yellow	HR	IR	IR	HR	IR	high yield potential, strong plant habit, good health
<b>RAMONDIA F1</b>	super sweet, sh2	very early	95	140 - 160	40 - 45	18 - 23	240 - 310	16 - 18	yellow (75%) white (25%)	HR	IR	IR	HR		superior eating quality for fresh market

### Resistance:

**IR** = Intermediate Resistance  
**HR** = High Resistance

**MDMV** = Maize Dwarf Mosaic Virus, **SCLB** = Helminthosporium maydis, **CRu** = Puccinia sorghi  
**KB** = Kabatiella zeae, **ASP** = Aspergillus Ear Rot (Aspergillus spp)

\* valid for Central Europe conditions



**SIMONA F1**

## Popcorn

*Zea mays L.*

[More about all our Popcorn](#)



### SIMONA F1

A mid-late hybrid of butterfly type with really large nice flakes - kernels are big (about 50 seeds in 10 grams). Lower ear placement, good disease resistance package and high tolerance to cold weather and environmental stress generally. SIMONA guarantees good yield even in poor conditions.

### JANTAR F1

A late stable high yielding butterfly type with small seeds (about 90 seeds in 10 grams) and fine popped flakes with excellent eating quality – high expansion and just full of flavor. Robust plants with sturdy stalks are tolerant to lodging and create good-sized second ear. Very high percentage of popped seeds during roasting is also important advantage.



**JANTAR F1**



PARTO F1



VELORIA ZEL F1



BRUNITO F1

# Tomato - indeterminant

*Solanum lycopersicum L.*



More about all our Indeterminant Tomatoes

## PARTO F1

A mid-early tomato with medium growth vigor. Excellent for hoophouses and unheated greenhouse production. PARTO has attractive, flattened round fruits weighing about 120 g. In addition it is suitable for shipping and storage (ESL). The fruits are very tasty with a „real“ tomato flavor. Best suited for a single fruit harvesting rather than whole trusses.

## VELORIA ZEL F1

Nice mid-early indeterminant tomato with shiny, slightly flattened fruits (about 120 grams). Fruits are great for fresh eating thanks to the optimal balance of sweet and sour tomato taste. High yielding variety throughout the all-growing season with good disease resistance package including resistance (HR) to Nematodes. Just well-suited variety for both hoophouses and open field growing including organic. From our Slovak breeder's hands.

## BRUNITO F1

A mid-early kumato type with unique resistance to fungi diseases including Phytophthora /HR/, stress conditions and fruit cracking. Compared to other varieties in addition to indoor cultivation we can boldly recommend BRUNITO for growing in open field, even in northern regions of Central Europe and areas with a similar climate. Its flattened fruits ripen from green when young turns green–brown to reddish brown in full maturity. The fruits have a fine skin and smooth texture flesh with interesting dark reddish color. The taste is just excellent, rich in flavor. BRUNITO is nice for salads, slicing and any type of fresh eating. This high yielding variety is also nutritionally rich, especially with its high content of anthocyanins, which are important antioxidants. BRUNITO is just high-yielding stress tolerant variety suitable to all in- and out-door growing with not only attractive but also healthy fruits.

## JAHODO

An early strawberry type tomato with attractive heart-shaped fruits (weight about 18 grams). Plants are vigorous and high yielding. Clusters are long and branched with an average of 16 fruits. The fruits have a firm texture and a nice flavor. They are tolerant to cracking and fruit drop. Suitable for very long-term storage (LSL type). Nice variety for both open field and hoophouse.

## TIGRINO

An early indeterminate variety with small reddish-brown-green „tiger“ fruits (weight about 25 grams). An interesting skin color with a deep red flesh and nice aromatic taste make this variety unique and interesting. On long clusters ripe about 14 fruits. We recommend this variety for both single fruit and whole cluster harvest. TIGRINO is best suited for indoor growing. Intermediate resistance to Nematodes.

## DATLO

The fruits of this early variety are oval-shaped and golden yellow with average weight of 18 g. The best feature of DATLO is its flavor – it is one of the best tasting tomatoes of this type. Suitable for both single fruit and cluster harvesting. Intermediate resistance to Phytophthora.

## BLUMKO

A mid-early tomato with oval firm fruit (weight about 70 grams). Mini San Marzano type. Fruits are tolerant to cracking and fruit drop and are suitable for long term storage. A nice variety that is best suited for single fruit harvest. Meaty red texture has little juice only. BLUMKO is therefore suitable not only for fresh consumption but also for cooking. Intermediate resistance to Phytophthora.



