



**INNOVATIVE SOLUTIONS for
GASKETS MANUFACTURING**

A photograph of a modern, two-story industrial building with a light grey facade and several windows. A large sign with the EXA logo is mounted on the upper right corner of the building. The logo consists of the letters 'EXA' in a stylized, bold font, with the tagline 'ENGINEERING FOR AUTOMATION' underneath. The building has a flat roof and a large set of double doors on the ground floor.

EXA, present in more than 50 countries, is a worldwide known manufacturer of automatic and semiautomatic machines for industrial gaskets manufacturing of any size, such as:

- **SPIRAL WOUND GASKETS MACHINES**
- **CAMPROFILE AND SPW INNER/OUTER RINGS**
- **GROOVING MACHINES**
- **INSULATION GASKETS MACHINES**
- **DIE MOULDED RINGS AND PACKING RINGS PRESSES**
- **GRAPHITE STRIPS PROCESSING MACHINES**
- **EYELET GASKET MACHINES**

EXA is also manufacturing:

- **LASER MARKING MACHINES**
- **INK-JET MARKING MACHINES**
- **ASSEMBLING AND TESTING MACHINES FOR VALVES AND OTHER COMPONENTS**

Thanks to its experience in the gasket manufacturing and in components handling, assembling and testing, **EXA S.r.l.** can also propose the supply of machinery designed on particular customer specification.

SOLUTIONS

The leading commitment of EXA is to fully support its customers providing them a trustworthy partnership through its experience and know-how with innovative, efficient and reliable solutions for their needs.

TECHNOLOGY

EXA machines are continuously updated incorporating the best technology available today on the market. Remote assistance capability available on all machines.

QUALITY

EXA machines are 100% designed, assembled, wired and installed by EXA personnel. The machine components are only from best known brands on the market.

AFTER SALES SERVICE

EXA also has a commitment to provide its customers with superior distinctive long-term After Sales Service, ideally through all the equipment life, that will differentiate EXA from the competitors.

FLEXIBILITY

EXA is also available to customize its machines according to the customer request. EXA design and manufacture also custom made equipment for products assembling, handling and testing.

CAMPROFILE and INSULATION GASKETS



AKM 01

Automatic Grooving machine

from 14 to 580 mm diameter

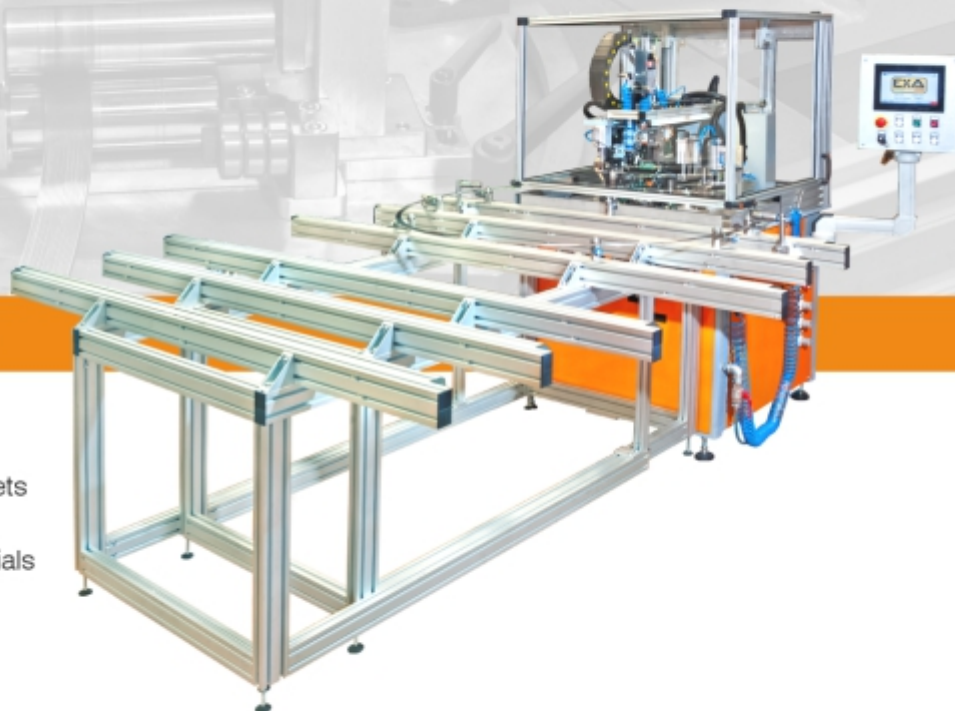
- Grooving all styles of round Camprofile and Inner/Outer rings for spiral wound gaskets
- Grooving of Insulation gaskets and Gaskets in Teflon based materials
- Square Groove for floating outer ring
- Grooving of straight bars of Camprofile
- Capability to manufacture its own tooling
- Automatic rotating speed adjustment to keep constant the cutting speed during all cycle
- Oil spraying cooling system to increase the cutter life
- Machine ready for automatic loading by robot

