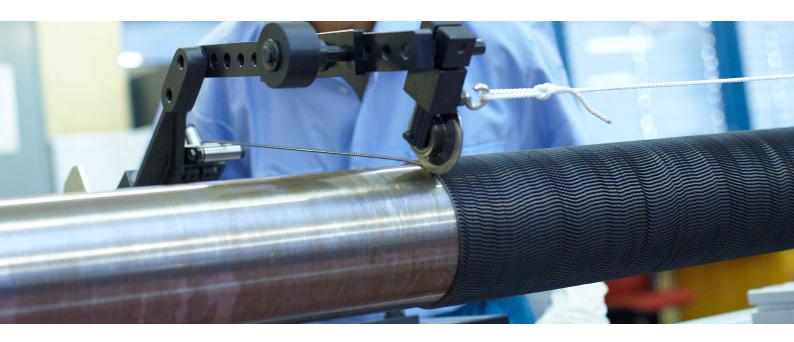




Service

Carding & Nonwoven ITMA Asia





High level of vertical integration, reliable processes

Its high-quality products have made Graf a leading supplier worldwide. Since 1917, Graf has manufactured innovative metallic card clothings, flat clothings, stationary flats, metallic card clothing for roller cards as well as combs for combers.

The company's wide range of services as a system provider covers the entire scope from the products to technical consultancy, service through to service machinery. Graf also supports its customers with individual solutions for all areas of application. At the European production sites, everything is manufactured in-house, from profile wires through to card wires, and from the foundation material through to the end product. This high degree of vertical integration ensures the Graf Group's comprehensive process reliability and outstanding quality.



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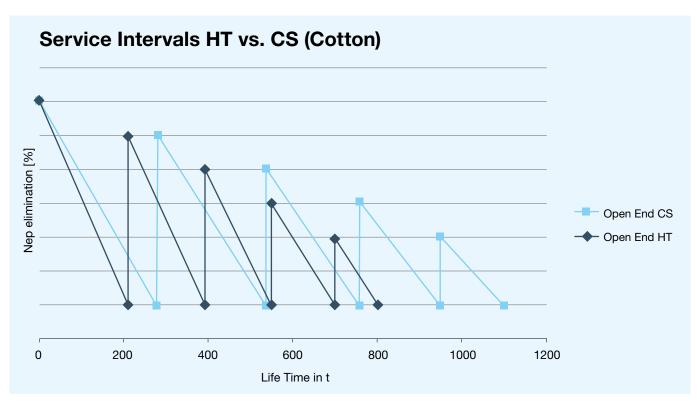


The comprehensive range of Graf service machinery takes individual customer requirements into consideration. The precise and sturdy machines are suitable for the clothing maintenance on cards from all manufacturers. Perfectly matching to the geometries of Graf clothings, cards can be reclothed and maintained within the shortest time by using Graf service machinery.





Service pays off

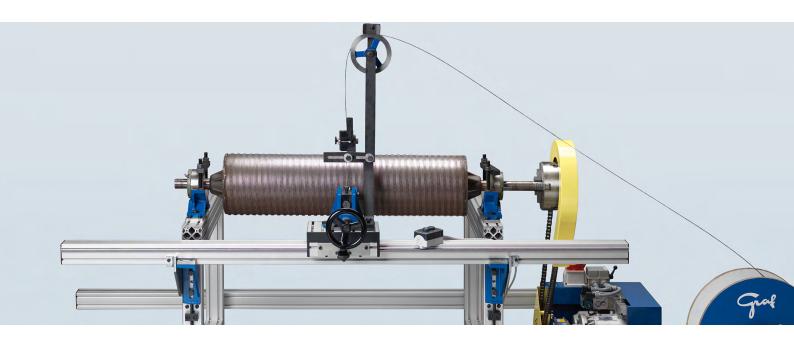


Comparison of life time and service time of clothings in CUTTYSHARP and HT alloys.

Servicing of the clothing extends the life time many times over

The flexible flat clothings, manufactured to the highest levels of precision, have a substantially greater impact on carding quality than the cylinder wire. The number of neps in the card sliver is significantly affected by the condition of the flat tops. Regular servicing of the clothings not only maintains more consistent nep values, but also pays off in economically.





Mounting machines for metallic card clothings

The ROD 35 and/or ROD 35/1 roller appliances are universally adjustable devices for the maintenance of all of the rollers within the card, up to diameters of 700 mm and working widths of up to 1.600 mm. With the ROD 35 it is possible to mount all common metallic card clothings (surface-wound, interlinked and groove-wound). The ROD35/1 allows the mounting of surface-wound and interlinked clothings.

The modular system comprises the ideal combination for all mounting requirements. With the appropriate accessories, cleaning and polishing rollers can be clothed with the respective fillets. The universally adjustable winding machine guarantees reliability and flexibility in the reclothing of rollers and ensures cost-effective time management.



