



# AIR GRINDERS & TURBOLAP PROFILERS

EXCELLENT PERFORMANCE - OUTSTANDING EFFICIENCY

# AIR GRINDER SYSTEM

## Air Micro Straight Grinder Series

Air Micro Grinder Series provide high-speed rotation, high durability and high precision. Applications in low-pressure environment, ranging from 58 PSI are supported.

The rotation speed, body strength, and the cooling function have further improved compared to the conventional products.

This product comes with all the necessary accessories, such as hoses, joints, and grindstones, you can start using it from the day of purchase.

### FEATURES:

- Comfortable weight and size with a multi angle body design for prolonged jobs
- Pneumatic and capable of continuous operation
- Air-driven yet designed to be kept from getting too cold
- 65,000 rpm for efficiency
- A high precision collet with a small run-out
- Durable structure with four evenly distributed bearings
- Analog on-off valve to adjust the rate of air flow
- Quick change air hose, exhaust overhose, and fitting for easy maintenance
- Repairable for long life
- Equipped with hoses and fittings to be ready for use out of the box
- Requires air pressure of only 58 PSI to save air consumption
- The spiral bevel gear in the angle grinders delivers high durability and high revolution with reduced noise level



### APPLICATIONS

- Polishing and fixing molds, reshaping ejector pins
- Deburring die cast parts
- Processing precision parts
- Removing paint
- Processing engines and more
- Dental crafting
- Shaping stones
- Hobbies and DIY



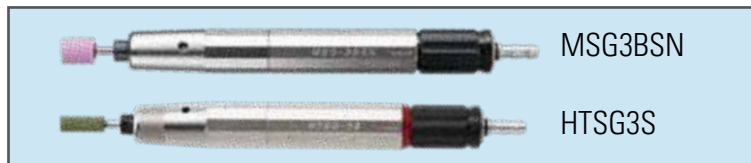
# AIR GRINDER SYSTEM

## Air Micro Straight Grinders

**Air Micro Grinder HTSG3S** is the most powerful high torque Air Grinder among UHT Air Micro Grinder Series. Rotational speed is limited to 24,000 rpm and is designed to be effective in deburring and die polishing. The stable and powerful torque output allows the use of various tip tools such as rubber grinding stones, carbide rotary burs, and mounted felts.

### Ergonomic shape for comfortable grip applications.

The same design as the best-selling MSG3BSN is employed to achieve a slim yet powerful pneumatic hand tool.

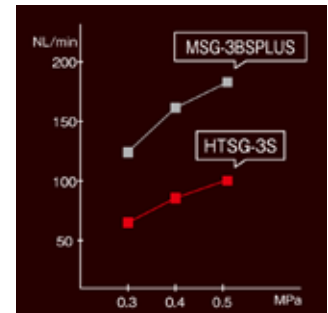


### Highly efficient and air saving

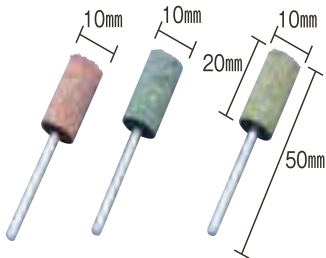
A new high torque air motor is employed to minimize air consumption.

### Ideal for Rubber Grinding Stone "Daiwa Rabin"

Having the rotation speed of 24,000 rpm, this grinder is excellent for use with Rubber Grinding Stone. It also features high torque to offer a great performance with carbide rotary burs.

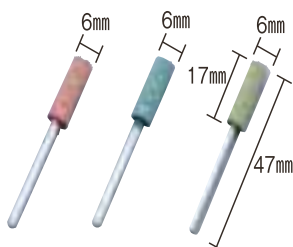


### Tip tools for HTSG3S



Item No.	Stone Ø	Grit - Color
50103200	10	#80 - Red
50103210		#120 - Blue
50103220		#220 - Green