JAHODO



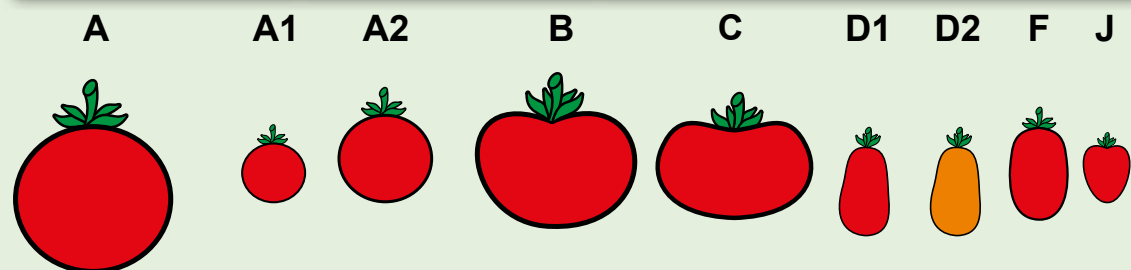
TIGRINO



BLUMKO

# Tomato indeterminant

Variety	Maturity	Plant	Fruit							Resistance								Growing			General remarks
			shape		texture	resistance to cracking	average weight (g)	average sugar content of dry matter (°Brix)	storability	ToMV 0-2	Xc	Ve	Ss	F2	C3	LB	Mi	open field	indoor		
																			summer season	winter season	
<b>NIKI ZEL F1</b>	early	low	round	A	medium	medium	110	6	medium	HR		HR		HR				👍	👍👍	👍👍	nice uniform fruits, very early variety best for indoor production
<b>TORINO F1</b>	early	high	round	A	firm	high	100	6	long ESL	HR		HR		HR	HR			👍👍	👍👍	👍	attractive fruits with an excellent flavor bred for field production
<b>TORNADO F1</b>	mid-early	high	round	A	medium	medium	100	6	medium	HR					HR			👍👍	👍👍	👎	popular home garden variety excellent taste, stable yield
<b>TIPO F1</b>	mid-early	high	round	A	firm	high	100	6	long ESL	HR		HR		HR	HR			👍👍	👍👍	👍	for both outdoor and greenhouses, including hydroponics
<b>PARTO F1</b>	mid-early	medium high	flattened round	B	firm	high	120	5,5	long ESL	HR		HR		HR	HR			👍👍	👍👍	👍	for tunnel greenhouses production, very tasty with a real tomato flavor
<b>ZOFKA F1</b>	mid-early	medium high	flattened	C	soft medium	medium	100	7	medium	HR				HR				👍👍	👍👍	👎	soft, creamy flesh with excellent sweet flavor also suitable for drying
<b>VELORIA ZEL F1</b>	mid-early	medium high	flattened	C	firm	medium	120	6	medium	HR		HR		HR		HR		👍	👍👍	👍👍	healthy and high yielding variety throughout the all growing season
<b>JERGUS F1</b>	mid-early	medium high	flattened	C	medium	medium	400	5,5	medium	HR		HR		HR				👍👍	👍👍	👎	beefsteak heirloom tomato, excellent taste, extremely big fruits
<b>BRUNITO F1</b>	mid-early	medium high	flattened	B	firm	high	120	5,0	medium	HR		HR		HR	HR	HR		👍👍	👍👍	👍👍	unique Kumato resistant to fungi diseases, stress and fruit cracking
<b>BEJBINO F1</b>	early	high	round	A	firm	very high	35	7	long ESL	HR		HR		HR	HR			👍👍	👍👍	👍👍	high yielding cocktail tomato about 12 fruits per cluster
<b>DATLO</b>	early	high	grape (rich yellow)	D2	medium	medium	18	10	medium	HR		HR		HR		IR		👍👍	👍	👍	very sweet, attractive skin color about 12 fruits per cluster
<b>VALDO</b>	very early	high	grape (red)	D1	medium	medium	20	9	medium	HR		HR		HR		IR		👍👍	👍	👍	tolerant to Phytophthora, about 12 fruits per cluster
<b>JAHODO</b>	early	high	strawberry	J	very firm	very high	18	8	very long LSL									👍👍	👍👍	👍	"strawberry" type tomato very tolerant to cracking, about 16 fruits per cluster
<b>BIBI</b>	very early	high	cherry	A1	medium	medium	15	10	medium	HR		HR		HR		IR		👍👍	👍👍	👍	slightly pointed cherry fruits about 20 fruits per cluster
<b>MINI</b>	early	high	cherry	A1	medium	very high	20	9	long ESL	HR				HR		IR		👍👍	👍👍	👍👍	tolerant to cracking, about 12 fruits per cluster, best for single fruit harvest
<b>TIGRINO</b>	early	medium high	round "tiger"	A2	medium	medium	25	8	medium	HR				HR		HR		👍	👍👍	👍👍	green and brown stripes, about 14 fruits per cluster, HR to Nematodes
<b>BLUMKO</b>	mid-early	medium high	"plum"	F	firm	high	70	6	long ESL	HR				HR		IR		👍👍	👍👍	👍👍	mini San Marzano tomato, about 8 fruits per cluster, tolerant to cracking



very suitable   
 suitable   
 not suitable   
 HR - high resistance   
 IR - intermediate resistance

**Resistance**  
**ToMV 0-2** = Tomato mosaic virus races 0,1,2  
**Xc** = bacterial spot caused by Xanthomonas spp  
**Ve** = Verticillium  
**Ss** = Stemphylium solani  
**F2** = Fusarium oxysporum races 0 and 1  
**C3** = Leaf Mold (Passalora fulva syn. Cladosporium fulvum) ABC,  
**LB** = Late Blight (Phytophthora infestans)  
**Mi** = Nematodes (Meloidogyne Incognita)



DARINKA F1



MINIGOLD



KARLA

# Tomato - bush

*Solanum lycopersicum L.*



More about all our Bush Tomatoes

SEMO manages a sizeable, traditional bush tomato breeding program. We develop varieties for both fresh market and processing sectors.

## DARINKA F1

A very early variety for fresh market with crack-resistant round fruit (about 95 g). High quality of fruits and consecutive ripening makes DARINKA highly recommended for fresh market using.

## TEREZA F1

A mid-early variety with big flattened round fruits (about 140 g). Perfect variety for hand picking. Mainly for fresh market (steak type) but for processing is also possible. Firm fruit with long shelf life. Excellent fruit setting under hot climate.

## MINIGOLD

This early variety offer vines with attractive golden cherry fruits (about 25 g). Perfect tomato for fresh market and canning.