AKM 03

Automatic Grooving machine

from 450 to 4000 mm diameter

- Grooving all styles of round Camprofile, Inner and Outer rings for spiral wound gaskets and any kind of metal rings
- Grooving of gaskets in teflon based materials
- Max. ring width 115 mm
- Square groove for floating outer ring
- Grooving of straight bars for Camprofile
- Automatic zero point detection
- New pressure wheels design for thin rings (2 mm) and wide integral rings grooving
- Oil spraying cooling system to increase the cutter life



CAMPROFILE and INSULATION GASKETS



AKM 04

Automatic Grooving machine

from 450 to 4000 mm diameter

- Grooving of Insulation gaskets till 200 mm width, Gaskets in Teflon based materials
- Grooving all styles of round Camprofile and Inner/Outer rings for spiral wound gaskets and any kind of metal rings till 115 mm width
- Square Groove for floating outer ring
- Grooving of straight bars of Camprofile
- Automatic zero point detection
- New pressure wheel design for thin rings and wide integral rings
- Oil spraying cooling system to increase the cutter life

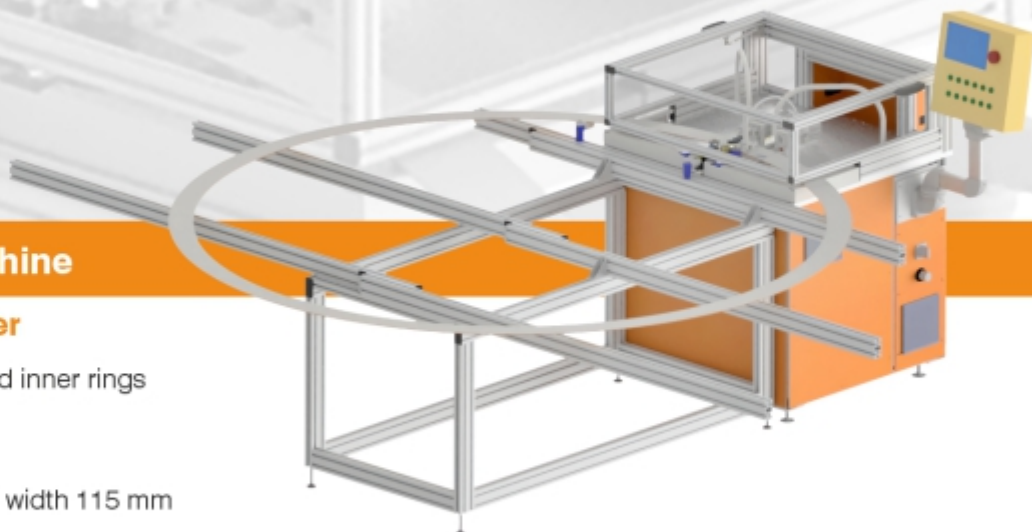
INNER & OUTER RINGS FOR SPIRAL WOUND GASKETS

