



VEGETABLE SEED
CATALOGUE
2025



THE MUSASHINO SEED CO.,LTD.

From **N**ippon to the world



Musashino delivers superior seed and seedlings

Dear Customer

It is our great hope that our new commercial catalogue will provide our valued customers with new detailed information about our vegetable seeds.

We hope you will find it useful and informative in familiarizing you with our quality products.

The Musashino Seed Co., Ltd. has, in the 90 years since its founding, accumulated and cultivated its own original know-how, meeting consumer needs by developing high-quality seeds.

At our breeding farm established in 2007, we aim to nurture even more high-quality, superior seeds and are actively introducing high-tech, cutting-edge techniques.

Our products are widely sold in Japan and also exported all over the world.

It is our great honor that our high quality seeds are playing a major role in agricultural development worldwide.

The Musashino Seed Co., Ltd. would like to take this opportunity to begin a new partnership with you in providing top quality products.

We wish you a prosperous season and hope to soon be of service to you.

Truly yours,



油本 大樹

President Daiju Yuki
The Musashino Seed Co., Ltd.

1958



Miyoshi Breeding & Research Station

Since our founding in 1931, we have been working with the desire to contribute to agriculture not only in Japan but throughout the world.

Even after 90 years of history, we will continue to connect this feeling to the future.

1961



Headquarters in Ikebukuro

Musashino Seed

A Reliable Global Brand



1 Breeding

The purpose of breeding is to develop superior varieties. At our research farm, one by one breeders work aiming to breed new varieties. For breeding research, we always make sure to use the best technology available. In the spring of 2007, we established Niihari Breeding Farm in Tsuchiura City, Ibaraki Prefecture. The farm occupies an area of ten hectares and is home to some of the newest facilities. Here, we promote specialized breeding of vegetables which include varieties for the Japanese domestic market as well as overseas. Throughout our long history, we have developed many superior varieties, making a great contribution to the seed industry. We continue to conduct research and development of new varieties in response to market needs, and introducing new breeding technology.



Trial Evaluation



R&D Station



Office building of Niihari Breeding Farm

2 Production

For seed propagation, seed production sites have been set up all over the world in Europe, Oceania, Africa and South America as well as in Japan. With our expert knowledge of state of the art seed propagation technology, we are conducting stable production of high-quality seed. Among the conditions for good seed propagation, the site and weather conditions suitable to the variety are naturally taken into consideration, but it is also essential to fully understand the importance of the healthy nature of the stock seed, for it is from this parent seed that the seed is born. We truly feel we have succeeded in producing a superior level of seed.



Production Field

3 Quality Management

In recent years, the seed industry has seen greater and greater rises in the level of demand for quality. In response to this, in 2000 we established several high-level warehouses equipped with the newest facilities in Asaka City, Saitama Prefecture. Here, each seed is stored in suitable conditions, which enables us to then market sound and healthy seed free from diseases. We also operate a complete product quality management system, with strict selection, and inspection for seed germination and disease.



Asaka QC Center



Seed Inspection Room



Low-Temperature and Humidity Storage Facilities

4 Sales and Follow-up

Our work is not just the sale of seeds. First and foremost, we think of the incomes of farmers. To be able to fully demonstrate the characteristics of varieties, we conduct various events, local production workshops, and local study groups. In addition, we have strong ties with vegetable producers throughout the world. Furthermore, we have a comprehensive support system that includes the speedy supply of products, to assistance with cultivation, etc.



Field Day Event

Portfolio



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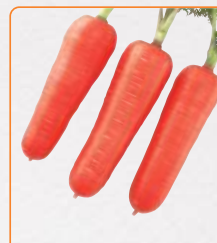
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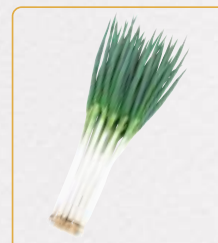
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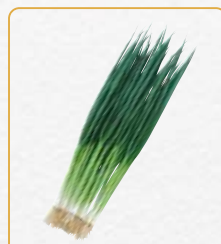
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Bunching Onion

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Chrysanthemum

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Edamame soybean

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Cauliflower ~ Brassica oleracea ~



F₁ Hybrid

MSD-1317

Early maturity, pure white curd with excellent dome shape.

- Tropical 45-50days after transplanting.
- Healthy dome shaped curd.
- Thick leaf can keep high vigorous under high temperature.

**F₁ Hybrid**

MSD-1191

Extra early maturity with heat tolerance.

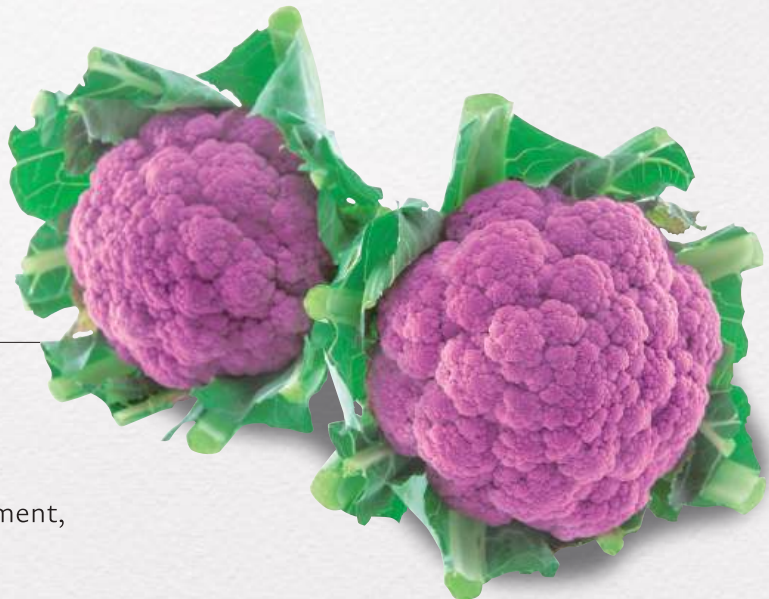
- Tropical 40-45days maturity.
- Dome shape and less physiological disorders.
- Excellent heat tolerance.
- Remakable big volume than other extra early cauliflower.

