

# **FLEX**

**Das Original**

Metal and Concrete Working Tools  
2015



# FLEX Innovation - Made in Germany

## Innovation - Made in Germany

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**FLEX** manufactures top performance, quality power tools. We continuously explore new technological frontiers and implement designs that increase the lifespan and performance of each tool. We also focus on optimizing the handling of each tool and increasing the overall comfort and productivity of the end user. Everything we do is based on people and their work and this leads to solutions.

### Your satisfaction is our guiding principle

All professionals who have worked with **FLEX** power tools recognize what is truly important: well thought out design and proven quality solutions.

**FLEX** will do everything to ensure you quality from our continuous product improvements. Whether you are grinding, cutting, sawing, drilling or polishing, our ultimate objective is your complete satisfaction.

## FLEX Electronics

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**FLEX** motors are designed with the latest technology. **FLEX** electronics include unique features such as soft start, RPM pre-setting, RPM cruise control, overload protection and heat sensitive temperature sensors to prevent the machine from overheating in case of extreme workloads.

All **FLEX** electric power tools feature spring loaded **FLEX** Longlife™ carbon brushes. When the brushes start to wear down, a tension spring is released pushing the brushes away from the armature, resulting in an overall longer life of the product.

All **FLEX** electric power tools also feature the **FLEX** advanced airflow system, where cooling air is drawn in at the rear of the machine and blown forward through a specially designed air chamber, before exiting the machine in the front.

### Trade Associations

**FLEX** North America associated with the following trade associations:



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256.974	23	348.562	9
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257.004	23	348.589	9
257.375	23	349.216	9
260.230	9	349.224	9
260.237	9	349.232	9
266.132	22	349.240	9
280.992	9	349.259	9
281.018	9	349.267	9
281.026	9	350.346	9
281.034	9	350.362	9
281.042	9	352.306	9
281.050	22	354.988	9
281.077	22	366.862	9
281.085	22	368.881	8
284.718	22	368.903	8
284.726	22	368.911	8
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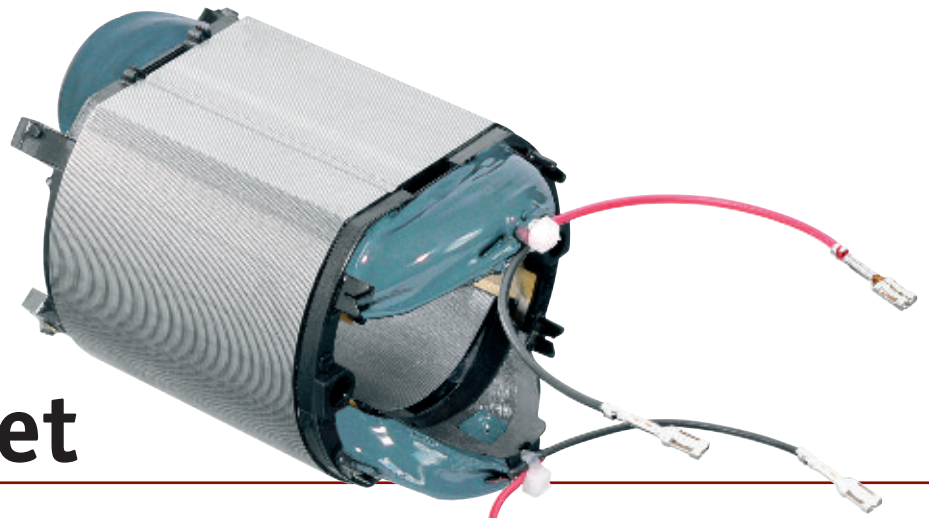
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# New Powder Coating Operation for Magnetic Fields

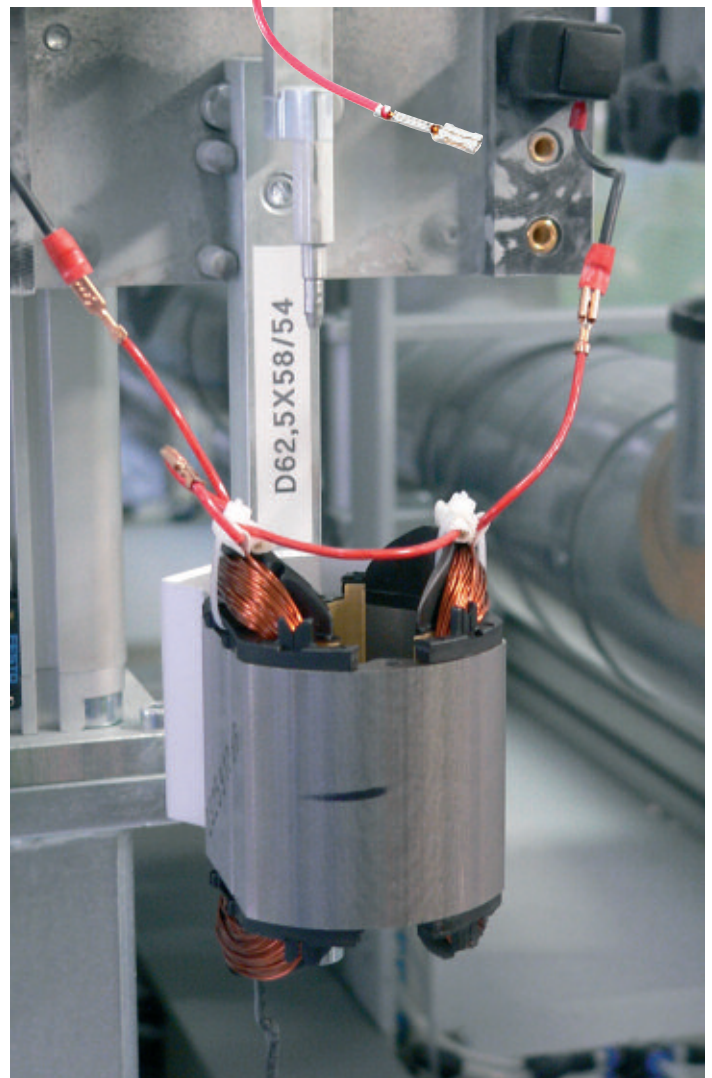
## The Most Innovative Technique On The Market



The new FLEX powder coating process for magnetic fields offers an important advantage by prolonging the longevity of FLEX machine motors.

Powder coating is a process that offers the best possible protection against abrasive elements. This is achieved by covering the coils in a uniform protective coating. Air is blown through the bottom of a container holding powdered plastic. The powder is held in suspension inside the container and behaves similar to a liquid. A magnetic field is dipped into the container where the plastic powder melts onto the pre-heated coils. The metal packet is not affected.

The new FLEX plant has 12 stations which hang from a continuous belt. After loading and connecting the magnetic field to the heating element, the process of heating, baking, coating, cleaning, hardening and cooling starts automatically. The plant is completely enclosed and has its own air extraction system. The powder feed is fully automatic. We use bondable enameled wire for the coils, which allows for the baking process, and guarantees a stable geometry of the coil head.



# Concrete Masonry

# Concrete Application

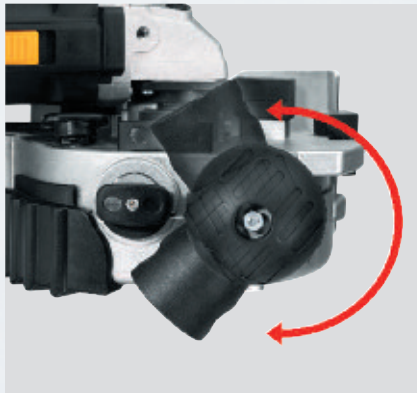
## POWERFUL IN EVERY POSITION

The wall chaser MS 1706 FR cuts grooves effortlessly into walls, limestone and porous concrete. Its patented, swivelling motor makes horizontal push cutting as well as vertical pull cutting possible.