AKM 05

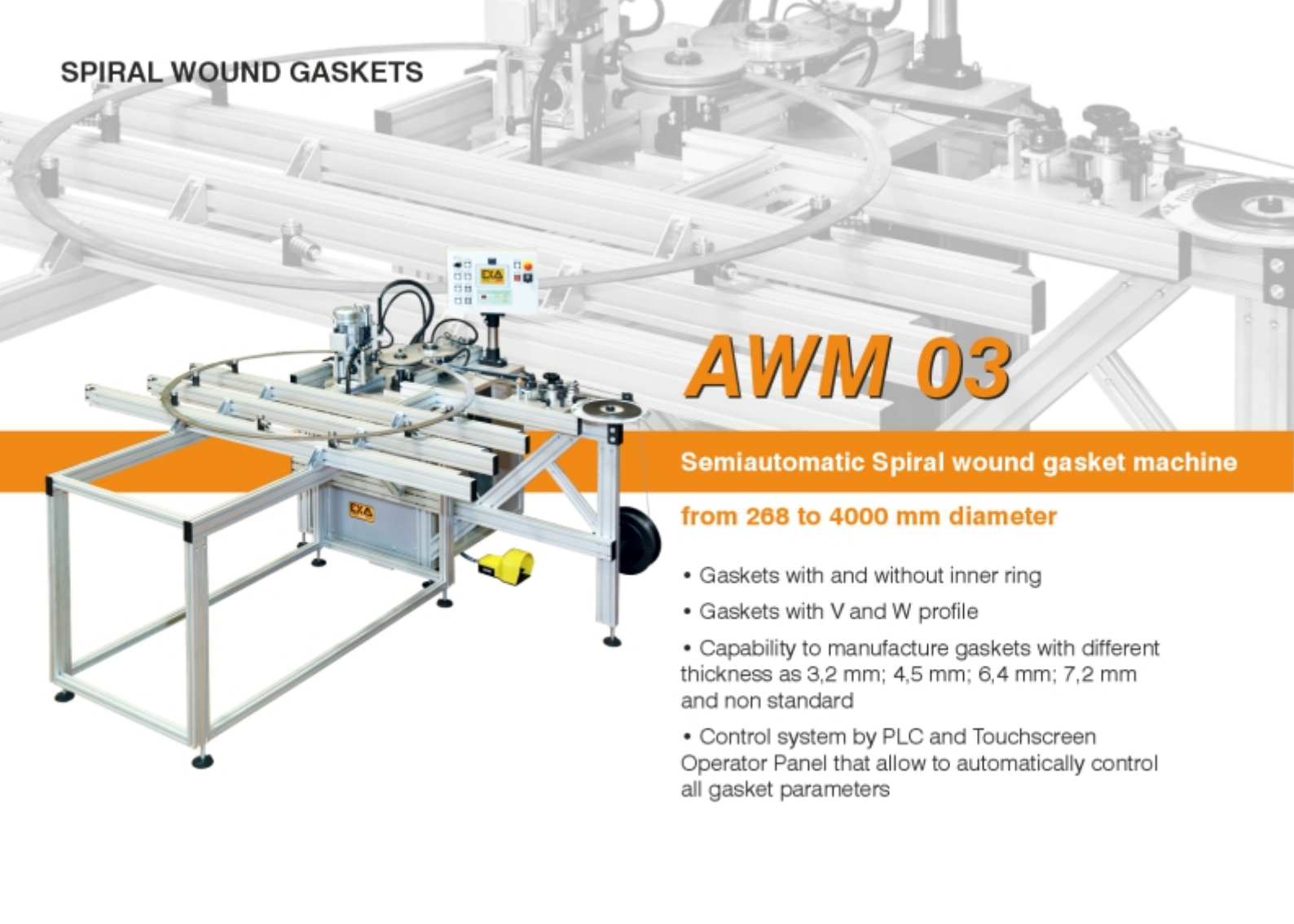
Automatic Grooving machine

from 155 to 4500 mm diameter

- Grooving and bevelling of outer and inner rings for spiral wound gaskets
- Automatic zero point detection
- Min. ring width 5 mm and max ring width 115 mm



SPIRAL WOUND GASKETS

The image shows a large industrial machine, the AWM 03, used for manufacturing spiral wound gaskets. It features a complex arrangement of rollers, guides, and a control panel. A large, curved metal frame supports the main processing area. The machine is constructed from heavy-duty metal, likely aluminum or steel, and has a sturdy base. The control panel is mounted on a vertical post, displaying various indicators and buttons. The machine is designed to handle materials of different thicknesses and profiles, as indicated by the text. The overall design is functional and robust, typical of industrial machinery.

