

Garlic Planter



**Innovative way
of Garlic Planting
for Speed & Yield**



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Garlic Planting System

Garlic Preparing Machine



Garlic Planter



Characteristics

- **Garlic Planting System** consist of **Preparing machine and Planter**
- **Preparing machine** produces a string of garlic seeds
- **Planter** buries the string of garlic seeds under the ground
- **Fast planting & No miss rate** with string of garlic seeds

String of garlic seeds



Characteristics

- **Garlic seeds** are wrapped by **paper**, twisted by **thread** and turned into a **string**
- **Seeds are planted as a string**
- Paper and thread **decompose** over time

Reel of string



Characteristics

- String is rolled up on a reel
- Reels are stored and mounted on the garlic planter
- **Germicide and insecticide on the paper protect garlic seeds**

Produce string of garlic seeds



Characteristics

- **Garlic-Seed Preparing Machine**
 - produce regular length of string of garlic seeds
 - roll up the string on a reel
 - store reels on a pallet
- **Regular seed distance**
 - 10cm or 12 cm (Adjustable)

Store reels



Characteristics

- Reels of garlic seeds can be stored in warehouse
- Garlic seeds last until 30~45 days without sprouting
- To choose seeding time is possible

Move to Field



Characteristics

- Reels of garlic seeds are loaded on the pallet
- Reels are mounted on the garlic planter

Planting



Characteristics

- Number of Rows : 6~7 Rows
- Mounted on the tractor
(50~200 HP)
- Perform every step of planting
 1. Cultivating Soil
 2. Planting
 3. Covering
 4. Spraying
 5. Mulching

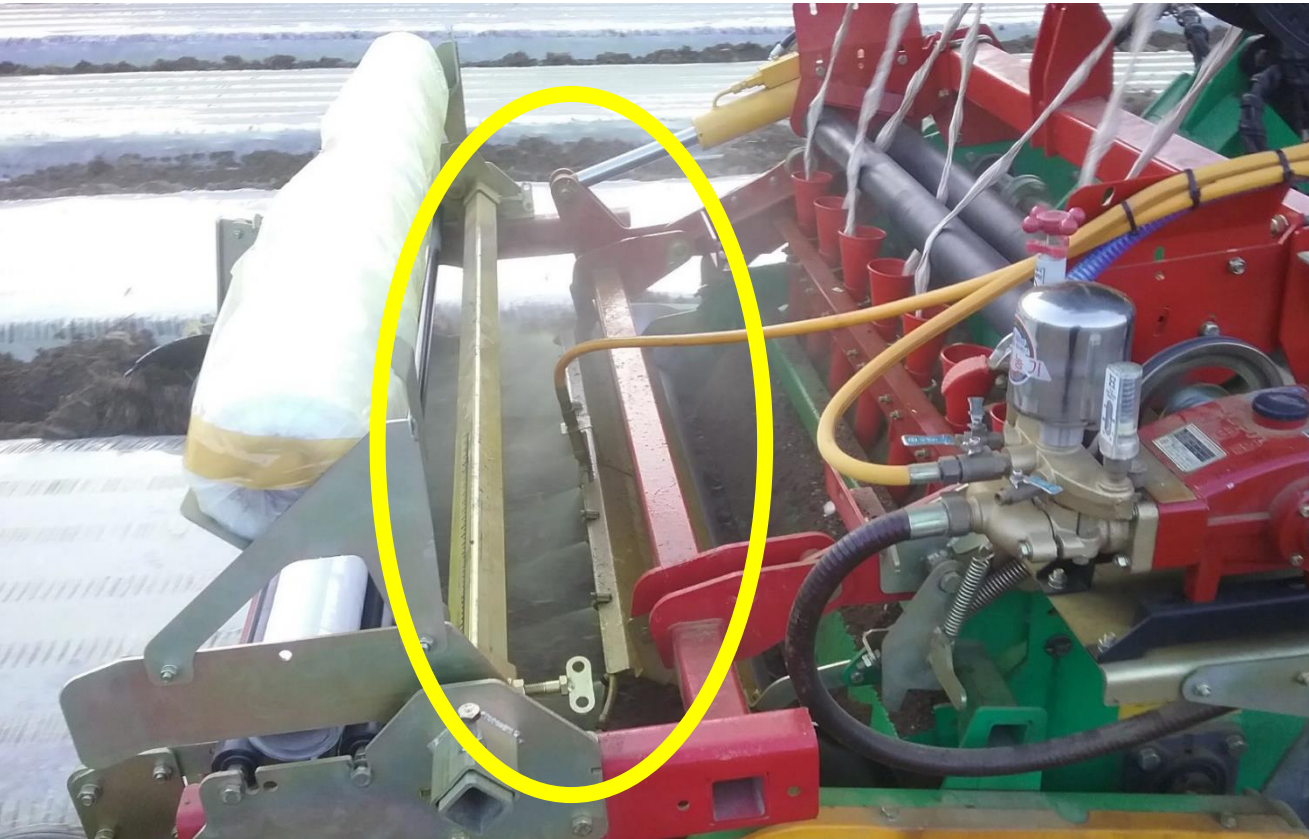
Sprouting



Characteristics

- Paper is torn by moisture and **seeds sprout normaly**
- **Sprout comes out of punched mulching film automatically (No more labor)**
- Holes are punched along the string of garlic seeds