GAV - metallic wire mounting equipment



Technical specification

Drive rating: 1.5 kW
Drive weight: 106 kg
Butt welder rating: 2.0 kW
Butt welder weight: 15 kg
Stripping reel rating: 0.75 kW
Stripping reel weight: 64 kg

Product details

- The upper part of the GAV consists of a tensioning device, dressing and pre-bending rollers
- The clothing can be optionally mounted with a press-on finger or a press-on roller
- A cable control with recoil brake ensures the thight fetting of the individual wire threads.
- The rotational speed can be steplessly adjusted from 0-200 m-1.
- Universal chain drive wheel with three-jaw chuck, steplessly adjustable for shaft diameters from 30 – 120 mm
- Reel stand with shaft and brake to receive the new clothing coils
- Mounting tools with soldering iron (300 Watt), soldering material, chisel and caulking tool are included in the basic equipment
- CE conformity

Benefits to the customer

- The fine adjustment of the tensioning device allows even inexperienced personnel to precisely adjust the mounting tension according to the base width of the wire to be installed
- The adjustable dressing and pre-bending rollers ensure that even clothings with small base widths stand upright

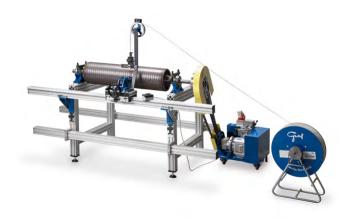
GAV

GAV is the abbreviation for an universally applicable device for mounting metallic card clothings in standard and interlinked execution for all cards. This modular system allows you the ideal combination, based on your actual requirements.





ROD 35 - Roller clothing appliance



ROD 35 for surface-wound, interlinked and groove-wound clothings

Depending on the version, the ROD 35, can be used for the mounting of surface-wound, interlinked or groove-wound metallic card clothings as well as for cleaning and stripping rollers equipped with flexible fillets. With the respective accessories the reworking of damaged or cleaning of soiled grooves as well as the cleaning of soiled rollers and the removal of residues are possible.

Technical specification

Weight of complete basic equipment: 216 kg
GAV drive rating: 1.5 kW
Frame weight: 192 kg
GAV drive weight: 89 kg

Product details

- Mounting frame made from aluminum profile
- GAV upper part and tensioning device for the clothing of all surface-wound rollers with standard and interlinked clothings (not included in the basic equipment)
- Large and small V-bearing brackets to suit all roller bearings
- Universal chain drive wheel with three-jaw chuck, steplessly adjustable for shaft diameters from 30 – 120 mm
- Mobile drive unit, comprising a reversible, hydrostatic variator with electrical remote control, speed steplessly adjustable between 0-200 min-1 (not included in the basic equipment)
- Mounting tools with soldering iron (300 Watt), soldering material, chisel and caulking tool are included in the basic equipment
- CE conformity

- All rollers can be easily, efficiently and safely reclothed with standard, ie surface- or groove-wound or interlinked clothings
- The modular system allows the use of existing GAV components (upper part, drive unit)
- Simple installation of all flexible clothings on to cleaning and stripping rollers





ROD 35/1 - Roller clothing appliance



ROD 35/1 for surface-wound rollers, with standard or interlinked clothings

The ROD 35/1 is a universally adjustable device for the reclothing of all small, surface-wound rollers of cards and openers up to 700 mm diameter and 1.600 mm working width. The modular system allows you the ideal combination based on your actual requirements.

Technical specification

Weight of complete basic equipment: 216 kg
GAV drive rating: 1.5 kW
Frame weight: 192 kg
GAV drive weight: 89 kg

Product details

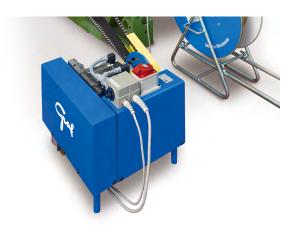
- Mounting frame made from aluminum profile
- GAV upper part and tensioning device for the clothing of all surface-wound rollers with standard and interlinked clothings (not included in the basic equipment)
- Large and small V-bearing brackets to suit all roller bearings
- Universal chain drive wheel with three-jaw chuck, steplessly adjustable for shaft diameters from 30–120 mm
- Mobile drive unit, comprising a reversible hydrostatic variator with electrical remote control, speed steplessly adjustable between 0-200 min-1 (not included in the basic equipment)
- Mounting tools with soldering iron (300 Watt), soldering material, chisel and caulking tool are included in the basic package
- CE coformity

- All surface-wound rollers can be easily, efficiently and safely reclothed with standard and interlinked clothings
- The modular system allows the use of existing GAV components (upper part, drive unit)
- Straightforward installation of all flexbile fillets on to cleaning and stripping rollers





ROD accessories



GAV

A GAV drive is required for all operations. The GAV drive motor is suitable for mounting metallic card clothings in standard or interlinked execution on to all cards.



Mounting kit

Mounting kit for the installation of flexible clothings on cleaning and stripping rollers.