AWM 03

Semiautomatic Spiral wound gasket machine

from 268 to 4000 mm diameter

- Gaskets with and without inner ring
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 3,2 mm; 4,5 mm; 6,4 mm; 7,2 mm and non standard
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control all gasket parameters

AWM 04

Semiautomatic Spiral wound gasket machine

"All in One" from 14 to 4000 mm diameter

- Gaskets with and without inner ring Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 3,2 mm; 4,5 mm; 6,4 mm; 7,2 mm and non standard
- Control system by PLC and Touchscreen
- Operator Panel that allow to automatically control all gasket parameters



SPIRAL WOUND GASKETS



AWM 07

Automatic Spiral wound gasket machine

from ½" to 30" diameter

- Gaskets with and without inner ring
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 2,4; 3,2 mm; 4,5 mm; 6,4 mm; 7,2 mm and non standard
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing process and all gasket parameters

SPIRAL WOUND GASKETS

AWM 08/s

Semiautomatic Spiral wound gasket machine

from ½" to 30" diameter

- Gaskets with and without inner ring
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 2,4; 3,2 mm; 4,5 mm; 6,4 mm; 7,2 mm and non standard
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control all gasket parameters



SPIRAL WOUND GASKETS



AWM 08

Manual Spiral wound gasket machine

from 1/2" to 30" diameter

- Gaskets with and without inner ring
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 2,4; 3,2 mm; 4,5 mm; 6,4 mm; 7,2 mm and non standard

AWM 10

Fully Automatic Spiral wound gasket machine

from ½" to 10" diameter

- Gaskets with and without inner ring
- Machine working without operator
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness as 3,2 mm; 4,5 mm and non standard
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing process and all gasket parameters



SPIRAL WOUND GASKETS



AWM 12

Fully Automatic Spiral wound gasket machine

from 19 to 150 mm diameter

- Gaskets with and without inner ring
- Machine working without operator
- Gaskets with V and W profile
- Capability to manufacture gaskets with different thickness standard and non standard
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing process and all gasket parameters

ARM 08

Spiral wound gasket assembling machine

- Suitable for automatic assembling (with manual loading) of spiral wound gaskets from 1/2" to 8" (all classes)
- Possibility to supply a two-stations machine to increase the productivity



DIE MOLDED/PACKING RINGS



APM 15

Fully Automatic Forming machine

for die molded rings (packings) from 6 to 80 mm dia.

- Machine working without operator
- Pressing strength 15 tons.
- Forming device by brushless motor and screw
- Weighting device to control the ring density
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing process and all gasket parameters

APM 25

Fully Automatic Forming machine

for die molded rings (packings) from 6 to 80 mm dia.

- Machine working without operator
- Pressing strength 25 tons.
- Forming device by hydraulic cylinder
- Weighting device to control the ring density
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing process and all gasket parameters



DIE MOLDED/PACKING RINGS

APM 30

Automatic Forming machine

for die molded rings (packings) from 30 to 180 mm dia.

- Pressing strength 30 tons.
- Forming device by hydraulic cylinder
- Weighting device to control the ring density
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing cycle



APM 70

Automatic Forming machine

for die molded rings (packings) from 50 to 300 mm dia.

- Pressing strength 70 tons.
- Forming device by hydraulic cylinder
- Control system by PLC and Touchscreen Operator Panel that allow to automatically control the manufacturing cycle



ASSEMBLING and TESTING EQUIPMENT

VALVE ASSEMBLING

Fully Automatic Valve Assembling Equipment



EXA manufactures the following assembling machines families:

- Multi-station index transfer
- Multi-station pallet lines
- Multi-station rotatory table
- Semi automatic machines for assembling or testing
- Robotics cells

Custom-made solutions for assembling, handling and in-line tests for different kind of products

VALVE ASSEMBLING

Fully Automatic Valve Assembling Equipment

EXA design fast, flexible and user friendly assembling machines for different kind of components and different industries fields.

EXA isn't just a supplier of solutions for automating assembly processes, but it's a partner who provides assistance and support along all life of the equipment, because customer satisfaction is our goal.



ASSEMBLING and TESTING EQUIPMENT



VALVE TESTING

Fully Automatic Valve Testing Equipment

EXA design and manufacture testing equipment according to customer specifications

EXA test benches are studied and designed after careful consideration of the client's needs, making it the best solution for the customer

VALVE TESTING

Fully Automatic Valve Testing Equipment

- Valve testing stations for Automatic assembling lines
- Valve testing bench
- Equipment for leak test and flow test
- Safety valve calibration bench