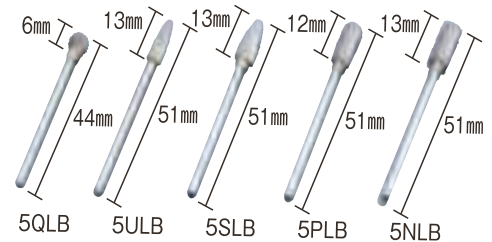
3.0mm Shaft Diameter - 5 per case



Item No.	Stone Ø	Grit - Color
50103230	6	#80 - Red
50103240		#120 - Blue
50103250		#220 - Green

3.0mm Shaft Diameter - 5 per case

### Carbide Rotary Burs



Item No.	Reference
50104270	5QLB
50104280	5ULB
50104290	5SLB
50104300	5PLB
50104310	5NLB

3.0mm Shaft Diameter - 1 per case

# AIR GRINDER SYSTEM

## Air Micro Straight Grinders

### High Torque



Item No.	HTSG3S
Collet Size	Ø 3.0 mm
RPM	24,000 rpm
Air Pressure	58 PSI
Air Consumption	75 NL/min
Weight	135 grams

\* HTSG32S (Collet size of 3.175mm) is also available

#### FEATURES:

- 1.) High torque - It has double the torque of the existing model, providing powerful grinding operations at constant rotation speed under load.
- 2.) 24,000 rpm of rotation speed - Keeping the low speed to provide a stable torque and gives you a wider choice of abrasives such as rubber abrasives, carbide rotary burs and mounted felt points.
- 3.) Air Saving - It uses 40% less air than the existing model, reducing the plant air consumption.

### High Rotation Speed

#### APPLICATIONS:

- Polishing and fixing molds, reshaping ejector pins
- Deburring die cast parts
- Processing precision parts
- Removing paint
- Shaping stones



Item No.	MSG3BSN
Collet Size	Ø 3.0 mm
RPM	65,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	130 grams

Item No.	MSG24BSN
Collet Size	Ø 2.34 mm (3/32in)
RPM	65,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	130 grams

Item No.	MSG32BSN
Collet Size	Ø 3.175 mm
RPM	65,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	130 grams

#### FEATURES:

- 1.) Comfortable weight and size with a multi-angle body for prolonged jobs.
- 2.) 65,000 rpm for efficiency.
- 3.) Pneumatic and capable of continuous operation.
- 4.) Quick change air hose, exhaust overhose, and fitting for easy maintenance.

# AIR GRINDER SYSTEM

## Air Micro Straight Grinders

### Modular Type



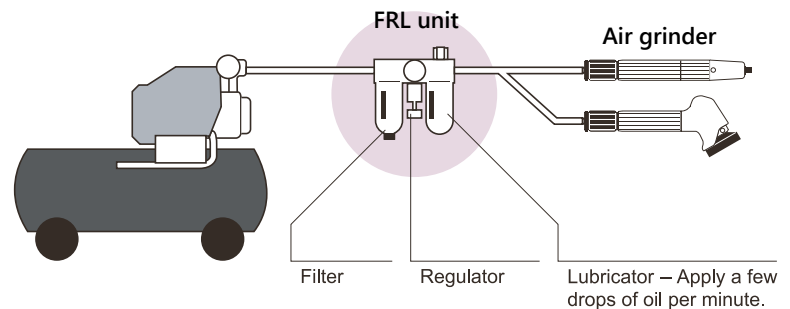
Item No.	FX3
Collet Size	Ø 3.0 mm
RPM	55,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	78 grams

#### FEATURES:

- 1.) It is possible to make on-site repair by customer himself because FX3.0 consists of 4 modules (4 main parts)
- 2.) Lightweight, only 78 grams, because the body is made of resin
- 3.) Special resin grip absorbs the vibration and improves the insulation effects from overcooled and overheated.
- 4.) Widened application from professional use to general use.

### Precautions

- 1.) Make sure to install a filter, regulator, and lubricator (FRL unit) in the air line.
- 2.) Before starting the grinder, apply a few drops of oil from the tip of the hose.
- 3.) The grinding stone may break due to excessive speed if the air supply exceeds 116 PSI



### Cautions

- 1) If you do not use FRL unit, it may result in extremely shortened service life, performance degradation, and heat.
- 2) Repair costs for malfunction of the grinder caused by failure to use the FRL unit will be charged even during the warranty period.
- 3) Be sure to disconnect the grinder from the air pressure source after use. reword sentence. Store in manner to prevent dust and debris from getting in at the quick joint.