Mounting machines for flat clothings

Today's high-performance cards place the highest demands on the stationary and revolving flats of the cards in order to reach the required production and quality levels. Depending on card types and working width, the flat bars are manufactured from aluminum or cast iron. The special designs and materials of the flat bars of the different types of cards place the highest demands on the flat clipping machine. To allow smaller and larger spinning mills to clip their flat clothings economically, efficiently and with the accuracy required, Graf has developed a range of flat clipping machines.



DAM 100 + DAM 100/1 - Flat clipping machine



Technical specification

Drive motor rating: 2.2 kW
Compressed air supply: 5-6 bar
DAM 100 weight: 1040 kg
DAM 100/1 weight: 1300 kg

Product details

- Machine base in stable welded construction
- · Fully automatic clipping process
- Pneumatic flat-clamping
- Pressure distribution across the flat clothings, without warping the flat bar
- Two eccentric shafts drive the pressure plates and crimp the clips in a single process across the flat bar

Benefits to the customer

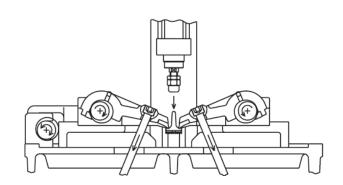
- Maximum precision of the clipped flat bars
- No unnecessary removal of the clothing tips during initial equalizing
- Subsequently increased life time of flat clothings
- Optimal carding gap between the cylinder and flats, and thus, optimal carding- and quality values
- More consistent nep values in the yarn

DAM 100, for working width of 40"

DAM 100/1, for working widths from 40-60"

Graf has developed the DAM 100 automatic flat clipping machine to meet the demands of today's high-performance cards regarding quality and productivity.

This machine is particularly suited to larger spinning mills or service workshops which clip flat clothings on to cast iron or aluminum flat bars economically, efficiently and with the accuracy required today.





DAM 25 + DAM 25/1 - Flat clipping machine



Technical specification

Compressed air supply: 4–5 bar
Drive motor rating: 0.75 kW
Clipping slide feed rate: 4 m/min
DAM 25 weight: 492 kg
DAM 25/1 weight: 632 kg

Product details

- Automatic clamping and clipping process
- Extremely sturdy construction design with ground guide beams
- Clipping slide with electro-pneumatically actuated roller units
- Adjustable clipping rails, pre-bending and forming rollers
- Vertical clamping of the flat top with 4 and 6 pressure cylinders respectively
- Ground clipping rails suitable for the flat type in question
- Clipping rails for the mounting of stationary flat clothings on to cast iron or aluminum bars
- CE conformity

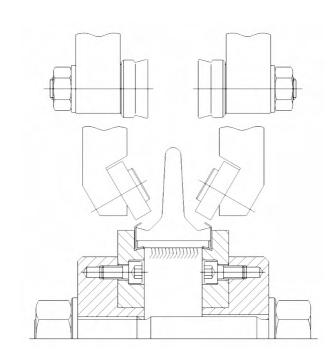
Benefits to the customer

- Optimal positioning of the flat top and accurate crimping of the clips
- Maximum precision of the clipped flat bars
- No unnecessary removal of the clothing tips during initial equalizing and subsequently increased life time of the flat clothings
- Optimal carding gap between the cylinder and revolving flats, and thus, optimal carding quality
- More consistent nep values in the yarn

DAM 25 for working widths from 37"-40"

DAM 25/1 for working widths from 37"-60"

GRAF has developed the DAM 25 and DAM 25/1 automatic flat clipping machines to meet the demands of today's high-performance cards regarding quality and productivity. These machines can be used in small- to medium-sized spinning mills to clip flat tops on to cast iron or aluminum flat bars economically, efficiently and with the accuracy required today.





DAM 15/1 - Flat clipping machine



Technical specification

Compressed air supply: 4–5 bar
Drive motor rating: 0.74 kW
Clipping slide feed rate: 4 m/min
DAM 15/1 weight: 330 kg

Product details

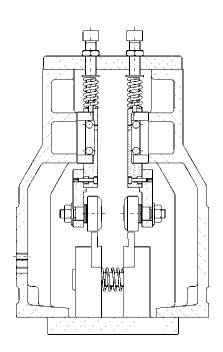
- User-friendly
- Automatic horizontal clamping of the flat clothing with 4/6 pressure cylinders
- Ground, card-specific clipping rails
- Clipping slide with spring-actuated roller units
- Adjustable clipping rails, pre-bending and forming rollers
- Maintenance-free threaded drive spindle
- Manual lateral clamping of the flat bar
- Automatic clipping process
- CE conformity

Benefits to the customer

- Optimal positioning of the flat top and accurate crimping of the clips
- Maximum precision of the clipped flat bar.
- No unnecessary removal of the clothing tips during initial equalizing
- More consistent nep values in the yarn

DAM 15/1, for working width of 60"

Most of today's high-performance cards are fitted with aluminum flat bars. The semi-automatic DAM 15/1 allows even smaller spinning mills to clip their flat clothings on to aluminum flat bars economically, efficiently and with the accuracy required today.