### MILLING CUTS WITH 2 PARALLEL RUNNING FLEX HIGH-PERFORMANCE DIAMOND CUTTING DISCS

The middle partition can then be broken out using the supplied slot breaker. Wall chaser MS 1706 FR-Set



### ROTATION VACUUM ADAPTER

Depending on the direction you are working, the hose of the FLEX industrial vacuum cleaner can be fed through the rotatable nozzle so that it does not hinder the user.



### THE PATENTED TURN

It's only possible with the FLEX wall chaser, pull cutting for vertical and push cutting for horizontal slots. Just unlock, swivel the motor, lock - finished!



### EASY CUTTING DEPTH ADJUSTMENT

You can use the scale - which is divided into 5 mm increments - on the disc guard to set how deep the milled cut should be.

### COMPLETE KIT

Plastic carrying case and two Diamant Jet Vi-speedcut cutting discs for rapid cutting of masonry, limestone and porous concrete.



# Concrete Application

## MS 1706 FR-Set

333.816

### The new FLEX wall chaser for push and pull cutting

The unique rotating motor system allows the machine to be used for pull cutting for vertical slots, and push cutting for horizontal slots. Now wall chasing for the laying of cables or conduits is childs play. Cuts two parallel slits up to 35 mm deep and 30 mm wide.



#### ADVANTAGES AT A GLANCE

- FLEX four-fold FR electronic control: with consistent speed control by tachometer generator, soft start, overload protection and temperature monitoring
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage.
- Rotating motor allows for push and pull cutting
- Optimal dust extraction and maximum safety due to enclosed guard
- Toolless blade changing and slit width adjustment
- Rotating adaptor for dust extractor
- Adjustable cutting depth
- Plunge cut stop
- Complete kit: with plastic carrying case and 2 Diamantjet VI- Speedcut discs for rapid cutting of masonry, limestone, concrete and porous concrete

#### STANDARD EQUIPMENT

Diamantjet VI-Speedcut-cutting disc 140 mm	(2) 334.464
1 side handle	194.034
1 SDS-Clc quick-clamp nut M 14	253.049
Distance spacers	(5) 318.914
Clamping flanges	(2) 191.612
1 web remover	229.253
1 adapter for dust extractor	327.026
Cable clip	(3) 252.188
1 plastic carrying case	327.034

#### SPECIFICATIONS

SPECIFICATIONS	MS 1706 FR-SET
Cutting depth	1.4"
Groove width	0.4" - 1.2"
Disc	5.5"
Speed without load	7500 rpm
Power input	11 AMP
Tool fixture	5/8-11 UNC
Weight	8.2 lbs

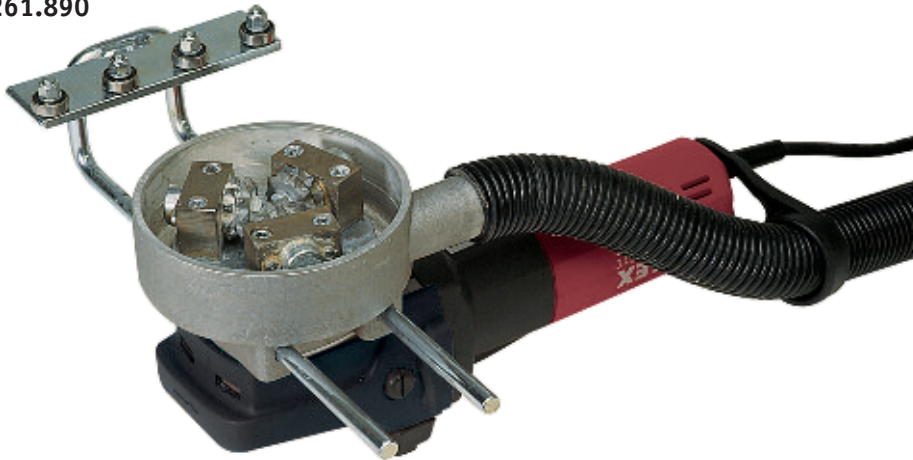


### Blades For Use With MS 1706 FR

Catalog #	Size	Description	QP
334.464	140mm	Diamond Jet VI Speed Cutting Blade	1

### LST 1503 VR

261.890



#### The small FLEX bushhammer for stairs

60 aggressive hard-metal tips of the machine take care of the job quickly and with precision. The rotating bushhammer with the hard-metal discs cushioned by rubber shock absorbers which reduces vibration and is easy on your joints. The machine can be expertly guided by the grip hood.



SPECIFICATIONS	LST 1503 VR
Speed without load	1,000-3,000 RPM
Power input	11 AMP
Working width	40-92 mm
Weight	13.0 lbs

STANDARD EQUIPMENT	
1 grip cover	254.212
1 stop, complete	259.193
1 carbide tipped complete 100	261.653
1 hexagon socket screw key, special tool	115.460

#### Bushhammering prevents slippage

Smooth natural stone floors can turn into slippery danger zones in wet weather. Roughening helps alleviate this problem and ensures better traction. In the past this was difficult once the natural stone slabs had been set. With the FLEX bushhammer this job is taken care of in just a few minutes even on the hardest granite surfaces.

#### LST 1503 VR ADVANTAGES AT A GLANCE

- FLEX four-fold full-wave electronics: with speed selection and consistent speed control, soft start, overload protection.
- Dust extraction: for use even in occupied buildings
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

Sanding discs/polishing pads are to be purchased separately.

Call 1-877-331-6103

[www.FlexNorthAmerica.com](http://www.FlexNorthAmerica.com)

# Concrete Mixers

## MXE 1102

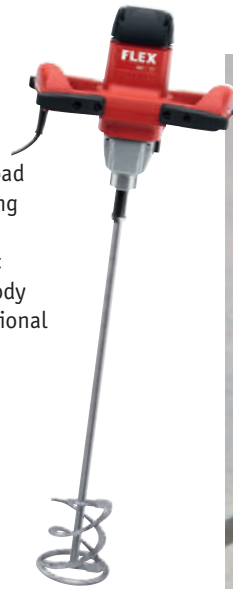
390.860

### 1080 Watt Two Speed Mixer With Speed Control

FR Full-wave electronic control with soft start, temperature monitoring, overload protection and accelerator switch for a controlled run-up to the optimum mixing speed. Sustained power in all ranges. Large, rugged 2-gear unit with optimum ratios for powerful torque and correct speed for different materials. Ergonomic handles on the drive unit. Low weight, fatigue-free arm posture and upright body posture allow comfortable, ergonomic operation. Second gear provides exceptional sustained power in the top and low speed range. Ideal for tile adhesive, grout, filler compound, adhesive, finished plaster, adhesive mortar.

SPECIFICATIONS	MXE 1102
Speed without load-1st gear	150-530 RPM
Speed without load-2nd gear	200-750 RPM
Power input	1010 watts
Power output	600 watts
Tool fixture	M14
Clamping neck	1.7"
Max. mixing head	5.12"
Weight	11.7 lbs.

STANDARD EQUIPMENT	
1 WR2 helix paddle 120x600 M14	368.881
1 open ended wrench SW19	



## MXE 900

390.879

### 900 Watt Single Speed Mixer






Large, rugged single-speed gear unit with optimum gear ratio for high torque. Soft start accelerator switch smoothly adjuLow weight, fatigue-free arm posture and upright body posture allow comfortable, ergonomic operation. Perfect for mixing low-quantity mixtures. Mixing paddle for pasty to tough materials including tile adhesive, grout, filler compound, adhesive, finished plaster and adhesive mortar. Ideal for tilers and painters.