## RUBINEK

Bush tomato RUBINEK is an early variety of red cherry tomatoes (about 25 g). Good in taste, attractive in size and color. Excellent quality for fresh market and canning.

## KARLA

A mid-early beefsteak variety (125 g) with very compact plant. KARLA is thus significantly different from other bush tomatoes. Flattened round fruits with nice taste recommended for fresh market first of all. These nice colored fruits with good consistency are really perfect for slicing. It is also suitable for planting in containers or larger flower pots.

PS: Thanks to its dwarf growth, KARLA is also suitable for growing in containers and pots. Young plants are short but strong and look very attractive. This is an interested bonus for vegetable seedlings producers.

## SEMAKING F1

A mid-late hybrid for processing with high stable yield. Plant: medium open, fruit – oval-round, very firm, cca 90 g, Brix cca 5.3. For mechanized harvest and picking by hands as well thanks really big fruits. Very high consistence and viscosity make SEMAKING perfect juicing.

## N SM-ASP F1

Our improved mid-late “SEMAPEEL” with more intense flesh color and excellent health. Plant: medium open, fruit – long-oval, very firm, cca 90 g, Brix cca 5.2. For mechanized harvest or hand picking. Stable growth even under high temperature conditions. This new hybrid with elongate fruits shows good health including high resistance (HR) to Verticilium and tolerance to Phytophthora. Excellent quality and high yield for ketchup production or peeling. SM-ASP F1 is not registered in the EU.

## SEMALATE F1

A late, high yielding hybrid. Plant – medium open, fruit – oval-eggs, very firm, cca 90 g, Brix cca 5.3. For mechanized harvest. Long field life of fruits – tolerant to later harvest.

## SEMAPEEL F1

A mid-late hybrid with longer firm fruits. Plant: open, fruit – long-oval, very firm, cca 80 g, Brix cca 5.1. For mechanized harvest or hand picking. Very suitable variety for peeling.

## SEJK

The most wanted bush tomato from our OP varieties. It gives fruits with a high content of red pigment in its flesh. SEJK goes to maturity very fast and uniformly. Absolute star among very early processing tomatoes.



SEMAKING F1



SM-ASP F1



SEJK

## Tomato bush

Variety	Maturity	Plant Size	Fruit						Suitable for				Disease resistance	General remarks	
			shape	firmness	field storage	average weight (g)	color	Brix	tomato harvester	ketchup paste	diced tomato	whole peeled tomato			
<b>HYBRIDS - for fresh market</b>															
<b>DARINKA F1</b>	very early	XL	A	firm	5	95	High	Medium					HR F2	compact strong upright tops, uniform bigger bulbs	
<b>MARIENKA F1</b>	early	L	B1	firm	5	105	Medium	High					HR F2	very uniform roots, for early field production	
<b>TEREZA F1</b>	mid-early	L	B1	firm	4	140	Medium	High					HR F2	uniform big roots, excellent field holding ability	
<b>OP varieties - for fresh market</b>															
<b>MINIGOLD</b>	early	S	A1	medium firm	5	25	yellow	Medium						attractive golden cherry fruits, for fresh market and canning of whole fruits	
<b>RUBINEK</b>	early	S	A2	medium firm	5	25	Medium	High						good in taste, attractive in size and color, for fresh or canning of whole fruits	
<b>KARLA</b>	mid-early	XS	C	firm	6	125	High	High						very compact plant perfect even for pots very tasty beefsteak fruits	
<b>ORANZE</b>	mid-early	XL	B2	medium firm	5	115	orange	Very High						attractive orange fruits with high level of Beta Carotene	
<b>HYBRIDS - for processing</b>															
<b>SEMALUS F1</b>	early	M	D	very firm	8	80	High	High					HR Ve	excellent stable yield, fast uniform ripening, long field life and high brix	
<b>SEMAPRIM F1</b>	mid-early	M	D	very firm	8	85	High	High					HR Ve	confirmed high yielding hybrid, high level of tolerance to stressful conditions	
<b>SEMAKING F1</b>	mid-late	S	E	very firm	8	90	Very High	High						also for hand picking, big fruits high consistency and viscosity, good for juicing	
<b>SEMAPEEL F1</b>	mid-late	XL	G	firm	7	90	High	Medium					HR Ve	longer firm fruits suitable for mechanized harvest or hand picking, perfect for peeling	
<b>SM-ASP F1</b>	mid-late	L	G	very firm	8	90	High	Medium					HR Ve	improved SEMAPEEL, stable growth even under high temperature conditions	
<b>SEMALATE F1</b>	late	L	H	very firm	9	100	Very High	High					HR Ve IR LB	high yielding hybrid, long field life of fruits – tolerant to later harvest	

very suitable   suitable   not suitable

### Plant Size:

XS Very Small (Compact)  
S Small  
M Medium  
L Large  
XL Very Large (Open)