DAM accessories*



Flat stripping device

Product details

- Beam with 2 pneumatic clamping devices
- Stripping wedge linked to the clipping slide

Benefits to the customer

- No warping of the aluminum bar when stripping the used clothings
- No damage to the flat glazing or contact surfaces



Control device for bare and clothed flat bars of 40" and 60" working width

Product details

- Precise measuring beam with digital or analogue dial gauge
- Allows accurate measurement of the flats with or without clothing

- Proof of quality of service provided
- Basis for correct setting of card (lowest flat is known)

^{*} not available for DAM 100 and DAM 100/1



DABM - Flat stripping machine



DABM for working widths of 40-60"

The flat stripping machine is used for the gentle and correct removal of worn flexible flat clothings from the flat bars. The dimensions and tolerances of the flat bars of today's high production cards no longer allow the manual stripping of worn flexible flat clothings as there is a considerable danger that the flat bars are deformed and damaged.

To simplify this operation and to provide the process with the necessary precision and efficiency, Graf has developed the DABM flat stripping machine.

Technical specification

• Motor rating: 0.75 kW (0.65 kW USA)

Motor cleaning unit rating: 0.55 kW

Speed of stripping wedge: approx. 200 mm/s

Weight: 280 kgCompressed air supply: 5-6 bar

Product details

- Sturdy machine base
- Steplessly adjustable between 40-60"
- Instantaneous clamping with pneumatic clamping device
- Stripping wedge made of tempered steel, mounted on ball-screw spindle
- Maintenance-free three-phase motor with toothed belt
- CE conformity

- Simple, secure and time-saving mechanical removal of worn flat strips from the aluminum or cast iron flat bars
- No elaborate manual stripping,
- No damage to the glazed surface of the flat bar
- Prevents potential twisting of the flat bar







Sharpening machines

Metallic card clothings and flat tops, manufactured to the highest levels of precision, have a significant impact on the carding quality. Only card clothings which are burr-free and manufactured to a high degree of accuracy provide optimal carding results, and are thus essential to the consistency of the nep values and yarn quality. For this reason, Graf offers high-quality sharpening machines, allowing all spinning mills to equalize and resharpen, their card clothings economically, efficiently, and to the level of precision required today.



TSG - Traversing resharpening device



TSG for working widths from 40"-60"

The activating of today's high-performance metallic card clothings demands high skills of the operating personnel. It is very difficult, even for experts, to resharpen the extremely fine tips of the clothing burr-free with conventional grinding equipment.

It is almost impossible with the CUTTYSHARP alloy, as clothings made from this high-alloy tool steel generate almost no sparks during the resharpening process with a rotating grinding stone, thus allowing no visual checking of the process. Correct maintenance of these high-quality clothings can only be ensured by using a TSG.

Technical specification

• Motor rating: 0.09 kW

• Supply voltage: 230 V, 50 or 60 Hz, 1 phase

Resharpening stone contact

pressure: 1 Newton

Drum Traversing speed cylinder: 6 m/min

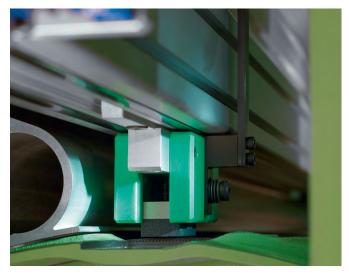
Collector Traversing speed doffer: 1 m/min

• Total weight: 21 kg 40" 22 kg 51" 23 kg 60"

Product details

- Traversing grinding head with stationary grinding stone
- Linear unit with drive motor and toothed belt for the traversing motion
- Two different traversing speeds for cylinder and doffer can be selected on the control panel
- Reduced traversing speed at the reversing point
- The traversing movements are monitored by a passage counter
- Simple and easy to use, even for unskilled personnel
- Maintenance-free grinding device
- CE conformity

- Suitable for use on all high production and most conventional cards
- Grinding pressure precisely defined by spring pressure (prevents excessive grinding)
- Burr-free activating of the tooth points of cylinder and doffer wires leads to optimal carding results
- Multiple resharpening of the clothings is possible since the abrasion is minute and controlled (extended service life)
- The clothing tips are activated evenly across the entire width of the card





ASG - doffer resharpening device



ASG for working width of 60"

The new ASG doffer resharpening device has been developed to activate and re-sharpen doffer wires on Rieter C60 / C601 / C70 high-performance cards safely, burr-free and cost-effectively.

Only a correctly treated doffer wire assures the optimal transfer of the fibers from the cylinder to the doffer from the very beginning. This thus ensures optimal card sliver quality.