# AIR GRINDER SYSTEM

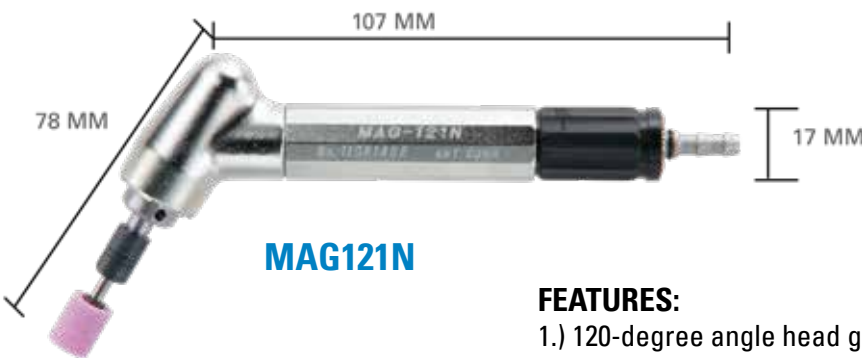
## Air Micro Angle Grinder


**MAG091N**

Item No.	MAG091N
Collet Size	Ø 3.0 mm
RPM	48,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	116 grams

**FEATURES:**

- 1.) Compact head ideal for narrow work spaces
- 2.) 90-degree angle head, easy to keep parallel to the workpiece
- 3.) Reduced noise level
- 4.) Low air consumption at 58 PSI
- 5.) Includes hose with coupler to be ready for use on the spot


**MAG121N**

Item No.	MAG121N
Collet Size	Ø 3.0 mm
RPM	48,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	140 grams

**FEATURES:**

- 1.) 120-degree angle head grinder improving operating efficiency with the ergonomic grip
- 2.) Reduced noise level
- 3.) Low air consumption at 58 PSI
- 4.) Includes hose with coupler to be ready for use on the spot
- 5.) 3.175 mm (1/8") collet model is also available


**MAG122N**

Item No.	MAG122N
Collet Size	M6 - P0.75
RPM	35,000 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	140 grams

**FEATURES:**

- 1.) 120-degree angle head grinder improving operating efficiency with the ergonomic grip
- 2.) Reduced noise level
- 3.) Low air consumption at 58 PSI
- 4.) Higher in speed with smaller head than the MAG-123 and MAG-093, offering more efficient operation
- 5.) Includes hose with coupler to be ready for use on the spot

# AIR GRINDER SYSTEM

## Air Micro Angle Grinder



Item No.	MAG093N
Collet Size	M6 - P0.75
RPM	23,500 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	160 grams

### FEATURES:

- 1.) 90-degree angle head, easy to keep parallel to the workpiece
- 2.) Reduced noise level
- 3.) Low air consumption at 58 PSI
- 4.) Includes hose with coupler to be ready for use on the spot



Item No.	MAG123N
Collet Size	M6 - P0.75
RPM	23,500 rpm
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	175 grams

### FEATURES:

- 1.) 120-degree angle head grinder improving operating efficiency with the ergonomic grip
- 2.) Reduced noise level
- 3.) Low air consumption at 58 PSI
- 4.) Includes hose with coupler to be ready for use on the spot



# AIR GRINDER SYSTEM

## Precision Grinding & Polishing Tools

MSG3BSN  
MSG32BSN  
MSG24BSN



MAG091N



MAG121N  
MAG121N18



### MOUNTED POINTS - Metal Grinding

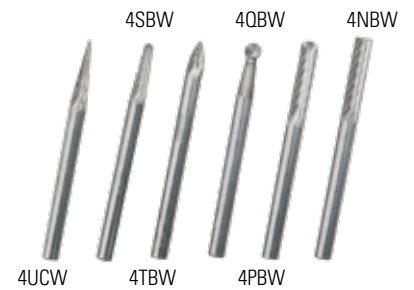
Item No.	Tip Ø	Size
5111MP	3mm	PA 3x10x3 #80
5112MP	6mm	PA 6x10x3 #80
5113MP	8mm	PA 8x10x3 #80
5114MP	10mm	PA 10x10x3 #80



