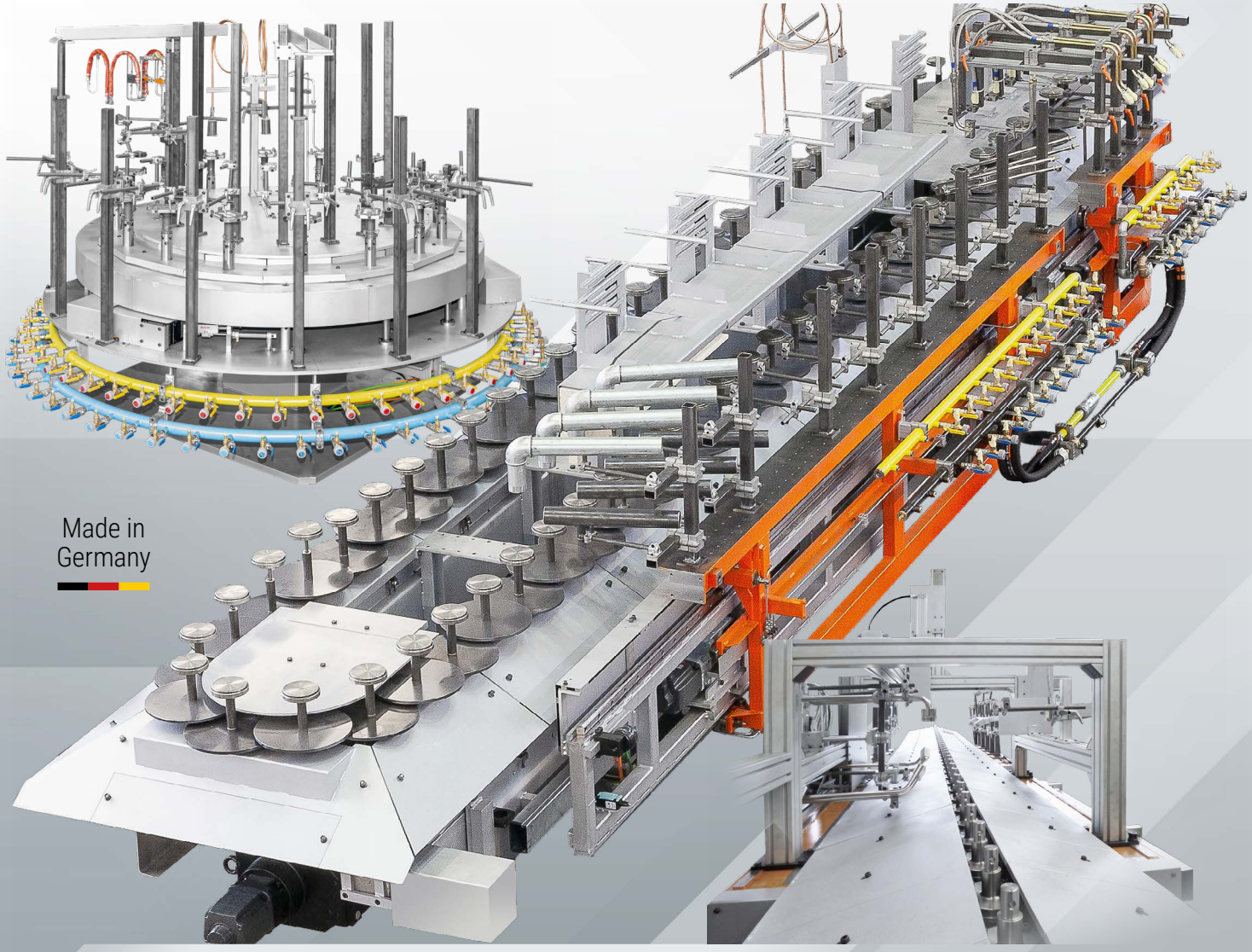
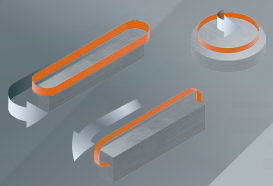
WALTEC



