Tarashkadeh Co.

Agricultural Machines Producer

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Tarashkadeh Company was established in 1983 as a private company. The managers of this company have gained valuable experience in designing, engineering and part manufacturing which are because of their efforts and continual presence in industries over many years.

For long years, several types of industrial machinery have been manufactured in this company such as tensile hydraulic presses and punches, firebrick presses, different types of conveyors in different capacities (roller, chain and belt conveyors), and etc. Tarashkadeh Company started to manufacture agricultural machines since 1996. The company performed all the stages such as designing and manufacturing of parts and machines assembling. Pneumatic Planter was the first agricultural machine that produced. The first sample got the approval of the agricultural machinery investigation center of Iran.

Planters manufactured by the company have been sent to the most provinces of the country especially organizations, sugar factories, cooperatives and the other organizations. This machine has planted different types of seeds. During the next years other agricultural machines were manufactured as below:

- ***Pneumatic planter with fertilizer distributor***
- ***Furrower with fertilizer distributor***
- ***Row-crop cultivator with fertilizer distributor***

Pneumatic planter with fertilizer distributor

Pneumatic planter

Furrower with fertilizer distributor

Row-crop cultivator with fertilizer distributor

In 2007 Tarashkadeh produced twin-row planter that plants two rows of seeds on one ridge in zigzag pattern.

twin-row planter with fertilizer distributor drip tape layer

In 2010 Tarashkadeh produced No-tillage planter that is cheaper and lighter than other no-tillage planters and works with 80 hp tractors.

No-tillage planter with fertilizer distributor

In 2019, Tarshkadeh produced a Raised bed seed drill for wheat cultivation. In this method, 4 seed planting lines with a distance of 14 cm are planted on wide ridges with a width of 53 cm and fertilization is done in two lines between the seed planting lines. The ridges are separated by creating furrows 22 cm wide and 15 cm deep. By using this seed drill, the fertilizer is placed at a lower depth than the seed and between the two seed planting lines, thus maintaining the proper distance to prevent seed damage.

Raised bed seed drill

All purchasers have expressed their satisfaction about the durability, precision planting, easy adjustments and safety of the machine.

Not only Iranian farmers but also the farmers of other countries have trusted Tarashkadeh products so we have good customers from other countries such as Venezuela, Uganda, Sudan, Tajikistan and Azerbaijan.

Products:

Pneumatic planter with fertilizer distributor, No-tillage planter, twin-row planter (for planting two rows of seeds on one ridge), Row-crop cultivator with fertilizer distributor and Furrower with fertilizer distributor and other agricultural machines.

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Pneumatic Planter

Tarashkadeh planters are in two types of small and big seed planters. Big seed planter plants seeds such as corn, soya, sunflower, cotton, cereals and small seed planter plants seeds such as sugar beet and tomato. 4-row , 6-row and 8-row planters with or without fertilizer distributor are available.

Technical Specification	4-Row	6-Row
Seed Hopper Capacity	25 Lit	25 Lit
Required Power	50 Hp	70 Hp
P.T.O (RPM)	540 rpm	540 rpm
MIN Distance of Rows	30 cm	30 cm
MAX Distance of Rows	80 cm	80 cm
Weight	800 Kg	1000 Kg

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Pneumatic Planter with Fertilizer Distributor

- This planter is suitable for simultaneous operation of planting and fertilizer distributing for different crops like maize, sorghum, sunflower, cotton, soya, suger beet, tomato and other row-crop plantings.
- This machine is produced in 4-row and 6-row planter and all distances between planting rows are adjustable.
- MINIMAX as a seed metering machanism adjusts the fertilizer flow.

Technical Specification	4-Row	6-Row
Seed Hopper Capacity	25 Lit	25 Lit
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	60 Hp	80 Hp
P.T.O (RPM)	540 rpm	540 rpm
MIN Distance of Rows	30 cm	30 cm
MAX Distance of Rows	80 cm	80 cm
Weight	940 Kg	1160 Kg

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Pneumatic Two-Row Planter with Fertillizer Distributor
(Pneumatic Twin-Row Planter)

In study after study, Tarashkadeh twin-row planter results significantly higher yields, reduced costs and better grades in maize and sorghums.
By this planter, two rows of seeds are planted on one ridge in zigzag pattern.

