

### Internal cleaning unit for steel cylinders, model IRM-600-A

The manual internal cleaning unit model IRM-600-A is designed for cleaning the inside of steel cylinders, for example diving and breathing apparatus cylinders. With the special brush the inside of the cylinder will be cleaned very gently.



The rotation of the cleaning brush controlled by frequency converter is approximately 1450 rpm. The continuously height adjustment by toothed rack worm drive with hand wheel has to be operated manually.

With different special brushes all cylinder diameters can be cleaned.

The maximum cylinder dimensions are max. 580 mm length and max. 220 mm diameter. (different sizes and diameters on request)

The unit is equipped with a Makrolon safety-glas and a manual clamping device.

The material grade of all components is made from aluminium or stainless steel, this guarantees the long-life cycle of all components.

**IRM-600-MP** (No. 703 000)  
incl. pneumatic clamping device



## TECHNICAL DATA

Dimensions (l x w x h):	approx. 800 x 500 x 2000 mm
Motor:	230/400 V, 1.5 kW, 1480 U/min
Weight:	approx. 95 kg
Cleaning brush:	stainless steel
Clamping unit:	manual
Colour:	hammer finish painted blue

**Internal cleaning unit for steel cylinders model IRM-1100-A**  
**The SPS-controlled internal cleaning unit model IRM-1100-A is designed for cleaning the inside of steel cylinders, for example diving and breathing apparatus cylinders. With the special brush the inside of the cylinder will be cleaned very gently.**



The rotation of the cleaning brush controlled by frequency converter is approximately 1450 rpm. Therefore we guarantee, that the inside of the steel cylinder will be cleaned completely from rusty deposits.

With different special brushes all cylinder diameters can be cleaned. The maximum cylinder dimensions are max. 800 mm length and max. 220 mm diameter. (different sizes and diameters on request)

The continuous adjustment allows the user to change between diving cylinders, breathing apparatus cylinders or fire extinguisher cylinders with small conical, large conical or cylindrical throat with a only few work steps.

The unit is equipped with all safety-related components, like controlled door locking device, emergency stop button, automatic limit switch, etc.

The material grade of all components is made from aluminium or stainless steel, this guarantees the long-life cycle of all components.

## TECHNICAL DATA

Dimensions (l x w x h):	approx. 1100 x 600 x 2500 mm
Motor:	230/400 V, 1.5 kW, 1480 U/min
Cleaning brush:	stainless steel
Clamping unit:	pneumatic
Cleaning time:	< 60 sek.

The SPS-controlled internal cleaning unit, model IRM-2000-A is designed for cleaning the inside of steel cylinders, for example diving and breathing apparatus cylinders. With the special brush the inside of the cylinder will be cleaned very gently.



The rotation of the cleaning brush controlled by frequency converter is approximately 1450 rpm. Therefore we guarantee, that the inside of the steel cylinder will be cleaned completely from rusty deposits.

With different special brushes all cylinder diameters can be cleaned.

The maximum cylinder dimensions are max. 2000 mm length and max. 300 mm diameter.  
(different sizes and diameters on request)

The continuous adjustment allows the user to change between diving cylinders, breathing apparatus cylinders or fire extinguisher cylinders with small conical, large conical or cylindrical throat with a only few work steps. The unit is equipped with all safety-related components, like controlled

## TECHNICAL DATA

Dimensions (l x w x h):	approx. 1100 x 1000 x 5500 mm
Motor:	2.2 kW – 230/400 V, 1480 U/min
Pulley:	1.2 kW – 230/400 V (speed adjustable)
Cleaning brush:	stainless steel
Cleaning time:	1 – 2 min (depends on the adjusted speed)
Compressed-air:	2.5 – 4 bar (pneumatic clamping unit)

door locking device, emergency stop button, automatic limit switch, etc.

The material grade of all components is made from aluminium or stainless steel, this guarantees the long-life cycle of all components.

**The machine for external cleaning, model ARM removes labels, stickers and varnishes from the top surface of steel bottles.**

The machine is equipped with a soundproof cabine. The cleaning process of the steel bottles is effected by two rotating steel brushes. Due to the integrated height adjustment, steel bottles can be cleaned from 500 mm up to 1900 mm height. The diameter of the steel bottles can be 110 mm to 230 mm.

Through the inspection window on top of the front door, you are able to observe the whole cleaning process. Dust and abrasion will be extracted from the cabine with a separate suction feature.

The filter integrated in the suction feature is to eliminate the dust. Filter cleaning is effected pneumatically. Sucked materials are collected in a drawer.



### TECHNICAL DATA

Construction:	steel construction with aluminium casing
Motor:	230/400 V, 32 A, 50 Hz
Compressed-air:	8 bar
Dimensions (l x w x h) plus control panel:	approx. 1200 x 1100 x 3200 mm
Max. working height:	4200 mm
Colour:	hammer finish painted blue

The suction unit is to suck dust and lacquering particles arising on brushing the steel cylinders.

**The unit consists of:**

- » Manual filter cleaning
- » Dust drawer
- » Suction hose Ø 2 m

**Optional available at extra charge:**

- » Equipped with pneumatic filter cleaning



### TECHNICAL DATA

Dimensions (l x w x h):	approx. 700 x 900 x 1850 mm
Weight:	approx. 170 kg
Motor:	230/400 V, 50/60 Hz, 1,5 kW
Colour:	hammer finish painted blue

The lacquering cabin, model LK-1800 is an expandable extra module for lacquering single bottles in direct operation sequence after the external leaning. It offers a dustproof room and is the perfect addition to the liquid paint.



**The unit consists of:**

- » Manually adjustable cylinder clamping
- » Lockable door
- » Electrically driven turn table

**Optional available at extra charge:**

- » Equipped with more lacquering places
- » Equipped with suction feature
- » Appropriate for different cylinder height and diameter
- » Screwed adaptor to remove the cylinders with different thread

## TECHNICAL DATA

Construction:	aluminium
Dimensions (l x w x h):	approx. 1000 x 1000 x 2100 mm
Floor duct:	approx. 600 x 600 x 600 mm
Weight:	approx. 170 kg
Motor:	230/400 V, 50/60 Hz, 0,55 kW, 36 rpm
Colour:	hammer finish painted blue