**F₁ Hybrid**

MSD-1227

New wisteria color cauliflower.

- Early maturity 75days after transplanting.
- Curd is flat round shape and smooth surface.
- Color becomes bluish-purple by heat treatment, but good taste.
- Adding good touch of color to salad.





F₁ Hybrid

LASER

Heat and humidity tolerant, extra early maturity.

- Tropical 40-45days maturity.
- Great hot and humidity tolerance from its vigorous root system.
- Curd is dome shaped and smooth.
- Weight about 800g.



F₁ Hybrid

KANSETSU

Early maturity type without abnormal curds.

- Semi tropical 60-65days maturity.
- Vigorous, moderately upright leaves.
- Curd are well covered with wide leaves.
- Curd is round dome shaped, white smooth.
- Weighting 800-900g.



F₁ Hybrid

SETSUYO

Extra early maturity type with white, heavy and uniform curds.

- Tropical 45-50days maturity.
- Upright standing, moderately vigorous with wide leaves.
- Well adaptable to dense planting
- Curd are well covered with bracts among extra early maturity segment.
- Weight about 700g-800g.

Variety	Maturity (Days after planting)	Plant Shape	Curd Weight(gr.)	Curd Color	Heat Tolerance	Season
F ₁ Hybrid MSD-1317	45-50	Upright	700	Pure White	Strong	Tropical
F ₁ Hybrid MSD-1191	40-45	Semi-Upright	600	White	Very Strong	Tropical
F ₁ Hybrid MSD-1227	75	Semi-Upright	900	Wisteria	Strong	Temperate
F ₁ Hybrid LASER	40-45	Upright	800	Pure White	Strong	Tropical
F ₁ Hybrid KANSETSU	60-65	Semi-Upright	800	Pure White	Medium	Semi Tropical
F ₁ Hybrid SETSUYO	45-50	Upright	700	Pure White	Very Strong	Tropical

Cabbage ~ Brassica oleracea ~

F₁ Hybrid

MS-1327

Vigorous and high yield.

- Stable flat shape.
- 75days after transplanting.
- Good eating quality.



F₁ Hybrid

MS-1365

Early stable variety.

- Thicker foliage.
- 65-70days after transplanting.
- Good transportation ability.





F₁ Hybrid

SEIKAN

Early maturity with heat tolerance.

- Can be harvested in 60-65days after transplanting.
- Strong plant vigor.
- Strong for wet & dry condition.



F₁ Hybrid

ROCKY

Excellent for long transportation.

- Strong to Fusarium yellow and can be harvested in about 65days after transplanting.
- Head is approximately 1.5kg, semi flat shaped and very uniform.



F₁ Hybrid

RYOZEKI

Wide adaptability for different conditions.

- Fresh green head averages 1.5-2.0kg.
- Superb uniformity.
- Can be harvested in 70days after transplanting.
- Resists bursting with an ideal choice for long shipping.



F₁ Hybrid

JET

Choice of semi flat cabbage.

- Ready for harvest in 60-65days after transplanting.
- The head is dark green and the leaves are thick.
- The head itself is slow crack, long field holding.
- Weight about 1.5-2.0kg.



F₁ Hybrid

BEAUTY

Beautiful round cabbage.

- Ready for harvest in 55-60days after transplanting.
- Weighs about 1.0-1.5kg.
- Excellent uniformity.
- Slow to crack, and has a long harvesting period.
- Good disease tolerance, suitable for both temperate regions and highlands.



F₁ Hybrid

MSC-1322

Round cabbage for tropical region.

- Can be harvested in 60days after transplanting.
- Round shape head.
- Dark green leaf, good eating quality.

Type	Variety	Maturity (Days after planting)	Head Weight (kg)	Head Color	Disease Tolerance	Heat Tolerance	Cold Tolerance	YR
Semi-flat	F ₁ Hybrid MS-1327	70	2	Green	Medium	Medium	Medium	YR
	F ₁ Hybrid MS-1365	65-70	1.5-2.0	LightGreen	Medium	Medium	Medium	YR
	F ₁ Hybrid SEIKAN	60-65	1.5-2.0	Dark Green	Medium	Strong	Medium	YR
	F ₁ Hybrid ROCKY	65	1.5	Dark Green	Strong	Strong	Medium	YR
	F ₁ Hybrid RYOZEKI	70	1.5-2.0	Light Green	Strong	Medium	Medium	YR
	F ₁ Hybrid JET	60-65	1.5-2.0	Dark Green	Strong	Strong	Medium	YR
Round	F ₁ Hybrid BEAUTY	55-60	1.0-1.5	Light Green	Medium	Medium	Medium	YR
	F ₁ Hybrid MSC-1322	60	1.2-1.5	Green	Medium	Strong	Medium	-



Broccoli ~ Brassica oleracea ~

F₁ Hybrid

SALINAS EARLY

Early maturity broccoli.

- Early variety with wide adaptability to different climatic regions and sowing periods.
- Dark green color and weight approx 350g.
- Plant has a waxy surface and it is strong against black rot.
- Suitable for spring sowing, can be harvested in 60days after transplanting.



