

# Tomato 2010

Harvest our experience



syngenta®

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## Breeding

The fact that every link in the chain has its own specific wishes and requirements makes breeding a very complex selection process. Numerous aspects are considered, with both horticulturists and the sector in general closely examining all possible cultivation and climatological conditions. They examine production potential, labour/energy efficiency, shelf life, resistance to diseases, reduction of crop protection products etc.

## Consumer innovations

At the same time, a great deal of attention is paid to breeding extremely distinctive varieties for the consumer by means of combining different flavours, shapes, colours or specific constituent substances. For these purposes, we combine traditional market research with our unique focus groups in Italy, Germany and the UK in order to better understand what our consumers want.

This results in consumer-oriented innovations such as:

- Extremely delicious snack tomatoes (Angelle, Dimple and Sweetelle)
- Orange sweet tomatoes
- Kumato®: a highly recognisable round tomato with an exquisite flavor
- Various varieties of Coeur de Boeuf tomatoes for use in Mediterranean cuisine.

## A different rootstock for all?

In addition to varieties, the breeding process is also increasingly focusing on rootstocks. In the past year, Syngenta has successfully introduced the rootstock Arnold. Various types of tomatoes, from beef to sweet, as well as many different varieties and various cultivation methods ensure a wide range of demands are placed on rootstocks. Arnold has proved to be a highly suitable rootstock for many vegetative varieties and multiple vegetative cultivation conditions.

## Integrated Crop Management Solutions

Demands from within the chain are becoming more and more specific. Maximum residue demands are getting lower and lower. Syngenta addresses this issue by means of resistance, but also goes even further than that. In addition to genetic resistances, Syngenta also offers a total solution to reduce residues by combining Bioline biological crop protection agents with chemical crop protection agents of the Syngenta Crop Protection brand.

## Quality comes first

For all products supplied by Syngenta, from rootstocks to varieties, quality is paramount. Our production techniques and quality requirements are amongst the strictest and most far-reaching in the entire industry. All stages of the production process are meticulously monitored and registered. We carefully observe the cultivation, harvest, flavour and packaging processes of our crops. The tomato seeds that you purchase from us have all been tested in accordance with the very latest ISHI 3 protocols.

If you have any questions regarding the information in this brochure or if you wish to visit our demo greenhouses in Berkel and Rodenrijs, then feel free to contact one of our representatives.

We wish you a successful harvest this season!