Made in Germany

INNOVATIVE PRODUCTION PROCESSES:

FIRE POLISHING



*MAXIMUM **ENERGY EFFICIENCY** AND HIGHEST **SURFACE QUALITY***

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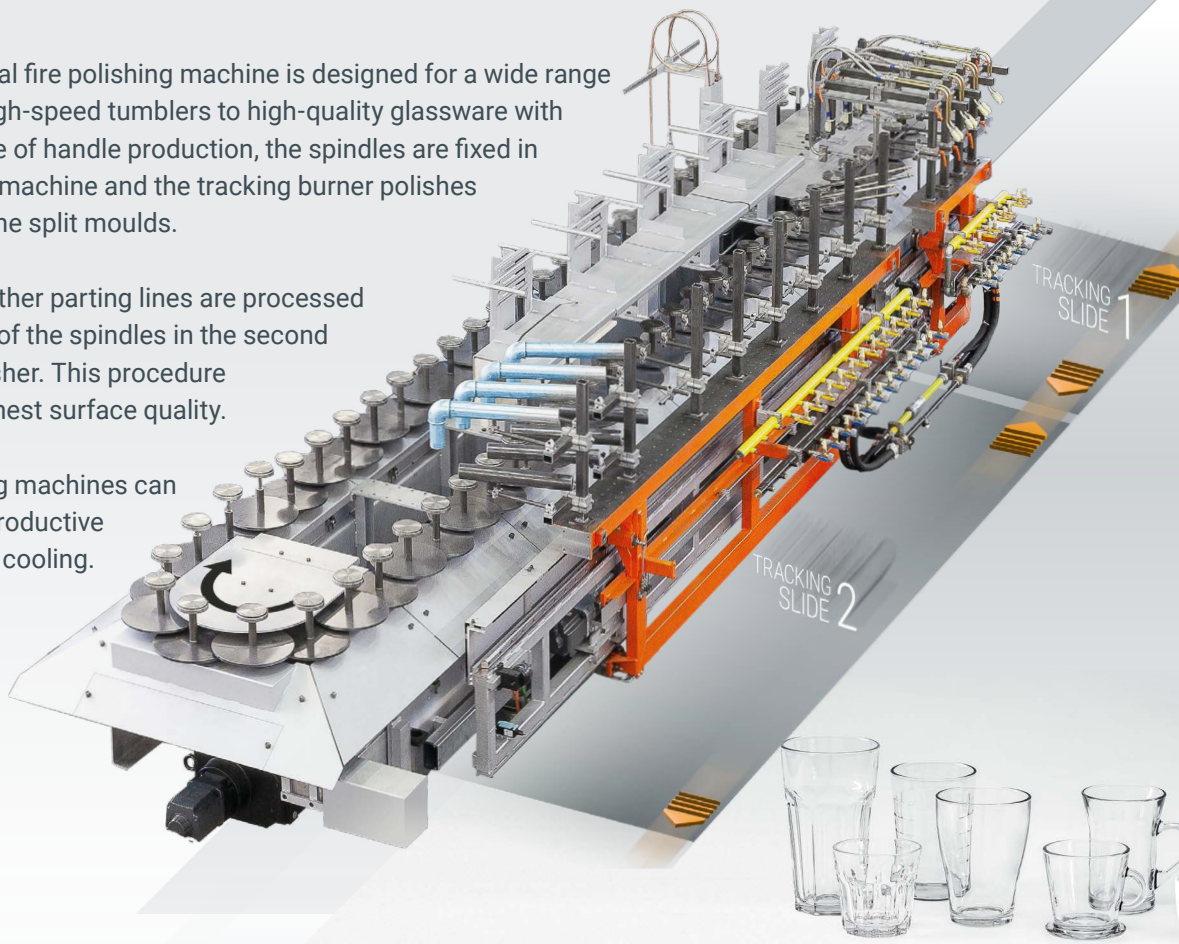
FOR ROUND ARTICLES AND ARTICLES WITH HANDLE:

HORIZONTAL *FIRE POLISHING*

WALTEC´s horizontal fire polishing machine is designed for a wide range of articles: From high-speed tumblers to high-quality glassware with handles. In the case of handle production, the spindles are fixed in the first part of the machine and the tracking burner polishes the parting line of the split moulds.