Chinese Kale ~ *Brassica alboglabra* ~

F₁ Hybrid

MS-1339

Excellent heat tolerance new chinese kale.

- Leaf is deep green color and smooth, thick stem.
- Strong vigorous in high temperature season.
- It can be harvested in 50-55 days.



F₁ Hybrid

SEIHO

Beautiful, thick stems.

- White flower variety ready for harvest 55-60days after sowing.
- A vigorous plant with thick stems, high yield.
- Nodes are medium long, strong heat & cold tolerance, wide sowing season.
- The plant height is 40cm with a stem height of 35cm stem thickness is 2.0-2.5cm, weight is 150-200g.





F₁ Hybrid

RAKUHO

Stems are thick and glossy.

- White flower variety ready for harvest 50-55days after sowing.
- Stems are very dark, glossy green with less bloom.
- Strong vigorous upright plant.
- The plant height is 40cm with a stem height of 35cm stem thickness is 2.0-2.2cm, weight is 130-180g.



F₁ Hybrid

SUIHO

Fresh green, soft and delicious with wide stem.

- Vigorous plant can be harvested in 50-55days after sowing.
- Dark green, thick and small round leaves with little bloom.
- Tolerant to diseases, soft and delicious with wide stem.
- 1.7cm-2.0cm stem, 35cm height, 30cm long and 100-150g main stem.





F₁ Hybrid

TOKUHO

Medium maturity variety that can be harvested in 55-60days.

- Strong vigorous semi-upright plant.
- Large, thick, and heavy leaves.
- Nodes are medium length, smooth and beautiful.
- The plant height is 40cm with a stem height of 35cm stem thickness is 2.0-2.5cm, weight is 150-200g.



F₁ Hybrid

RYOKUHO

Extra early maturity.

- Vigorous plant can be harvested in 45-50days after sowing.
- Upright and thick leaves of little bloom.
- Resistant to diseases, good shaped, soft and delicious with wide stem.
- 1.7cm-2.0cm stem, long internode, 40cm height, 35cm long and 100-150g main stem.

Type	Variety	Maturity (Days after planting)	Leaf Color	Plant Shape	Internodes	Bolting	Heat Tolerance
Leaf	F ₁ Hybrid MS-1339	50-55	Dark	Upright	Medium	Late	Strong
Stem	F ₁ Hybrid SEIHO	50-55	Dark	Semi-upright	Medium Long	Medium	Strong
Stem	F ₁ Hybrid RAKUHO	50-55	Dark	Upright	Medium	Medium Late	Medium
Stem	F ₁ Hybrid SUIHO	50-55	Dark	Semi-upright	Long	Medium	Strong
Stem	F ₁ Hybrid TOKUHO	55-60	Dark	Semi-upright	Medium	Medium	Strong
Stem	F ₁ Hybrid RYOKUHO	45-50	Dark	Semi-upright	Medium	Medium	Strong

Pak choi ~ *Brassica chinensis* ~

F₁ Hybrid

MS-1427

New generation short pak choi.

- Glossy and vivid color leaves.
- High yielding.
- Upright and good compaction.
- Autumn~Spring variety.



F₁ Hybrid

MSW-1305

Brand new summer pak choi from MUSASHINO.

- Short petiole type pak choi with heat tolerance.
- Upright plant and good workability.
- Good shaped smooth leaf.



F₁ Hybrid

CR VIGOR

Introducing clubroot tolerance pak choi into the world.

- Regular size plant with heat tolerance.
- Vigorous plant, high yielding.
- Strong for clubroot.



F₁ Hybrid

VIGOR

Heat tolerant, suitable for cultivation in sub-tropical to tropical regions.

- Vigorous and upright plant.
- Dark green leaves with wide petiole.
- High yield under tropical condition.

F₁ Hybrid

SUMMER FESTIVAL

Strong tolerance to heat.

- Oblong leaves sit on top of a thick petioles.
- Early maturity and upright plant.
- Recommended for sub-tropical to tropical regions.





F₁ Hybrid

LUNAR QUEEN No.2

Excellent for winter – spring season.

- Great cold tolerance, late bolting.
- Dark green leaf with glossy petiole.
- Good uniformity for shape.



F₁ Hybrid

LUNAR QUEEN

Slow bolting for cool regions, suitable for autumn and winter planting.

- Thick and medium length petioles.
- Tender and excellent in taste.
- Upright plant and rich green leaves.

F₁ Hybrid

AUTUMN BREEZE

Many leaves and vigorous growth.

- Upright and vigorous plant.
- Bolting is slightly slower than SUMMER FESTIVAL.
- Abundant leaves are not declined in the volume after harvest and preparation.



F₁ Hybrid

HARMONY

Beautiful petiole, highly tolerant to heat and rain.

- Glossy and beautifully shaped short petioles.
- Fast growing and has strong tolerance to heat, disease and rain.
- Suitable for year-round cultivation.



F₁ Hybrid

BULLET

Extra short petiole with excellent uniformity.

- Extra short and beautiful shape. petiole is wide and thick.
- Suitable for year round cultivation in the sub-tropical to tropical regions.
- Leaves are very dark green.



F₁ Hybrid

GLORY

Compact plant with dark green leaf and petiole.

- Early maturity with wide petiole, rather heavy.
- Petioles are short and very dark green.
- Glossy dark green plants.

F₁ Hybrid

HANAKAN

Excellent uniformity, early maturity.

- All year round sowing capability.
- Beautiful dark green oblong leaf sits on top of thick, sturdy petioles.
- Vigorous growth even in most adverse conditions.

F₁ Hybrid

KINKA

Excellent uniformity, tolerant to heat and rain, beautiful shape.