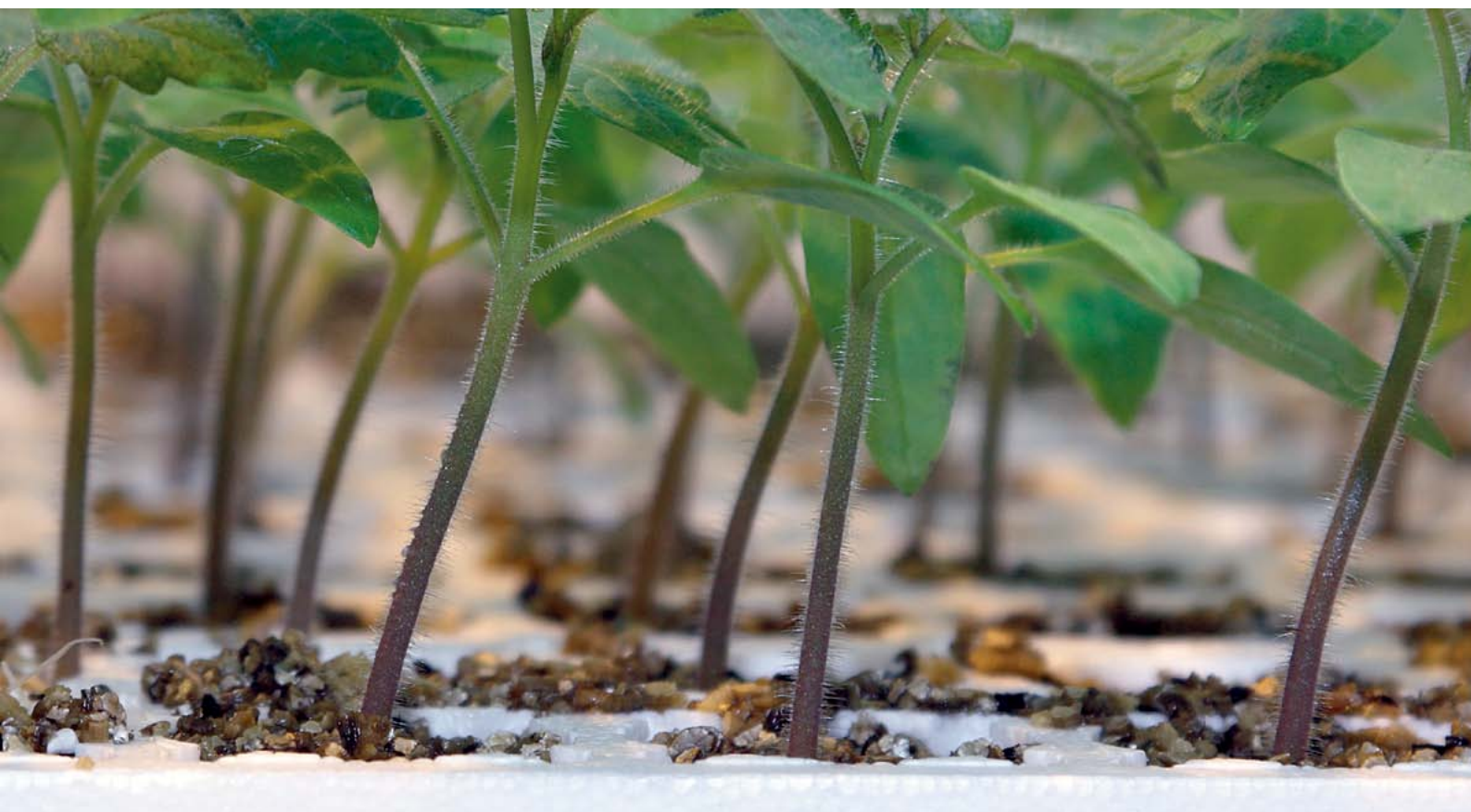
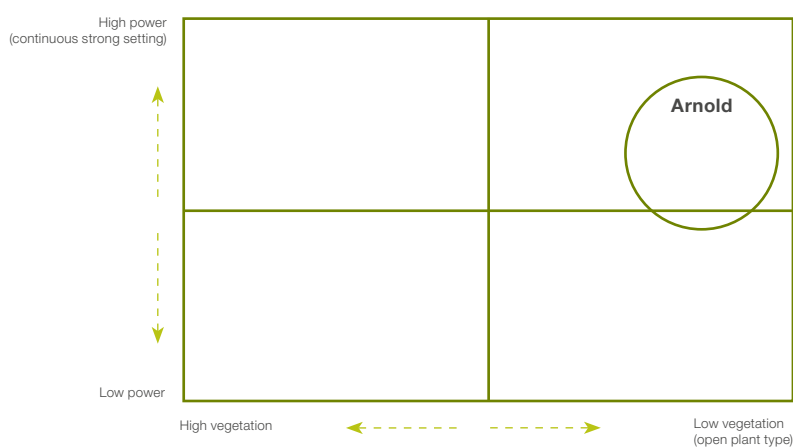
## Product information table

