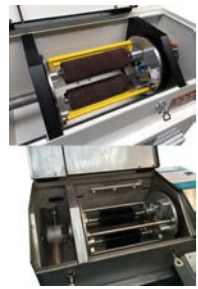


ROTATING BRUSHES



The BMG-RBS is a compact brushing system for the in-line removal of loosely adhering surface contaminants primarily from pipes and rods. The system can also be used for roughening and polishing in-line.

The BMG system is available in two versions, as dry brushing unit and, supplemented by a liquid circuit with tank, filter unit and pump, as wet cleaning unit. In both cases, the material to be cleaned passes through a rotating unit with two or three, also rotating brush rows. In the wet cleaning variant, the cleaning medium is sprayed onto the brushes in the cleaning chamber with the aid of nozzles.



Depending on the application and material, brushes from the standard range of various manufacturers are used. The round brush packages fixed on the brush shafts can be quickly and easily exchanged.

Removed contaminants are collected in a removable dirt collector. In the wet brush system, the medium is circulated through a filter unit and the particles are separated. Optionally, the system can be equipped with a suction channel.

FEATURES / TECHNICAL SPECIFICATION:

- Continuously adjustable brush shaft infeed, manual or pneumatic
- Rotational speed infinitely adjustable via frequency converter; digital speed indicator; gear motor 2,2 kw; motor brake
- Electrical cover lock; control cabinet; operation panel
- Heated and insulated tank; pump; filter unit; level and temperature sensors; floor pan (wet cleaning unit)
- Spray nozzles; Blower drying (wet cleaning unit)
- Material-Ø: 10,0 - 60,0 mm / 0.4" - 2.4" (depending on the design)
- Max. line speed: depending on application
- Passage height: 1000 mm
- Brush-Ø 100 mm, length max. 300 mm
- Drive (system/brush shaft): 25 – 200 rpm / 100 - 800 rpm
- Electrical connection: 400 V AC; 16 A, 50 Hz
- Dimensions (lxw): 1000 x 1400 mm

MECHANICAL CLEANING SYSTEMS for Wire, Strip, Cable, Tube

- ▶ Brushing
- ▶ Wiping with textiles



WIPING WITH NON-WOVEN TAPES / TEXTILE TAPES



The patented Primary Wire Wipe System (PWW) is an environmentally friendly and cost effective unit for reducing particulate surface buildup and excess drawing lubricants and oils on thin wires and tapes.



The material to be cleaned passes through two mirror-inverted arranged strips of nonwoven tapes moving in opposite directions at a predetermined creep speed. The guiding of wire is normally carried out transversely to the two cleaning tapes. Tapes are passed in opposite direction along the strip material. The constant traverse rate of the cleaning tape across the wire and the controlled contact pressure ensures a covering and continuous supply of fresh cleaning tape to the wire. In this manner the wire does not come into contact with contaminated wipers as is the case when traditional methods like rags, sponges or stationary felt pads are used.



The standard system is designed for wires up to 2 mm in diameter and tapes up to 120 mm in width. In the design as TWIN PWW with four nonwoven rolls and supplemented by a vertically arranged pair of pressure plates, wire diameters up to 4 mm can be treated.

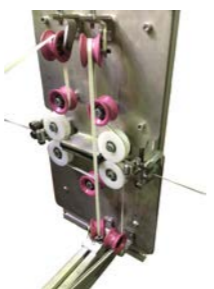
- Connections: compressed air 2.5 bar; 230V
- Passage height: 1000 - 1285 mm
- Dimensions PWW (wxd): 570 x 450 mm



The LS-WST system applies liquid media or solids dissolved in liquid via a dosing system and a textile tape on wires with round or rectangular cross sections.

The system consists of two modules. In addition to the controller, the drive unit houses a stepper motor for belt transport as well as a dosing system. In the separate process zone, a textile tape is wrapped around the wire. By means of the metering system, liquid is applied uniformly to the wire surface via an applicator. Due to the extremely small dimensions, the process zone can be flexibly integrated into the line.

The dosage is gravimetric or with a micro gear pump. Depending on the installed system, liquids with a viscosity below 100 mPas in the range of 0.1 to 3 ml/min can be applied to the textile tape. The continuous, infinitely adjustable transport of the belt also ensures that always clean tape is in contact with the wire.



For light cleaning tasks, the drive unit of the LS-WST basic module can be supplemented by optional modules with flexible tape guidance. Common to all system combinations is the extremely small footprint.

The LS-WST system is suitable for wire diameters from 0.1 mm (.004") to 10 mm (.4").

FEATURES / OPTIONS:

- Liquid supply (optional)
- Enclosure (optional)
- Electrical integration (optional)

FEATURES / OPTIONS:

- Liquid supply (optional)
- TWIN Module (optional)
- Dry cleaning (optional)

BRUSHING with ROTATING SPIRAL BRUSHES



Brushing machines with rotating spiral brushes are compact systems for the mechanical in-line treatment of round materials. For this purpose, the material passes through a spiral brush fixed in a rotating unit. The rotation boosts the wiping effect of this proven tool and effectively reduces the dirt build-up on the bristles. Depending on the application and material the brushes can have synthetic, brass coated steel or stainless steel bristles.



The system DRB-WCS consists of a clad frame with a stainless steel tub. Inside the lidded box a separate compartment houses a rotating unit to fix one cut-to-length spiral brush. If required, an optional air nozzle type AW-C can be installed in another chamber to finally blow off any remaining loose particles. Removed dirt can be collected or extracted via an exhaust connector. To change a used spiral brush the two-part rotation unit can be opened and a new brush inserted.

Complemented by spray nozzles, which apply cleaning medium from a separate tank in the circuit to the rotating brush, the extended system DRB-WCS-W works as a wet chemical cleaning which can be used for the reduction of drawing lubricants and oily contamination.



The compact brushing system DRB-SCS has a similar structure as the big brother DRB-WCS. Concentrated on a small work box with docked control cabinet, the unit requires only about 420 mm of space.

The DRB-WCS and DRB-SCS brush cleaning units are successfully used for:

- Removal of scale residues, metal particles and dust; reduction of drawing agent residues such as calcium and sodium stearate; reduction and uniform leveling of release agents such as talcum on insulated conductors.

FEATURES :

- Rotational speed infinitely adjustable via frequency converter; digital speed indicator; motor brake; electrical cover lock

TECHNICAL SPECIFICATION DRB-WCS:

- Spiral Brush: Ø 57 mm; length approx. 300 mm
- Wire-/tube-Ø: 0,5 - 17,0 mm (.02" - .67")
- Three-phase motor: 42,5 – 600 rpm
- Electrical connection: 400 V AC; 16 A
- Dimensions (lxw): 850 x 860 mm
- Wire centerline height: 800 - 1200 mm

TECHNICAL SPECIFICATION DRB-SCS:

- Spiral Brush: Ø 40 mm; length approx. 150 mm
- Recommended wire-/tube-Ø: 0,1 - 5,0 mm
- Step motor: 20 -300 rpm
- Electrical connection: 230 V (115 V optional)
- Dimensions (lxwxh): 420 x 570 x 250 mm

FEATURES / OPTIONS:

- Connection for external extraction
- Air Wipe (optional)
- Height-adjustable feet (DRB -WCS)

- Work tub & rotation unit made of stainless steel
- Passing direction selectable (DRB -WCS)