SPECIFICATIONS	MXE 900
Speed without load	200-750 RPM
Power input	900 watts
Power output	520 watts
Tool fixture	M14
Clamping neck	1.7"
Max. mixing head	4.72"
Weight	11.3 lbs.

STANDARD EQUIPMENT	
1 WR2 helix paddle 120x600 M14	368.881
1 open ended wrench SW19	



### Accessories for the MXE 1102 and MXE 900 Concrete Mixers

	QP	Order Number
 Helix Paddle WR2	1	368.881
 Spiral Paddle RR2	1	368.903
 Helix Paddle WR3R	1	368.911
 Disc Paddle SR2	1	368.938
 Beater RB	1	369.152



### WSE 7 Vario Plus

396.400

#### The new FLEX Handy-Giraffe® Wall And Ceiling Sander

The unique sander is ideally suited for sanding plaster boards, solid styropor insulation slabs, and for preparation for painting. VR electronic control includes stepless speed selection, tachogenerator-controlled constant speed, overload protection, re-start inhibit and temperature monitoring.



#### STANDARD EQUIPMENT

Round sanding head with velcro	
60 grit	(3) 348.503
Round sanding head with velcro	
100 grit	(3) 348.538
Round sanding head with velcro	
180 grit	(3) 349.232
Triangular sanding head 80 grit	(3) 348.562
Triangular sanding head 100 grit	(3) 348.570
Velcro Sanding Grid, 80 grit	(2) 260.237
Velcro Sanding Grid, 100 grit	(2) 230.230
Dust Collector Nozzle	(1) 3135030

#### SPECIFICATIONS

	WSE 7
Power input	710 watt
Power output	420 watt
No load speed	600-1800 rpm
Corner sander no load speed	1800-5400 rpm
Width	13"
Length	4.75"
Height	5.7"
Weight	6.2 lbs.

#### ADVANTAGES AT A GLANCE

- VR electronic control: stepless speed selection, tachogenerator-controlled constant speed, overload protection, restart inhibit and temperature monitoring.
- Completely cast electronic components prevent damage due to metal dust; 3-fold winding protection reduces motor wear and increases service life.
- Grip hood for easy handling and precise working.
- Interchangeable head system for round and triangular sanding head for sanding close to edges.
- Effective dust extraction from between the brush ring and sanding pad (round) and through the 10-hole extraction ports prevents clogging of the abrasive.
- Brush ring is spring-mounted so the round sanding head accurately follows all uneven contours.
- Backing pad with hook and loop face.
- Defined hose guidance and effective dust extraction due to large hose cross-section.
- Lightweight and easy-to-use

### Accessories for the WSE 7 Vario Plus Handy-Giraffe® Wall and Ceiling Sander

#### Sanding Heads/Backing Pads

Description	QP	Order number
Round Sanding Head	1	350.346
Triangular Sanding Head	1	388.289
Velcro Backing Pad Round, Hard 8.85"	1	350.362
Velcro Backing Pad Round, Medium 8.85"	1	352.306
Velcro Backing Pad Round, Soft 8.85"	1	366.862
Velcro Triangular Backing Pad	1	354.988

#### Sanding Paper, Triangular 11.41"

Description	QP	Order number
P 40 Grit, Sanding Paper, Triangular 11.41"	20	370.940
P 60 Grit, Sanding Paper, Triangular 11.41"	25	348.554
P 80 Grit, Sanding Paper, Triangular 11.41"	25	348.562
P 100 Grit, Sanding Paper, Triangular 11.41"	25	348.570
P 120 Grit, Sanding Paper, Triangular 11.41"	25	349.240
P 150 Grit, Sanding Paper, Triangular 11.41"	25	349.259
P 180 Grit, Sanding Paper, Triangular 11.41"	25	349.267
P 220 Grit, Sanding Paper, Triangular 11.41"	25	348.589
Pack of 80/100/120/150/180 Grit	25	370.959

#### Sanding Paper, Round 8.85"

Description	QP	Order number
P 40 Grit, Sanding Paper, Round 8.85"	20	370.924
P 60 Grit, Sanding Paper, Round 8.85"	25	348.503
P 80 Grit, Sanding Paper, Round 8.85"	25	348.511
P 120 Grit, Sanding Paper, Round 8.85"	25	349.216
P 150 Grit, Sanding Paper, Round 8.85"	25	349.224
P 180 Grit, Sanding Paper, Round 8.85"	25	349.232
P 220 Grit, Sanding Paper, Round 8.85"	25	348.546
Pack of 80/100/120/150/180 Grit	25	370.932

#### Velcro Abrasives, Round 8.85"

Description	QP	Order number
80 Grit Velcro Sanding Grid, Round 8.85"	25	260.237
100 Grit Velcro Sanding Grid, Round 8.85"	25	260.230
S320 Grit Superfinishing Pad, Round 8.85"	10	281.026
S1200 Grit Superfinishing Pad, Round 8.85"	10	281.018
A 100 Grit Velcro Sanding Fleece, Round 8.85"	10	281.042
A 180 Grit Velcro Sanding Fleece, Round 8.85"	10	281.034
Soft Velcro Polishing Sponge, Round 8.85"	5	280.992

# Stainless Steel Vacuum

## VC 12

398.403



### Stainless Steel Vacuum

The new FLEX Stainless Steel Vacuum delivers the rugged durability and professional performance you need for garage, shop, factory, workshop or office. Stainless steel tank is easy to clean and features a tank drain that lets you empty the tank without lifting the vac. Super quiet performance for use in a variety of office, hospital and school environments. Comes equipped with static guard strap and full dolly with tool holder.





#### SPECIFICATIONS

	VC 12
Tank Capacity	12 Gallons
Peak HP	6.0
Sealed Pressure	60"
Electrical Specs	12V, 60 Hz, 12 amps
Weight	40 lbs.
Hose Length	12' LockOn
Airflow	175 CFM
Power Cord	18 Foot

#### STANDARD EQUIPMENT

12' x 1.25" hose (friction)	9057100
1.25" extension wands	(2) 9061400
10" dual surface nozzle	9060300
Round brush nozzle	9061500
Cartridge filter with retainer	9030400
Collection bag	9067200

#### Accessories for the VC 12 Stainless Steel Vac

	QP	Order Number
 Gore HEPA Cartridge Filter	1	9034005
 Disposable Filter Bag	1	9067205
 Cartridge Filter with Retainer	1	9030400
 Claw Nozzle for Car Upholstery	1	9196105

#### ADVANTAGES AT A GLANCE

- Super Quiet Operation.
- Tank drain lets you drain water without lifting the unit.
- Variety of 1.25" accessories available.
- Stainless steel for extra durability
- Static guard strap
- Fully dolly with tool holder
- Extra outlet on vac for power tools



On Demand Feature



Static Guard Strap





# What do professionals use for grinding?

## The Innovator and Leader in Grinder Technology

**FLEX** grinders are designed as rugged power tools and have been engineered to take a beating. We listened to our customers and have designed a family of power tools that will effectively get the job done. Any job, anywhere.

All **FLEX** grinders are equipped with our innovative Longlife carbon brushes. The carbon brushes inside the motor are tension spring loaded.

Many of the grinders are designed with full wave electronics and feature soft start, overload protection and temperature sensors to prevent the motor from overheating.

These products also feature an RPM cruise control. The full wave electronics will automatically adjust the motor strength to deliver consistent and constant RPM regardless of the pressure applied to the tool. Consistent and constant RPM are important, because it delivers superior grinding results and increases the overall life of the grinder.



