Handpieces for Laboratories

Air Laboratory Handpieces

AIR TURBINE HANDPIECE - BUFFALO

A classic, economical, 350,000 rpm air turbine handpiece that features powerful and comfortable operation.

* Excellent power and torque for coarse grinding of porcelains and non precious alloys
* Compact light weight design promotes ergonomic comfortable operation
* FG-Sized chuck and turbines y stem feature extended life and minimal maintenance
* Convenient push rod for ejection of friction held 1/16” diameter burs

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>009-01000</td>
<td>#220 Air Turbine Complete w/ Foot Control- Reg- Access. #220 Handpiece- 350-000 ...</td>
<td>US$ 420.00</td>
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<tr>
<td>009-01108</td>
<td>#220 Air Turbine Handpiece- 350-000 Rpm- Fg Size handpiece Only- #220 Stock 3 Us...</td>
<td>US$ 270.90</td>
</tr>
</tbody>
</table>

WORLDENT- 106810 AIR-FORCE- Hndpc only

WORLDENT- AIR-FORCE- Air Force Handpiece only - Air Laboratory Handpieces
Replacement part
# 106810 - Mfg: # 106810

WORLDENT - 101138 Airforce 300.000HP System US$ 756.00

WORLDENT - AIR-FORCE 300.000HP System Complete
Air Laboratory Handpiece
# 101138 - Mfg: # 101138

Advantage:
* High Performance High Speed Air Handpiece 300,000 rpm
* Sealed Encapsulated
* Turbine Cartridge
* Sleek Ergonomic Tabletop Design
* Unique Built-in Bur Ejection System
* Whisper Quiet Smooth Operation
* No Oil or Oil Mister Necessary
* Automatic Dispensing "Gel-Pod" Lubrication Cartridge
* CE Certified

Technical Specification
Speed: 300,00 rpm
Recommanded Air Pressure (Max): 35 psi ( 2.5 bar )
### Air Laboratory Handpieces

#### Handpiece Specifications

- **Handpiece Weight**: 2 oz (55 gm)
- **Air consumption**: 34-35 L/min
- **Bur Type**: Straight FG
- **Bur Diameter**: 1.59-1.60 mm (1/6)
- **Bur Length (max)**: 25 mm
- **Air Force Complete Includes**: High speed air handpiece with encapsulated sealed CADCAM turbo cartridge, removable chuck, pressure gauge regulator, "moisture guard" condensation & filtration system, built-in bur holder, injection Gel-Lube / applicator, bur insertion capsule, on/off foot pedal with hoses and built-In handpiece holder.

#### DIGITECH - 124484 DIGITECH F-16 Air Wat Cntrl unit

**DIGITECH - F-16 AIR/WATER Control Unit for High Speed System handpieces ( turbines ) - Would work with most air Laboratory & Clinic handpieces in the market - Includes water bottle # 002231**

**Functionality:**
- Air Laboratory Handpieces
- Mfg # 002231

**Technical specifications**
- Pressure Regulator
- Water Tank with Regulator
- Holes cponnection Borden, or Lab Handpiece Compatible

**Net Weight:** 1.399 kg
**Working Pressure:** 30 - 70 Lbs

**Quantity:** 1

**Price:** US$ 169.00

#### ECCO - 103828 ECCO Air Lab.Turbine Complete

**ECCO - Air Lab Turbine Complete**

**Functionality:**
- Air Laboratory Handpieces

**Feature:**
- Use for laboratory use which is featured suitable for the most efficient high-speed laboratory handpiece assuring maximum dexterity when operating. This handpiece is well balanced with high torque designed to meet the demand of up-to-date dental laboratory technique of porcelain tooth., adjustment of masticating surface or occlusion and plate grinding.