### Brix, sugar content in dry matter (°Brix)

< 4,8% Low  
4,8 % - 5,1% Medium  
5,1 % - 5,4 % High  
> 5,4% Very High

### Field Storage

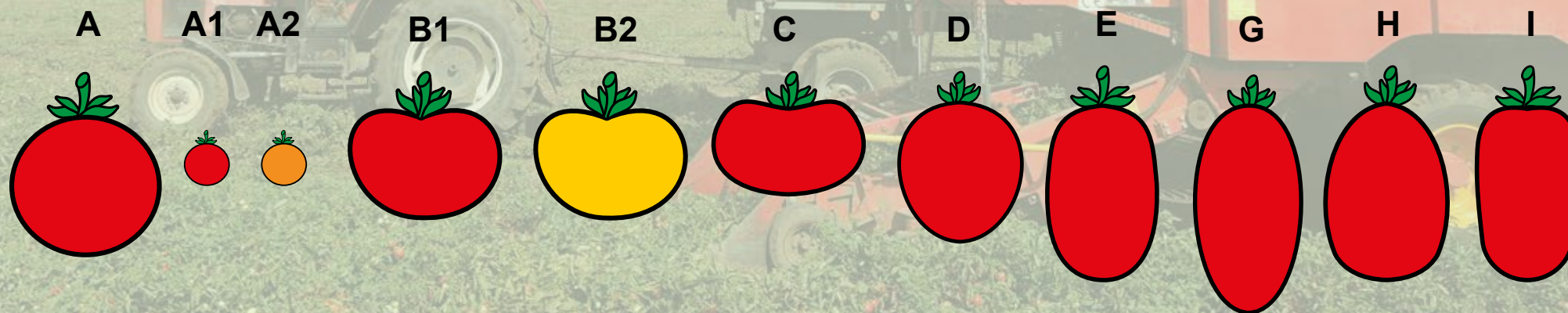
(1 - 10)  
1= short 10=very long (extended)

### Resistance

Ve = Verticillium  
F2 = Fusarium oxysporum races 0 and 1  
LB = Late Blight (Phytophthora infestans)

Variety	Maturity	Plant Size	Fruit						Suitable for				Disease resistance	General remarks
			shape	firmness	field storage	average weight (g)	color	Brix	tomato harvester	ketchup paste	diced tomato	whole peeled tomato		
<b>OP varieties - for processing</b>														
<b>SEJK</b>	very early	L	E	firm	7	85	Very High	High	👍👍	👍👍	👍	👍	HR Ve	maturity very fast and uniform, striking bright red color flesh
<b>SEMAROL</b>	very early	M	D	very firm	8	75	High	High	👍👍	👍👍	👎	👎	HR Ve	it is prominent with dynamic ripening and high yields of long field life fruits.
<b>ESKORT</b>	early	XL	H	firm	7	100	Normal	High	👍👍	👍👍	👍👍	👍	HR Ve	good for manual harvest, fruits grow above foliage, high yield even in arid areas
<b>PROTON</b>	early	L	D	very firm	9	75	High	High	👍👍	👍👍	👎	👎	HR Ve	long field and shelf life, high Brix and high stable yield even in poor seasons – it is our PROTON
<b>PAVLINA</b>	mid-early	XL	C	firm	6	140	High	Very High	👎	👍👍	👍	👎	HR Ve	perfect for manual harvest first of all nice fruits with high content of dry matter
<b>ORBIT</b>	mid-late	S	E	very firm	8	75	High	High	👍👍	👍👍	👍	👍	HR Ve	stable high yields in poor condition proven to perform well in subtropical conditions
<b>DENAR</b>	mid-late	XL	I	firm	7	100	High	Very High	👍	👍👍	👍👍	👎	HR Ve	nice uniform blocky fruits with intensive red color, perfect result even in arid sandy soil
<b>TRITONEX</b>	late	M	D	very firm	8	85	High	Very High	👍👍	👍👍	👎	👎	HR Ve	highly resistant to leaf diseases, high content of dry matter, even for arid areas

👍👍 very suitable    👍 suitable    👎 not suitable





## The best varieties for home garden

Why mention varieties for hobby market in PROFIL catalog? Because we think of you who pack and sell HOBBY seeds or grows seedlings for home gardeners. In general, it can be said that all our varieties can be grown not only by farmers for whom vegetables provide sustenance, but also by

gardeners who grow mainly for fun. And in practice it really happens that way. However, we can highlight some varieties in our assortment that are very suitable for hobby growers and mention their benefits. And it is precisely this selection that we will try to make in this chapter. So let's get into it.

Crop:	Variety:	Why is it so suitable for hobby growers?
Beetroot	<b>RED SHINE</b>	One sprout variety with intensive red flesh for a good price.
Brussels sprouts	<b>DANET F1</b>	Easy to grow, excellent tolerance to cold allows winter harvest.
Cabbage	<b>PORTOZA F1</b>	Stress resistant, nice for home sauerkraut production.
Carrot	<b>ANINA</b>	Very tasty, confirmed carrot for organic growing.
Carrot	<b>CHAMARE</b>	Juicy, very suitable even for heavy soil.
Celery	<b>MERLIN</b>	High tolerance to Septoriosis and bolting.
Cucumber pickl.	<b>CHARLOTTE F1</b>	Very early, slender fruits, not vigorous and easy to harvest.
Cucumber pickl.	<b>GRACIE F1</b>	100% sweet fruits are also nice for fresh, very long fruiting.
Cucumber slic.	<b>MARKYZA F1</b>	The earliest slicer for open field and hoophouses.
Cucumber slic.	<b>MINISPRINT F1</b>	Smaller delicious fruits throughout the all growing season.
Dill	<b>COMPACT</b>	Low plant, dark green color, suitable for pots.
Chives	<b>PRAGUE SPRING</b>	Dark green leaves, intense chive aroma, Organic seeds only.
Kohlrabi	<b>GIGANT</b>	Big bulbs, excellent for winter storage, Czechoslovak heirloom.
Lettuce	<b>HUMIL</b>	Butterhead, delicious taste, suitable for overwintering.
Lettuce	<b>BATAVIA</b>	Batavia can be grown from early spring to late autumn.
Onion	<b>ALICE</b>	Onion with the sharpest taste, excellent for goulash.
Onion	<b>KARMINKA</b>	Attractive elliptic onion with intensive red color.
Onion Bunching	<b>GERDA</b>	Very early, delicious taste, green, erect foliage.