| Segment                        | Variety name       | AFW (grams) | Resistances (HR)                                   | Resistances (IR) | Size (mm) / type |
|--------------------------------|--------------------|-------------|--|------------------|------------------|
| Rootstock                      | Arnold             | N/A         | Ff: 1-5 / Fol: 1, 2 / For / V / ToMV: 0-2          | PI / M           | N/A              |
| <b>Beef tomatoes</b>           | Growdena           | 220-240     | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / TMV: 0 / V |                  | 82-102           |
|                                | Macarena           | 220-240     | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V          |                  | 82-102           |
|                                | Bigdena            | 220-240     | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V / TMV: 0 |                  | 87-102           |
| <b>Standard tomatoes</b>       | Zouk               | 170- 180    | Ff: 2, 4 / Fol: 1, 2 / For / TMV: 0 / ToMV: 0-2    |                  | 67-82            |
|                                | Euforia            | 150- 160    | Ff: 1-5 / Fol: 1, 2 / For, V / ToMV: 0-2           |                  | 67-77            |
|                                | Evolution          | 160- 170    | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V / TMV 0  |                  | 67-77            |
| <b>Cluster tomatoes</b>        | Climberley         | 140         | Ff: 1-5 / Fol: 1, 2 / For / V / ToMV: 0-2          |                  | 57-67            |
|                                | Clinchy            | 130- 140    | Ff: 1-5 / Fol: 1, 2 / For / TMV: 0 / ToMV: 0-2 / V |                  | 57-67            |
|                                | Classy             | 100         | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V          |                  | 47-57            |
|                                | T47110             | 140-150     | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V          |                  | 57-77            |
| <b>Plum tomatoes</b>           | Celine             | 90-100      | Ff: 1-5 / Fol: 1, 2 / For / ToMV: 0-2 / V          | M                | Plum             |
|                                | T35206             | 90-100      | Ff: 1-5 / Fol: 1, 2 / For / V / ToMV: 0-2          | M                | San Marzano      |
| <b>Mini-cluster tomatoes</b>   | Idoia              | 35-40       | Ff: 1-5/ Fol: 1, 2 / For / ToMV: 0-2 / V           | M                | Cocktail         |
|                                | Mona Lisa          | 35-40       | Ff: 1-5 / Fol: 1 / For / S / Ss / ToMV: 0-2 / V    | M                | Plum cocktail    |
|                                | Dunne              | 20-30       | Fol: 1, 2 / ToMV: 0-2                              | M                | Mini San Marzano |
| <b>Baby plum tomatoes</b>      | Angelle            | 10-12       | ToMV: 0-2  | M                | Snack tomato     |
|                                | Dimple             | 10-12       | Ff: 1-5 / Fol: 1 / ToMV: 0-2                       | M                | Snack tomato     |
|                                | Sweetelle (T36995) | 10-12       | Ff: 1-5 / Fol: 1 / ToMV: 0-2                       | M                | Snack tomato     |
| <b>Coeur de Boeuf tomatoes</b> | Arawak             | 200-240     | ToMV: 0-2 / V                                      |                  | Coeur de Boeuf   |
|                                | Tomawak            | 180 - 220   | Fol: 1, 2 / For / S / Ss / ToMV: 0-2 / V           | M                | Coeur de Boeuf   |

## Rootstock

The objective of rootstock is to create a perfect balance between sufficient vigour (amount of vegetation) and sufficient fruit production capacity (generative parts) to ensure an optimal annual yield. However, every crop has to contend with specific circumstances or are cultivated for a specific purpose. Depending on the characteristics of the main varieties, the selected head density, the cultivation conditions such as type of greenhouse, availability of energy/CO<sub>2</sub> or the objective of the horticulturist, you can select a particular type of rootstock to ensure higher yields.

To indicate the characteristics of particular rootstocks, we have created a segmentation. For this purpose, we analysed the rootstock with regard to two variables: quality/vigour of the rootstock (high/low) and the amount of vegetation (high/low) of the plant. Based on these qualities, we can choose the most suitable rootstock in accordance with the individual cultivation conditions.



# Beef tomatoes

## Growdena



### Advantages

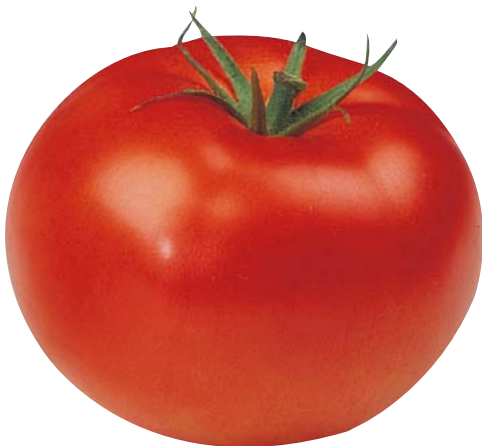
#### For the grower

- Uniform fruit growth of 220-240g, extremely consistent throughout the season.
- Offers high yields in active greenhouse.
- Produces large fruits for harvest from the spring onwards, to satisfy tomato connoisseurs throughout the entire season.
- Very vigorous plant variety with significant leaf length during the summer.
- Crop is less labour-intensive as a result of relatively low formation of unwanted shoots.
- Easy-to-process crop that is quickly harvestable.

#### For businesses and consumers

- Attractive, shiny, lightly mottled appearance.
- Very good shelf life and very easy to sort due to firm flesh.
- Easy to cut, with a good flesh structure.

## Macarena



### Advantages

#### For the grower

- Very vigorous crop with an early production.
- Plant has a compact structure with a large leaf length.
- Can be harvested when red.
- Easy leaf-cutting and harvesting.
- Extremely suited to grafted crops, replanted/intermediate crops and ground crops.
- Uniform fruit shape.
- Remains dense throughout the season.