**FLEXGRIP – THE MULTI-HANDLE**  
With built-in holding wrench for exchanging the discs without additional tools.



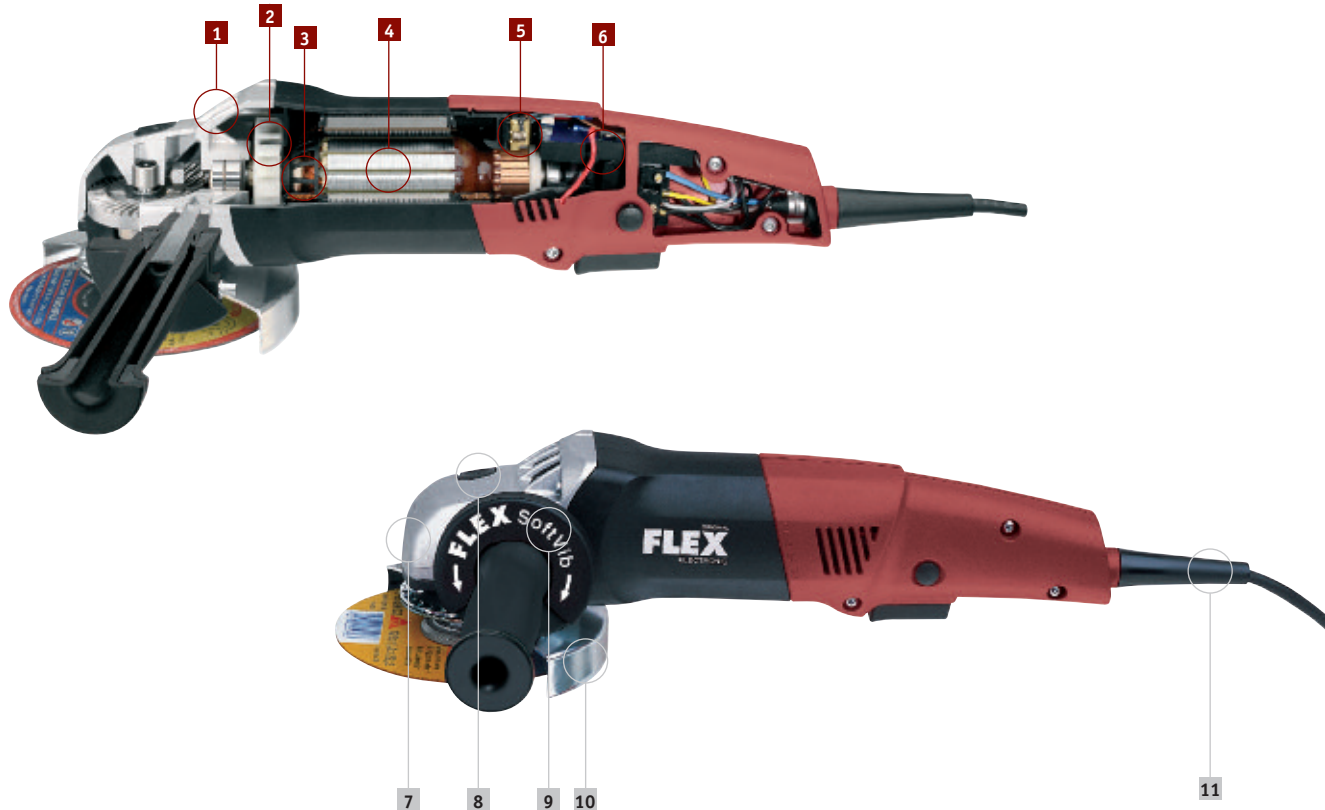
**SLENDER REAR SPECIAL GRIP**  
Ideal for surface finishing because of extremely flat attack angle and balanced weight distribution. Equipped with dust-protected on/off switch located underneath, safety catch and lock.



**PATENTED SAFETY DISC GUARD**  
Can be adjusted without tools in 24 stop positions by 360 degrees. Turnable in one direction only.

**FIGHT VIBRATION – FLEX SOFTVIB-HANDLE**  
The vibration damping construction of the elastic body of the SoftVib-Handle reduces vibration levels when compared to standard handle by up to 60%. The hand and arm joints of the user are subjected to less stress and fatigue.





- 1 Air vents to front**  
Protects user and motor from abrasive swarf.
- 2 Large ventilator**  
Optimized in wind tunnel test for maximum cooling
- 3 Winding protecting cage**  
Rotating ribs prevent abrasive swarf from damaging the windings of the armature and provide for additional cooling. This extends the service life of the motor considerably.
- 4 High-performance armature**  
Sustained power and endurance, heat-resistance. Winding protected from aggressive swarf by a winding protecting cage.
- 5 Quality auto-stop carbon brushes**  
Protects the motor from damage.
- 6 Microprocessor electronics**  
Greater performance, safer, more convenience.
- 7 Gearbox housing made of die-cast aluminum**  
Light, sleek, robust.
- 8 Spindle lock**  
double safety because of recessed design.
- 9 FLEX SoftVib – the multi-handle**  
The vibration damping construction of the elastic body of the SoftVib-Handle reduces vibration levels noticeably. Equipped with built-in holding wrench - for exchanging the discs without additional tools.
- 10 Patented safety disc guard**  
Adjustable without tools, impossible to lose, with rotation lock.  
**Perfection to the very last detail**  
Highly flexible cable bushing prevents cable breakage. 13-foot power cable with FLEX-red plug.

### FLEX electronics:

More power, safer, longer service life

- **Four-fold microprocessor electronics:** with consistent speed control, soft start, starter lock, and overload protection
- **Five-fold microprocessor electronics:** with consistent speed control, soft start, starter lock, overload protection, and temperature monitoring
- **Six-fold microprocessor electronics:** with consistent speed control, soft start, starter lock, overload protection, temperature monitoring, and speed selection set by an adjustment wheel

### FLEX Performance:

What is transferred to the disc is critical

- **Outstanding output:** thanks to highly machined armature
- **High operating efficiency:** great energy with cost-efficient operation
- **Best endurance run characteristics:** due to high manufacturing precision

### FLEX Ergo design:

created for precise, low-fatigue work

- **Optimal center of gravity:** precisely in the middle of the machine; finely balanced
- **Sleek motor case:** with ergonomic, waisted grip depression
- **Structure surface\*:** no slipping, for a secure grip

*\*on G-versions with super-sleander rear special grip*

# Metal Finishing

## L 1503 VR

252.292



### Compact, High Performance 6" Variable Speed Sander/Polisher

Powerful 10 AMP sander/polisher specially designed for work on soft natural stone and sensitive metal surfaces. When plastic grinder head cover is removed, tool is able to reach into the tightest areas.

SPECIFICATIONS	L 1503 VR
Max. tool diameter	6"
Speed, without load	1,200-3,700 RPM
Power input	10 AMP
Tool fixture	5/8-11
Weight	4.2 lbs

STANDARD EQUIPMENT	
1 side handle	194.034
1 grip cover	259.403

Sanding discs/polishing pads are to be purchased separately.

## L 1506 VR

267.023



### Compact, Heavy Duty 5" Variable Speed Sander/Polisher

Powerful 11 AMP full wave electronic sander/polisher with infinitely adjustable variable speed (2,200-6,800 RPM). Used in metal, automotive and natural stone industries.