Spraying



Characteristics

- **Distributor for liquid disinfestation** (Optional)
- spraying and planting at the same time

Mulching



Characteristics

- **Retain moisture & warm**
under the mulching plastic film
- **Reduce weeds**
- **Keep the light from reaching**
any potatoes that reach the soil
surface
- **Protecting potatoes from pests**
- **Mulching is used 99% in Korea**

Hydraulic Side-Shifting



Characteristics

- Side-Shifting by hydraulic power
- Shorten walkway for more planting bases
- Independent from tractor size
(mounted on 50~200 HP tractor)

Watering



Characteristics

Water Usage Savings

- String soaker hose along the rows
- Simple and Easy way for Watering
- **Water at** the center of rows, **right at** the plant's base.
- **Keeps water off** the walkways and large rows between plants.

Garlic Planting System



Characteristics

- **Fast planting & No miss rate with string of garlic seeds**
- **Do every field work at once**
- **Mulching for Higher yield**

Growth & Developmet

Planting
(2017.09.26)



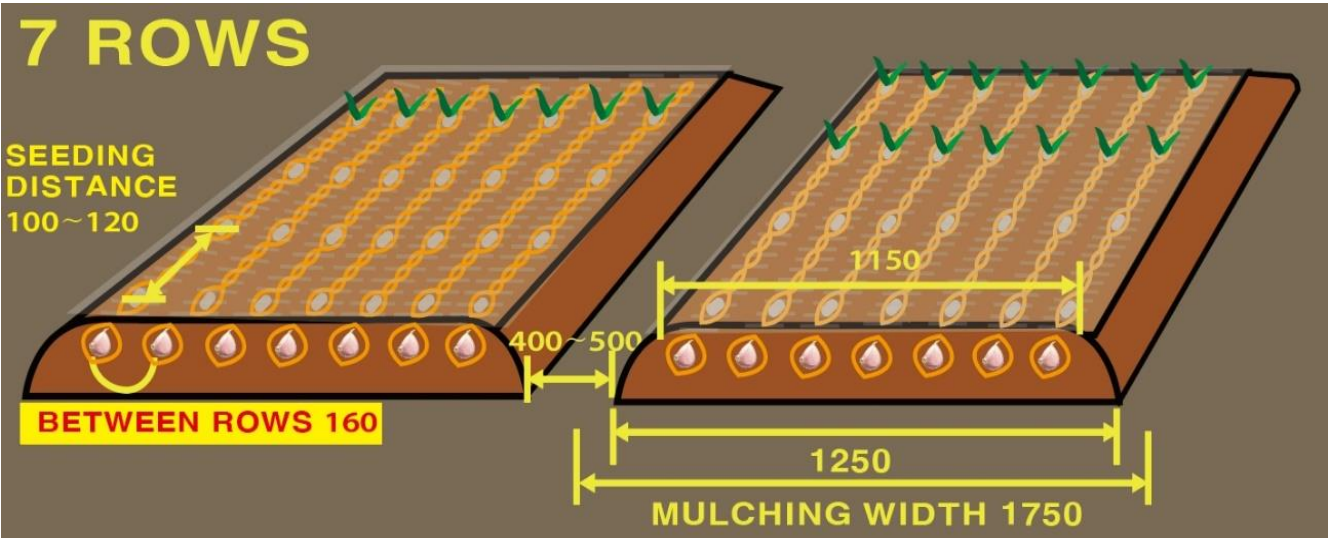
Growing
(2017.10.10)



Harvesting
(2018.05.28)



Garlic Planter



Technical Specification

Specification	
Planting Rows	7 Rows
Linkage Category	Tractor HP Required- 50 to 200 Tractor Hydraulic with Three Point Linkage (CAT I)
Seed Drum Capacity	14 Reels (120~200m per reel)
Seed Planting Distance (mm)	100~120
Distance between Rows (mm)	160 (Adjustable)
Planting Depth(mm)	30~100
Ridge Width(cm)	120(top)/140(bottom)
Planting Capacity	3km/hour (3ha/day)
Dimension	
Length	2190
Width	2030
Height	2020
Weight	750
Mulching	
Mulching Film	1800mm(W) * 500m(L) * 0.02mm(D) (Adjustable)
Punched on Mulching Film (mm)	50~80 (7 rows)

Garlic Preparing Machine



Technical Specification

Specification	
Production Line	2 Lines
Electricity	Voltage : (220,380)V Power : 0.75kW
Seed Varities	30-70 seed with any varieties
Seed Planting Distance (mm)	100~120
Preparing Capacity	(0.5ha~0.7ha/day)
Dimension	
Length	3605
Width	860
Height	1560
Weight	860
Subsidiary Material	
Paper Roll	1800m, 6kg (5a/Roll)
Thread Roll	4600m (5a/Roll)
Seed-String Reel	500ø (120~200m/Reel)

Paper Roll



Wrapping garlic seed
Capacity : 5a / Roll

Thread Roll



Twisting seed-string
Capacity : 5a / Roll

Seed-String Reel



Rolling up seed-string
Capacity : 120~200m / Reel

No.1 Garlic planter in Korea



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