- This handpiece is very quiet without vibration. The turbine is cartridge for quick change.
  - Reg. Access
  - 350-000 Rpm - Fg size

**Air Lab High Speed Handpiece System Complete with foot control**

**Price:** US$ 446.25
Handpieces for Laboratories
Air Laboratory Handpieces

**OSADA- 110514 Elec Handpiece System XL-230**

**OSADA - Electric Handpiece System XL-230 with MVFP Variable Speed**

**Air Laboratory Handpieces**
# 110514

**Features:**
* Smooth, well tuned.
* Variable Speed 900-30,000 min.
* Torque 4.8 Ncm with Feedback Circuitry.
* Shown with LHP6 Laboratory Handpiece (NOT INCLUDED).
* Rotate the Speed Dial to point the Green Beam to the top speed you wish to use for each procedure.
* The Green Beam pulsates on reverse rotation and warns irregularity by repeated rapid 3.
* Safe operation is assured because the MVFP Foot Pedal linearly varies the speed from the lowest through the user set maximum speed.

US$ 1,344.00

**RENFERT - 92900-0001 IT Handpiece only 25/250 um**

**RENFERT - IT Handpiece only 25/250 UM Each**

**Air Laboratory Handpieces**
# 92900-0001 - Mfg # 929000001

**Feature**
Blasting handpiece in a conversion kit for older Renfert blasting units.

**Description**
* High-tech material of the nozzle guarantees a long service life;
* Fit it all Renfert basic versions and to the Keramo 4 blasting unit.

US$ 19.70

**NEY - 007-7200990 Lab Handpieces Grand Hurricane**

**NEY - Lab Handpieces Grand Hurricane - Complete**

**Air Laboratory Handpiece**
# 007-7200990 - Mfg # 7200990

**Feature**
- The high-speed handpiece designed for high-production laboratories.
- Ideal for contouring porcelain, metal or composites.
- Totally enclosed sealed turbine cartridge offers greater torque at 300,000 rpm.
- Ergonomic shape, stainless steel construction and vibration-free operation makes

US$ 750.00
the Grand Hurricane the standard in high production handpieces.

- 300,000 rpm on 2-3 CFM Operates at 35-40 psi
- Heavy duty turbine
- Ultimate torque
- Foot control.
- Stainless steel construction
- Interchangeable chuck accepts up to 1/16" friction burs.
- 5-11/16" x 5/8"
- 3 oz.

Includes: handpiece, collet tool, single foot control, filter regulator, tubing, handpiece oil and owners manual.

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**BESQUAL - 101962 Lab High Speed HP MT-35OR**

**Features:**
* Laboratory straight Handpiece
* Especially for laboratory use which is featured suitable for the most efficient high-speed laboratory handpiece assuring dexterity when operating
* This handpiece is well balanced with high torque designed to meet the demand of up to date dental laboratory technique of porcelain tooth - adjustment of masticating surface of occlusion and plate gridding
* turbine cartridge is for quick change

Replacement cartridge: BESQUAL- 101963

**Rpm:** 350.000

**Weight:** 80g

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**MARATHON - 122283 MARATHON H300 A Control Unit**

MARATHON H300 Air Control Unit for High Speed System handpiece - Would work with most air lab handpieces in the market - **MARATHON H300**

**Features and Benefits:**
Air Turbo is a high-speed laboratory handpiece with built in water coolant.
Its specially designed for zirconia based ceramics and all other ceramics.
Its unit water spray features eliminates heat generated during use and prevents cracks that result from excessive heat.
The outer handpiece casing has a special protection mechanism that significantly reduces debris from entering into the handpiece. Result is longer turbine life and less maintenance.

Would work with most air lab handpieces in the market.

Quantity: 1

LAB-AIR Z - SHOFU

Oil-Free or manually oiled models that provide a slim, comfortable grip design Whisper-quiet, air driven operation that maintains high torque at speeds up to 350,000 rpm.
Precise metal chuck to hold FG diamonds or carbides firmly in place-Corrosion resistant, economically priced, durable and reliable.

Indication:
The Lab Air-Z turbine is particularly suitable for powerful and exact work on ceramics, metal and composites.

Benefits:
Easy to use
Low-noise
Smooth running
Ergonomically shaped
Light-weight instrument

Technical features:
Speed: 360,000 rpm
Operating pressure: 2.5 bar max.
Air consumption: 30 l/min.
Collet chuck: 1.6 mm

Weight: 79 g

ALSO AVAILABLE OILES

US DENTAL DEPOT Inc is an Authorized SHOFU Dealer in the US.

