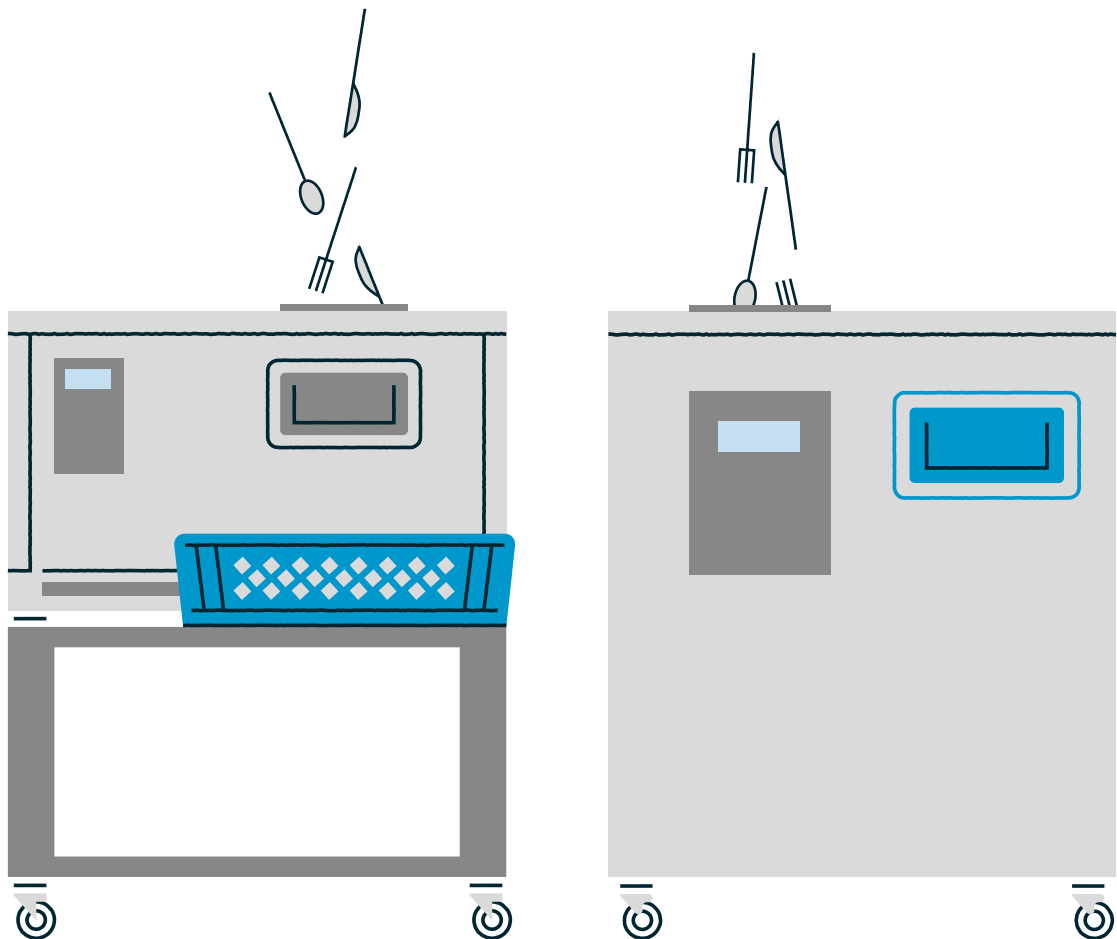


# POLISTAR<sup>★</sup>

Polishing machines





## ABOUT US

LUGAMA GmbH is the pioneer in the development of cutlery polishing machines. For more than 20 years on the market, the company has grown from a regional supplier to an international supplier of cutlery polishers. Clients are commercial kitchen, catering companies, hospitals, hotels and restaurants.

LUGAMA is constantly working to develop and improve the POLISTAR series in order to meet our customers' requirements. Through service and innovation, we always target the user's benefit. POLISTAR gives your cutlery gloss and care, offering guests the hygiene and quality that they expect and deserve.