Crop:	Variety:	Why is it so suitable for hobby growers?
Parsley Leaf	<b>FESTIVAL 68</b>	Flat leaf type, resistant to Powdery Mildew and Septoria.
Parsley Root	<b>EFEZ</b>	Nice root parsley with the healthiest and most shiny leaves.
Parsnip	<b>BIELAS</b>	The Award of Garden Merit (AGM).
Green Pea	<b>OSKAR</b>	Very early, long pods, suitability under variable climatic conditions.
Ornamental Pea	<b>AKACIA</b>	Shoots with rosettes of tiny leaves are both tasty and decorative.
Pepper sweet	<b>RAFAELUS F1</b>	The earliest Kapia type pepper, good health.
Pepper sweet	<b>AMY</b>	"Queen" of field peppers with creamy white fruits.
Pepper sweet	<b>HAMIK</b>	Most delicious orange "snack pepper", for indoor and outdoor.
Pepper hot	<b>3 chili brothers</b>	DAMIAN turns red, KILIAN orange, KRISTIAN yellow - 8 cm fruits.
Pepper fiery	<b>VULCAIN</b>	Fruits (700-900,000 SHU) have shape of small golden barrels.
Pumpkin	<b>GOLIAS</b>	Large fruits, best for compotes, suitable also in Organic quality.
Squash-winter	<b>BABY SPAGHETTI F1</b>	Mini spaghetti, golden yellow fruits – about 500 grams.
Squash-summer	<b>TREND F1</b>	Round fruits, young for fresh market and ripe fruits for painting.
Radish	<b>TEKO</b>	Very early, cherry type, mild flavored crispy flesh.
Tomato-bush	<b>KARLA</b>	Beefsteak variety (125 g), compact plant even suitable for pots.
Tomato-indet.	<b>TORNADO F1</b>	Fruits about 100 grams, for open field, stress tolerance.
Tomato-indet.	<b>BRUNITO F1</b>	Healthy and cracking resistant Kumato type, about 120 grams.

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## Vegetable seeds for Microgreens

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### Microgreens

For microgreens (plants that are harvested at the seedling stage) you can use many different vegetables. And if it does not apply to some crops now, they may end up being used as microgreens in the future. The imaginations of producers and consumers are almost infinite. You will find standard "microgreens" species in our every year price list. On your request we are able to send you a special offer of "microgreens" seeds of almost all kinds of vegetables. All seeds are of course untreated with high germination.

**Our standard seed offer for microgreens includes these crops:**

- Cabbage - red
- Cabbage - white
- Carrot
- Cress
- Kohlrabi - purple
- Kohlrabi - white
- Leek
- Onion
- Parsley
- Pea - wrinkled
- Radish - black type
- Radish - DAIKON type
- Radish - European type
- Rocket (Eruca sativa)

We look forward to your order. For any question please don't hesitate to ask.

# ROOTSTOCKS



[More about all our Rootstocks](#)

VITALITY F1

## VITALITY F1 (SM – CF 106)

(*Cucurbita ficifolia* x *C. Bouche*)

A proven rootstock for cucumbers, it has very strong roots and has an affinity with all of SEMO's varieties. Tolerant to fusarium, colder conditions and irregular watering.

## SPRINTER F1

(*Cucurbita maxima* x *C. moschata*)

A Schintosa type rootstock with a very good grafting affinity. Suitable for melons, watermelons and cucumbers. The young seedling stalks have no cavity, which increases success rate with grafting. Adapted to a wide range of climatic conditions. Resistant to Fusarium and tolerant to stressful conditions.

## **N** BOLT F1

(*Cucurbita maxima* x *C. moschata*)

Tetsukabuto type rootstock suitable for grafting of melons, watermelons and cucumbers. The seedlings of this rootstock grow very uniformly and have strong thick stalk - the essential factors for successful grafting. BOLT is highly tolerant to wilt caused by Fusarium, Pythium and Rizoctonium. The grafted plants are vigorous, high yielding and resistant to cold and other stressful weather.

SPRINTER F1

BOLT F1

BOLT also significantly prolongs the life of the grafted plant and thus the harvest period.

## ATLAS F1

(*Lagenaria siceraria*)

ATLAS is a vigorous rootstock, suitable for grafting melons and watermelons. Resistant to Fusarium. Works best at higher temperatures.

## FORTOMA F1

(*Solanum lycopersicum* L. x *L. hirsutum*)

A tall growing rootstock for tomatoes. Tolerant to Fusarium wilt (race 1), Fusarium crown rot, Verticillium wilt and Nematodes. Provides a strong root system which increases the likelihood of a successful graft.