#### For businesses and consumers

- Attractive, lightly mottled fruit.
- Good flavour and high resistance against mealiness.
- Very firm fruit flesh and a long shelf life.

## Bigdena



### Advantages

#### For the grower

- Plant with good early production and regular settlement.
- Medium-sized plant, retains good leaf length during the summer.
- Requires generative management in the spring.
- Good combination with grafting.
- Uniform quality and shape.
- Retains its size and shape.

#### For businesses and consumers

- Consistently round fruits.
- Good flavour, attractive shape.
- Very firm fruit flesh and a long shelf life.

# Standard tomatoes

## Zouk



### Advantages

#### For the grower

- Very early production combined with a high total yield.
- Fruit weight of between 170-180g.
- Flat, round fruit with a deep red colour and a short calyx.
- Highly resistant to cracking.
- Vigorous plant with sufficient reserves for the summer.
- Grafting is recommended to ensure an optimal crop.

#### For businesses and consumers

- Attractive deep red colour with good uniformity.
- Good degree of firmness ensures excellent shelf life.
- Available regularly throughout the season to meet consumer expectations.

## Euforia



### Advantages

#### For the grower

- Fruit weight of between 150-160g.
- Strong, vigorous plant type.
- Early variety with a high total yield.

#### For businesses and consumers

- Perfect quality: fruit has an attractive round shape and a good shine.
- Very uniform, ensuring good presentation.
- Consistent quality and shelf life.

## Evolution



### Advantages

#### For the grower

- Fruit weight of between 160-170g.
- Very balanced plant, easy to cultivate.
- Flower development and settlement remain strong throughout the year.

#### For businesses and consumers

- Very round, uniform shape.
- Attractive and firm fruits of very reliable quality throughout the year.
- Highly resistant to cracks and microcracks during the summer.



# Cluster tomatoes

## Climberley



### Advantages

#### For the grower

- Tomato clusters with five fruits, each with an average weight of 140g.
- Very easy plant type, easily manageable.
- Labour and energy-efficient plant.
- Very suitable for winter and spring crops.

#### For businesses and consumers

- Uniform fruits present an attractive cluster for the consumer.

## Clinchy



### Advantages

#### For the grower

- Five-fruit clusters, each with an average weight of 130-140g.
- Can withstand high levels of radiation.
- Medium-sized plant with flat leaves.
- Strong, vigorous plant that recovers quickly.

#### For businesses and consumers

- Consistent quality throughout the entire season.
- Rough dark green stems, attractive red fruits and uniform clusters ensure excellent presentation.
- Uniform fruits with an excellent flavour.

## Classy



### Advantages

#### For the grower

- Medium-sized clusters of six fruits.
- Quite vigorous, ensuring good production potential.
- Higher level of cluster production.
- Less vulnerable to Botrytis.

#### For businesses and consumers

- Very attractive deep red colour.
- Good shelf life and attractive green stems.
- Excellent flavour for cluster tomatoes.

## T47110



### Advantages

#### For the grower

- High total production.
- Darker crop variety with shorter and quite rigid yet densely filled leaves, resulting in quick twisting of the plant around the wire and increased resistance to Botrytis.

#### For businesses and consumers

- Attractive dark red fruits with an excellent stem shelf life.
- Excellent presentation, even after ten days.

# Plum tomatoes

## Celine



### Advantages

#### For the grower

- Plum-shaped fruit, weight of 90-100g.
- Regular fruit capacity of 6-7 fruits per cluster.
- Vigorous plant, ensuring a high total yield.
- Open and regular plant variety.

#### For businesses and consumer

- Extremely consistent plum shape throughout the whole season.
- Excellent shelf life.
- A flavoursome plum tomato with countless potential uses in both hot and cold meals.

## T35206\*



### Advantages

#### For the grower

- A San-Marzano variety with resistance against Ff5 and very strong resistance to tip rot.
- A crop with a very strong settlement and sufficient leaf volume to survive the summer.
- Crop quality remains high in the summer.

#### For businesses and consumers

- Uniform, distinctive, cylindrical fruits throughout the whole season.
- Attractive red fruits with an excellent shelf life.

\* Trial variety

# Coeur de Boeuf tomatoes

## Arawak



### Advantages

#### For the grower

- 200-240g in weight.
- Consistently shaped fruits throughout the season.
- Ripens from the inside out.
- Medium-sized plant variety with good flower and fruit production.
- Retains a good leaf length in the summer.