# CUTLERY POLISHING MACHINES

**POLISTAR - Perfectly brilliant cutlery - without any expensive manual work! ...literally takes the cutlery out of your hands**

Perfect polished cutlery is important, but this time consuming work costs time and money. With the cutlery polishing machines by POLISTAR, the expensive manual work definitely is a thing of the past! Its solid construction ensures permanent reliable results - within the shortest time!

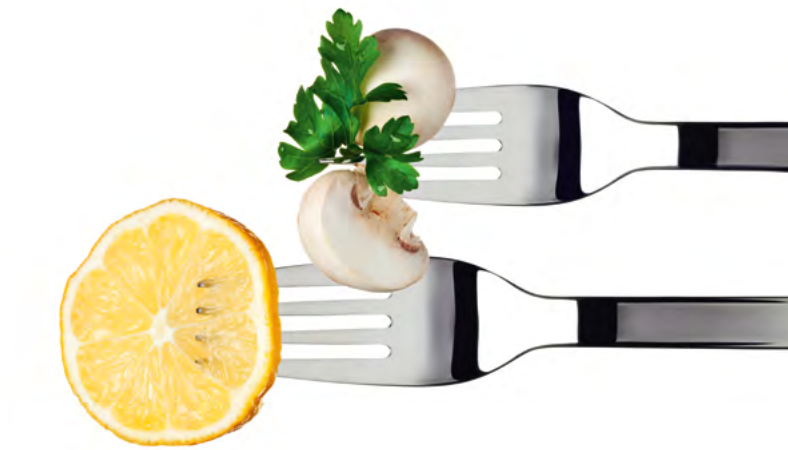
## ADVANTAGES AT A GLANCE

- ✓ Brilliant and spotless cutlery
- ✓ Sterilises your cutlery hygienically clean (HACCP)
- ✓ Saves time and labour costs
- ✓ Simple handling
- ✓ Short payback time
- ✓ Simple cleaning
- ✓ Smooth operation
- ✓ Space-saving construction

## AS SIMPLY AS THAT

Whether chrome, stainless steel or high-quality silver - the wet and washed cutlery simply gets inserted in the POLISTAR and rises in a spiral, passing a high-quality polishing granulate. This pure natural product dries and polishes the cutlery and provides for a durable brilliance. Your cutlery looks like new - in only a single cycle!

Depending on the usage the granulate should be replaced every 4 - 8 weeks. Thanks to a special suspension the machine operates very quietly.



Thanks to the POLISTAR your cutlery not only meets the visual requirements of your guests, but it also corresponds to the severe EC hygiene regulations. A special UVC light sterilises the cutlery as well as the granulate.

The regular use of the POLISTAR significantly reduces the oxidation of the cutlery and gives a much better appearance, shine and gloss to your cutlery.



**1**  
The wet, washed and clean cutlery gets inserted in the cutlery polisher.



**2**  
The cutlery rises in a spiral, passing a high-quality warm polishing granulate.



**3**  
A UVC light continuously sterilizes the surface of the polishing granulate and the cutlery.



**4**  
Within the shortest time, the cutlery is polished, dry and brilliant.

You can find more information about our cutlery polishing machines at [www.polistar.com](http://www.polistar.com)



## CUTLERY POLISHING MACHINES

# POLISTAR<sup>★</sup> BISTRO

- ✓ display indication
- ✓ CE certified
- ✓ cutlery sensor
- ✓ electronic temperature control
- ✓ automatic warming phase
- ✓ automatic drying phase
- ✓ control of all electrical components
- ✓ digital error indication (plain text)
- ✓ display granulate replacement
- ✓ display fault UVC-lamp
- ✓ display for maintenance
- ✓ system test when turning on the machine
- ✓ UVC-lamp for disinfection of the granulate
- ✓ functional check of the UVC-lamp
- ✓ heating function indicator
- ✓ overheating protection
- ✓ display when the machine is ready for polishing
- ✓ Automatic switch-off of the machine when the cover is opened
- ✓ Automatic switch-off of the UVC lamp when the lid is open
- ✓ choice of the display language GER/ENG/ESP/FRA
- ✓ machine meets HACCP requirements