## PROFIT F1 (SM TANT)

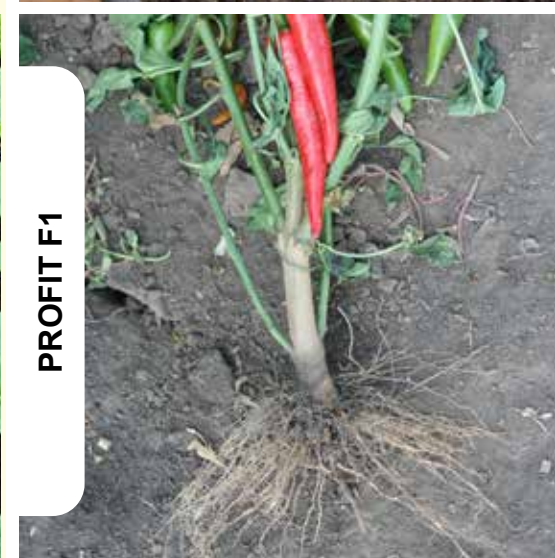
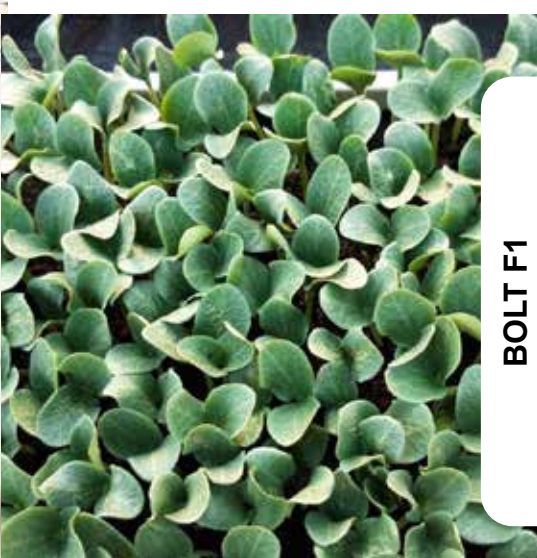
(*Capsicum annum* x *C. chinense*)

A rootstock for peppers. Provides an extensive root system that is tolerant to many soil borne diseases, including Phytophthora. It produces strong vigorous plants during the entire season, including cold periods.

ATLAS F1

FORTOMA F1

PROFIT F1





Basil CINAMONETTE



Basil COMPAKT



Basil DARK GREEN

# HERBS



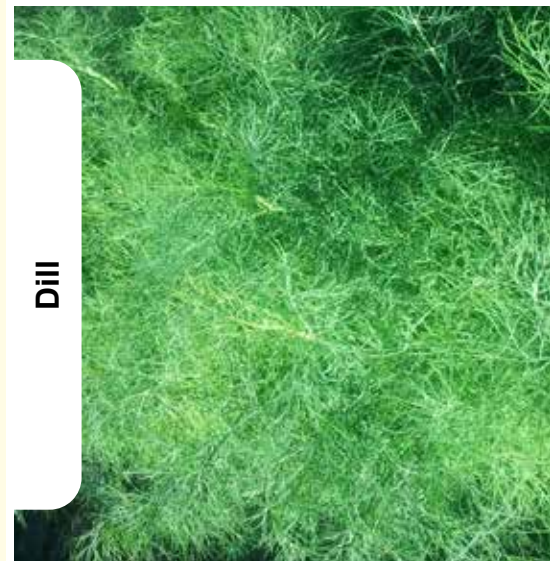
More about all our herbs

We can also offer you seed of some herbs. For more information please contact us.

English name	Latin name	
Basil CINAMONETTE	<i>Ocimum basilicum</i>	cinnamon aroma
Basil COMPAKT	<i>Ocimum basilicum</i>	compact growth habit, fine green leaves
Basil DARK GREEN	<i>Ocimum basilicum</i>	Genovese type, big dark green leaves, for salads
Basil LETTUCE LEAF	<i>Ocimum basilicum</i>	Toscana type, slightly blistered light green leaves
Basil LIME	<i>Ocimum basilicum</i>	lemon aroma, small green leaves
Basil MAMMOLO GENOVESE	<i>Ocimum basilicum</i>	big dark green leaves, for salads and oil production
Basil PURPLE OPAAL	<i>Ocimum basilicum</i>	purple, slightly blistered leaves
Basil RED RUBIN	<i>Ocimum basilicum</i>	purple smooth leaves
Borage (Starflower)	<i>Borago officinalis</i>	stout "honey" herb with azure blue flowers
Cone flower	<i>Echinacea purpurea</i>	disinfecting and antibacterial digestion
Coriander AROMA	<i>Coriandrum sativum</i>	a bolt resistant, "Long Standing" type
Dill	<i>Anethum graveolens</i>	varieties HANAK, COMPACT and MAMUT
Lovage	<i>Levisticum officinale</i>	a very fragrant lovage
Marigold PLAMEN PLUS	<i>Calendula officinalis</i>	high yielding variety with big flowers
Marjoram	<i>Majorana hortensis</i>	varieties include MARIETTA and MARCELKA
Lemon balm CITRA	<i>Melisa officinalis</i>	strong lemon aroma
Lavender	<i>Levandula officinalis</i>	perennial with spikes of blue flowers, very aromatic