MARKING MACHINES



ARM 24

Automatic Laser Marking machine

- Capability to mark in fully automatic way rings till 24" and till 60" with manual loading
- Suitable for marking Spiral wound gasket rings, Insulation gaskets, Camprofiles, Ring Joint
- Dedicated device for Ring-Joints marking
- Suitable for marking any kind of metallic and non metallic material (including rubber)
- Possibility of marking any kind of components with manual loading

ARM 25

Semiautomatic Laser Marking machine

- Capability to mark rings of any size with manual loading
- Suitable for marking Spiral wound gaskets rings, Insulation gaskets, Camprofiles
- Suitable for rubber gaskets marking
- Dedicated device for Ring Joints marking
- Suitable for marking any kind of metallic and non-metallic materials (including rubber)
- Suitable for marking any kind/shape of components with manual loading



MARKING MACHINES



ARM 35

Automatic Ink-jet Marking machine

with manual loading

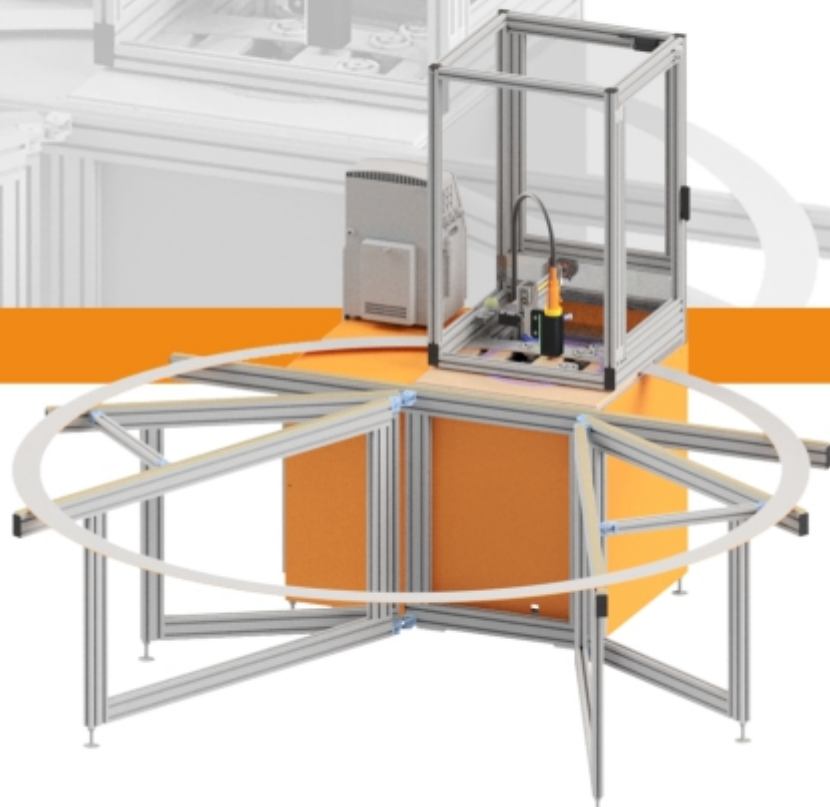
- Capability to mark with Ink-jet technology all type of rings from ½" to 24"
- Suitable for marking Spiral wound gaskets rings, insulation gaskets, Camprofiles...
- Suitable for marking any kind of metallic and non-metallic material (including rubber)

ARM 36

Automatic Ink-jet Marking machine

with manual loading

- Capability to mark with Ink-jet technology all type of rings from 400 mm to 4000 mm
- Suitable for marking Spiral wound gaskets rings, insulation gaskets, Camprofiles...
- Suitable for marking any kind of metallic and non-metallic material (including rubber)



MARKING MACHINES

The image shows the ARM 37 Automatic Ink-jet Marking machine, a complex industrial device with a large, multi-armed frame. A central unit with a transparent safety enclosure houses the marking mechanism. The machine is designed for marking various types of rings and gaskets. The background is a light gray, and the machine's frame is made of silver-colored metal. An orange banner is positioned below the machine's main body.

ARM 37

Automatic Ink-jet Marking machine

- Capability to mark with ink-jet technology all type of rings of all diameters sizes
- Automatic adjustment of the printing head position according to the ring diameter
- Suitable for marking Spiral wound gaskets rings, Insulation gaskets, Camprofiles, ...
- Suitable for marking any kind of metallic and non-metallic materials (including rubber)







EFFICIENT AND RELIABLE SOLUTIONS FOR GASKETS MANUFACTURING PROCESS



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