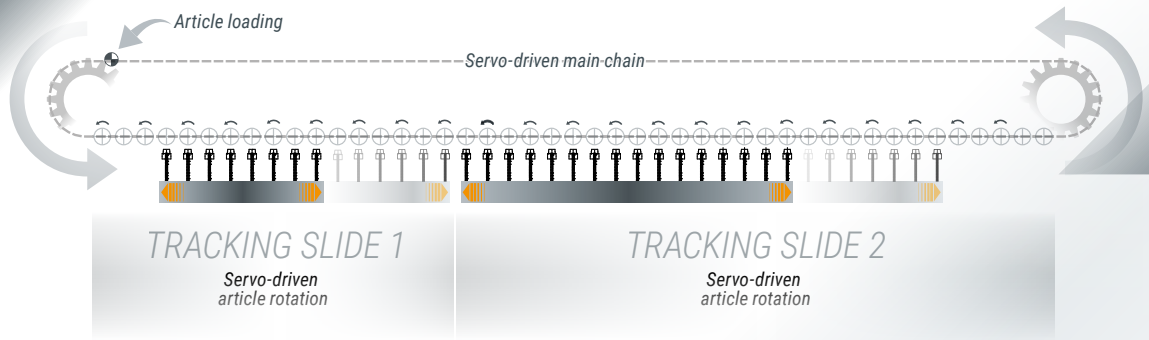
The body and the other parting lines are processed during the rotation of the spindles in the second part of the fire polisher. This procedure guarantees the highest surface quality.

Horizontal polishing machines can be equipped with productive options, e.g. article cooling.



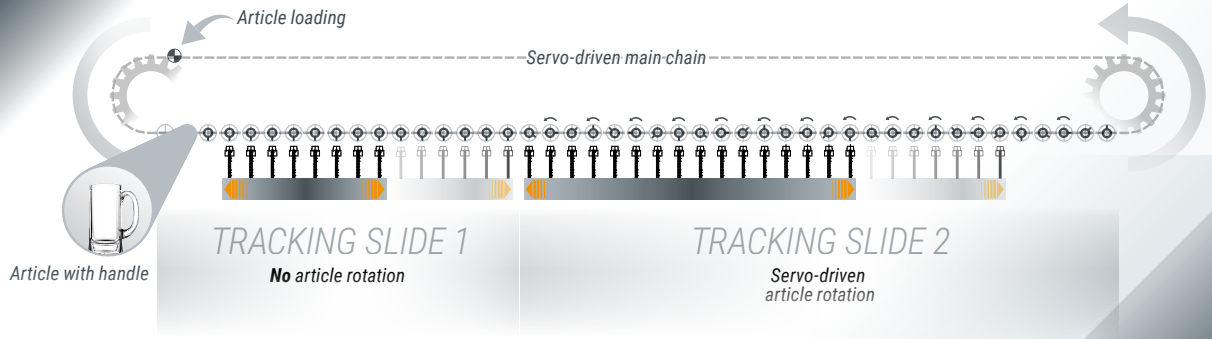
MODE 1

Servo-driven article rotation in tracking slide 1 and slide 2.



MODE 2

No rotation *in tracking slide 1. Servo-driven article rotation only in tracking slide 2.*