SPECIFICATIONS	L 1506 VR
Max. disc diameter	5"
Speed, without load	2,200-6,800 RPM
Power input	10 AMP
Power output	700 Watts
Tool fixture	5/8-11
Weight	4.2 lbs

STANDARD EQUIPMENT	
1 guard	267.503
1 side handle	194.034
1 clamping flange	132.322
1 retaining nut	132.330
1 spanner wrench	100.110
1 removable plastic sander head cover	259.403

### ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Tool fixture: 5/8-11 spindle thread
- Quality shut-off carbon brushes: protects the motor against damage

### ADDITIONALLY FOR L 1503 VR

- FLEX VR electronics: with consistent speed control by tachometer generator, soft start, overload protection, and speed selection.
- Compact dimensions

### ADDITIONALLY FOR L 1506 VR

- FLEX four-fold VR electronics: with consistent speed control by tachometer generator, soft start, overload protection, and speed selection.
- Compact dimensions
- Spindle lock: for easy disc changes
- Tool fixture: 5/8-11 spindle thread
- Quality shut-off carbon brushes: protects the motor against damage.

### L 1106 VE

267.090



#### Compact, Electronic 5" Variable Speed Sander/Polisher

This 6.6 AMP angle grinder/polisher is two tools in one. When operated at low RPMs the tool can be used as a polisher. When operated at high RPM the tool becomes a grinder.

#### SPECIFICATIONS

	L 1106 VE
Max. disc diameter	5"
Speed, without load	2,000-6,500 RPM
Power input	6.4 AMP
Tool fixture	5/8-11
Weight	3.5 lbs

#### STANDARD EQUIPMENT

1 Guard 5"	267.503
1 side handle	194.034
1 clamping flange	132.322
1 retaining nut	132.330
1 spanner wrench	100.110
1 removable plastic grinder head cover	259.403

**Sanding discs/polishing pads are to be purchased separately.**

#### ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Tool fixture: 5/8-11 spindle thread
- Quality shut-off carbon brushes: protects the motor against damage

#### ADDITIONALLY FOR L 1106 VE

- Compact dimensions
- Grip cover: detachable and extremely sensitive guiding
- Additional handle: can be used in 2 positions

# Metal Finishing Tool/Grinding

## L 3410 VRG ADVANTAGES AT A GLANCE

- FLEX Six-fold microprocessor electronics: Speed selection, consistent speed control by tachometer generator, soft start, restart protection after power interruption, overload protection, and temperature monitoring
- FLEX Motor: designed to handle substantial loads with highest efficiency for powerful output, great endurance thanks to perfect cooling, and air vents aimed to front
- FLEXgrip: ingenious solution with integrated pin spanner for wrench-free disc changing. It can be fitted on the left or right
- Gearbox: particularly flat and robust aluminum die-cast construction, accesses all corners
- Safety guard: patented, with anti-twisting lock

## ADDITIONALLY FOR LE 9-10 125

- Microprocessor electronics: with tachogenerator constant speed control, speed control, soft start, restart protection after power failure, overload protection and temperature monitoring
- Powerful, strong motor for quick working progress
- Kickback stop shuts down the motor on the disc being blocked
- Additional handle: can be used in 2 positions



Tool-free adjustment of safety guard for easy, convenient operation.

## L 3410 VRG

337.714

### Compact, High Performance 5" Variable Speed-Grinder

Powerful 10 AMP variable speed grinder is small and agile. A master of versatility, thanks to variable speed and excellent power. Ideal for grinding, roughing, cutting, deburring and removal of rust. No matter what the task may be, the slim, saddle-shaped motor housing and grip handle mean that this FLEX sits perfectly in your hand. The flat aluminum die cast gear head allows the tool to reach into the tightest areas.



SPECIFICATIONS	L 3410 VRG
Max. disc diameter	5"
Speed, without load	3,000-11,000 RPM
Power input	10 AMP
Tool fixture	5/8-11
Weight	4.1 lbs

STANDARD EQUIPMENT	
1 grinder guard	294.438
1 FLEXgrip™ handle	292.354
1 clamping flange	132.322
1 retaining nut	132.330

## LE 9-10 125

350.672

### High Performance Variable Speed Angle Grinder

This universal angle grinder is ideally suited for steel/metal surface finishing, for work on the jobsite, renovations as well as for vehicle bodywork and construction firms. Tool-free adjustment of safety guard for convenient operation. Double winding protection from metal dust reduces motor wear and lengthens service life.



SPECIFICATIONS	LE 9-10 125
Max. disc diameter	5"
Speed, without load	6,000-10,000 RPM
Power input	7.5 AMP
Power output	500 watt
Weight	4.3 lbs.

STANDARD EQUIPMENT	
1 grinder guard	358.029
1 handle	335.274
1 clamping flange	335.282
1 clamping nut	100.080

Sanding discs/polishing pads are to be purchased separately.



**THE SPECIALIST FOR LARGER PIPE DIAMETERS**

The sanding belt nestles itself to any curve - up to 10" diameter. Weld seam and pipe sander **LBR 1506 VRA.**



**THIS ROUNDS IT OFF**  
Rubber drive and polishing fleece mirror-finish stainless steel guard-rails. Burnishing machine **LP 1503 VR.**



## FLEX Metal Surface Treatment Guide

### Removal of weld seams on stainless steel, steel and aluminum

- Pre-sand with coarse grinding grits (60-100 grits) depending on the thickness of the welding seam.
- As soon as the welding seam has almost been sanded to the level of the surface, change to a finer grit (120-180 grits). Work through the sequence of ever finer grits until the requested finish is achieved. Do not skip grit levels.
- Use SCM belts to achieve a decorative finish:
  - Use a 100/120 or a 180/240 granulation SCM belt to achieve a dull finish. Machine should be set to "3" on the RPM pre-set dial.
  - Use a 400 granulation SCM belt to achieve a brilliant finish. Machine should be set to "6" on the RPM pre-set dial.

### Removal of scratches from stainless steel and non-ferrous metal

- The deeper the scratch, the coarser the grit is to be used.
- Start sanding with the coarsest grit. Machine should be set to "2" on the RPM pre-set dial. Move the sander over the entire area of the scratch.
- When the scratch is almost invisible, start working with even finer grits until desired finish has been achieved. Do not skip grit levels as this will leave an unfavorable finish.

### Achieving a polished mirror finish on stainless steel and non-ferrous metal

- Start with a coarse grit. Work the surface until you have a "universal scratch pattern".
- Step through the various grit levels (grit 400, grit 600, grit 1,500) until you have finished with the finest grit. Only proceed to the next grit level when a universal scratch pattern has been achieved.

# Metal Surface Treatment Tools






## Revolutionary Metal Treatment Tools

FLEX metal surface treatment products were designed with a very specific purpose: To reduce the time needed to treat metal products and thus increase the productivity of the metal surface treatment professional.

The metal surface products include the revolutionary LBR 1506 VR pipe sander, the LBS 1105 VE finger belt sander and the LP 1503 VR finishing machine.