Marigold PLAMEN PLUS



Dill



Marjoram



**Cone Flower**



**Coriandr AROMA**



**Basil LETTUCE LEAF**



**Basil MAMMOLO GENOVESE**



**Lemon balm CITRA**



**Lovage**

# Recommendations for growing

Crop	Recommended plant density (1000 plants/ha)	Recommended sowing rate (kg/ha)	Thousand seed weight (g)	Number of seeds per gram	Direct sowing date (month)	Production from transplants			Recommended crop spacing (cm between rows x cm within rows)	Germination time (days)	
						sowing depth (cm)	sowing date (month)	transplanting date (month)			
Indoor crops	Cucumber	15 - 20	0.5 - 0.7	25 - 33	30 - 40		3.0 - 4.0	IX. - II.	X. - III.	double rows: 100 cm apart 50 - 60 x 50 - 60	5 - 6
	Lettuce	160 - 200	0.1 - 0.2	0.9 - 1.1	900 - 1 100		0.5 - 1.0	IX. - II.	XI. - IV.	20 - 25 x 25	6 - 8
	Pepper	30 - 40	0.15 - 0.3	5.3 - 8.0	125 - 189		1.0 - 2.0	I. - III.	IV. - V.	50 - 60 x 40 - 50	10 - 18
	Radish	1 250 - 2 200	12.5 - 26.4	10 - 12	80 - 100	X. - II.	1.0 - 1.5			15 x 3 / 20 x 4	5 - 8
	Tomato indeterminate	30 - 40	0.09 - 0.15	3.1 - 3.5	286 - 323		1.0 - 1.5	XI. - III.	I. - V.	3 - 4 plants/m <sup>2</sup>	8 - 12
Field crops	Bean - bush	400 - 600	76 - 138	190 - 230	4.0 - 5.0	V.	4.0 - 7.0			40 x 6 - 10	5 - 7
	Bean - climbing	200 - 300	80 - 200	610 - 730	1.4 - 1.6	V. - VI.	4.0 - 10.0			60 x 6 - 10	5 - 7
	Beetroot - abraded	200 - 600	2.2 - 6.0	11 - 20	50 - 91	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	Beetroot - not abraded	200 - 600	3.0 - 6.0	15 - 20	50 - 67	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	Beetroot - one sprout type	200 - 600	1.2 - 2.7	6.0 - 9.0	111 - 167	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	Brussels Sprout	25 - 30	0.09 - 0.1	3.6 - 4.1	244 - 278	IV. - V.	1.0	IV.	V. - VI.	60 x 60	4 - 6
	Cabbage - processing	25 - 30	0.09 - 0.15	3.8 - 5.0	200 - 263	IV. - V.	1.0 - 1.5	IV. - V.	V. - VI.	60 x 50 - 60	4 - 8
	Cabbage - storage	30 - 40	0.1 - 0.2	3.8 - 5.0	200 - 263	IV. - VI.	1.0 - 1.5	IV.	V.	50 - 60 x 50 - 60	4 - 8
	Cabbage - summer crop	40 - 50	0.15 - 0.2	3.8 - 5.0	200 - 263	IV. - VI.	1.0 - 1.5	II. - III.	III. - IV.	40 - 50 x 50	4 - 8
	Cabbage - very early	50 - 70	0.2 - 0.3	3.8 - 5.0	200 - 263		1.0 - 1.5	I. - II.	III. - IV.	40 - 50 x 40	4 - 8
	Carrot - for bunching	1 200 - 2 000	1.0 - 2.2	0.65 - 1.2	800 - 1 500	III. - VII.	1.0 - 2.0				15 - 20
	Carrot - for processing	800 - 1 500	0.7 - 1.4	0.65 - 1.2	800 - 1 500	III. - IV.	1.0 - 2.0			usually beds with 1 - 3 double rows	15 - 20
	Carrot - main crop	600 - 1000	0.4 - 1.2	0.65 - 1.2	800 - 1 500	III. - V.	1.0 - 2.0				15 - 20
	Celeriac	50 - 67	0.02 - 0.05	0.3 - 0.5	2 000 - 3 300		0.5	II. - III.	V.	50 x 40 - 30	14 - 21
	Corn salad	2 500 - 4 000	5.8 - 10.0	2.3 - 2.5	400 - 435	III. - IV., VIII. - IX.	1.0			12.5 - 20 x 2	8 - 14
	Cucumber pickling	30 - 50	0.8 - 1.5	17 - 22	45 - 58	IV. - V.	3.0 - 4.0	IV.	V.	120 x 20 - 25	5 - 6
	Cucumber salad	30 - 40	0.6 - 1.0	20 - 28	35 - 50	IV. - V. (VI.)	3.0 - 4.0	IV. - V.	V. - VI.	120 x 20 - 25	5 - 6
	Dill	20 000 - 70 000	30 - 100	1.3 - 1.8	556 - 769	III. - VIII.	1.0 - 2.0			20 x 2 - 4	15 - 20
	Pea - big seeds	900 - 1200	170 - 300	180 - 240	4.0 - 5.0	III. - IV.	5.0 - 8.0			12 x 5	6 - 8
	Pea - small seeds	1000 - 1200	100 - 180	115 - 160	6.0 - 9.0	III. - IV.	5.0 - 8.0			12 x 5	6 - 8
	Chinese cabbage	60 - 80	0.16 - 0.24	2.7 - 3.0	333 - 370	VI.-VII.	1.0 - 1.5			40 x 30 - 40	6 - 8
	Kohlrabi - early	100 - 200	0.7 - 1.0	3.5 - 5.0	200 - 286		1.0 - 1.5	I.	I. - III.	20 - 30 x 25 - 30	6 - 8
	Kohlrabi - late	80 - 130	0.3 - 0.7	3.5 - 5.0	200 - 286		1.0 - 1.5	III. - IV.	IV. - VI.	30 - 40 x 25 - 30	6 - 8
	Leek - autumn harvest	170 - 200	0.6 - 0.9	2.9 - 3.3	303 - 345	IV.	2.0 - 2.5	IV.	V. - VI.	40 x 10 - 15	14 - 25
	Leek - overwintering	170 - 200	0.6 - 0.9	2.9 - 3.3	303 - 345	V.	2.0 - 2.5	IV. - V.	V. - VII.	40 - 50 x 10 - 15	14 - 25
	Leek - summer harvest	200 - 250	0.7 - 1.0	2.9 - 3.3	303 - 345	III. - IV.	2.0 - 2.5	III. - IV.	IV. - V.	40 - 50 x 10 - 15	14 - 25
	Lettuce butterhead - overwintering	130 - 160	0.1 - 0.2	0.9 - 1.1	900 - 1 100	VIII. - IX.	0.5 - 1.0	VIII.	IX. - X.	25 x 25 - 30	6 - 8
	Lettuce butterhead - spring and autumn	130 - 160	0.1 - 0.2	0.9 - 1.1	900 - 1 100	III. - IV., VII.	0.5 - 1.0	II.	III. - IV.	25 x 25 - 30	6 - 8