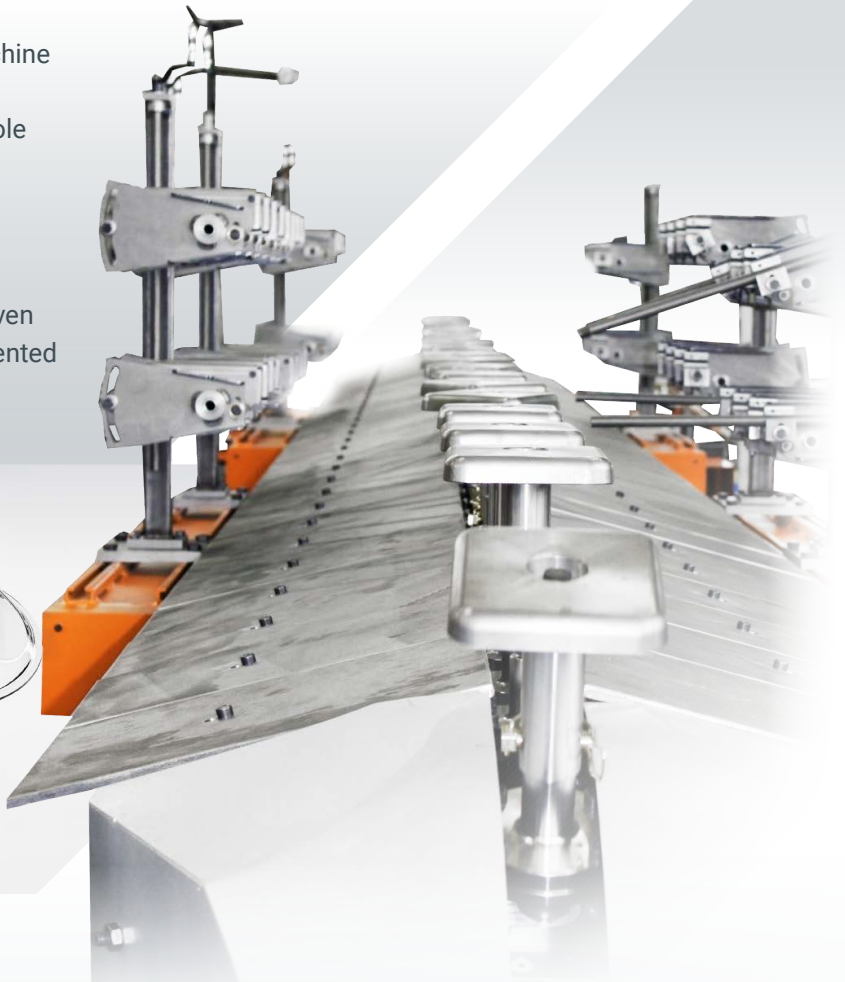


FOR ROUND, SQUARE, RECTANGULAR AND OVAL ARTICLES:

VERTICAL *FIRE POLISHING*

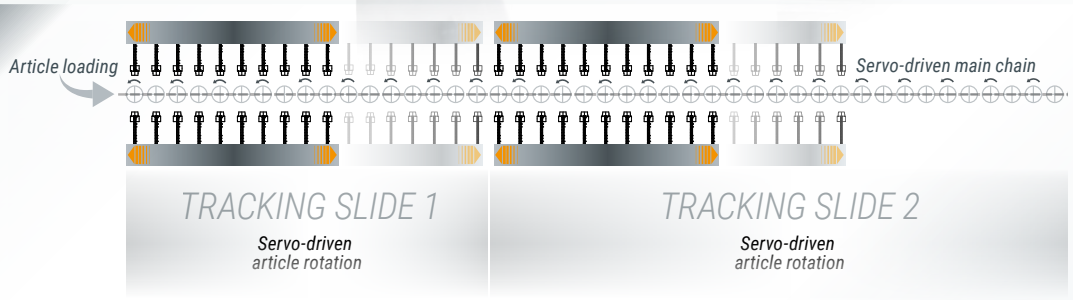
As illustrated in the figure, this fire polishing machine with two individually driven slides is predestined for polishing washing machine windows, casserole dishes, food containers and other non-round products.

All movements like the main chain, the slide movement and the spindle rotation are servo driven and freely adjustable. The 90° turning is implemented by a strong mechanical cam.