## TECHNICAL DATA

Type	POLISTAR BISTRO
Efficiency	max. 2000 cutlery parts/h
Dimensions	W 430 x D 430 x H 445 mm
Weight	40 kg
Connected load	900 W
Voltage	230 V/50 Hz
Mark of conformity	CE





## CUTLERY POLISHING MACHINES

# POLISTAR<sup>★</sup> 4000

- ✓ display indication
- ✓ CE certified
- ✓ cutlery sensor
- ✓ electronic temperature control
- ✓ automatic warming phase
- ✓ automatic drying phase
- ✓ control of all electrical components
- ✓ digital error indication (plain text)
- ✓ display granulate replacement
- ✓ display fault UVC-lamp
- ✓ display for maintenance
- ✓ system test when turning on the machine
- ✓ UVC-lamp for disinfection of the granulate
- ✓ functional check of the UVC-lamp
- ✓ heating function indicator
- ✓ overheating protection
- ✓ display when the machine is ready for polishing
- ✓ Automatic switch-off of the machine when the cover is opened
- ✓ Automatic switch-off of the UVC lamp when the lid is open
- ✓ choice of the display language GER/ENG/ESP/FRA
- ✓ machine meets HACCP requirements



## TECHNICAL DATA

Type	POLISTAR 4000
Efficiency	3000 - 4000 cutlery parts/h
Dimensions	LW 640 x D 500 x H 485 mm
Weight	55 kg
Connected load	900 W
Voltage	230 V/50 Hz
Mark of conformity	CE







## CUTLERY POLISHING MACHINES

# POLISTAR<sup>★</sup> 8000

- ✓ display indication
- ✓ CE certified
- ✓ cutlery sensor
- ✓ electronic temperature control
- ✓ automatic warming phase
- ✓ automatic drying phase
- ✓ control of all electrical components
- ✓ digital error indication (plain text)
- ✓ display granulate replacement
- ✓ display fault UVC-lamp
- ✓ display for maintenance
- ✓ system test when turning on the machine
- ✓ UVC-lamp for disinfection of the granulate
- ✓ functional check of the UVC-lamp
- ✓ heating function indicator
- ✓ overheating protection
- ✓ display when the machine is ready for polishing
- ✓ Automatic switch-off of the machine when the cover is opened
- ✓ Automatic switch-off of the UVC lamp when the lid is open
- ✓ choice of the display language GER/ENG/ESP/FRA
- ✓ machine meets HACCP requirements
- ✓ real-time clock

















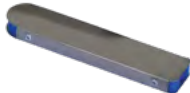







## TECHNICAL DATA

Type	POLISTAR 8000
Efficiency	max. 8000 cutlery parts/h
Dimensions	W 635 x D 740 x H 800 mm (optionally with feet)
Speed	1450 U/min
Weight	80 kg
Connected load	900 W
Voltage	230 V/50 Hz
Mark of conformity	CE



## ACCESSORIES

Polistar BISTRO	Polistar 4000	Polistar 8000	Polistar SILVER
<p>SET cutlery basket, cove</p> 	<p>SET cutlery basket, cover, cutlery basket closed</p> 		<p>lifting cage</p> 
	<p>Trolley   Cutlery cart</p> <p><b>Trolley:</b> W 655 x D 520 x H 380 mm <b>Trolley low:</b> W 655 x D 520 x H 250 mm</p> 	<p>Trolley   Cutlery car</p> 	<p>DeoxyPLUS Polishing soap</p> 
	<p>Basket</p> <p><b>erforated:</b> 400 x 300 x 170 H   mm <b>closed:</b> 400 x 300 x 120 H   mm</p> 	<p>Basket</p> <p><b>closed:</b> 400 x 300 x 170 H   mm <b>closed with handle holes:</b> 400 x 300 x 220 H   mm</p> 	<p>Knife polishing device</p> 
<p>UVC-lamp high efficiency</p> 	<p>UVC-lamp high efficiency</p> 	<p>UVC-lamp high efficiency</p> 	<p>holder knife polishing device</p> 
<p>PoliDRY polishing granulate <b>2,3</b> kg</p> 	<p>PoliDRY polishing granulate <b>3,5</b> kg</p> 	<p>PoliDRY polishing granulate <b>6,0</b> kg</p> 	<p>Knife blade guard</p> 
<p>PoliCLEAN rubbing alcohol <b>1</b> Liter</p> 	<p>PoliCLEAN rubbing alcohol <b>1</b> Liter</p> 	<p>PoliCLEAN rubbing alcohol <b>1</b> Liter</p> 	<p>Polishing balls <b>10.0</b> kg</p> 
<p>Polishing glove cotton <b>12</b> pairs in a bunch</p> 	<p>Polishing glove cotton <b>12</b> pairs in a bunch</p> 	<p>Polishing glove cotton <b>12</b> pairs in a bunch</p> 	<p>Compartmentalising jig</p> 