### METAL SURFACE TREATMENT TOOLS

	TYPE OF TOOL	APPLICATION	INDUSTRY
 <b>LBR 1506 VRA</b>	<b>"wrap around" pipe sander</b>	<ul style="list-style-type: none"> <li>• Pipe sanding</li> <li>• Removal of welding seams</li> <li>• Removing paint/varnish</li> <li>• Sanding handrails</li> </ul>	<ul style="list-style-type: none"> <li>• Refineries</li> <li>• Liquid/Gas process manufacturers</li> <li>• Food processing industry</li> <li>• Marine applications</li> <li>• Hospitals</li> <li>• Kitchen/Bath</li> </ul>
 <b>LP 1503 VR</b>	<b>Infinitely adjustable universal metal finishing machine</b>	<ul style="list-style-type: none"> <li>• Polishing, smoothing, dulling, graining, brushing, deburring and roughening of stainless steel, aluminum and synthetic surfaces</li> </ul>	<ul style="list-style-type: none"> <li>• Metal fabrication shops</li> <li>• Automotive</li> <li>• Kitchen/bath stainless steel sink manufacturers</li> <li>• Faucet manufacturers</li> <li>• Decorative finishing shops</li> </ul>
 <b>LRP 1503 VRA</b>	<b>Boa sander- All around polishing solution</b>	<ul style="list-style-type: none"> <li>• The perfect solution for sanding and polishing pipe construction</li> </ul>	<ul style="list-style-type: none"> <li>• All industries that have hard to reach areas requiring sanding and polishing</li> </ul>

### LBR 1506 VRA

282.510



## Pipe Belt Sander for Weld and Seam Sanding Applications.

The LBR 1506 VRA is a "wrap-around" pipe sander. The sanding belt wraps around the pipe and consequently requires only a few steps to sand the entire circumference of the pipe. The LBR 1506 VRA is designed to work on 3/8 to 10" diameter pipes and renders welding seams invisible and carefully gives every stainless steel pipe a high gloss finish. Due to its very powerful 11 AMP motor, its infinitely adjustable speeds and its unique wrap-around technology, this product is used where many pipes and handrails are found (refineries, liquid/ gas operations, food processing industries and hotels).

**Accessories: see page 22.**

SPECIFICATIONS	LBR 1506 VRA
Power input	11 AMP
Belt speed	33-98 ft/sec
Belt dimensions	618 x 40 mm
Weight	11.25 lbs

STANDARD EQUIPMENT	
1 side handle	252.721
1 bail handle	259.290
1 set of grit sanding belts (36, 60, 120, 240)	246.816
1 Hexagon socket screw key, special tool 5	115.460
1 Hexagon socket screw key, special tool 6	104.167
1 Hexagon socket screw key, special tool 3	178.772



#### ADVANTAGES AT A GLANCE

- Quality shut-off carbon brushes: protects the motor against damage

#### ADDITIONALLY FOR LBR 1506 VRA

- FLEX four-fold full-wave electronic control: with consistent speed control, soft start, overload protection and speed pre-selection
- Sanding belt tension: spring loaded, adapts to pipe diameter from 3/8 to 10"
- Sanding belt replacement: quick and easy
- Light design: for work without fatigue
- Sanding belts: wide assortment included sanding fleece for stainless steel applications



# Metal Surface Treatment Tools

## LP 1503 VR

254.037



### The FLEX burnishing machine for highly polished surfaces

This machine specializes in shadow-free, transitionless finishes on metal (i.e. stainless steel, aluminum), wood and plastic surfaces. Electronic control and speed preselection over a broad RPM range lends it unique versatility. Ideal for finishing, polishing, smoothing, dulling, graining, brushing and deburring, thanks to an extensive range of accessories. **Grinding discs/polishing pads are to be purchased separately.**

**Accessories: see page xx-xx.**

SPECIFICATIONS	LP 1503 VR
Power input	10 AMP
Max. tool diameter	4.5"
Tool width	4"
Tool fixture	3/4"
Speed, without load	1,200-3,700 RPM
Weight	7.9 lbs

### STANDARD EQUIPMENT

1 set of distance rings	250.522
-------------------------	---------

## LP 1503 VR PROFI-Set

335.096



### The FLEX burnishing machine for highly polished surfaces in the PROFI-Set

Shadow-free and transmission-free metal, wood, or plastic surfaces are its specialty. Its extensive FLEX accessories make it ideal for satin-finishing, polishing, descaling, smoothing, matting, structuring, brush polishing, and deburring. Start right up with the PROFI set in the toolboxes; everything is included. Machine without standard equipment: Order no. 254.037

SPECIFICATIONS	LP 1503 VR PROFI-SET
Power input	10 AMP
Max. tool diameter	4.5"
Tool width	4"
Tool fixture	3/4"
Speed, without load	1,200-3,700 RPM
Weight	7.9 lbs

### STANDARD EQUIPMENT

1 air pump	257.004	256.284
1 rubber air roller		256.415
1 drive roller		255.731
1 kit of distance rings		250.522
1 fleece grit 280/320		256.975
1 sanding sleeve, 60 grit		256.285
1 sanding sleeve, 100 grit		256.286
1 sanding sleeve, 180 grit		256.287
1 fleece sanding sleeve, red		256.289
1 fleece sanding sleeve, blue		256.290
1 sanding-polishing sleeve 600 grit		318.175
1 sanding-polishing sleeve 1500 grit		318.183
2 Velcro drive belts		281.050
1 Velcro drive belts A 180		281.077
2 Velcro sanding belts, 120 grit		284.726
1 Velcro polishing belt, 1500 grit		318.736
1 plastic carrying case with padding		319.066

### ADVANTAGES AT A GLANCE

- FLEX four-fold full-wave electronic control: with consistent speed control, soft start, overload protection and speed pre-selection
- Sanding tool replacement: tool-free
- Adjustable guard: for sanding tools up to 4-1/2" diameter
- Quality shut-off carbon brushes: protects the motor against damage
- 10 ft black power cord



Everything needed for universal application of the burnishing machine is clearly arranged in the case. Beyond that it provides sufficient room for additional accessories.



### LRP 1503 VRA

331.694

#### The FLEX Boa sander: all-round solution

The perfect solution for sanding and polishing pipe constructions. The sanding arm wraps itself around the pipe like a snake when pressure is applied, tackling radii up to 270°. Spring resistance between the deflection rollers means that the sanding arm and sanding belt are always uniformly pretensioned. The Boa needs only be rotated slightly to continue treatment and achieve the perfect finish. In tight places - i.e. handrails that are fixed close to walls - the additional handle can be rotated 180°.



#### STANDARD EQUIPMENT

1 sanding belt, continuous, 80 grit, 760 x 40 mm	326.739
1 sanding belt, continuous, 120 grit, 760 x 20 mm	326.801
1 sanding belt, continuous, 220 grit, 760 x 20 mm	326.836
1 sanding fleece, continuous, fine, 760 x 40 mm	326.852
1 sanding fleece, continuous, medium, 760 x 40 mm	326.879
1 sanding-polishing belt, continuous, 600 grit, 760 x 40 mm	326.917
1 sanding-polishing belt, continuous, 1500 grit, 760 x 40 mm	326.933
1 plastic carrying case with padding	327.603

SPECIFICATIONS	LRP 1503 VRA
Power input	11 AMP
Belt speed	4-12 m/sec
Belt dimension	760 x 40/20 mm
Pipe max.	5"
Weight	8.2 lbs

#### ADVANTAGES AT A GLANCE

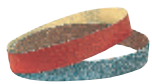
- Quality shut-off carbon brushes: protects the motor against damage
- FLEX four-fold full-wave electronic control: with consistent speed control by tachometer generator, soft start, overload protection and speed preselection
- Sanding belt replacement: quick and tool-free
- High-quality 270° sanding arm: light alloy with 2 deflection rollers. Quicker progress, perfect finish, simple operation
- Additional side handle: can be rotated 180°, for narrow places
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- 10' black power cord
- Plastic carrying case: everything where you want it, when you want it. Standard design with extensive accessories



# Quality Accessories Metal Finishing

## Continuous belts for LBR 1506 VRA and LP 1503 VR

### Sanding belt, continuous



For pre-sanding pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
24" x 1 1/2"	36	10	223.670
24" x 1 1/2"	60	10	223.689
24" x 1 1/2"	120	10	266.132
24" x 1 1/2"	240	10	250.610

### Sanding fleece, continuous



For pre-sanding pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
24" x 1 1/2"	240	3	317.977
24" x 1 1/2"	400	3	317.985
24" x 1 1/2"	100	3	317.969

## Belts with Velcro™ attachment for burnishing machine LP 1503 VR

### Velcro™ sanding belt



For pre-sanding pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
24" x 1 1/2"	60	10	284.718
24" x 1 1/2"	120	10	284.726

### Velcro™ polishing belt



For high-gloss polishing of stainless steel

Dimensions in inches	Grit	QP	Order number
24" x 1 1/2"	1500	2	318.736

### Velcro™ fleece



For pre-sanding pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
24" x 1 1/2"	180	2	281.077
24" x 1 1/2"	400	2	281.085

### Velcro™ drive belt, blue



For closing and releasing the different belts. Simple application - tensile strength up to 220 lbs.