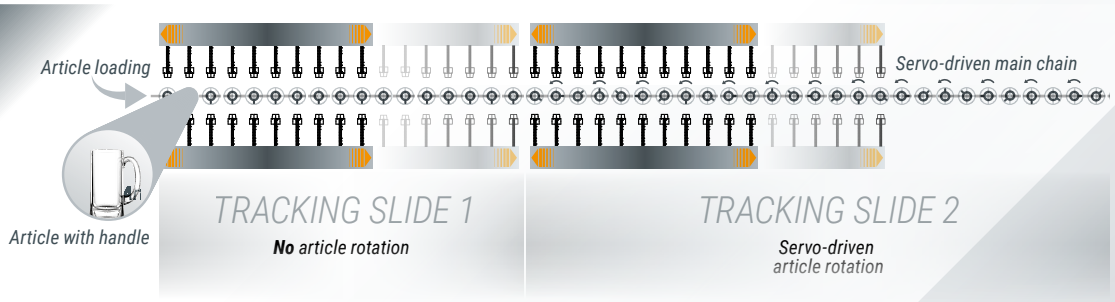
MODE 1

Servo-driven article rotation in tracking slide 1 and slide 2.



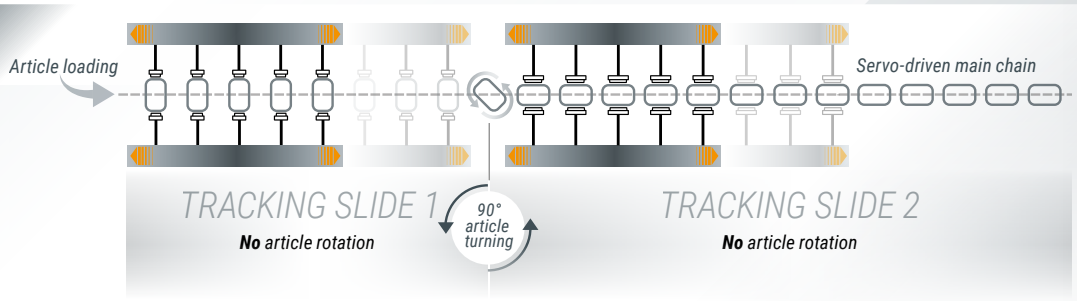
MODE 2

No rotation *in tracking slide 1. Servo-driven article rotation only in tracking slide 2.*



MODE 3

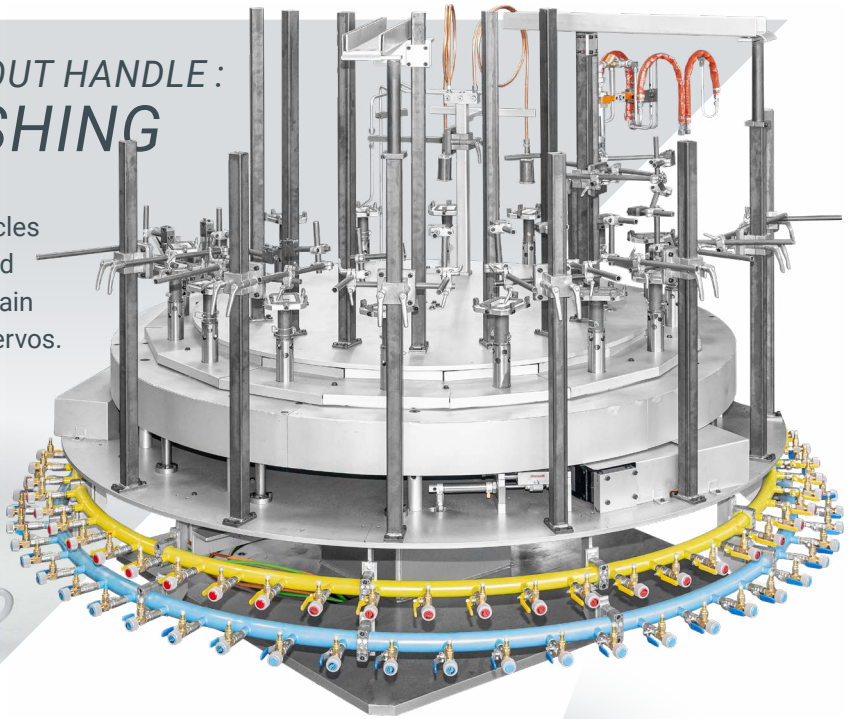
No article rotation *in both tracking slides. 90° article turning between the slides.*