3.0mm Shaft Diameter - 20/pk

### ROTARY BURS - Cutting

Item No.	Type
5121RB	4UCW
5122RB	4ASW
5123RB	4TBW
5124RB	4QBW
5125RB	4PBW
5126RB	4NBW



3.0mm Shaft Diameter - 1/pk  
Material: Carbide Steel

### DISK TYPE SOFT LAP

#### Mirror Face Polishing & Finishing

Item No.	Grit/Color
5150DSL	#120 Black
5151DSL	#240 Yellow
5152DSL	#320 Green
5153DSL	#400 Orange
5154DSL	#600 Pink
5155DSL	#800 Purple
5156DSL	#1000 Lt. Brown
5157DSL	#1500 Blue



3.0mm Shaft Diameter - 25/pk

### MOUNTED TYPE SOFT LAP

#### Mirror Face Polishing & Finishing

Item No.	Grit/Color
5160MSL	#120 Black
5161MSL	#240 Yellow
5162MSL	#320 Green
5163MSL	#400 Orange
5164MSL	#600 Pink
5165MSL	#800 Purple
5166MSL	#1000 Lt. Brown
5167MSL	#1500 Blue



3.0mm Shaft Diameter - 25/pk

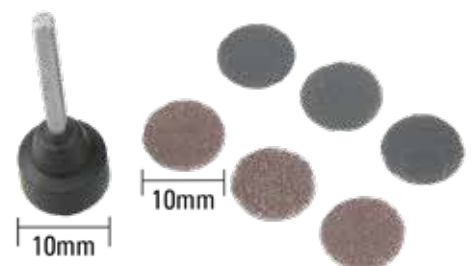
### POL-PER SYSTEM & RUBBER DISC HOLDER

#### Grinding & Polishing

Item No.	Grit	Item No.	Grit	Item No.	Description
5141PP	Ø 10mm #60	5144PP	Ø 10mm #240	5147RDH	Ø 10mm Rubber Disc Holder
5142PP	Ø 10mm #100	5145PP	Ø 10mm #400		
5143PP	Ø 10mm #150	5146PP	Ø 10mm #600		

3.0mm Shaft Diameter - 10/pk

150/pk w 2 rubber disc holders





# AIR GRINDER SYSTEM

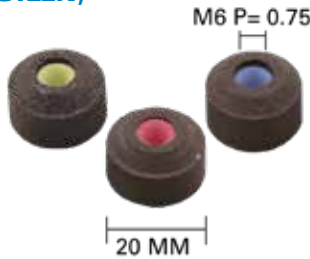
## Precision Grinding & Polishing Tools



### CUP WHEEL (FOR MAG122N)

Grinding

Item No.	Grit/Color
MAG5231	#60 Yellow
MAG5232	#100 Red
MAG5233	#150 Blue

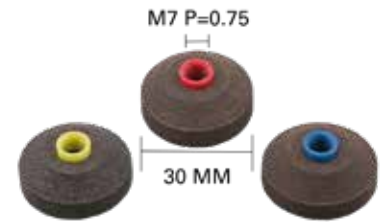


Ø 20mm 24/pk

### CUP WHEEL (FOR MAG132N/MGN093N)

Grinding

Item No.	Grit/Color
MAG5331	#60 Yellow
MAG5332	#100 Red
MAG5333	#150 Blue

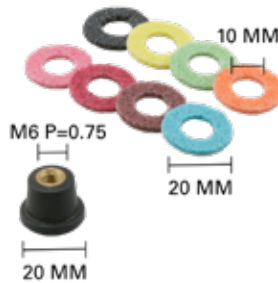


Ø 30mm 24/pk

### NEW SOFT LAP (FOR MAG122N)

Polishing

Item No.	Grit/Color
MAG5260	#120 Black
MAG5261	#240 Yellow
MAG5262	#320 Green
MAG5263	#400 Orange
MAG5264	#600 Pink
MAG5266	#1000 Lt Brown
MAG5267	#1500 Blue