- Early maturing variety with an excellently hard and short petioles.
- Resistant to heat and rain.
- Adaptable to wide cultivation types in tropical, sub tropical.

F₁ Hybrid

WASE KAKYO

Dark leaf color, heat tolerant.

- Early Maturity with outstanding heat tolerance.
- Dark green and short petiole.
- Vigorous growth and good uniformity.

Variety	Leaf Color	Plant Shape	Petioles	Bolting	Heat Tolerance	Cold Tolerance
F ₁ Hybrid MS-1427	Very dark	Upright	Short	Medium Early	Strong	Medium
F ₁ Hybrid MSW-1305	Dark	Upright	Medium	Medium Early	Very Strong	Weak
F ₁ Hybrid CR VIGOR	Dark	Upright	Medium Long	Medium Early	Strong	Medium
F ₁ Hybrid VIGOR	Dark	Upright	Medium	Medium Early	Very Strong	Medium
F ₁ Hybrid SUMMER FESTIVAL	Dark	Upright	Medium	Early	Strong	Medium
F ₁ Hybrid LUNAR QUEEN No.2	Very Dark	Upright	Medium	Late	Medium	Very Strong
F ₁ Hybrid LUNAR QUEEN	Dark	Upright	Medium	Late	Medium	Very Strong
F ₁ Hybrid AUTUMN BREEZE	Dark	Upright	Short	Medium Early	Medium	Medium Strong
F ₁ Hybrid HARMONY	Dark	Upright	Short	Medium Early	Strong	Medium
F ₁ Hybrid BULLET	Very Dark	Upright	Extra Short	Medium	Medium Strong	Medium Strong
F ₁ Hybrid GLORY	Very Dark	Upright	Short	Early	Medium Strong	Medium
F ₁ Hybrid HANAKAN	Very Dark	Upright	Very Short	Early	Strong	Weak
F ₁ Hybrid KINKA	Dark	Upright	Very Short	Early	Strong	Weak
F ₁ Hybrid WASE KAKYO	Very Dark	Upright	Short	Early	Strong	Weak

Turnip ~ Brassica rapa ~

F₁ Hybrid

HAKUBA

Best for raw eating, all season variety.

- Amazingly great taste for fresh eating.
- Root has soft texture with high brix.
- Good uniformity.



F₁ Hybrid

DUKE

Early less deform summer turnip with excellent taste.

- Extra early maturing and good uniformity.
- Root has globe shape, white and glossy skin.
- Best performance in summer, remain well in greenhouse cultivation in all season.





F₁ Hybrid

BARON

Summer variety with strong tolerance for club root.

- Most suitable for summer cultivation with tolerance to club root and strong heat tolerance.
- Root is glossy white with a round globe shape and voluminous.
- Wide petioles are excellent and easy to harvest.



F₁ Hybrid

AISHINKU No.3

Suitable for processing.

- For autumn and spring sowing.
- An early maturing type that grows to approximately 75cm long and 3cm in diameter.
- Extremely uniform in growth and shape, superb eating quality of fresh.



F₁ Hybrid

CR SHIRAYUKI

Clubroot resistant with medium size root.

- Fresh is tender and juicy.
- Can be harvested from small to medium in size.
- Root is slow to pithiness and cracking.

F₁ Hybrid

HAKUHAI

Autumn-winter sowing medium size turnip.

- A clean white globe shaped root is approximately 700 grams and 8-13cm long after 60 days.
- Uniform with white glossy skin and firm sweet fresh is excellent for pickles.
- Tolerant against pithiness.

F₁ Hybrid

KANPAI No.2

Medium size turnip with excellent uniformity.

- Can be harvested at 9-14cm in diameter. Slow bolting, suitable for autumn to winter sowing.
- The root is a high-round shape, heavy and it has good uniformity.
- Firm and tender root is slow to pithiness.

Variety	Harvesting Season	Root Length (cm)	Root Color	Bolting	Disease Tolerance	Heat Tolerance	Cold Tolerance
F ₁ Hybrid HAKUBA	Year-Round	10	White	Medium Early	-	Strong	Strong
F ₁ Hybrid DUKE	Year-Round	10	White	Late	-	Medium	Medium
F ₁ Hybrid BARON	Summer	10	White	Late	Club Root	Strong	Medium
F ₁ Hybrid AISHINKU No.3	Autumn, Winter, Spring	12	Red	Medium Early	-	Medium	Medium Strong
F ₁ Hybrid CR SHIRAYUKI	Autumn, Winter, Spring	12	White	Late	Club Root	Medium	Medium Strong
F ₁ Hybrid HAKUHAI	Autumn, Winter, Spring	9-12	White	Medium	-	Weak	Medium Strong
F ₁ Hybrid KANPAI No.2	Autumn, Winter, Spring	12	White	Medium	Club Root	Weak	Medium Strong

Choi Sim ~ Brassica rapa campestris ~

F₁ Hybrid

MSX-1239

New high yield and early maturity.

- Maturity in 28-32 days.
- Thick and smooth, glossy dark green stem.
- Round and short leaves make high yielding.
- Excellent eating quality.



F₁ Hybrid

MS-1341

High yield, excellent heat tolerance.

- Strong vigorous remain under high temperature.
- Can be harvested in 35-40days.
- Plant is upright and easy for harvesting.
- Large leaves and high yield.

Type	Variety	Maturity (Days after planting)	Leaf Color	Plant Shape	Bolting	Heat Tolerance	Cold Tolerance
Stem	F ₁ Hybrid MSX-1239	28-32	Dark	Upright	Early	Medium	Medium
Leaf	F ₁ Hybrid MS-1341	35-40	Medium	Upright	Late	Strong	Medium

Komatsuna ~ Brassica rapa ~



F₁ Hybrid

MATSURI

High heat tolerance, wide adaptability.