# BALL POLISHING MACHINE

## THE 'BALL BURNISHING' PROCESS

The principle of surface hardening using polishing balls is a tried and tested method. The balls compress and harden the metal surface without removing any metal.

This significantly extends the service life because a 'closed', dense surface is much more resistant to wear, scratches and corrosion.

## THE MOREILLON - POLISTAR SILVER SYSTEM: ROLLING INSTEAD OF HAMMERING

The proven design of the POLISTAR Silver, based on the Moreillon system, sets completely new standards in terms of surface quality. The polishing beads are made to roll in a semicircular trough by means of an endless conveyor belt without vibrations. This causes a uniform, continuous rotation of the polishing mass and thus allows a very 'gentle' smoothing of the metal surface without damage and impressions from the polishing beads.

## BALL POLISHING CAN DO MORE THAN JUST SHINE

Ball polishing smoothes and hardens the metal surface without wear, removes organic deposits, rust film, limescale, coffee/tea or wine stains, reduces the formation of bacteria on tableware, protects against corrosion, oxidation, wear and scratching, and makes the rinse water bead off better by mechanically sealing the metal pores.

## POSSIBLE APPLICATIONS

Ball burnishing was originally developed for polishing silverware. Today, however, it is used for almost all metals and various plastics. In the same way as silver and with the same product, DeoxyPLUS polishing soap, other metals such as stainless steel, copper, brass, bronze, pure aluminium, gold, chrome, polished tin, etc. can also be polished.



## HOW IT WORKS

The items to be polished are placed in a mass of hardened and highly polished steel balls together with a soap solution acting as a lubricant. The items to be polished can be loaded and unloaded while the machine is running.

The polishing time depends on the surface condition of the items to be polished and on the hardness of the metal. The cutlery can be removed from the machine after the polishing process using a collecting basket.

The compartment device is used to polish larger objects and is designed to prevent them from damaging each other during polishing (plates, lids, jugs, candlesticks, etc.).



## POLISHING DURATION AND INTERVAL

The first 5 - 10 treatments of heavily used cutlery should take about 30 minutes to regenerate and harden the metal surface. After that, regular maintenance of about 3 - 10 minutes every 8 - 10 days is usually sufficient. Stainless steel and hard silver-plated cutlery require a longer treatment time.

Prolonged or frequent ball burnishing does not damage the tableware; on the contrary, the metal surface is only improved and becomes harder.

## AFTER BALL BURNISHING

After polishing, the treated parts are rinsed with warm water and dried.





BALL POLISHING MACHINE

# POLISTAR★ SILVER

- ✓ CE certified
- ✓ Suitable for all metals such as solid silver, silver-plated or gold-plated items, copper, brass, bronze, aluminium, stainless steel and chrome-plated surfaces
- ✓ Uses the latest technical advances in terms of material selection and mechanics
- ✓ Constant belt speed
- ✓ Emergency stop button
- ✓ Debris basket for cutlery with mesh size 10x10mm
- ✓ Debris basket for special applications (e.g. jewellery) with mesh size 5x5 and 8x8 available
- ✓ Separator for e.g. cups, plates, jugs
- ✓ Easy maintenance