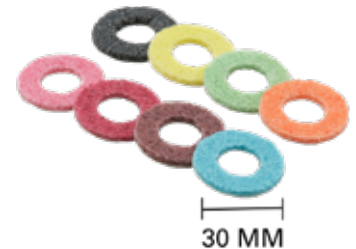


Ø 20mm 40/pk w 1 rubber disc holder

### NEW SOFT LAP (FOR MAG122N)

Polishing

Item No.	Grit/Color
MAG5360	#120 Black
MAG5361	#240 Yellow
MAG5362	#320 Green
MAG5363	#400 Orange
MAG5364	#600 Pink
MAG5366	#1000 Lt Brown
MAG5367	#1500 Blue

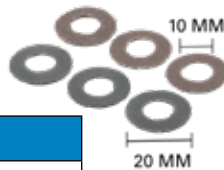


Ø 30mm 25/pk w 1 rubber disc holder

### POL-PER SYSTEM & RUBBER DISC HOLDER (FOR MAG122N)

Grinding & Polishing

Item No.	Grit	Item No.	Grit
MAG5241	Ø 20mm #60	MAG5244	Ø 20mm #240
MAG5242	Ø 20mm #100	MAG5245	Ø 20mm #400
MAG5243	Ø 20mm #150	MAG5246	Ø 20mm #600



Ø 20mm w 2 rubber disc holders / 150/pk

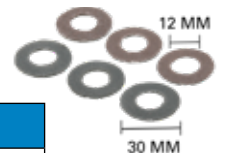


Item No.	Description
MAG5291	Ø 20mm Rubber Disc Holder (10/pk)

### POL-PER SYSTEM & RUBBER DISC HOLDER (FOR MAG132N/MAG093N)

Grinding & Polishing

Item No.	Grit	Item No.	Grit
MAG5341	#60 - 130/pk	MAG5344	#240 - 150/pk
MAG5342	#100 - 140/pk	MAG5345	#400 - 150/pk
MAG5343	#150 - 150/pk	MAG5346	#600 - 150/pk



Ø 30mm w 1 rubber disc holders



Item No.	Description
MAG5391	Ø 30mm Rubber Disc Holder (10/pk)

# TURBOLAP - AIR TYPE LAPPING TOOLS

## Precision Grinding & Polishing Tools

### APPLICATIONS:

- Ideal as a precision machining tool for various industries, such as mold & die making, dental technology and jewelry industry
- Lapping, Polishing, Honing, Carving of mold precision parts.
- Shaving, Carving, Polishing of Precision metals and Jewelry



**TURBOLAP LINEAR (TLL-)**




The linear reciprocating track is particularly powerful for polishing narrow areas and corners of precision parts and components.

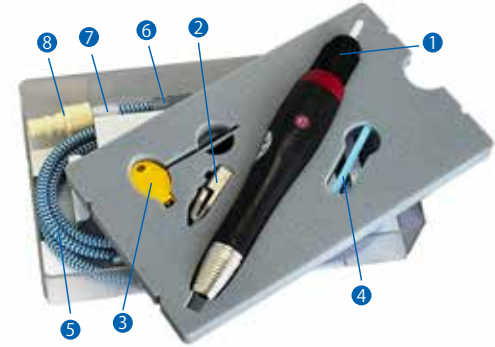


# TURBOLAP - AIR TYPE LAPPING TOOLS

## Air Type Lapping Tools

### TURBOLAP LINEAR SPECIFICATIONS

Model	TLL03	TLL07	TLL12
Stroke (mm)			
Recommended R.P.M.	25,000	21,000	13,500
Noise Level	65 dB (A)		
Air Consumption	30 NL/min		
Vibration Level	8.69 [m/s <sup>2</sup> ]	9.79 [m/s <sup>2</sup> ]	7.86 [m/s <sup>2</sup> ]
Recommended Air Pressure	43.5 PSI		
Length / Weight	218mm / 180g		



### Set Contains:

- |                                   |                              |
|-----------------------------------|------------------------------|
| 1 Turbolap (1pc)                  | 5 Air Hose (1pc) 1.5m        |
| 2 Super Collet (1pc)              | 6 Over Hose (1p)             |
| 3 Hexagonal Wrench (1pc)          | 7 Hose Band (2pcs)           |
| 4 Ceramic Stone (1pc) 1x4x50 #800 | 8 Quick Joint w Filter (1pc) |