- Strong against physiological disorder.
- High workability.
- Great uniformity.



F₁ Hybrid

KIRARI

Deep dark green and glossy leaf, high yield for summer season.

- Upright variety with very dark green and glossy leaf.
- Slow growing even under high temperature.
- Wide harvesting season with high yielding.



F₁ Hybrid

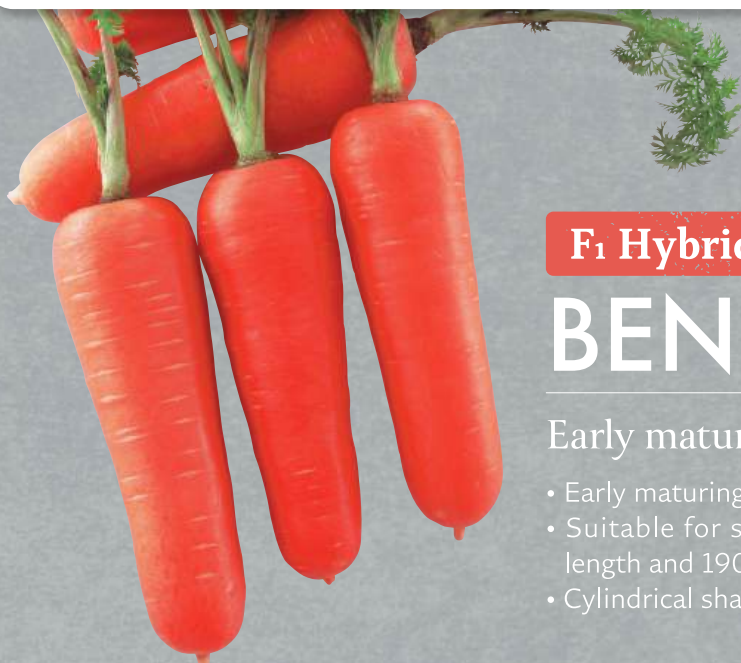
NONATSU

Strong against tip burn and cupping.

- Wide adaptability.
- High workability.
- Upright.

Variety	Leaf Color	Plant Shape	Plant Growth	Heat Tolerance	Cold Tolerance
F ₁ Hybrid MATSURI	Dark	Upright	Vigorous	Very strong	Medium
F ₁ Hybrid KIRARI	Dark	Upright	Vigorous	Strong	Medium
F ₁ Hybrid NONATSU	Dark	Upright	Vigorous	Strong	Medium

Carrot ~ *Daucus carota* ~



F₁ Hybrid

BENIHIKARI

Early maturity dark orange Kuroda type carrot.

- Early maturing and late bolting F₁ hybrid.
- Suitable for spring and summer sowing, Roots are 16-18cm length and 190-210g weight.
- Cylindrical shaped with deep lustrous orange skin and red core.



OP

NEW KURODA

Attractive shape, outstanding uniformity.

- Suitable for summer sowing and winter harvest. Weights between 180-200g, 18-20cm long.
- Deep orange skin and red core.
- Can be harvested 100days after sowing.

Variety	Maturity	Root Length(cm)	Root Weight(g)	Root Color	Core Color	Heat Tolerance	Cold Tolerance
F ₁ Hybrid BENIHIKARI	Early	20~22	250	Deep Red	Red	Strong	Strong
OP NEW KURODA	Early	18~20	250	Deep Bright Red	Red	Strong	Strong

Bunching Onion ~ *Allium fistulosum* ~



F₁ Hybrid

SOUTEN

Tolerant to both of heat and cold conditions.

- Wide adaptability, easy to cultivate.
- High yeilding, thick stem.
- Strong for leaf snapping by short leaves.



F₁ Hybrid

SHOGUN

Heat & cold tolerance with wide range of sowing windows.

- Plant is upright, firm neck.
- Good uniformity.
- Leaf is dark green, less leaf snapping.



F₁ Hybrid

HANABI

Fast growing, good uniformity.

- Excellent heat tolerance, upright plant and vigorous, high yield.
- Leaves are dark green with a thick leaf sheath.
- Easy to harvest.

F₁ Hybrid

TENKO IPPON

Award winning F₁ hybrid.

- Excellent tolerance against heat and cold temperatures.
- Superb uniform shape and easy to grow. Strong against rust, Downy mildew and Alternaria leaf spot.
- Dark green leaves, upright plant.





F₁ Hybrid

YAMATO

Hard firmed neck, long field holding ability.

- Upright plant with mid-vigorous.
- Dark green leaf, strong for cracking. Wide sowing windows.
- Good heat tolerance, mid-late bolting.



F₁ Hybrid

SEIHA

Fast growing, heat tolerance variety.

- Has excellent heat tolerance and plants are remain healthy under high temperature.
- Plant is upright with dark green leaf.
- Good shape and firm neck, early maturity.



F₁ Hybrid

HIDEO

Late bolting variety suitable for winter-spring cultivation.

- Excellent cold tolerance , wide adaptability.
- The leaves are dark green and not easy to break and the neck is uniform and firm.
- Good eating quality.