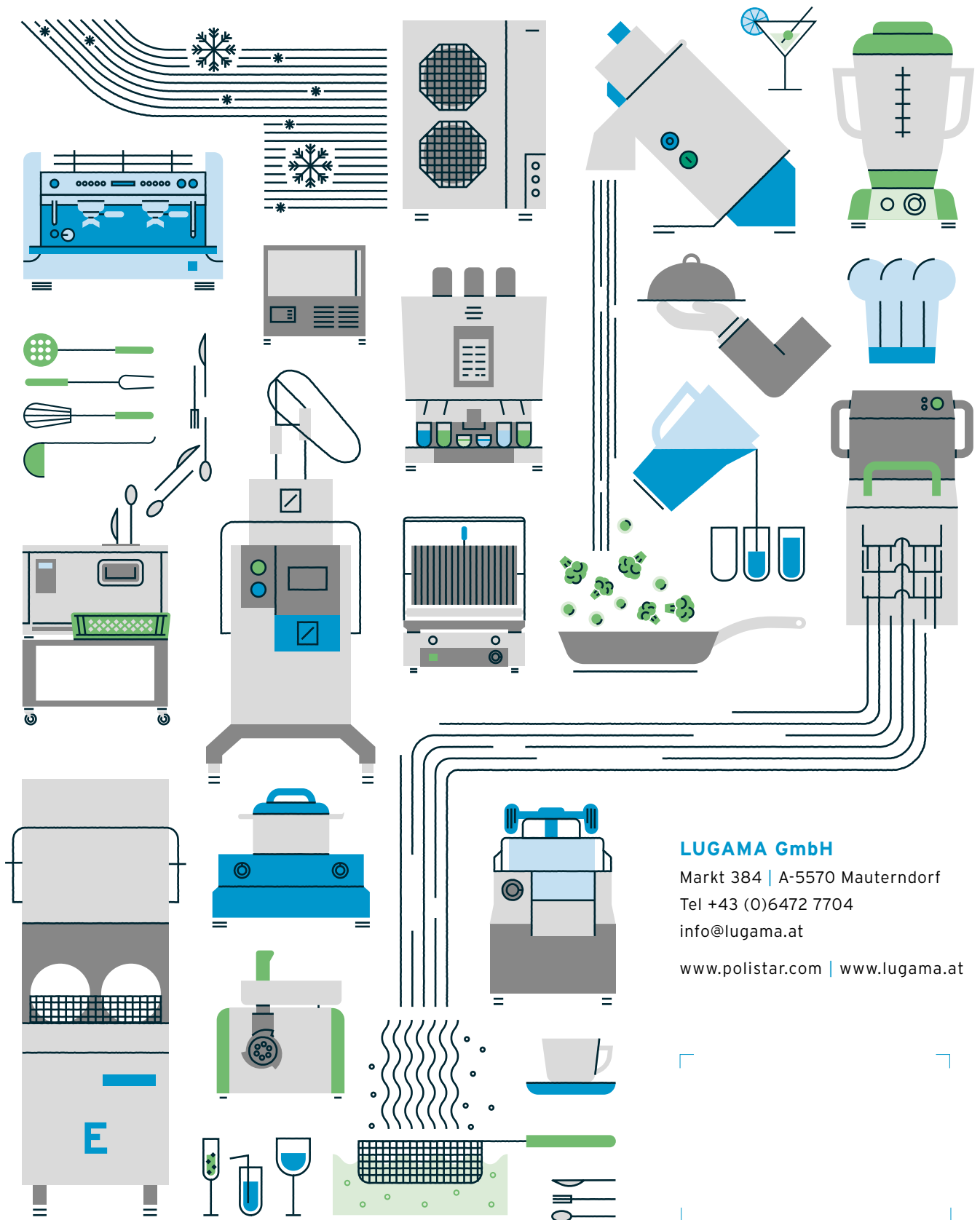


## TECHNICAL DATA

Type	POLISTAR SILVER
Conveyor speed	constant 40 cm/second
Size polishing trough	DM 310x430 mm
Dimensions	B 560 x T 635 x H 900 mm
Weight	81 kg (without polishing balls)
Power input	300 W
Operating voltage	230 V/50 Hz (110/115V, 400V, 60Hz on request)
Certification	CE



# POLISTAR<sup>★</sup>



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