Crop	Recommended plant density (1000 plants/ha)	Recommended sowing rate (kg/ha)	Thousand seed weight (g)	Number of seeds per gram	Direct sowing date (month)	Production from transplants			Recommended crop spacing (cm between rows x cm within rows)	Germination time (days)
						sowing depth (cm)	sowing date (month)	transplanting date (month)		
<b>Lettuce butterhead - summer</b>	60 - 120	0.09 - 0.2	0.9 - 1.1	900 - 1 100	IV. - VI.	0.5 - 1.0			30 - 40 x 30 - 40	6 - 8
<b>Lettuce iceberg</b>	50 - 80	0.09 - 0.2	1.0 - 1.2	830 - 1 000	IV. - VI.	0.5 - 1.0			40 - 50 x 30 - 40	6 - 8
<b>Lettuce leaf</b>	110 - 130	0.09 - 0.1	0.9 - 1.1	900 - 1 100	VII.	0.5 - 1.0	II.	III. - IV.	30 x 30 - 25	6 - 8
<b>Marjoram</b>	250 - 300	0.05 - 0.06	0.19 - 0.21	4 762 - 5 263		shallowly	II. - III.	IV. - V.	25 x 15 (2 - 3 plants)	10 - 20
<b>Mellon</b>	15 - 20	0.4 - 0.5	24 - 25	40 - 42		3.0 - 4.0	III. - VI.	V. - VI.	120 x 40 - 50	8 - 10
<b>Onion - overwintering</b>	1 250 - 1 500	4.0 - 5.0	3.2 - 4.0	250 - 310	15th-25th VIII.	2.0 - 2.5			usually beds with 4 - 7 double rows	12 - 18
<b>Onion - spring</b>	900 - 1000	3.0 - 4.0	3.2 - 4.0	220 - 280	III. - IV.	2.0 - 2.5				12 - 18
<b>Parsley leaf</b>	1 000 - 7 500	1.5 - 12.0	1.3 - 2.3	435 - 769	III. - IV., VIII.	1.0 - 2.0			10 - 20 x 1 - 3	18 - 30
<b>Parsley root</b>	500 - 800	0.6 - 1.2	1.1 - 1.5	667 - 909	III. - IV.	1.0 - 2.0			30 - 40 x 4 - 5	18 - 30
<b>Parsnip</b>	350 - 800	1.5 - 4.0	4.2 - 5.1	196 - 238	II. - IV.	1.0 - 2.0			30 - 40 x 4 - 7	20 - 30
<b>Pepper</b>	20 - 35	0.15 - 0.25	7.0 - 8.0	110 - 140		0.8 - 1.2	I. - III.	IV. - V.	double rows: 80 - 100 cm apart 40 - 50 x 35- 40	10 - 18
<b>Pumpkin</b>	5	0.6 - 1.0	130 - 200	5.0 - 8.0	IV. - V.	5.0 - 7.0			200 x 100	8 - 10
<b>Radish - Daikon (mooli)</b>	50	0.5 - 0.6	11 - 12.4	81 - 91	VII. - VIII.	2.5 - 3.5			50 x 40	5 - 8
<b>Radish - standard type</b>	1 250 - 2 200	12.5 - 26.4	10 - 12	83 - 100	II. - III., V., VII. - VIII.	2.0 - 3.0			15 x 3 / 20 x 4	5 - 8
<b>Savoy Cabbage</b>	40 - 62	0.1 - 0.3	2.9 - 5.0	200 - 345	V.	1.0 - 2.0			0.4 - 0.5 x 0.4 - 0.5	4 - 6
<b>Scallop squash</b>	12 - 14	0.9 - 1.1	79 - 83	12 - 13	IV. - V.	3.0 - 4.0	IV. - V.	IV. - V.	120 x 60 - 70	8 - 10
<b>Spinach - autumn</b>	2 200 - 2 500	15 - 25	6.0 - 12.0	71 - 91	III. - IV., VII. - IX.	2.0 - 3.0			20 - 25 x 2	6 - 8
<b>Squash</b>	8 - 10	1.0 - 2.0	130 - 200	5.0 - 8.0	IV. - V.	5.0 - 7.0			120 - 150 x 80	8 - 10
<b>Sweet corn</b>	60 - 130	11 - 27	185 - 210	5.0 - 6.0	V. - VI.	5.0 - 10.0			40 - 70 x 20 - 25	10 - 12
<b>Swiss Chard</b>	170 - 250	2.5 - 5.0	15 - 20	50 - 67	IV. - V.	3.0 - 5.0			40 x 10 - 15	8 - 14
<b>Tomato bush</b>	80 - 120	0.4 - 0.8	2.3 - 2.9	345 - 435	III. - V.	1.0 - 2.0	III. - IV.	V.	double rows: 100 x 50 x 40	8 - 12
<b>Tomato indeterminate</b>	30 - 40	0.09 - 0.15	3.1 - 3.5	286 - 323		1.0 - 2.0	XI. - III.	III. - V.	3 - 4 plants/m <sup>2</sup>	8 - 12
<b>Watermelon</b>	10 - 15	0.2 - 0.6	22 - 42	24 - 45		3.0 - 4.0	IV. - V.	V. - VI.	150 x 60	8 - 10

Field crops





anniversary  
30



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