Technical specification

Weight: 4 kgLength: 1.600 mm

Product details

- Manual traversing movement
- The lightweight aluminum structure as well as the chromium steel guide rails are both corrosion-resistant and maintenancefree.
- Built-in safety device provides protection from accidents during resharpening
- Ball bearing roller guide

- · Consistent, optimal grinding pattern
- Reproducible resharpening
- Simple to operate & install
- Constant grinding pressure (spring-loaded)
- Visible and open working area
- Increased work safety





DSM 20 + DSM 20/1 - Flat grinding machine



Technical specification

Rating of motor driving roller: 0.74 kW
Speed of ceramic grinding roller: 1.410 min-1
Number of strokes of slides: 50 / min
Rating Feed drive motor: 0.18 kW
DSM 20 weight: 420 kg
DSM 20/1 weight: 610 kg

Product details

- Very sturdy machine base
- Card-specific grinding plates to match the inclination of the flat seatings
- Simple conversion of DSM 20/1 from 37" to 60" flat bars
- Precision anti-friction slide rolling table and sophisticated mechanics for the traverse movements of the grinding roller and the flat bar
- Control and trueing device for monitoring the straightness of the flat clothings and the precise trueing of the grinding roller are part of the machine
- CE conformity

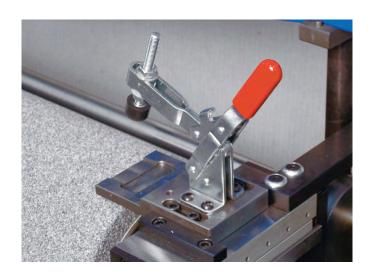
Benefits to the customer

• Extremely straight flat clothings following equalizing

DSM 20 for working widths of 37"-40"

DSM 20/1 for working widths of 37"-60"

Our flexible flat clothings, manufactured to the highest levels of precision, have a significant impact on the carding quality. Only flat clothings which are burr-free and sharpened to a high degree of accuracy provide optimal carding results. For this reason, Graf has developed the DSM 20 and DSM 20/1 flat grinding machines, allowing on which all spinning mills to equalize can level, and resharpen if necessary, their flat clothings economically, efficiently, and to the level of precision required today.





DSW - Flat grinding roller



Technical specification

Drive motor rating: 0.75 kW
Drive motor speed: 1.400 min-1
Drive motor weight: 15 kg
Grinding roller speed: 800 min-1
Weight without motor: 28 kg

Product details

- Lightweight aluminum roller with feed slide and fine adjustments
- Card-specific brackets for attachment
- Traverse gear ensures uniform abrasion during resharpening and even wear of the emery fillet
- Maintenance-free three-phase drive motor
- Transport trolley can is available
- CE conformity

Benefits to the customer

- The grinding roller is equipped with emery fillet
- The tooth tips are resharpened from the rear
- The flat tops can be resharpened or equalized multiple times in an efficient manner
- This significantly improves the consistency of the nep values in the yarn

DSW for 40"-60" working widths

The flexible flat tops, manufactured by Graf to the highest levels of precision, have a considerably greater impact on the carding quality than the cylinder clothing. The number of neps in the card sliver is significantly affected by the condition of the flat clothings.

Graf has developed the DSW flat grinding roller for equalizing or periodically resharpening the flat clothings directly on the card economically, efficiently and with the precision required.

With the DSW, flat tops can be re-sharpened up to 4 times. It thus significantly influences the consistency of nep values and the yarn quality.





TSA - Traverse wheel grinder



TSA for 40"-60" working widths

The TSA was developed for the grinding of all traditional metallic card clothings on conventional cards and their rollers. Only clothings which are burr-free and sharpened to a high degree of accuracy provide acceptable carding results.

Technical specification

Drive motor rating: 0.75 kW
Drive motor speed: 1.400 min-1
Drive motor weight: 10 kg
Grinding head speed: 800 min-1
Grinding head traversing speed: 4 m/min

• Weight without drive motor

at 40": 47 kg at 60": 71 kg

Product details

- Ground guide tube with grinding head and needle bearings
- Traversing movement of the grinding head by means of a cross spindle and tempered dog
- Maintenance-free, slip-on three-phase motor
- Blue ceramic grinding stone Vitomarin
- CE conformity

- The very accurate grinding machine guarantees an extremely straight cylinders and doffers, regardless of possible run-out of the bare cylinder
- Simple and easy to install with the existing card-specific grinding bearings
- The TSA can also be used to correct bare cylinders and doffers if the run-out of the bare roller exceeds a tolerance of 0.02 mm





GSA - Bare cylinder grinder



GSA for working widths of 40"

The bare cylinder grinder is used to rectify bare cylinders and doffers if the run-out and straightness exceed the tolerance values. In order to be able to guarantee optimal carding results, the deviation in the run-out of the roller must not exceed 0.02 mm.