Dimensions in inches	QP	Order number
27.5" x 1 1/4"	2	281.050

## Accessories for Boa sander LRP 1503 VRA

### Sanding belt, continuous



For polishing pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
30" x 1 1/2"	80	10	326.739
30" x 1 1/2"	120	10	326.755
30" x 1 1/2"	220	10	326.771
30" x 3/4"	120	10	326.801
30" x 3/4"	220	10	326.836

### Sanding-polishing belt, continuous



For high-gloss polishing without polishing agents in two steps

Dimensions in inches	Grit	QP	Order number
30" x 1 1/2"	600	1	326.917
30" x 1 1/2"	1500	1	326.933

QP = Quantity per package

### Sanding fleece, continuous



For polishing pipes and pipe fittings

Dimensions in inches	Grit	QP	Order number
30" x 1 1/2"	Fine	3	326.852
30" x 1 1/2"	Medium	3	326.879
30" x 1 1/2"	Coarse	3	326.895

## Accessories for the LP 1503 VR finishing machine for metal and stainless steel

### Poli-clean



Hard-structured fleece wheel. For cleaning welds and intensive, pore-deep removal of rust and oxidation layers. Also creates particularly decorative longitudinal finishes on stainless steel.

Dimensions in inches	QP	Order number
4" x 4"	1	257.375

### Flap wheel sanding



Flexible sanding wheel with individual flexible flap-type sanding lamellae and keyway. 2 wheels are required. For paint removal, sanding and strong graining applications. Removes scratches, rust, old paint, scale and burrs. The 40 grit employed enables the removal of even deep scratches on stainless steel.

Dimensions in inches	Grit	QP	Order number
4" x 2"	40	1	250.496
4" x 2"	60	1	250.498
4" x 2"	80	1	250.499
4" x 2"	120	1	250.501

### Sanding fleece



Flexible polishing wheel made of sanding grit-impregnated nylon web with a keyway. Achieves effective surface finishes on stainless steel, copper, aluminum, brass, etc. Also ideal for cleaning oxidized coatings and smoothing plastic and wood.

Dimensions in inches	Grit	QP	Order number
4" x 4"	80/100	1	256.973
4" x 4"	180	1	256.974
4" x 4"	280/320	1	256.975
4" x 4"	400	1	256.976

### Cotton buffing wheel



Polishing ring made of impregnated cotton cloth. 8 are required. Achieves a high-gloss polishing finish on aluminum, brass and stainless steel.

Dimensions in inches	QP	Order number
4" x 1/2"	8	317.950

### Distance ring set



Required for nylon brushes, stainless steel wire brushes, stranded wire brushes, cotton buffing wheels. Also necessary for sanding flaps, sanding fleeces, sanding fleece flaps, fine sanding rollers and sanding wheels less than 100 mm wide if only one sanding wheel is to be mounted.

	QP	Order number
Distance Ring Set	1 set	250.522

### Rubber air roller



With air pump and ring fastener. For sensitive contour sanding

Dimensions in inches	QP	Order number
3 1/2" x 4"	1	257.004

### Sanding-polishing sleeve



For high-gloss polishing without polishing agents in two steps

Dimensions in inches	Grit	QP	Order number
3 1/2" x 4"	600	1	318.175
3 1/2" x 4"	1500	1	318.183

### Zirconium corundum sanding sleeves



For coarse and medium sanding

Dimensions in inches	Grit	QP	Order number
3 1/2" x 4"	60 blue	5	256.285
3 1/2" x 4"	100 grey	5	256.286
3 1/2" x 4"	180 brown	5	256.287

### Fleece sanding sleeves



For decorative finishes

Dimensions in inches	Grit	QP	Order number
3 1/2" x 4"	100/120 brown	1	256.288
3 1/2" x 4"	180/240 red	1	256.289
3 1/2" x 4"	400 blue	1	256.290

### Drive roller



For sanding belt drive

Dimensions in inches	QP	Order number
3" x 4"	1	255.731

# Service Centers

## Master Parts Distributor For FLEX North America

### Powerhouse Distributing

11011 "I" Street • Omaha, NE 68137

Toll Free: 888-809-4749 • Fax: 888-809-4748

#### ALABAMA

Alabama Jack  
1140 5th Avenue North  
Birmingham, AL 35203  
Phone: 205-251-8156

#### ARIZONA

Arizona Armature  
4641 S 33rd  
Phoenix, AZ 85040  
Phone: 602-296-4434

Glenn's Tool Service  
2149 E. Indian School Road  
Phoenix, AZ 80160  
Phone: 602-264-6203

Precision Tool And Supply  
4857 East 29th Street  
Tucson, AZ 85711  
Phone: 502-745-1100

UltraTuf Diamond  
3206 E. President Street  
Tuscon, AZ 85714  
Phone: 520-294-5006

#### ARKANSAS

Tool Service Co.  
5732 Wheeler Avenue  
Fort Smith, AR 72901  
Phone: 479-648-3125

#### CALIFORNIA

Cut It  
1950 Channel Drive  
West Sacramento, CA 95691  
Phone: 916-372-8848

Davis Tool Company  
2911 S. Main Street #1  
Santa Ana, CA 92707  
Phone: 714-549-7836

Kleer-Vu Repair  
11728 Johnson Lake Road  
Lakeside, CA 92040  
Phone: 619-561-1720

Lee's Tools  
1924 N. Long Beach Blvd.  
Comptom, CA 90221  
Phone: 310-639-1900

#### CALIFORNIA (cont.)

Minit Tool Co., Inc.  
4170 E. Washington Blvd.  
Los Angeles, CA 90023  
Phone: 323-264-7006

#### CONNECTICUT

Colony Tool & Supply  
15 Stiles Road  
New Haven, CT 06512  
Phone: 203-469-0000

CS Unitec Inc.  
22 Harbor Avenue  
Norwalk, CT 06850  
Phone: 800-700-5919

Utility Electric Service  
255 Chapell Road  
South Windsor, CT 06074  
Phone: 860-246-7271

#### FLORIDA

Tool Master Inc.  
196 East 4th Avenue  
Hialeah, FL 33010  
Phone: 305-883-1903

Empire Tool Company  
2296 W. 80th Street  
Hialeah, FL 33016  
Phone: 305-821-0740

Florida Tool Repair  
5821 Hallandale Beach Blvd.  
Hollywood, FL 33023  
Phone: 954-892-2310

#### GEORGIA

South City Tool Inc.  
5442 Frontage Rd. Ste 100  
Forest Park, GA 30297  
Phone: 404-608-9999

Romey Power Tool Repair  
121 Price Hills Trail  
Sugar Hill, GA 30518  
Phone: 770-932-8175

#### KENTUCKY

Value Tools Inc.  
2501 Crittenden Drive  
Louisville, KY 40217  
Phone: 502-636-2835

#### LOUISIANA

Beerman Precision Inc.  
4206 Howard Avenue  
New Orleans, LA 70125  
Phone: 504-207-6000