### Super Collet

Ø 3~3.18mm

□ 0.5~3mm x 4~10mm

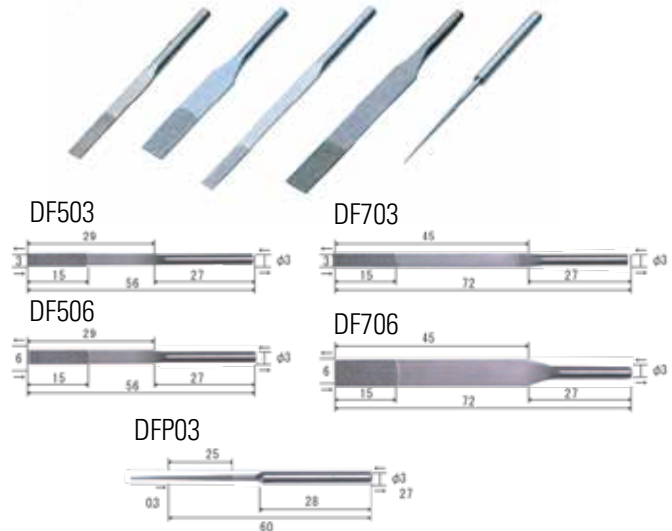


### DIAMOND FILES

Item No.	Grit
DF503200	#200
DF503400	#400
DF503600	#600
DF506200	#200
DF506400	#400
DF506600	#600

5/case

Item No.	Grit
DF703200	#200
DF703400	#400
DF703600	#600
DF706200	#200
DF706400	#400
DF706600	#600
DFP03200	#200

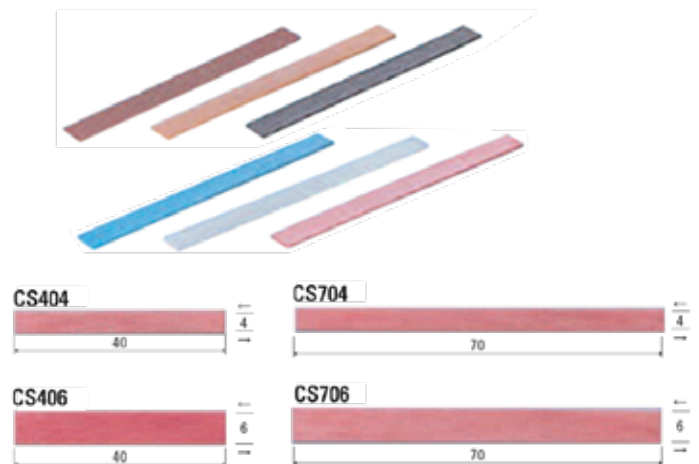


### CERAMIC STONES

Item No.	Grit
CS404300	#300
CS404400	#400
CS404600	#600
CS404800	#800
CS4041000	#1000
CS4041200	#1200
CS406300	#300
CS406400	#400
CS406600	#600
CS406800	#800
CS4061000	#1000
CS4061200	#1200

5/case

Item No.	Grit
CS704300	#300
CS704400	#400
CS704600	#600
CS704800	#800
CS7041000	#1000
CS7041200	#1200
CS706300	#300
CS706400	#400
CS706600	#600
CS706800	#800
CS7061000	#1000
CS7061200	#1200



# TURBOLAP - AIR TYPE LAPPING TOOLS

## Precision Grinding & Polishing Tools

### TLL03



Item No.	TLL03
Stroke	0.3mm
No. of Stroke	52,000
Air Pressure	43.5 PSI
Air Consumption	125 NL/min
Weight	180 grams

#### FEATURES:

- 1.) Lapping tools for polishing molds
- 2.) Easy-grip rubber cover designed to reduce fatigue
- 3.) Super Collet that holds the abrasive stone tight
- 4.) The 0.3 mm short stroke is ideal for lapping narrow areas or edges
- 5.) Includes hose with coupler to be ready for use on the spot

### TLL07



Item No.	TLL07
Stroke	0.7mm
No. of Stroke	28,000
Air Pressure	43.5 PSI
Air Consumption	46 NL/min
Weight	180 grams