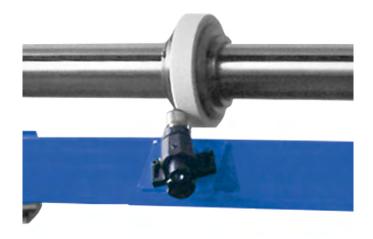
Technical specification

Drive motor rating: 0.75 kW
Drive motor speed: 1.400 min-1
Drive motor weight: 10 kg
Grinding head speed: 800 min-1
Grinding head traversing speed: 1 m/min
Weight without drive motor: 47 kg

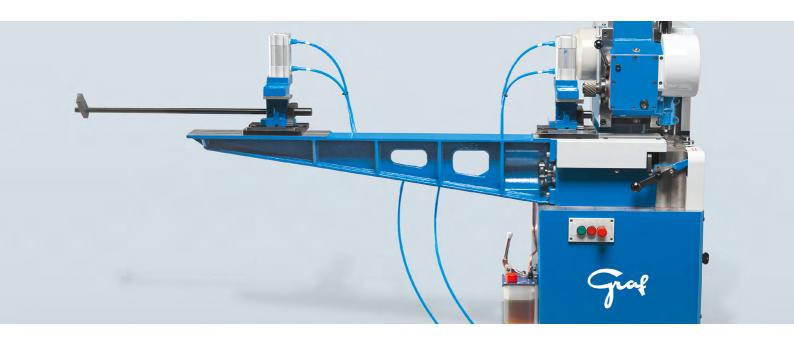
Product details

- Ground guide tube with grinding head and needle bearings
- Traversing movement of the grinding head by means of a cross spindle and the tempered dog
- Maintenance-free, slip-on three-phase motor
- White ceramic grinding stone Vitoneva
- CE conformity

- No unnecessary removal of the tooth tips during initial equalizing thanks to very precise roller bodies
- Simple and easy to install with the existing card-specific grinding bearings
- No heat-related warping of the rollers thanks to the narrow grindstone







Milling machines

Flat end-milling machines are used to mill the seatings (left/right) of cast-iron and aluminum flats with or without plastic slide shoes following a certain amount of wear in order to ensure optimal positioning of the flat on the flat bend. The flats can thus be optimally set, leading an extended life time of the flat clothings and improved carding quality.



DKF 10 - Flat end milling machine



DKF 10, for all cast-iron flatbars (37"-60" working widths) and aluminum flat barss (40"-60") with or without plastic slide shoes

The seatings of the flat bars must be remilled from time to time as these are prone to run-in to varying degrees. In order to be able to mill the flat seatings with the precision required today, Graf has developed the semi-automatic DKF 10 flat end milling machine. This is suitable for all cast-iron and aluminum flat bars, as well as for Rieter aluminum flats with plastic slide shoes.

Technical specification

Compressed air supply: 4–5 bar
Spindle drive motor rating: 1.1 kW
HSS spindle speed: 260 min-1
HM spindle speed: 430 min-1
Feed motor rating: 0.25 kW
Weight: 435 kg

Product details

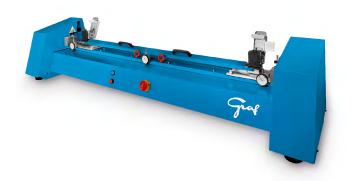
- Quick-change copying templates ensure maximum precision and rapid changeovers between different flat types
- Pneumatic clamping device for all types of flat bars
- · Automatics lifting and lowering of the milling cutter
- Automatic feed and reverse control of return motion
- Optimal feed speed for the milling process
- Choice between 2 speeds of the milling spindle allows the use of HSS or carbide milling cutters
- Milling of the hollow (where required) is possible in a single step
- Economic and efficient in application
- CE conformity

- Universally adjustable for all cast iron, aluminum flat bars and aluminum flat bars with plastice slide shoes
- Quick change-over betwern different types of flat bars
- No unnecessary abrasion of the tooth tips during initial equalizing of the flat tops on the card caused by uneven running-in of the seatings, leading to a longer time of the flat clothings





ESM 150 - Flat shoe milling device



ESM 150 for 60" working widths

The seatings of the plastic slide shoes of the aluminum flat bars of Rieter 60" cards must be milled/replaced from time to time as these are prone to run-in to varying degrees.

Graf offers a compact, easy to use machine for the independent, simple milling in one step of the slide shoes of flat bars from Rieter C60 cards onwards.

Technical specification

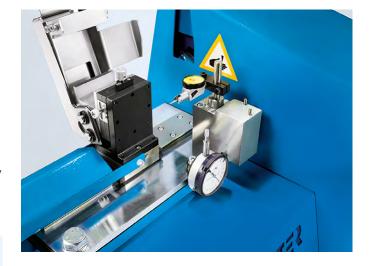
Length: 1.990 mmWidth: 490 mmHeight: 450 mmWeight: 210 kg

• Supply voltage: 110 V / 220 V / 400 V

Product details

- Processing the sliding block in a single clamping of the flat allows the sliding block to be reworked very precisely and rapidly
- The ESM 150 flat shoe milling device has a small, compact design

- Milling of the slide shoe in a single clamping of the flat bar
- The adjustability of the flat is significantly improved by milling
- Low capital investment
- User friendly
- Compact, narrow machine (210 kg)







Top-cleaning machines

Safe, innovative processes and the resulting time savings are important factors to consider when purchasing a card cleaning machine. Graf cleaning machines not only simplify the process by doing away with manual cleaning tasks, they also ensure safety at work. The automated cleaning procedure eliminates manual tasks, which leads to significant time savings and, when applied regularly, also makes a significant contribution to sustained carding quality.