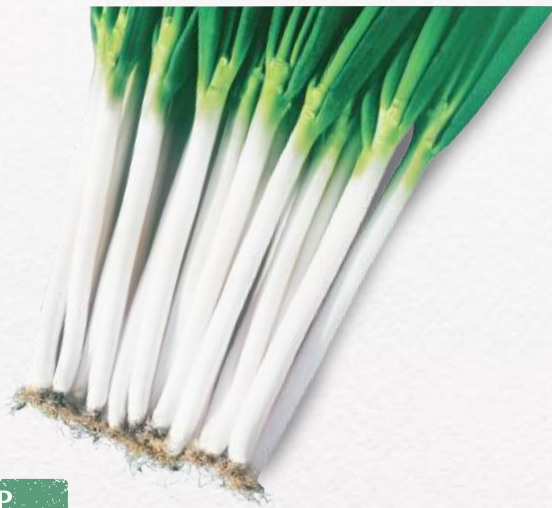


OP

YOSHIKURA

Single stem heat tolerant for summer-autumn harvesting.

- Neck is firm and uniform, easy to grow.
- Superior heat and disease tolerance.
- Eye catching white stem is shiny, tasty.



OP

MOTOKURA

Typical variety of autumn and winter harvesting type resistant to cold.

- Leaves are upright and dark green.
- Hard firm neck makes plant shape beautiful upright.
- Strong and upright plant vigor makes it possible to plant in high density.



OP

YOSHI

Tillering bunching onion with high yield.

- Late bolting.
- Easy planting variety.
- Good uniformity for seedling with less missing plants.



OP

ISAO

Late-bolting, good cold tolerance.

- Upright standing and medium tall plant habit.
- Numerous vigorous growing leaves.
- Wide adaptability.



OP

HARUO

Late-bolting, tillering type bunching onion.

- Easy to grow and strong to diseases.
- Short leaf with long white stem.
- Highly marketable after harvest.

Variety	Tiller	Plant Shape	Heat Tolerance	Cold Tolerance	Bolting
F ₁ Hybrid SOUTEN	None	Upright	Strong	Medium Strong	Medium
F ₁ Hybrid SHOGUN	None	Upright	Strong	Strong	Medium
F ₁ Hybrid HANABI	None	Upright	Strong	Strong	Medium
F ₁ Hybrid TENKO IPPON	None	Upright	Strong	Strong	Medium
F ₁ Hybrid YAMATO	None	Upright	Strong	Very Strong	Late
F ₁ Hybrid SEIHA	None	Upright	Very Strong	Strong	Medium
F ₁ Hybrid HIDEO	None	Upright	Medium	Strong	Late
OP YOSHIKURA	Very Few	Upright	Strong	Medium	Medium
OP MOTOKURA	Very Few	Upright	Medium	Strong	Medium
OP YOSHIO	Medium	Upright	Medium Strong	Strong	Very Late
OP ISAO	Very Few	Upright	Medium	Strong	Very Late
OP HARUO	Medium	Upright	Medium Strong	Strong	Very Late

Bunching Onion ~ *Allium fistulosum* ~



F₁ Hybrid

SATSUKI

Vigorous and cold tolerance.

- Very dark green color.
- Strong against tip burn.
- High yielding, thick stem.
- Strong upright plant.



F₁ Hybrid

WAKABA NEO

Extremely upright plant with very dark green color leaf.

- Amazingly useful variety, which has cold & heat tolerance it makes cultivate in all season possible.
- Leaf color is very dark green and few leaf top damage.
- Wide range of planting windows from early spring to late autumn.



F₁ Hybrid

SAYURI

Year round adaptable variety with dark green leaves, easy to harvest.

- Excellent in leaf color, shape and quality.
- Leaf sheath and blade are dark green and glossy.
- The variety is extremely popular in the market with very few leaf damage, tip burn.



OP

WAKABA

Easy to cultivate year-round with very good tolerance against heat and cold temperatures.

- Grows dark green leaves that are upright and straight.
- Leaves are thick, heavy, easy to harvest and high yielding.
- Easy planting variety.

Variety	Leaf Color	Yield	Bloom	Plant Shape	Cold Tolerance	Heat Tolerance
F ₁ Hybrid SATSUKI	Very Dark Green	Very Good	Medium	Upright	Very Strong	Strong
F ₁ Hybrid WAKABA NEO	Very Dark Green	Very Good	Medium	Upright	Strong	Strong
F ₁ Hybrid SAYURI	Dark Green	Very Good	Medium	Upright	Strong	Medium
OP WAKABA	Dark Green	Good	Medium	Upright	Medium	Strong

Chinese Leek ~ *Allium tuberosum* ~



OP

MIRACLE GREEN BELT

Deep green with wide leaf.

- Short dormancy suitable for year round production.
- Vigorous growth even at low temperatures.
- Wide and thick leaves maintain long shelf life.
- Plant is vigorous and upright, long leaf sheath makes preparation easier after harvest.



OP

GREEN BELT

Popular variety suitable for year round.

- Produces a heavy consistent yield every time.
- Vigorous growth and high yield type, easy for cultivation.



OP

SUPER GREEN BELT

Tasty flavor! Suitable for year round.

- Excellent uniformity and consistent yield every harvest.
- Short dormancy characteristic suitable for year round cultivation.



OP

WONDER GREEN BELT

Vigorous growth even in low temperature regions.

- Medium green leaves have good width between 1.3-1.5 cm wide for first harvest.
- Recommend for green house planting in winter periods.

Variety	Leaf Width	Leaf Sheath Length	Leaf Color	Plant Shape	Tiller	Dormancy
OP MIRACLE GREEN BELT	Wide	Rather Long	Dark Green	Upright	Few	Almost None
OP GREEN BELT	Medium	Short	Medium Dark	Semi-Upright	Many	None
OP SUPER GREEN BELT	Rather Wide	Short	Dark Green	Semi-Upright	Many	Almost None
OP WONDER GREEN BELT	Very Wide	Long	Medium Dark	Upright	Few	Almost None

Tomato ~ *Lycopersicon esculentum* ~

F₁ Hybrid

AIKA

Superb healthy pink tomato.

