

# Prefab Sprinklers

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COST SAVINGS ON SITE



TO REDUCE THE LOSS OF LIVES AND DAMAGE AS A RESULT OF FIRE, MORE AND MORE SPRINKLER SYSTEMS ARE BEING FITTED IN BUILDINGS, SCHOOLS AND EVEN HOUSES. AWL HELPS TO SAVE LIVES BY DEVELOPING AUTOMATED WELDING MACHINES FOR SPRINKLER SYSTEMS.

Sprinklers are one of the most effective ways of controlling a fire. Once a sprinkler system is installed it is ready to extinguish a starting fire 24 hours a day. Most fires are controlled by one or two sprinklers heads.

#### The experience of AWL

AWL has gained a lot of experience in fire protection, especially in designing and building machines capable of welding prefabricated pipes for sprinkler systems. In doing so, AWL has been actively involved in saving lives.

AWL focuses on two elements. The first is to ensure a competitive end product. The second is to provide you with an economic, effective production that will set your mind at ease.

#### Time savings on site

Sprinkler systems are becoming more and more common in residential, commercial, industrial and institutional buildings.

In the world of installing sprinklers, time savings are everything. The use of prefabricated sprinkler pipes is a good contribution to these time savings. A batch of specific prefabricated sprinkler pipes created for a certain floor level will be delivered on site. All these pipes have unique tags and unique specifications ensuring efficient and quick installation on site. No more measuring, cutting, refitting or welding on site, just a simple installation.



This sounds wonderful, but how do we organise it all? Apart from training the installers, upgrading the installation philosophy and organising the logistics on site, you need excellent prefabricated sprinkler tubes. AWL supplies machines that automatically produce these prefabricated sprinkler pipes, that all have unique specifications and a unique tag.

#### General characteristics AWL machines

In order to produce these prefabricated pipes in a cost-effective way, AWL has developed a wide range of different machines which will meet your needs, depending on the requirements of flexibility and output.

In general, AWL's machinery for prefabricated sprinkler pipe production have three main characteristics:

The first characteristic is the high output of the machines. You can weld up to one socket per minute!

The second characteristic is the high level of automation resulting in the need for only one operator.

And the third characteristic is the flexibility for different diameters and the full 360-degree flexibility for the positioning of the sockets around the pipe. End caps can also be welded on the pipe.

As for the safety of the machine, AWL is already working according to the new machine directives, compulsory from 2010, ensuring you the upmost safety, with all the advantages of the latest technology.



## PORTFOLIO OF AUTOMATED WELDING MACHINES

In order to produce these prefabricated pipes in a cost-effective way, AWL has developed three unique concepts which will meet your needs, depending on your requirements in flexibility, level of automation and, of course, output. All AWL concepts are based on standard proven building blocks, making them reliable, safe and fast to integrate into your production facilities. There is also the possibility to include preproduction processes like cutting, grinding and grooving.



### CONCEPT BASIC

#### *Effective economic concept*

This basic entry-level concept is a stand-alone welding machine developed for welding small mixes of pipes with an average output.



### CONCEPT ADVANCED

#### *High-performance output*

This advanced concept has been developed as the standard in automated welding of sprinkler pipes. It is based on a performance of a small mix of pipes with a high output.



### CONCEPT ADVANCED+

#### *Full flexibility for high customer demand*

This advanced flagship concept combines the upmost flexibility with high-level output. Each individual sprinkler pipe can be welded to fit your specific needs, making it a tailor-made solution for your customers.

## GRINDING AND GROOVING STATION

All concepts can be fitted with a preprocess cutting, grinding and grooving station, automating the whole production process of the prefabricated sprinkler pipes.

## IN THE SPOTLIGHT



### HMI

Most AWL sprinkler concepts are delivered with AWL's Human Machine Interface (HMI), making communication with the machine very intuitive. Programming different batches has never been so easy.



### Control parameters

AWL has integrated a high level of control in every concept. Over 30 parameters are checked during the welding process, assuring a high quality output. In case of an error, the system alerts the operator with directive signals.



### Off line service

With AWL's remote diagnostic service there is always help at hand. By using an open VPN connection AWL is able to check your machine and help you keep the down-time to a minimum.



### Proven technology at AWL

AWL has a large number of successful reference projects in regard to the development and realisation of innovative welding machines and fully-automated production lines for steel prefab constructions. AWL machine concepts integrate the most advanced and tested technology. This results in high levels of reliability and guaranteed production quality. The machines are carefully designed and based on the latest technical developments, and could even surprise you with unexpected, though very welcome, benefits.

### EFSN

By becoming a member of the European Fire Sprinkler Network, AWL shows its commitment to promoting fire safety. We believe that the combination of AWL's know-how in automated welding and the extensive knowledge within the EFSN will result in solutions for good quality sprinkler installations. Our experience with major prefabricated pipe manufacturing companies confirms this.

### More information

If you would like to know more about AWL's welding machines for the sprinkler market, please contact our office. Phone: +31 (0)341 411 or send an e-mail to: [info@awl.nl](mailto:info@awl.nl)

# BENEFITS

### Flexibility:

The machines of AWL are designed to work with different ranges of pipe diameters and lengths, as well as with different sockets. Resulting in a broad coverage of your product portfolio.

### Ease of use:

AWL has integrated a HMI panel in the machine in which the operator only has to put in the requirements of the pipe like length, number of sockets, positions of sockets and number of pipes to produce a pipe with this characteristics.

### Quality:

A leaking pipe can be a big problem. With the AWL machines the welds are done by a robot. To make a thicker weld seam the robot uses a weaving pattern. Optionally, the welding system can monitor the welding parameters. If one of the preestablished parameters is out of the defined values, this means that the socket just welded could have a fault. Our system automatically marks the sockets suspicious of having a welding error.

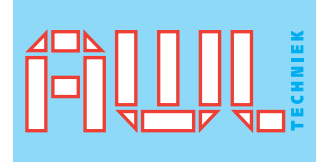
### Reliability:

Robots are the most common solution for welding in many industries. By integrating elements which have been proven in other industries, AWL brings the sprinkler segment state of the art equipment.





AWL HAS TAKEN THE EXPERIENCE FROM  
AUTOMATED WELDING IN THE AUTOMOTIVE  
INDUSTRY AND DEVELOPED IT FOR THE  
SPRINKLER MARKET.



# AWL

## Keeps you ahead in automated welding

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