ASW - Stripping roller



ASW for 40"-60" working widths

The stripping roller is used to clean the flat tops. When processing cotton with high honeydew or dirt content, it may be necessary to eject the flat tops. This is particularly the case where the cleaning in the cleaning shop and in the licker-in area, or on order cards undergoing flat cleaning, is not sufficient.

Technical specification

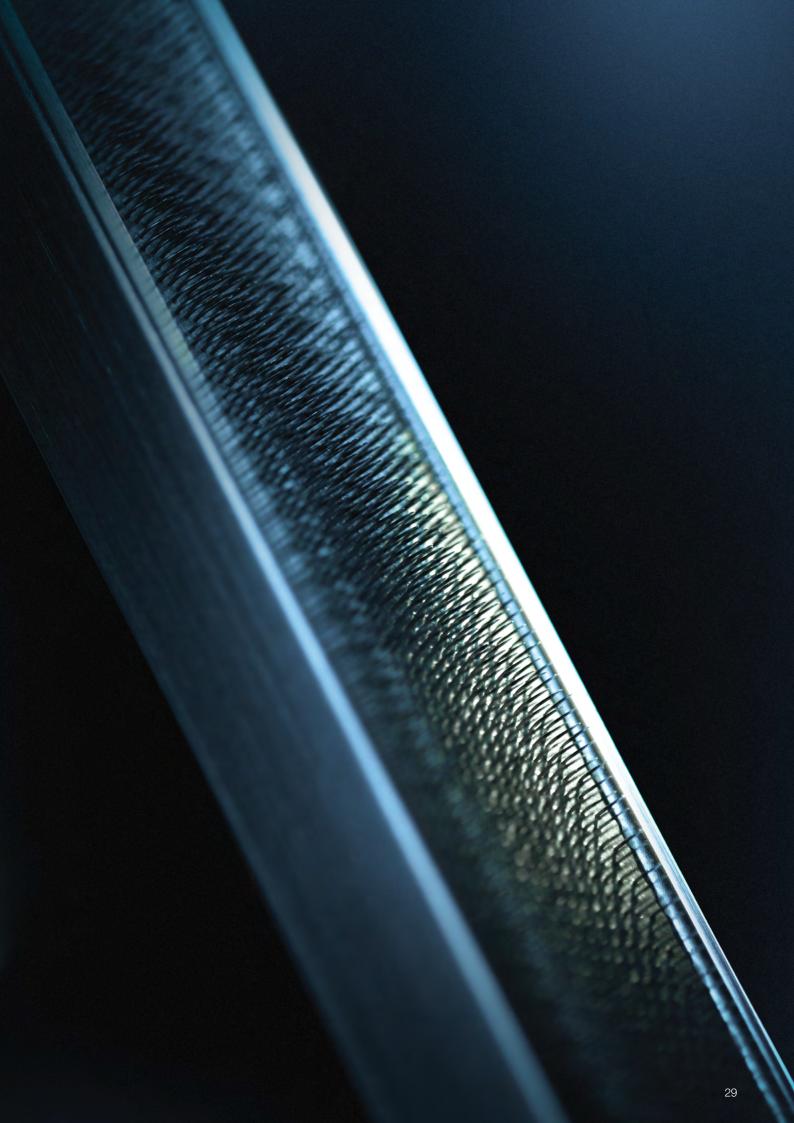
Drive motor rating: 0.75 kW
Drive motor RPM: 1.450 min-1
Cleaning roller RPM: 145 min-1
Drive motor weight: 10 kg
Weight without motor: 28 kg

Product details

- Simple, safe mounting on all cards, such that the die flat tops can be sharpened using the DSW on the card itself
- Flat tops are cleaned using the flexible No. 22 ejection band
- Suction hood for connection to card suction (card-specific)
- The drive operates using a maintenance-free three-phase motor
- CE conformity

- Simple flat top cleaning
- No tedious cleaning with handscrapers
- Improved carding performance and CV% values in the card sliver
- User-friendly thanks to a lightweight aluminum design





Service machinery – Nonwoven

Roller cards have different characteristics than flat cards. The requirements for service machinery relating to widths, fibres processed and wound clothings actually installed therefore also differ. Graf has developed the right solutions in-house for all service requirements on roller cards.