- Hyper strong against fruit and stem cracking, gives high yield rate.
- To keep vigorous plants and bigger fruits, high rate of irrigation and fertilizer are required.
- Remain hard fruits till fully matured.



F₁ Hybrid

SPINEL

Delicious taste with multi-disease resistances.

- Beautiful cluster fruit setting.
(Recommend pick excessive flowers in case of stress by high temperature.)
- Less abnormal fruits cracking and stem.
- Mid-strong plant vigor.



F₁ Hybrid

MS-1393

Completely green tomato.

- Remain green color after fully matured.
- You can harvest when the scars are slightly colored.
- 200gr fruits.



F₁ Hybrid

MS-1369

Vivid yellow tomato.

- Bright yellow skin.
- 210gr around.
- Short internode.
- Early maturity.

Type	Variety	Plant Vigor			Plant Maturity	Fruit			Brix(%) Av.	Disease Resistance							
		Beginning	Late	Internode		Shape	Weight(g)	Color		TSWV	ToMV	TYLCV	Ff	Fol	Sl	Vd/Va	Mi
Interminate	F ₁ Hybrid AIKA	Strong	Strong	Medium	Medium	High-round	200	Pink	6.0	<input type="radio"/> Tm-2a	<input type="radio"/>	<input type="radio"/> Cf9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cherry	F ₁ Hybrid SPINEL	Medium	Medium	Medium	Early	Round	16-18	Red	8.7	<input type="radio"/>	<input type="radio"/> Tm-2a	<input type="radio"/> Ty-3a	<input type="radio"/> Cf9	<input type="radio"/> I-2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interminate	F ₁ Hybrid MS-1393	Strong	Strong	Medium	Mid-Early	High-round	200	Green	6.0	<input type="radio"/> Tm-2a	<input type="radio"/>	<input type="radio"/> Cf9	<input type="radio"/>	TBC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interminate	F ₁ Hybrid MS-1369	Medium	Medium	Medium	Medium	High-round	210	Yellow	6.0	<input type="radio"/> Tm-2a	<input type="radio"/>	<input type="radio"/> Cf9	<input type="radio"/>	TBC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Melon ~ *Cucumis melo* ~

F₁ Hybrid

MS-1413

High brix variety suitable for open field.

- Wide adaptability.
- Harvesing 60-65 days after flowering.
- Stable fruit setting at open field cultivation.
- Vigorous plants.
- 1.2-1.5kg fruits size.



Watermelonn ~ *Citrullus lanatus* ~

F₁ Hybrid

MS-1412

Early maturity variety with wide adaptability.

- Dark green skin with round oval shape.
- Strong against cracking, good transportation ability.
- More edible portion than ordinary variety.
- 2.5~3.5kg fruits size.



Cucumber ~ *Cucumis sativus* ~



F₁ Hybrid

MUTO-16

Beit Alpha 16cm type.

- Multi fruit seeting.
- Strong against Powdery mildew, Brown spot.
- All female, Parthenocarp.



F₁ Hybrid

MUTO-14

Beit Alpha 14cm type.

- Multi fruit seeting.
- Strong against Powdery mildew, Brown spot.
- All female, Parthenocarp.



F₁ Hybrid

MUTO-12

Mini-cucumber with healthy plants.

- Multi fruit setting.
- Strong against Powdery mildew, Brown spot.
- All female, Parthenocarpic.



F₁ Hybrid

MUTO-JP

High yield Japanese cucumber.

- About 21cm×4cm.
- Strong against Powdery mildew, Downy mildew, Brown spot.
- Fruit grows 80~99% in main veins. (Bees are required.)
- High heat tolerance.
- All female, Parthenocarpic.



F₁ Hybrid

MUTO-SLICER

US Slicer type cucumber.

- 24cm×6cm length.
- Strong against Powdery mildew, Downy mildew.
- Fruit grows 80~100% in main veins. (Bees are required.)
- High heat tolerance.
- Predominantly female type, For open field.

Squash ~ Cucurbita spp. ~

F₁ Hybrid

ANGIE



Powdery flesh and good taste with high yield.

- Strong vigorous with early maturity.
- Flesh color is deep and wide edible part, high brix.
- Stable fruit setting brings higher yield.

F₁ Hybrid

ROGIE



Amazing storability, stable fruit setting.

- Black green color fruit skin and sticky fresh.
- High yield and stable fruit setting.
- Maturing about 50 days after flowering.

Variety	Maturity(Days after planting)	Plant Growth	Fruit Shape	Skin Color	Weight(kg)
F ₁ Hybrid ANGIE	45-50	Rather-Strong	Semi-Flat	Dark Green	2.5
F ₁ Hybrid ROGIE	50	Rather-Strong	Semi-Globe	Very Dark Green	2.3

Okra ~ Hibiscus esculentus ~

OP

TOKYO GOKAKU

Dark green pods.

- Medium dwarf plant that yields medium dark green and five ridged pods.
- The pods are smooth, straight and Anthocyan resistant.
- Superb quality pods have good eating quality.



Pepper ~ Capsicum annum ~

OP

SHISHITO

Outstanding uniformity, high yield.

- Vigorous, strong roots and branches, intended for long term cultivation.
- Even in heat of the summer season, the percentage of producing is high.
- Has excellent low temperature growth and fruit settings.



Iceplant ~ *Mesembryanthemum crystallinum* ~

OP

PUCHISARA

New vegetable with pop texture.