CARTRIDGES

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>112063</td>
<td>SHOFU - Lab Air Z Turbine Cartridge ( #5221 )</td>
<td>US$ 208.34</td>
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<tr>
<td>112072</td>
<td>SHOFU - Oil Free Lab Air Z Cartridge -( #5321 )</td>
<td>US$ 238.46</td>
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</table>
## Handpieces for Laboratories

### Air Laboratory Handpieces

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
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<tbody>
<tr>
<td>112070</td>
<td>SHOFU - Lab Air Z System - (#5239) ( needs oil ) Contains: Lab Air-Z Hand-Piec...</td>
<td>US$ 636.29</td>
<td>+Info</td>
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<tr>
<td>112073</td>
<td>SHOFU - Lab Air Z Oiless System- 5339- Includes Hand piece Foot Air Controller A...</td>
<td>US$ 837.92</td>
<td>+Info</td>
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### Handpieces Only

<table>
<thead>
<tr>
<th>Code</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>113745</td>
<td>SHOFU - Lab-Air Z HandPiece Only - #5220 - ( need oil ) comfortable grip desig...</td>
<td>US$ 446.71</td>
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<tr>
<td>112062</td>
<td>SHOFU - Lab Air-Z Oil Free HandPiece -5320- Oil Free or manually oiled models ...</td>
<td>US$ 498.00</td>
<td>+Info</td>
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### Replacement Parts

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>112067</td>
<td>SHOFU - Lab Air Z Air Cap - (#5227)</td>
<td>US$ 10.42</td>
<td>+Info</td>
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<tr>
<td>112065</td>
<td>Shofu - Lab Air Z Chuck Tool -#5223</td>
<td>US$ 17.56</td>
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<tr>
<td>112066</td>
<td>SHOFU - Lab Air Z Cart Tool -(#5224)</td>
<td>US$ 24.75</td>
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<tr>
<td>112064</td>
<td>SHOFU - Lab Air Z Chuck - (#5222)</td>
<td>US$ 45.16</td>
<td>+Info</td>
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<tr>
<td>112069</td>
<td>SHOFU - Lab Air Z Filter/ Regulator - (#5234)</td>
<td>US$ 102.25</td>
<td>+Info</td>
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<tr>
<td>112068</td>
<td>SHOFU - Lab air Foot Air Controller - (#5230)</td>
<td>US$ 109.16</td>
<td>+Info</td>
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</tbody>
</table>

### MARATHON - 116094 MARATHON H300 A US$ 509.25

**High Speed Sys**

MARATHON - Air Turbo High Speed System

* Features:
  * Complete #AT300A
  * Air Turbo is a high-speed laboratory handpiece with built in water coolant.
  * Its specially designed for zirconia based ceramics and all other ceramics.
  * Its unit water spray features eliminates heat generated during use and prevents cracks that result from excessive heat.
  * The outer handpiece casing has a special protection mechanism that significantly reduces debris from entering into the handpiece.
  * Result is longer turbine life and less maintenance.
  * H300

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<tbody>
<tr>
<td>123017</td>
<td>MARATHON H300 High Speed hand piece Only - H300 [ aqua ]</td>
<td>US$ 309.75</td>
<td></td>
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</tbody>
</table>

**MARATHON - 123017 MARATHON H300 High Spd HP Only** US$ 309.75

MARATHON H300 High Speed hand piece Only - H300 [ aqua ]

* Features:
* It's specially designed for zirconia based ceramics and all other ceramics.
* The outer handpiece casing has a special protection mechanism that significantly reduces debris from entering into the handpiece.
* Result is longer turbine life and less maintenance.

**MARATHON - 116095 MARATHON H300 W High Speed Sys**

MARATHON - Air Water Turbo High Speed System
Air Laboratory Handpieces
# 116095

**Features:**
Unit is equipped with water spray feature that eliminates heat generated during use and prevents cracks that can result from excessive heat.
* H300W

**US$ 614.25**

**OSADA- 106984 Micromotor System**

OSADA - Micromotor System EXL-M40
Air Laboratory Handpieces
# 106984 - Mfg #EXL-M40