#### For businesses and consumers

- The shape is reminiscent of traditional tomato varieties.
- Optimal flavour when combined with soft cheeses.
- Good shelf life.

## Tomawak



### Advantages

#### For the grower

- Individual fruit weights of 180-220g, pruned to four fruits per cluster.
- Clearly recognisable Coeur de Boeuf shape, although a little less pear shaped.
- More vegetative plant variety.

#### For businesses and consumers

- Very attractive and consistent fruits.

# Mini-cluster tomatoes

## Idoia



### Advantages

#### For the grower

- Outstanding flower production and settlement.
- High total production.
- Quick cluster development with average fruit weights of 35-40g.
- Very vigorous plant variety.
- Highly resistant to cracking.

#### For businesses and consumers

- The flat cluster shape and uniform fruit weight ensures good presentation.
- Excellent flavour (based on PPL flavour model).

## Mona Lisa



### Advantages

#### For the grower

- A vigorous cocktail plum tomato.
- Very suitable for harvesting by the cluster.

#### For businesses and consumers

- Very attractive presentation due to the deep red, shiny fruits and the strong stems.
- A simply delicious flavour.
- Weight of around 35g per fruit.

## Dunne



### Advantages

#### For the grower

- Fast growing and vigorous plant with good flower production.
- Rapid cluster development and a uniform fruit shape.
- Easy crop – quite open with hanging-down leaves.
- Vigorous plant with reduced vulnerability to Botrytis.

#### For businesses and consumers

- The very best flavour: very balanced, aromatic and with a very high sugar content.
- Ideal product for a broad range of uses.
- Typical distinctive shape.

# Baby plum tomatoes

## Angelle



### Advantages

#### For the grower

- Plant with sufficient strength to grow rapidly under generative conditions.
- Crop quality remains high in the summer.
- Very easily harvestable fruits with an average weight of 10-12g.
- Strong stem attachments and less prone to cracks.
- Good production potential.

#### For businesses and consumers

- Very sweet flavour (high Brix value) and a very high consumer appreciation rating.
- Attractive shine and deep red colour.

## Dimple



### Advantages

#### For the grower

- A more open, generative plant variety with very high and early production.
- High total production.
- Very easily harvestable fruits with an average weight of 10-12g.

#### For businesses and consumers

- Very sweet flavour (high Brix value).
- Distinctive elongated shape.

## Sweetelle (T36995)



### Advantages

#### For the grower

- Generative variety with a good balance between vigour and vegetation.
- High production potential due to high production speed.
- Good fruit attachment prevents fruits from falling off.
- Produces long, simple clusters with very uniform fruits.

#### For businesses and consumers

- Snack tomato with a very high Brix value and the highest sweetness rating in the consumer studies.
- Uniform fruits and excellent shelf life.

## Contact information

### Sales representative Syngenta Vegetables Seeds

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#### Used short references High Resistances (HR)

|          |   |
|----------|---|
| ToMV 1-2 | Tomato Mosaic Virus strain 1-2                |
| V        | Verticillium dahliae, V.albo-atrum, race 1    |
| Fol 1, 2 | Fusarium oxysporum f.sp. lycopersici race 1,2 |
| For      | Fusarium oxysporum f.sp. radicis-lycopersici  |
| Ff 1-5   | Fulvia fulva race 1-5                         |
| Ss       | Stemphylium spp.                              |
| Ss       | Stemphylium solani                            |

#### Used short references Intermediary Resistances (IR)

|    |  |
|----|--|
| On | Oidium neolycopersici  |
| M  | Meloidogyne arenaria, M. incognita, M. javanica nematodes<br>Oidium neolycopersici |
| PI | Pyrenochaeta lycopersici   |



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Syngenta Seeds Vegetables has exercised reasonable care and skill in compiling this brochure. All resistances quoted refer only to races or pathotypes indicated at the varieties. Other pathogen races or pest biotypes capable of overcoming the resistance may exist or emerge.

Syngenta Seeds Vegetables use highly elaborate analytical methods to verify specific variety resistances. Specificity of pests or pathogens may vary over time and space and depends on environmental factors. In order to maximize the efficiency of a resistance, it is highly recommended to mix different ways of control such as growing conditions, plant protection products and genetic resistance as part of an integrated Crop management.

All data in this brochure is intended for general guidance only and the user should apply it in accordance with their own knowledge and experience of local conditions. In case of doubt we recommend that a small scale trial production be carried out to determine how local conditions may affect the variety. Syngenta Seeds cannot accept any liability in connection with this production.