- Functional vegetables which contains mineral and many nutrition, it controls neutral fat and hyperglycemia.
- Contains minerals with characteristic taste.
- Good appearance like splashed precious stones.



Chrysanthemum ~ *Chrysanthemum coronarium* ~

OP

OEDO



High yield, excellent flavor and popular choice.

- Fine leaf type suitable for open-field planting.
- Nodes are short and with many side shoots.
- Large consistent yield every harvest.

OP

KOMI



Long stem, fast growing and easy to cultivate.

- Leaves are small with fine notches.
- Stem grows straightly with bright green leaves in the top like palm tree.
- Can be harvested in 30-50 days after sowing.
- Suitable for salad with excellent touch and taste.

Edamame Soybean ~ *Glycine max* ~

OP

NISHIKI

High quality, medium late maturity.

- Ripens in 100-110 days the beautiful pods are in bright green color.
- The plant is 65-70cm tall, and it is a high yielding variety putting out 5-6 side shoots with very large pods.
- Excellent bean flavor.



OP

CHABAN

Great flavor, early maturity.

- Stable performance, easier cultivation.
- Mid size pod, deep green color.
- Superb eating quality.



General terms and conditions for seeds sale

Article 1-Use

- 1.1 The Seller sells seeds to the Buyer for horticulture or production of crop use only.
- 1.2 The Buyer or Grower may not use the seeds for multiplication or reproduction.
- 1.3 The Seller does not give any warranty and does not assume any responsibility for the multiplication of seeds by the Buyer or Grower.

Article 2-Responsibility for Delivery

- 2.1 All deliveries are subject to usual crop and processing results. In the event that the Seller makes a justified appeal to this reservation, the Seller is not obliged to deliver but will endeavor to deliver the reserved quantities or comparable alternative(s). In such case, the Buyer is not entitled to any compensation whatever.

Article 3-Delivery

- 3.1 Without advance notice, the Seller will ship products to the Buyer in a manner that the Seller considers most appropriate. After shipment from the Seller's warehouse, the Seller cannot be liable for any delay, damage, shortage or loss in transit.

Article 4-Time of Delivery

- 4.1 Since delivery of ordered seeds to the Buyer is dependent upon prior safe and timely delivery of crop produce to the Seller, the Seller cannot provide any warranty to exact delivery date.
- 4.2 Even when delivery date(s) have been expressly agreed in writing between the parties, the Seller reserves the right to cancel any order or to postpone delivery.

Article 5-Payment

- 5.1 Ownership of all products remains with the Seller until full payment is received and cleared through the Seller's bank.
- 5.2 When payment is not made within the agreed time, the Seller is entitled to compound interest on the outstanding amount at the rate of 1.5% per month.

Article 6-Payment Ability

- 6.1 It is a precondition of shipment that the Buyer has the ability to pay for the shipped products. If the Seller is informed that the Buyer has difficulty in making such payment through a bank, trust company or any other source then the Seller may demand to keep any deposit/security and/or may cancel the shipment partially or completely.

Article 7-Complaint Terms

- 7.1 The Buyer shall be deemed to have examined the products upon delivery or within a short time thereafter to determine completeness of quantity and quality. It is a condition of sale that complaints are made in writing and as soon as possible after receipt.

- 7.2 The Buyer is obliged to report any obvious defect or damage of seeds quality in writing to the Seller within five calendar days of receipt.
- 7.3 In case of complaint about seeds germination or purity, the Buyer shall make any such complaint in writing to the Seller with thirty calendar days of receipt.
- 7.4 The Seller will only accept a complaint if it can be proved that the problem is the result of seeds supplied by the Seller and that the seeds were planted in appropriate soil and in suitable growing conditions.

Article 8-Description of Goods

- 8.1 Descriptions, pictures and all information about all varieties are based on those seeds being planted and grown in suitable growing conditions. The Seller does not guarantee that such seeds will grow exactly as described or that the same results will be achieved under different growing conditions. Different geographic and weather environments will affect growing times.
- 8.2 Sowing and harvest times are indicated according to Japanese standards. These times will vary according to different climate and/or growing conditions .

Article 9-Resistance to Disease

- 9.1 Different varieties of seeds have different resistance to disease. Our descriptions are based on Japanese growing conditions and types of germ common to Japan.
- 9.2 The Seller cannot guarantee that our varieties will have the same resistance to disease in different growing conditions. Such disease can be transmitted by wind, insect, animal and/or human means. Occasionally, the soil itself may contain disease. All varieties have the potential to contract disease and the Seller takes no responsibility for the direct or indirect result of such disease.

Article 10-Limitation of Liability

- 10.1 All seeds sold by the Seller have been carefully selected, dried and sized according to ISF international standards.
- 10.2 Germination and purity have been tested in the Sellers laboratories before shipment but the Seller cannot guarantee seeds adaptability in Buyer's conditions.
- 10.3 No consideration will be given to complaints that are not made within the guidelines described in above Article 7-Complaint Terms.
- 10.4 Regardless of direct or indirect fault, the Seller's liability will not exceed the purchase price of the seeds.

The Musashino Seed Co., Ltd.
Tokyo, JAPAN

From Ikebukuro in Tokyo to the World.

Musashino Seed Headquarters

Ikebukuro
Station





THE MUSASHINO SEED CO.,LTD.

Address	26-10, Minami Ikebukuro 1-chome,Toshima-ku, Tokyo, 171-0022 JAPAN
Phone	+81-3-3986-0715 +81-3-3986-0729(Int'l)
Fax	+81-3-3986-0716
E-mail	houkan1931@musaseed.co.jp
URL	http://www.musaseed.co.jp/english/