**Features:**
* EXL-M40 comes complete with the LHP12 Handpiece, L12M BRUSHLESS Micromotor, MC Motorcord, and New MVFP Foot Pedal.
* High torque/low speed operations with unbelievably quiet, smooth, vibration-free performance supplied by a compact power console.
* Safe operation with user-set maximum speed for each procedure.
* Comfortable-to-use MVFP Foot Pedal utilizes a magnetic sensor to provide soft-but-firm control and reduced user fatigue.
* Easy-to-see Blue Beam indicator on the Speed Dial (the Blue Beam pulsates to indicate operational irregularities).
* Comfortable, slender, well-balanced light-weight LHP12 Laboratory Handpiece/L12M Brushless Micromotor and Cord.
* Variable Speed 1000-4000min
* Torque 4.8 Ncm with Feedback Circuitry with LHP12 Laboratory Handpiece Assembly and MVFP Variable Speed Foot Pedal with Magnetic Sensor.

**US$ 1,328.25**

**NSK- 002-PR304 Presto Handpiece Only**

NSK - Presto Handpiece Only
Handpieces Laboratory
# 002-PR304 - Mfg #T815

**US$ 488.54**
Handpieces for Laboratories
Air Laboratory Handpieces

Features:
* 320,000 min-1
* Water coolant spray
* Requires no lubrication
* Swivel twist-free handpiece
* Low noise and vibration
* Unique dust-proof mechanism

(ORIGINAL NSK - MADE IN JAPAN - SEALED BOX - FACTORY WARRANTY)

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**NSK-100151 Presto Aqua 2 Compl Set**  
**US$ 1,344.00**

NSK - Presto Aqua II Complete System
Air Laboratory Handpieces
#100151 - Mfg #Y150-023

**Description:**
The PRESTO AQUA II comes with a coolant water spray that eliminates heat build-up on target substrate to prevent micro-cracks and decrease dispersal of debris and chips. It is specially designed for all ceramic work, particularly suitable for zirconium-based ceramics. Being lubrication free, it not only saves materials from contamination by oil but also contributes to a tidy work environment. With its direct water system both original bottle water and tap water are available.

**Features:**
* Ideal for precise ceramic cutting and finishing
* Decrease dispersal of debris and chips
* Coolant water spray which enables shorter operation time and longer bur life-Requires no lubrication
* Easily-removed water bottle-Direct water system
* Two water spray options (droplets or fine mist spray)
* Swivel twist-free handpiece
* Low noise and vibration-Unique dust
* Proof mechanism to protect internal components from debris

**Contains:**
* PRESTO AQUA II unit
* PRESTO AQUA handpiece
* QD-J B3 coupling
* Hose for PRESTO AQUA II
* Foot control (AFC-40)
* Secondary hose for PRESTO

**Specifications:**
* 320,000 min-1
* Coolant water spray
* Bottle/tap water switching function
* Special dust proof mechanism
* Lubrication free

(ORIGINAL NSK - MADE IN JAPAN - SEALED BOX - FACTORY WARRANTY)
NSK- PR304SET Presto II Complete set

NSK - PRESTO II Complete Set
Handpiece Laboratory
# PR304SET - Mfg # Y150-022

Features:
* Lubrication free laboratory air turbine handpiece
* PRESTO II is specially designed for ceramic cutting. Being lubrication-free
* Not only saves materials from contamination by oil but also keeps a tidy work environment.
* Its user-friendly air turbine handpiece is lightweight and compact, just 130mm in length.
* Ergonomically designed grip assures user comfort and easy operation even during demanding procedures.

Product Features
* Ideal for precise ceramic cutting and finishing
* Requires no lubrication
* Lightweight and compact

Presto Complete set - Porcelain / Ceramic Laboratory Air Turbine Unit 320000Rpm Complete Set.

(ORIGINAL NSK - MADE IN JAPAN - SEALED BOX - FACTORY WARRANTY)

NEY - 007-7200904 Turbine Assembly

Hurricane
NEY - Turbine Assemblies Hurricane
Turbines For Lab Handpieces
# 7200904

Feature:
The high-speed handpiece designed for contouring porcelain, metal or composites and engraving. Totally enclosed sealed turbine cartridge offers greater torque and variable speeds at 300,000 rpm. Complete system includes handpiece, collect tool, foot control, filter regulator, tubing, handpiece, oil, manual and one-year warranty.

