

ADAPTAflex CUSTOMER CASE STUDY

# Adaptaflex® Flexible Conduit Systems provide environmental-critical cable protection for waste processing machinery

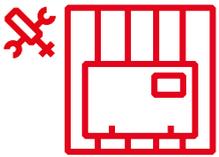


Established in 1972, Adaptaflex® Flexible Conduit Systems combine innovative design with dedicated manufacturing to deliver one of the world's broadest ranges of cable protection solutions.

Founded over a decade ago, Oostec Industrial Automation delivers turn-key industrial control systems, offering complete solutions for process, machine and line control.

Oostec were approached by an OEM for waste processing machinery, who needed control over extrusion for organic substances, essentially separating nutrient-rich biodegradable substances from the rest.

To find out more about this project and how Adaptaflex® flexible conduit systems were deployed in the extrusion process, we spoke to Bas Wennink, Sales Manager from Oostec Industrial Automation.



Equipped with **Type SP**

Adaptaflex® Flexible liquid resistant metallic conduit systems.





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The press is fitted with an **Adaptaflex®** flexible liquid resistant metallic conduit system with rodent deterrent properties.

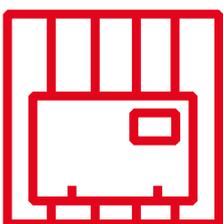
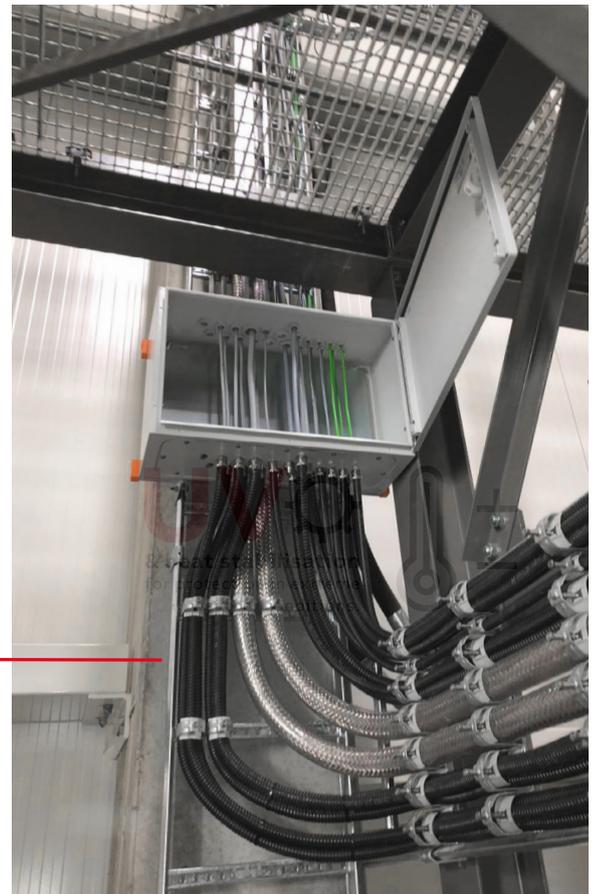
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## The Requirement

For their waste processing machinery, an Oostec OEM customer needed a solution to protect their cabling that controls the press against two specific hazards:

1. Protection against water because of cleaning procedures. As equipment is cleaned down with pressure washers, a metallic solution was needed to ensure no liquid ingress seeped into the cabling and caused any hazardous damage.
2. They also needed a solution that protects the cable against rodents on the areas that are close to the floor because these cables can be damaged easily if rodents are able to chew or scratch at them. The customer decided to apply a flexible conduit system with rodent deterrent properties in order to make sure the reliability of the press is fully maximised at all times.

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A metallic solution was needed for high mechanical strength, flexibility and to ensure no liquid ingress seeped into the cabling and caused any hazardous damage.



**Protecting**  
**Vital cabling**

with rodent deterrent properties.





**Adaptaflex® Type SP flexible metallic conduit system**  
Used in combination with the B-type, C-type & M-type fittings.



**Type SP conduit**  
Galvanised steel core with PVC jacket.

## The Solution

“They said the products were extremely easy to use, helping them to minimise the installation time.”

**Bas Wennink**, Sales Manager for Oostec

After the requirement of the customer was clear with an IP rating of at least IP54 needed, Oostec began to source liquidtight metallic conduit systems that would meet their needs.

Taking into consideration price, quality, ease of installation and solution availability, the customer decided to choose an **Adaptaflex®** solution. “I’ve received nothing but positive feedback from the field” said **Bas Wennink**, Sales Manager for Oostec.

The solution chosen was an **Adaptaflex®** Type SP flexible metallic conduit system. Used in combination with the B-type, C-type & M-type fittings, this provided the end user with a highly flexible cable protection system, with an IP54 (B & C fittings) to IP65 rating (M fittings) and very high UV resistance.

This type of solution not only has good fatigue life to ensure system longevity, but it met their requirements for both ingress and rodent protection, thanks to the liquid resistant covered steel conduit used.



## Essential cabling kept dry

Protecting cables from water splashing and jet washing.

**Type SP conduit**  
Liquid resistant PVC covered Steel. Highly flexible conduit with a medium fatigue life and very high UV resistance.



**IP65 Rating**

with appropriate Adaptaflex® M fittings.



The critical electrical systems for the end customer are now fully protected against rodents, water and dust for years to come.

## What's Next?

Projects that Oostec works on are varied. They continue to work with **Adaptaflex®** flexible conduit systems on their customer cable protection requirements. As they build a custom-made solution for their customers, if the requirement arises to protect the cables using a flexible conduit system, they will use **Adaptaflex®** solutions because of their ease of installation, price, quality and availability. This enables the customer to focus on their core business of turning waste into a valuable resource.

Thank you to **Bas Wennink** from the Project Oostec team – for more information on Oostec, visit their website at <https://oostec.nl/>

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Combining innovative design with dedicated manufacturing, **Adaptaflex®** conduit systems offer a wide selection of cable management products and solutions.

**Adaptaflex®** conduit systems provide excellent mechanical strength, flexibility and abrasion resistance to provide protection along the entire length of moving parts. The components meet a wide variety of environmental conditions, varying from high temperature to freezing sub-zero conditions.

**Adaptaflex®** conduit systems have more than 20 different types of non-metallic conduit systems, all providing different technical properties for your cable management applications. For more demanding applications, a wide-ranging high specification series of metallic conduit with enhanced low fire hazard properties, EMI screening and incorporating high fatigue life is available.



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