

## Optimal wet cleaning with DT Dijkstra drum washers

***Before processing the product, clods and stones must be removed as completely as possible. In addition, it should be optimally washed to obtain a high-quality end product. DT Dijkstra offers solutions tailored to the application.***

DT Dijkstra washers can be equipped in combination with destoning or floating particle removal units, mounted directly on the drum washer or as separate modules. In addition to wet cleaning, a large number of dry cleaning modules are available, which are placed before the wet cleaning process.

### **Optimally customised**

Depending on the performance requirements, a standard configuration of 5 to 80 tonnes per hour per line is available. Within this range, the drum diameter varies from 1 to 2 meters and the drum length from 3 to 8 meters. The drum is offered in cylindrical, hexagonal and octagonal shapes with different hole patterns or slatted bottom (especially for carrots). The well-thought-out design of the different drum shape and base allows for optimal cleaning intensity for each individual product and circumstance.

### **Clever, easy-to-use software**

The machines are delivered with autonomous HMI control. The clear

touchscreen control enables quick and easy setup of all machine functions. The software is equipped with

pre-programmed setup programs with which different degrees of soiling of the product can be easily set.



### **These are the washers from DT Dijkstra:**

- Configured and tailored to meet your needs
- Always reliable and built to last
- Fully food safe (option)
- Water-saving integrated propeller (option)
- Maximum washing flexibility
- User-friendly touchscreen operation
- Proven technology and high-quality cleaning results
- Optional in combination with stone, clod and leaf separator

# Quality improvement by removing foreign objects

*When planning to invest in a potato processing plant, it is not always immediately thought of. However, the timely removal of foreign objects is not only necessary, but also has great advantages for both food safety and the processing of the potatoes.*

## Golf balls and glass

DT Dijkstra's product specialists regularly visit companies dealing with foreign objects in the potato flow. There are stones and lumps, but also lighter stones and „stray“ golf balls (often hard to distinguish from potatoes), glass, metal or plastic splinters and other parts. In addition, leaf debris can cause problems in a processing plant.



A major threat to food safety and processor reputation. A recall due to glass or other hazardous parts is a nightmare that every food processor wants to avoid.

## Trend

A trend identified by DT Dijkstra is that people increasingly want to remove foreign materials earlier in the process. With good reason, of course.

## Loss of production

Foreign objects can cause major damage in the process. Expensive production losses due to downtime are the result, but also unplanned and expensive maintenance of knives, cutting machines and pumps. Prevention is therefore essential.

## Food safety

The later in the process foreign objects are removed, the greater the risk that they will be ground into smaller pieces along the way.

## Special machines

Some commonly used solutions aimed at removing specific foreign objects are:

- magnet
- coarse particle separator
- Scott's Evolution Separator
- hedgehog conveyor
- destoner
- washer
- floating matter separator

## Magnet

Various types of static magnets or special conveyor belt magnets can be used to remove metal objects such as lost knives, horseshoes or agricultural machine parts such as cultivator tines from the product flow.

## Wear and tear

Another reason to remove foreign objects from the product flow at an early stage is the wear and tear on the system. Abrasive and hard parts as well as sticking leaves can cause malfunctions and can significantly reduce the lifespan of various (rotating) parts.

## Customised solutions

Optimising the quality of the product flow by removing foreign objects is therefore an important step in the process. For DT Dijkstra, the design of a plant is an overall concept. Depending on the type of foreign object, different solutions can be integrated, each of which improves the quality of the product flow at its specific point in the process.



Magnet

## Coarse particle separator

Large foreign objects, such as parts of fence posts or pieces of concrete, can cause major damage to the system, but also blockages. With a coarse particle separator, these large foreign parts can be removed as early as possible in the process.



### Scott's Evolution Separator

Conventional roller cleaners can be used to remove dirt; the design of the roller type depends on the type of dirt and the situation. A Scott's Evolution Separator can be used to remove dirt, small stones and leaves. This machine has many setting options and therefore offers a wide range of applications.



*Diagonal hedgehog conveyor*

### Hedgehog conveyor

Leaves and weeds can be difficult objects to handle that can cause problems in your facility. We can recommend an excellent solution for every application, either in a flat or diagonal configuration. By using a roller driven in the opposite direction, haulm and other small parts are removed from the product flow gently and yet precisely.



*Flat hedgehog conveyor*



*Leaf rake at drum washer*

### Floating matter separator/leaf rake

Light parts, such as leaves, pieces of wood and corn cobs, can be removed using the floating matter separator (a leaf rake) on the combi washing machine.



*Tomra FPS*

### Optical solution

We can also advise you on the right machine at the right point in your processing line for the optical removal of foreign objects. DT Dijkstra always integrates the best solution for your specific application. This can also be a machine from another specialised manufacturer. We have had good experiences with Tomra 3A machines, for example, with unwashed potatoes and onions to remove lumps and other foreign objects.

For companies that process the potatoes industrially into French fries, crisps or other products, we can, for example, use a Tomra 5A machine after the potato washing line, which removes foreign objects very precisely, and optionally also carry out a quality sorting of the potatoes, so that, for example, potato berries, potatoes that are too green and potatoes with rot can be removed.



*Tomra 3A*

### Optimal result

It is estimated that the above machines can remove 90-95% of all debris from the product flow.

A next step to remove the remaining foreign objects as much as possible can be an optical sorter. This is most effective with washed product. An impressive 95-98% of the remaining foreign matter can usually be removed with this.

### Your tailor-made solution

Are you also dealing with foreign objects in your potato flow? Our product specialists are ready to advise you on how to achieve optimal results in your process. In this way you avoid the costs of unnecessary wear and tear on your system and guarantee the quality and food safety of your product. Contact us without obligation at [sales@dtijkstra.nl](mailto:sales@dtijkstra.nl) or **phone +31 527 30 77 00**.

# GRADE, the versatile grading machine

*The GRADE 2-2500 is a grading machine that meets the needs of different user groups in the seed potato sector and the potato processing industry. What makes this machine so versatile?*

## Accurate and adjustable

The GRADE has a maximum capacity of no less than 50 tonnes/hour for cleaned or washed potatoes. The machine has a frequency-regulated control for extensive and infinitely variable control of the shaking movement, stopping moment and transport speed. The GRADE has a large screen surface, divided into 2 handy screens with a length of 1,300 mm. For additional grading accuracy, the machine is also available with a screen length of 1,600 mm.

Both screen decks are equipped with their own eccentric drive shaft. In addition, the GRADE has an independently driven and height-adjustable screen cleaning system.

## Practical

The GRADE is equipped with a centrally controlled hydraulic tensioning system for quick screen changes. In addition, very little space around the machine is required for a screen change. How convenient!

## This is the GRADE 2-2500:

- Accurate grading of 3 sizes
- Maximum capacity of 50 tonnes/hour with cleaned or washed potatoes
- Stepless control for optimal grading movement
- Low cost price per kilogram of processed product
- Can be implemented as a mobile module



## Service and maintenance

Prevention is better than repair! Avoid downtime on your machine due to broken or worn parts and make your maintenance budget more transparent in advance.

### Preventive maintenance

Have your installation optimally maintained and adjusted by our DT Dijkstra service specialists.

### Maintenance contracts

The continuity of your installation is secured at previously agreed costs.

### Components

Original quality parts according to the latest technology are quickly delivered.

## To schedule maintenance or inspection:

Contact our service department via +31 527 30 77 77 or [services@dttijkstra.nl](mailto:services@dttijkstra.nl).

## Quick service

Our DT Dijkstra service team is ready to help you quickly and accurately in the event of an emergency.

## We are available 24/7

You can rely on our service.