* Turbotecnic/2
* Turbo 300

Description:
* Ergonomic shape
* Stainless steel construction
* Vibration-free operation
WORLDENT - AQUA SPRAY COMPLETE

WORLDENT - AQUA SPRAY COMPLETE - High speed Lab

* High speed Lab HP with cool mist spray.
* System complete, with pedal, water reservoir
* Air pressure regulator with gauge and an on board moisture control.
* No oil or gel type lubrication needed. No metal ball bearings.
* New high temperature Zirconium ceramic bearings that almost never wear out.
* Sealed cartridge.
* Independant long life chuck.
* Key micromotor turnina laboratorio handpiece water.
* Adjustable Fine Cool Mist Spray.
* Comfortable Lightweight.

Technical Specifications

- Speed - 300,000 rpm
- Recommended Air Pressure (max) - 35 psi 2.5 bar
- Handpiece Weight - 2.9oz 80g
- Air Consumption - 34-35 L/min
- Bur Type - Straight FG
- Bur Diameter - 1.59-1.60 mm
- Bur Length (max) - 25mm

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>100587</td>
<td>AQUA-SPRAY - High speed Lab HP with cool mist spray 110v System complete- with pedal</td>
<td>US$ 1,008.00 +Info</td>
</tr>
<tr>
<td>114847</td>
<td>AQUA-SPRAY - High speed Lab HP with cool mist spray 220v System complete- with pedal</td>
<td>US$ 1,008.00 +Info</td>
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</tbody>
</table>

Handpieces for Laboratories
Handpieces for Hanging motors

HANDPIECE FOR HANGING MOTOR - FODEROM

HANDPIECE FOR HANGING MOTOR - FODEROM

3/32 inch shank

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>101390</td>
<td>30H Handpiece for hanging motor - accepts accessories with a 3/32 inch shank</td>
<td>US$ 78.75 +Info</td>
</tr>
</tbody>
</table>

Quick Change 2.35mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>100963</td>
<td>H10 Handpiece for hanging motor - Quick Change bur release use only with 0.003in...</td>
<td>US$ 239.40 +Info</td>
</tr>
<tr>
<td>100961</td>
<td>H18 Handpiece for hanging motor - quick change bur release - use only with 0.032in...</td>
<td>US$ 152.25 +Info</td>
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<tr>
<td>100962</td>
<td>H20 Handpiece for hanging motor - Quick Change bur release use only with 0.032in...</td>
<td>US$ 89.25 +Info</td>
</tr>
</tbody>
</table>
Handpieces for Laboratories

Handpieces for Lab Only

**HANDLER - 115200 Syncro Torque III**

- **Handpiece**
- **HANDLER - Syncro/Torque III**
- **Handpieces For Lab Only**
- **# 115200 - Mfg # 500-3**

**Features:**
- One of the highest rated lab handpieces in the industry, the Syncro Torque III provides excellent torque and concentricity.
- A Handler Exclusive, the Syncro/Torque III is a precision balanced electronic handpiece for detailed, sophisticated lab work. Its hand held micro-motor provides the technician with 0 to 35,000 rpm variable speed which may be preset at the table top control box and varied with an accelerator type foot switch.
- The foot switch can also be side mounted as a knee treadle.
- Changing of standard 3/32" [2.4mm] burs and mandrels is made easy with a twist of the handpiece body to open the collet, and a reverse twist to close.
- Maintenance is made easy by un-threading the vibration free handpiece to remove the chuck for cleaning of the collet.
- The 500-3 Syncro/Torque is shipped complete with handpiece, micro-motor, variable speed foot switch and control box.

**Shipping Weight:** 12 lbs. - (5.4 Kg)

**Unit Dimensions:** 7 1/8" L x 6 3/4" D x 2 5/8" H (18 cm x 17 cm x 7 cm)

**Volts:** 115V/60Hz

Available in 230V/50Hz

**US$ 1,375.74**
<table>
<thead>
<tr>
<th>Catalog Index / Indice</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Laboratory Handpieces</td>
<td>1</td>
</tr>
<tr>
<td>Handpieces for Hanging motors</td>
<td>10</td>
</tr>
<tr>
<td>Handpieces for Lab Only</td>
<td>11</td>
</tr>
</tbody>
</table>