GAV - Stainless steel winding equipment



Technical specification

Drive rating: 1.5 kW
Drive weight: 106 kg
Butt welder rating: 2.0 kW
Butt welder weight: 15 kg
Stripping reel rating: 0.75 kW
Stripping reel weight: 64 kg

Product details

- The upper part of the GAV consists of a tensioning device, dressing and pre-bending rollers
- The clothing can be optionally mounted with a press-on finger or a press-on roller
- A cable control with recoil brake ensures the thight fetting of the individual wire threads.
- The rotational speed can be steplessly adjusted from 0-200 m-1.
- Universal chain drive wheel with three-jaw chuck, steplessly adjustable for shaft diameters from 30 – 120 mm
- Reel stand with shaft and brake to receive the new clothing coils
- Mounting tools with soldering iron (300 Watt), soldering material, chisel and caulking tool are included in the basic equipment
- CE conformity

Benefits to the customer

- The fine adjustment of the tensioning device allows even inexperienced personnel to precisely adjust the mounting tension according to the base width of the wire to be installed
- The adjustable dressing and pre-bending rollers ensure that even clothings with small base widths stand upright

GAV

GAV is the abbreviation for an universally applicable device for mounting metallic card clothings in standard and interlinked execution for all cards. This modular system allows you the ideal combination, based on your actual requirements.





UAV 25 - Universal mounting appliance



UAV for working widths between 1.5-4.5 m

The UAV 25 universal mounting appliance is a universally applicable device for reclothing all smaller rollers outside of the roller card. It allows all plain rollers to be clothed economically, efficiently and with the accuracy required today.

The basic equipment is modular, to allow the use directly on or off the roller card. Generally, transfer rollers, cylinders and doffers are clothed on the roller cardand all smaller rollers are clothed outside on the UAV 25.

Technical specification

• Weight of complete basic equipment: 270 kg

Product details

- Available for working widths of 2.5 m (single-unit aluminum profile) – 3.5m–4.5 m (two-part aluminum profile, with connecting pins)
- Brackets for rollers up to 500 mm outside diameter
- Aluminum guide profile with support for the mounting slide with GAV upper part for installation work on the UAV 25 or for attachment to the roller carding machine (not included in basic equipment)
- Universal chain drive sprocket with three-jaw chuck, steplessly adjustable for shaft diameters 30–120 mm
- Basic tools consisting of set of spanners, chisel and caulking tool
- CE conformity

- Light, very sturdy aluminum profile structure
- Modular construction of the clothing appliance
- Simple, secure mounting outside of the carding machine
- All plain rollers can easily, efficienctly and safely be reclothed with standard and interlinked clothings
- The modular structure allows the use of existing GAV components (GAV upper part, drive unit)





TRG 20 - Traversing cleaning device



TRG 20 for working widths of up to $4.5\ m$

The TRG 20 is a modern device for the cleaning of metallic card clothings directly on the roller card, or on a UAV or similar frame. Impurities between the rows of teeth, such as spinning agent, melted fibres, plant particles, etc. are gently removed using the cleaning blade.

Technical specification

• Weight: 64 kg

Product details

- Cylinder and doffer rollers are cleaned on the roller card, while rollers with smaller diameters are cleaned on suitable supports outside of the roller card (e.g. UAV 25)
- For the efficient cleaning of rollers with large working widths, it is possible to simultaneouslyuse two cleaning heads
- It is recommended to use the GAV drive unit to drive the rollers
- In the event of damaged or twisted teeth, or excessively accumulated material, the blade will automatically retract briefly before returning to its correct working position

- Soiled rollers are cleaned mechanically on the roller card
- The risk of accidents is reduced by the eliminating the manual cleaning
- Increased operational safety







Service and Quality



As a DIN EN ISO 9001:2015-certified company, we produce card clothings according to the latest quality assurance principles. Anywhere in the world, as a customer, you can rely on the same high quality standard for Graf high-performance card clothings.

The ever-greater requirements for increased output, maintaining the same levels of quality place high demands on the products in terms of strain, hardness and stability. Based on these needs we are obliged to introduce and implement measures of improvement in our daily operations.

Permanent supervision, such as the monitoring of goods received, material and execution controls as well as production monitoring comprise a fixed part of our quality assurance. Thanks to our high level of vertical integration as well as the state-of-the-art quality assurance we retain full control over the entire manufacturing processes.

Individual, sustainable solutions

Selecting the correct card clothing is crucially important for high productivity, quality and economic efficiency. The wide range of rollers and specific applications in the field of short- and long-staple fibres requires experienced experts.

Qualified specialists (TKB) provide you with excellent and competent advice in selecting your application-specific card clothings. We support you in establishing tailor-made solutions meeting your requirements. The close cooperation with our research and development department enables our experts to provide efficient, and competent support for all Graf products. Many years of experience in the field of textiles as well as continuous further development make our experts a vital factor for success for spinning mills, non-woven manufacturers as well as machinery manufacturers.

Today's flat cards and roller cards place the highest demands on clothings and their maintenance. In order to ensure trouble-free operation within the spinning mill / non-woven production line, you can access a worldwide service network manned by qualified service specialists. This significantly reduces downtimes and the high costs subsequently involved.

The service benefits to you:

- Experienced and qualified service specialists guarantee optimal results
- Mounting and setting assignments performed on site significantly reduce transport costs.
- High and, consistent carding quality thanks to equalizing and resharpening of metallic card clothings and flat clothings

This expert support, in combination with our high-quality products, ensure the highest performance and carding quality.









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