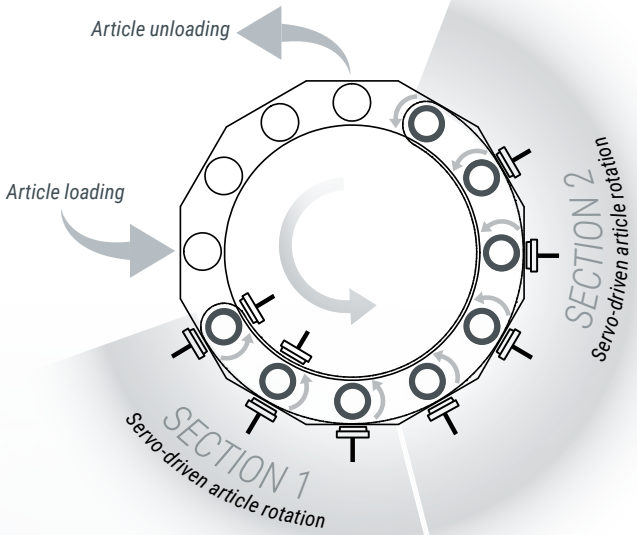


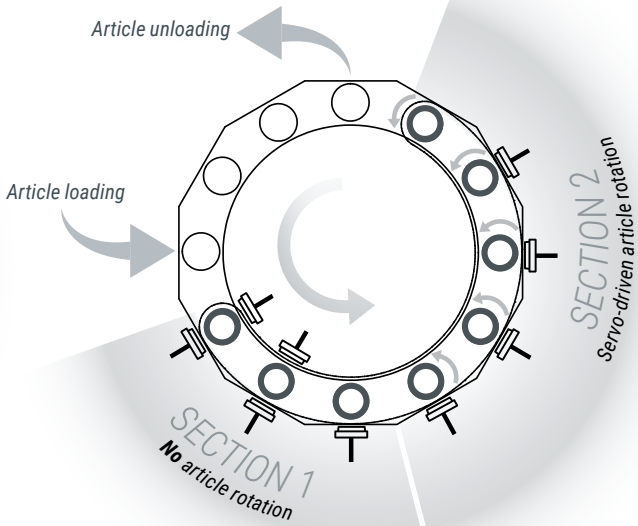
FOR ROUND ARTICLES WITH/WITHOUT HANDLE :

RADIAL *FIRE POLISHING*

This radial fire polishing machine for round articles and articles with handle has a simple design and works in start-stop mode. The rotation of the main drive and the spindle rotation are powered by servos.







MODE 1 *Servo-driven article rotation in section 1 and section 2.*

MODE 2 ***No rotation*** *in section 1. Servo-driven article rotation only in section 2.*

STREAMLINED *PRODUCTION:*

OPTIMIZE *YOUR PROCESS*

WALTEC's fire polishing machines include technical capabilities for:

- ***in-line hot-hole burning for covers/lids***
- ***handle bending for pitchers/jars***
- ***article rotation and 90° turning***

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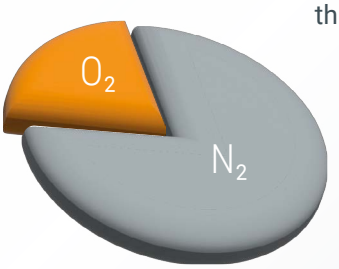
BEYOND CUSTOMER EXPECTATIONS:

