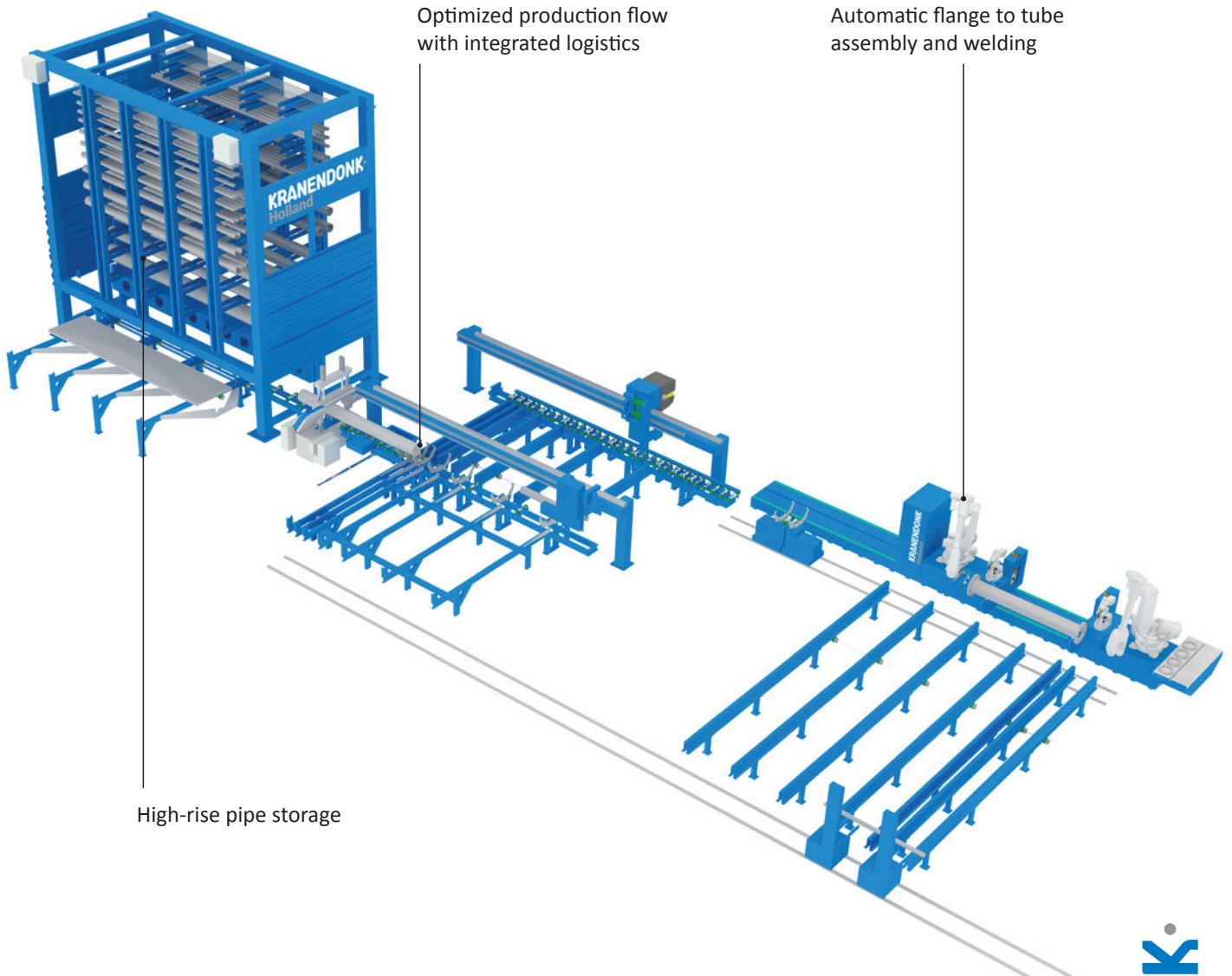


Shipbuilding,
Offshore & Energy | Pipe spool manufacturing



Robotic Pipe Shop

Great boost in productivity

Production of pipe spools is complex and time consuming and requires clever automation. Our Robotic Pipe Shop delivers. The production flow is changed by welding flanges before bending. In this way, production time is reduced to just minutes instead of hours per pipe, resulting in massive reduction in production time.

Fully automated production

Robots with vision technology automatically pick, position and weld flanges to tubes with the correct orientation. All production tasks are automated and centrally controlled. As a result, no manual control or setup is needed. It makes our Robotic Pipe Shop capable of handling continuously changing designs.

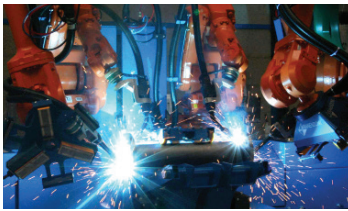
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Fax +31 344 623 388

KRANENDONK
Smart robotics

Extremely fast



By automating the production of pipe spools, production time goes from hours to just minutes. Time and cost per pipe pool are drastically reduced.

A complete piping solution



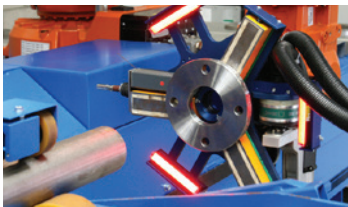
All systems are centrally controlled, resulting in a highly efficient production flow. Each tube is monitored individually by the central control system.

Individual pipe monitoring



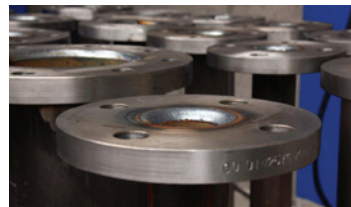
Logistics software coordinates all production tasks, so no manual programming is needed. This results in high productivity and large cost savings.

Flexible robotic assembly



With intelligent software and vision technology, the system can handle continuously changing designs. Pipes are produced on demand, in any order.

High quality robot welding



Robots automatically follow the weld seam with high precision and adapt to steel tolerances. It gives you consistent welds without the need for rework.

Integrated logistics



Robotic Pipe Shop will be tailored to your needs with our conveyors, buffers, high-rise storage, sawing, grinding, marking, welding and assembly.

Technical specifications*

Pipe shop specifications

Overall length	35,000 mm
Overall width	12,000 mm
Overall height	8,000 mm
Capacity of high-rise storage	300 pipes on average (depending on pipe size)

Flange welding cell

Length	12,500 mm
Width	5,500 mm
Robots	4 (assembling and welding)
Assembly technology	Magnets with integrated vision
Welding process	MIG/MAG

Pipe specifications

Diameter	1 - 10 inch (for robotic assembly)
Length	1,000 - 6,200 mm
Thickness (max.)	8.2 mm
Weight (max.)	350 kg/m



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Smart robotics

* Not your size? We customize our equipment to fit your requirements. Get in touch: info@kranendonk.com