Technical Specification	4-Row	6-Row
Seed Hopper Capacity	25 Lit	25 Lit
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	60 Hp	80 Hp
P.T.O (RPM)	540 rpm	540 rpm
Weight (with Fertilizer Distributer)	1000 Kg	1260 Kg

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No-Tillage Pneumatic Planter

- Soil erosion lessens
- Water conservation and infiltration and soil holding capacity increase
- Improve soil quality
- Evaporation of water lessens
- Reduction of soil compaction
- Reduction of amount of power needed from farm tractor
- Reduction of cost because of eliminating primary tillage equipment usage

Technical Specification	4-Row	6-Row
Seed Hopper Capacity	25 Lit	25 Lit
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	50 - 60 Hp	70 - 80 Hp
P.T.O (RPM)	540 rpm	540 rpm
Width of Machine	300 cm	450 cm
Forward Speed	6-9 km/hr	6-9 km/hr
Seed Depth	15 cm	15 cm
Weight	990 kg	1235 kg

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Raised Bed Seed Drill

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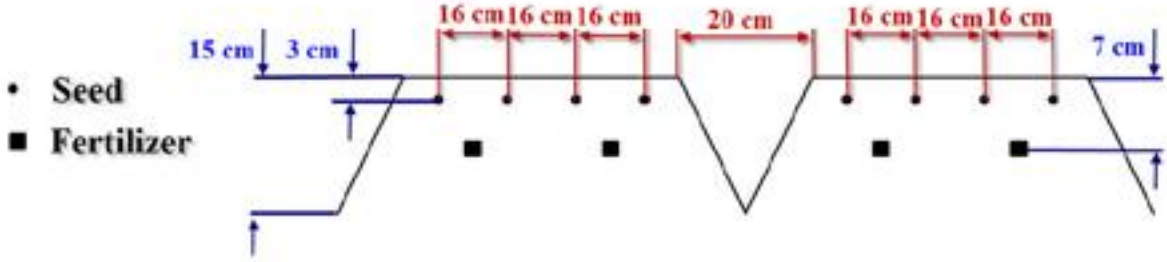
Today, wheat planting on ridges is recommended by Icarda in low-water countries such as Egypt and India. The advantages of this planting method include reduced seed consumption, reduced fertilizer consumption, reduced water consumption, increased field yield, reduced cost, increased fertilizer yield, better pest and disease management and better irrigation management.

Raised Bed Planting

Common farming method

In this method, 4 seed lines are planted at a distance of 16 cm on ridges with a width of 55 cm and fertilization is done in two lines between seed lines. The ridges are separated by creating furrows with 20 cm wide and 15 cm depth. By using this machine, fertilizers is placed at a lower depth than seeds and between the two seed lines, thus preventing seed damage by maintaining the appropriate distance.



Implantation of this method is performed in farms that have been previously tilled by plow and disc. In the planting stage, fertilization is done first by the fertilizer opener in a suitable depth that can be adjusted. In the next step, by passing the groove opener roller, while consolidating the soil surface, ridges and furrows are created and the planted fertilizers are established in fertilizer lines.

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Then adjusted amount of seeds planted in lower lines appropriate fertilizer depth that created by seed openers.

By this grain drill and creating suitable furrows, irrigation operations are performed with better yield and by stabilizing the seedbed and proper placement of seeds with the specified distance of seed lines relative to each other, competition between crop plants decreases and finally not only seed consumption reduces but also seed yield increases. By placing the fertilizer in a lower depth and maintaining the appropriate distance with the seed, while increasing the yield of the fertilizer, its consumption is reduced.

After conducting studies and design in Tarashkadeh Company, a prototype of the device was made and according to the corrections made in order to adapt to the conditions of Iranian farms, it succeeded in obtaining a patent certificate.

In the next stage, the yield of this grain drill in the sample farms of different regions of the country such as Khuzestan, Khorasan, Fars, Tehran, Karaj, Zanjan, Gorgan, Yazd and Ardabil in Moghan agro-industry was examined.