IMPROVED QUALITY AND ENERGY SAVINGS

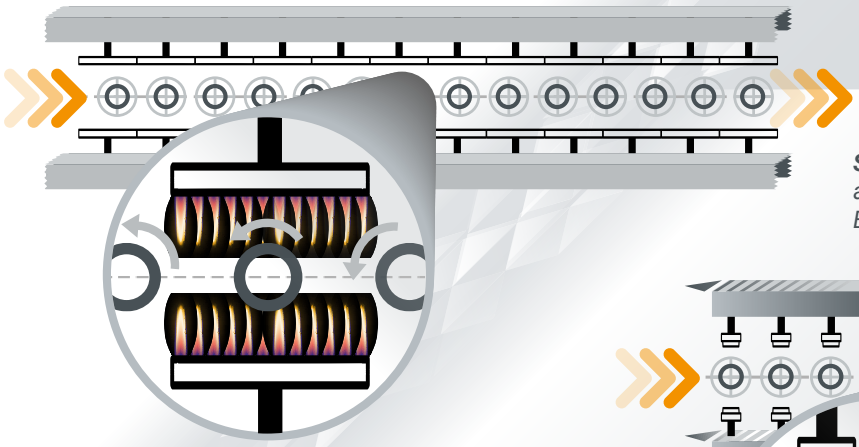
A traditional fire polishing process is based on merging gases such as natural gas, methane or propane with compressed air and firing this mix up to the right ignition temperature. This process carries a high level of energy waste: Nitrogen out of compressed air needs to be heated up!



Air contains around 21% oxygen and nearly 79% nitrogen

Another important energy-relevant issue is the continuous flow of articles, passing through a tunnel of permanently operated burners on both sides. Flames are thus not only directed to the article surfaces but they also burn a large amount of precious energy for spaces between the glass articles. This leads to an unnecessary and expensive loss of energy.

Expensive waste of energy: Fixed installed rows of burners with continuous energy consumption (targeting the space between articles)



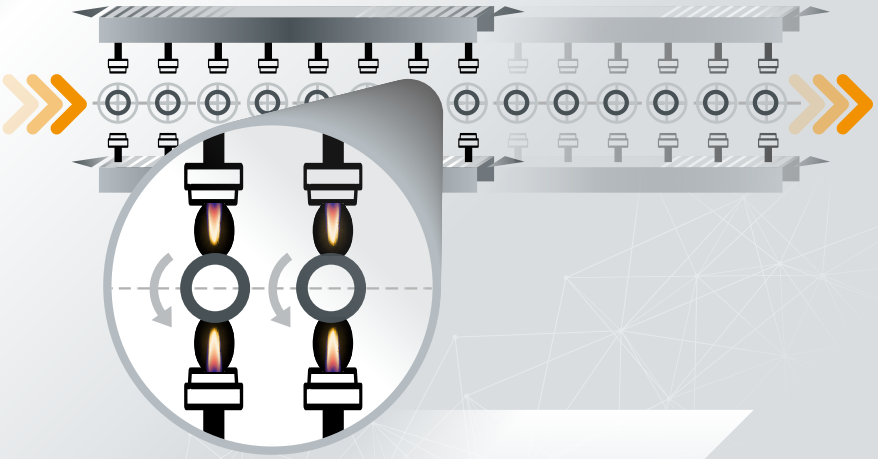
***WALTEC**'s servo powered fire polishing lines with innovative tracking burner technology drive energy savings, improve product quality and support multi-product functionality.*

WALTEC replaced compressed air with oxygen – saving about 30% of combustion gases. The innovative burner tracking system decreases the gas consumption by another 50%.

WALTEC's state of the art servo-powered fire polishers with gas and oxygen as well as the tracking burner technology feature comprehensive energy savings up to 80%.

Servo drive technology fully synchronizes the article transport and spindle rotation with the tracking burners and guarantees high precision energy-efficient polishing and the best possible surface quality.

***Save up to 50% energy** by synchronously accompanying articles during transport: Efficiency-optimized tracking burners from WALTEC*



***IMPROVE** YOUR PROCESS –*

*WALTEC.DE/**FIREPOLISHING***

FOR THE GLASS INDUSTRY –

*DRIVEN BY **INNOVATION***

WALTEC MASCHINEN GMBH
GERMANY

KRONACHER STR. 2A
96352 WILHELMSTHAL

+49 9260 99010

INFO@WALTEC.DE

WALTEC.DE

r&s 03|22