#### FEATURES:

- 1.) Lapping tools for polishing molds
- 2.) Easy-grip rubber cover designed to reduce fatigue
- 3.) Super Collet that holds the abrasive stone tight
- 4.) The 0.7 mm standard stroke works for all-around operations
- 5.) Includes hose with coupler to be ready for use on the spot

### TLL12



Item No.	TLL12
Stroke	1.2mm
No. of Stroke	19,000
Air Pressure	58-87 PSI
Air Consumption	120 NL/min
Weight	140 grams

#### FEATURES:

- 1.) Lapping tools for polishing molds
- 2.) Easy-grip rubber cover designed to reduce fatigue
- 3.) Super Collet that holds the abrasive stone tight
- 4.) The 1.2 mm long stroke is a good choice for lapping wide areas
- 5.) Includes hose with coupler to be ready for use on the spot

# SONOCRAFT FINISHING MACHINE

## Precision Grinding & Polishing Tools

SonoCraft finishing machine provides application versatility; with a broad variety of accessories and tools it can be used for ultrasonic polishing, simple ultrasonic cutting, metal working, geological survey and fossil cleaning, removal of film on printed circuit boards and a host of other applications.



### ST360 Oscillator Controller

<b>Max. Output Power</b>	45W	<b>Oscillation Mode</b>	4 steps
<b>Frequency</b>	21 - 24 kHz	<b>Application Standard</b>	CE certification
<b>Power Consumption</b>	150VA	<b>External Dimension (mm)</b>	130 x 250 x 240 (H)
<b>Frequency Adjustment</b>	Automatic feedback system	<b>Weight</b>	2.6kg
<b>Amplitude Adjustment</b>	Continuous variable		



### HP9760 Ultrasonic Handpiece

<b>Tool Screw Diameter (Screw Thread)</b>	M6 (with M6-M4 adaptor)
<b>Transducre Cord</b>	1.7M (curl type)
<b>External Dimension (mm)</b>	Ø28 x 118(L)
<b>Weight</b>	150g
<b>Cooling System</b>	Air-cooling



### ST360S Controller Set (includes)

Oscillator (Controller)
Ultrasonic Handpiece
Standard Tools & Accessories*
Power Cord
Toolbox



- 1.) SE-8851
- 2.) SE-5845 Diamond file
- 3.) HR-2020 Chisel holder
- 4.) TF-1000 Chisel
- 5.) TR-1000 Chisel
- 6.) TB-3000 Chisel
- 7.) MX-4010 Tool clamp
- 8.) NSP106F Ceramic stone
- 9.) NSR106F Ceramic stone

1, 2, 8, 9 - individual replacements available as standard items  
 3, 5, 6, 7 - individual replacements available are soecial order



Spanners: 3 pcs (2 pcs M10 / 1 pc M8)



Torque wrench 1pc  
 Heaxgonal wrench 1 pc

\*Note: Jewelry making, engraving, metal working and archaeological tool and accessories available upon request

**With tens of thousands of products to choose from, DME is your one-stop shop for everything molding.** From complex undercuts solutions and plate control to standard pins, bushings and interlocks, the DME line of mold components will help you build or rebuild your mold base inside out, top to bottom. Industrial Supplies, Mold Bases, MUD Quick-Change, Control Systems, and Hot Runner solutions round out our extensive offering to truly be your one-stop shop.



[www.dme.net/estore](http://www.dme.net/estore)



**World Headquarters**

**DME Company LLC**

29111 Stephenson Highway  
Madison Heights, MI 48071

**800-626-6653** toll-free tel

**248-398-6000** tel

**www.DME.net** web

**DME@DME.net** e-mail

**DME of Canada Ltd.**

5345 Outer Drive - Unit 3  
Oldcastle, Ontario  
Canada N9G 0C4

**800-387-6600** toll-free tel

**905-677-6370** tel

**DME\_Canada@DME.net** e-mail

**DME Mexico / South America**

Circuito el Marques Notre, No.55  
Parque Industrial El Marqués  
El Marqués, Querétaro, CP 76246

**52.442.713.5666** tel

**DME\_Mexico@DME.net**

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