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The results confirm the following detailed benefits by using this grain drill:

- ***Simultaneous seedbed preparation and planting.***
- ***Increase the planting area.***
- ***In accordance with the type of soil of Iranian farms.***
- ***Planting fertilizer with a certain distance and depth relative to the seed.***
- ***Save up to 50% on seed consumption (consumption of 100 to 120 kg of seeds per hectare).***
- ***Save 20% to 30% on fertilizer consumption.***
  25% to 35% reduction in water consumption.
- ***Directing and discharging runoff.***
  30% to 50% increase in crop harvest.
- ***Reduce production costs by up to 25%.***
- ***Reduce product losses***

In the Raised bed system, the seedbed is created at the same time as the crop and the bed is maintained permanently. In this way, the next crop can be cultivated using a no tillage planter without the need to disrupt the ridges, and only the furrows need to be reconstructed, which is done by the no tillage planter when planting.

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Automatic Drip Tape Laying Equipment for Planter

By installing this equipment on your planters, automatic drip laying simultaneous seed planting is available.

Advantages:

- Cost saving and water consumption.
- Absence of surface runoff and prevent soil erosion.
- Adjust the amount of water needed for a variety of soils and farming cultures in different seasons
- Ventilated soil and water distribution uniformity in the farm and non-farm drainage needs.
- Increasing the yield per unit area compared to traditional irrigation.
- Prevent soil crusting.
- To minimize surface evaporation.
- Reduce weed growth on the farm due to lack of irrigation farm.

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Row-crop Cultivator (Sickle) with Fertilizer Distributor and Furrower

This machine is suitable for simultaneous operation of fertilizing, cultivating and reforming of corns, sorghum, suger beet, soya, sunflower and the other row-crop fields.
This machine is manufactured in two types of 4-row and 6-row.

Technical Specification	4-Row	6-Row
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	45 Hp	60 Hp
Width of Machine	325 cm	475 cm
Weight	350 Kg	400 Kg

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Furrower with Fertilizer Distributor

This machine is suitable for simultaneous operation of fertilizing and furrow reforming of corn, sorghum, soya, sunflower and the other row-crop plantings.
This machine is manufactured in two types of 4-row and 6-row.

Technical Specification	4-Row	6-Row
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	45 Hp	60 Hp
Width of Machine	325 cm	475 cm
Weight	300 Kg	350 Kg

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Row Crop Cultivator (Sweep) with Fertilizer Distributor (PTO Driven)

This machine is suitable for simultaneous operation of fertilizing and cultivating of corn, sorghum, sugar beet, soya, sunflower and other row crop fields.

- Precision operations and adjustable fertilizing.
- PTO driven (suitable for tractors with ground speed PTO)
- Mechanical control and eradication of weeds.
- Crust breaking and crushing the clods using spring stem.
- Protect the main plant with metal shielding against throwing dirt and stones.
- Adaptable for adjusting to the conditions of cultivation and rows distances.
- Available in different sizes and number of cultivators.

Technical Specification	4-Row	6-Row
Fertilizer Hopper Capacity	300 Lit	425 Lit
Required Power	45 Hp	60 Hp
Length	165 Cm	165 Cm
Width	320 Cm	420 Cm
Height	136 Cm	136 Cm
Weight	630 Kg	820 Kg

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Row Crop Cultivator (Sweep) with Fertilizer Distributor and Furrower (PTO Driven)

This machine is suitable for simultaneous operation of fertilizing and cultivating of corn, sorghum, sugar beet, soya, sunflower and other row crop fields.

Advantages:

- Precision operations and adjustable fertilizing.
- PTO driven (suitable for tractors with *ground speed PTO*)
- Mechanical control and eradication of weeds.
- Reforming furrows by furrowers.
- Crust breaking and crushing the clods using spring stem.
- Protect the main plant with metal shielding against throwing dirt and stones.
- Adaptable for adjusting to the conditions of cultivation and rows distances.
- Available in different sizes and number of cultivators.

Technical Specification	4-Row	6-Row
Fertilizer Hopper Capacity	300 Lit	300 Lit
Required Power	45 Hp	60 Hp
Length	185 Cm	185 Cm
Width	320 Cm	320 Cm
Height	136 Cm	136 Cm
Weight	645 Kg	849 Kg

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