#### MARYLAND

Machine Doctor  
311 Conowingo Road  
Conowingo, MD 21918  
Phone: 410-378-0094

#### MASSACHUSETTS

Renner-Colony LLC  
5 Robert J Way  
Plymouth, MA 02360  
Phone: 800-339-2219

Star Sales  
29 Commerce Way  
Woburn, MA 01801  
Phone: 781-933-8830

#### MINNESOTA

Thomas Tool & Supply  
1081 E. Highway 36  
Maplewood, MN 55109  
Phone: 651-765-4900

Thomas Tool & Supply  
945 37th Avenue NW  
Rochester, MN 55901  
Phone: 507-281-3786

Thomas Tool & Supply  
3401 West Highway 13  
Burnsville, MN 55337  
Phone: 952-895-5613

Thomas Tool & Supply  
2987 West Highway 12  
Willmar, MN 56201  
Phone: 320-231-1009

Thomas Tool & Supply  
4901 West Broadway  
Crystal, MN 55429  
Phone: 763-533-2499



# Service Centers

## **MINNESOTA (cont.)**

Tool Warehouse Inc.  
3410 East 42nd Street  
Minneapolis, MN 55406  
Phone: 612-727-4260

Tool Warehouse Inc.  
9 Lincoln Avenue SE  
St. Cloud, MN 56302  
Phone: 800-868-7896

## **NEBRASKA**

Powerhouse Distributing  
11011 "I" Street  
Omaha, NE 68137  
Phone: 402-715-5999

## **NEW YORK**

Authorized Tool Repair  
153-27 Barclay Avenue  
Flushing, NY 11355  
Phone: 718-939-2661

Five Boro-Tronics, Inc.  
801 East 42nd Street  
Brooklyn, NY 11210  
Phone: 718-338-8911

Forestiere Power Tool & Equip. Co.  
62-02 64th Street  
Middle Village, NY 11379  
Phone: 718-416-0378

Sunrise Tool Repair  
124 Sunrise Highway  
West Islip, NY 11795  
Phone: 631-661-5548

## **NORTH CAROLINA**

Chris Supply Co. Inc.  
1640 S. Saunders Street  
Raleigh, NC 27603  
Phone: 919-833-4499

## **OHIO**

Cincinnati Electrical Repair LLC  
2023 Elm Street  
Cincinnati, OH 45202  
Phone: 513-621-2183

Spartan Tools  
1660 Alum Creek Drive  
Columbus, OH 43209  
Phone: 614-443-7607

Tool House, Inc.  
11909 Tramway Drive  
Sharonville, OH 45241  
Phone: 513-821-3000

## **OREGON**

Chas H. Day Company  
602 SE 11th Avenue  
Portland, OR 97214  
Phone: 503-232-1659

Eugene Power Tool Repair  
245 Van Buren  
Eugene, OR 97402  
Phone: 541-232-5081

## **SOUTH CAROLINA**

Trado Supply Inc.  
1015 Whitehall Road  
Anderson, SC 29625  
Phone: 800-868-7896

## **TEXAS**

American Tool & Fastener  
1331 E. Plano Pkwy, Ste. B  
Plano, TX 75074  
Phone: 972-801-9909

Empire Tools  
6327 West 34th Street  
Houston, TX 77092  
Phone: 713-957-8665

Floor Care Equipment Repair  
902 Old Austin Hutto Rd., #204  
Pflugerville, TX 78660  
Phone: 512-990-7177

The Tool Clinic  
5126-K Broadway Avenue  
Haltom City, TX 78117  
Phone: 817-656-5640

Tread-Mill Industrial  
5006 Railroad Avenue  
Deer Park, TX 77536  
Phone: 832-248-5952

## **UTAH**

A-1 Industrial Tool  
564 W. 9320 S  
Sandy, UT 84070  
Phone: 866-802-6383

## **CANADA SERVICE CENTERS**

### **ALBERTA**

Power Tool Klinik LTD  
Bay 6-2520 23rd St NE  
Calgary, Alberta T2E 8L2  
Phone: 403-276-4633

Dan's Power Tool Repair Service  
6331-13 Ave. N.W.  
Edmonton, Alberta T6L 2E5  
Phone: 780-490-1955

## **BRITISH COLUMBIA**

Apollo Stone Art Co. LTD  
Unit 105-4471 #6 Road  
Richmond, BC V6V 1P5  
Phone: 604-279-8577

## **MANITOBA**

Athena Small Equipment Repair  
1125 Empress Street  
Winnipeg, MB R3E 3H1  
Phone: 204-786-1900

## **NEW BRUNSWICK**

Electric Motor Services  
129 West Morland Street  
Fredericton, NB E2B 3L4  
Phone: 506-458-8770

## **ONTARIO**

Original Power Tools Co. Ltd.  
7508 Bath Road  
Mississauga, ON L4T 1L2  
Phone: 905-612-8252

Kingspoint Small Engine  
16-190 Bovaird Drive West  
Brampton, ON L7A 1A2  
Phone: 905-453-8048

Struthmann Enterprises  
13 287 Tiffin  
Barrie, ON L4N 7R8  
Phone: 705-726-9892

## **QUEBEC**

GranQuartz Stone Canada  
137 Rue Junction  
Stanstead, Quebec J0B 3E4  
Phone: 800-520-7223

Derusha Supply, Inc.  
33 Canusa Street  
Stanstead, Quebec J0B 3E2  
Phone: 819-876-2722

## **MEXICO SERVICE CENTERS**

ERI Garela, S.A. de C.V. Equipos Y Refacciones  
Industriales Gareli  
Av. Plan de Ayala #3487 Fracc.  
Revolucion Tlaquepaque, Jal. C.P. 45580  
Phone: 3587-5953

LaGacero Abrasivos S.A. DE C.V.  
Cuencame No. 190 Parq. Industrial  
LangueneroComez Palacio, DGO.  
Mexico C.P. 35078  
Phone: 871-719-1141

# Notes

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## Recommended Extension Cords

FLEX tools operate efficiently within 110-120 volts. Improper cord sizing will cause a drop in voltage, resulting in loss of power, overheating, and possible damage to the tool. Determine the rated amp listing of your tool from the specification label on the tool, then use the chart below to determine the proper gauge and length of cord to use.

AMP Rating	Cord Length								
	25	50	100	150	200	250	300	400	500
0-2	18	18	18	16	14	14	14	12	12
2-3	18	18	16	14	14	12	12	10	10
3-4	18	16	14	14	12	12	10	10	
4-5	18	16	14	12	10	10	10		
5-6	18	16	12	12	10	10			
6-8	16	14	12	10	10				
8-10	16	14	12	10					
10-12	16	14	10						
12-15	12	12	10						
15-20	10	10	10						

## Conversion Chart

### inch to mm

1 inch = 25.4 mm

1mm = 3/64 inch

### To Convert to Millimeters (mm)

Multiply inches  
x 25.4

### To Convert to Inches

Multiply millimeters  
x 0.03937 or  
divide by 25.4

**FLEX North America limited**

# **ONE YEAR WARRANTY**

FLEX North America warrants its Professional Power Tools for a period of one year from the date of original purchase. The PLW 923 S Air Stone Sander/Polisher has a 90 day manufacturers warranty. Pneumatic Tools carry a 90 day warranty from the date of purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement, return the complete tool or accessory, transportation prepaid, to your nearest Authorized Service Station. Proof of purchase may be required. This warranty does not apply to o-rings and driver blades, or to repair or replacement due to misuse, abuse, use of electrical converters, normal wear and tear or repairs attempted or made by someone other than our Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance please write to:

**FLEX - North America, Inc.**  
2720 E. Phillips Road  
Greer, SC 29650, U.S.A.  
1-877-331-6103 (main line)  
1-888-331-6104 (fax line)  
[www.FlexNorthAmerica.com](http://www.FlexNorthAmerica.com)

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