



PERFORMANCE STARTS HERE

# LBB-1660

MANUAL HONE FOR PRECISION ROD RECONDITIONING



# SUNNEN'S LBB-1660 HONE: GETS YOU INTO H



## THE SUNNEN® ROD HONING METHOD IS PREFERRED FOR PRECISION - WORLDWIDE.

The LBB-1660 produces a round and straight honed bore ... in all respects equal to or better than manufacturer's new rods.



You can keep your rod inventory at a minimum and provide fast turnaround service on your customers' own rods.

Honing units are available for complete rod reconditioning diameter ranges of 1.450 in. to 4.700 in. (36,9 - 119,4 mm).

## PIN FITTING PRECISION, TOO!

The LBB-1660 hones both piston pin holes at the same time for perfect center line alignment of the holes ... as important as hole size!

Pin fitting with the LBB-1660 will give you pre-run-in fit with full bearing surface.

You can expect accuracy to .0001 in. (.0025 mm) with the Sunnen LBB-1660.

Mandrels from .370 in. to 2.625 in. (9,4 - 66,7 mm) are available for pin fitting and other automotive jobs.

# HIGH PROFIT ROD RECONDITIONING



## ONLY A FEW JOBS PER MONTH WILL PAY FOR YOUR SUNNEN LBB-1660 HONE AND GAGE.

**A ready-made market!** Rods should be reconditioned on every major overhaul and engine rebuild. And the Sunnen LBB-1660 is the method your customers know and trust.

**You make more money faster** and easier reconditioning rods with the Sunnen LBB-1660 than most other shop operations. You do a set of eight rods in less than 40 minutes.

**Increases parts sales.** You get an extra profit bonus from additional parts sales of related items on every job.

**And it is versatile.** In addition to rod reconditioning, the Sunnen LBB-1660 does King Pins, air compressors and small bore engines like those found on motorcycles, boats and lawn mowers.





**THE LBB-1660,  
BUILT AND BACKED BY  
SUNNEN, THE LEADER IN  
AUTOMOTIVE HONING**

**SIX SPEED V- BELT DRIVE**

Provides optimum speed for a wide range of diameters ... 200 -640 rpm.

**POWERFUL ELECTRIC MOTOR** with enough power to recondition larger rods.

**AG-400 PRECISION GAGE (OPTIONAL)**

The most widely accepted gage in the industry and for good reason! It's rugged, reliable and accurate. Reads in "tenths" - .0001 in. (.0025 mm).

**GAGE SETTING FIXTURE**

Transfers pin size from the pin to the AG-400 Precision Gage. Eliminates discrepancies between the size of setting masters and parts being honed.

**DUAL CUTTING PRESSURE DIALS**

Light and heavy cutting pressure dials give you the optimum adjustability for good stock removal rates with maximum stone life. (Heavy cutting pressure dial not visible.)

**SUNNEN TOOLING**

Highest quality mandrels and Sunnen-manufactured stones in stock for same day shipments. A full line of industrial tooling is also available for extra profits on non-automotive applications.





**PRECISION STONE FEED UP SYSTEM**

Accurate stone feed up for precise stone wear compensation.

**DRIP TRAYS (OPTIONAL)**

Provide work surface for in-process parts and allow honing oil to drain for re-use. (Two drip trays are included in optional CRF-100 Connecting Road kit.)

**ADJUSTABLE THREE JET HONING OIL DELIVERY SYSTEM**

Easily adjusted to assure even flow of honing oil over the part being honed and the entire mandrel.

**SELF CONTAINED OIL TANK**

Holds 15 gallons (58.8L) of Sunnen Honing Oil.

**ADJUSTABLE PEDAL BAR**

Length is adjustable for maximum operator comfort.

## ***THE COMPLETE SUNNEN ROD RECONDITIONING PACKAGE***

Sunnen provides everything you need to start making money right away! Just order the following:

### **1. LBB-1660 Honing Machine**

Shipped assembled and ready for operation with a minimum of setup required. Includes:

- MAN-700 Diamond Dresser
- LBN-740 Work Support
- LBN-730 V-8 Con-Rod Support
- LN-0116A Eccentric Sleeve

### **2. AG-400 Precision Gage**

The AG-400 is the industry standard for precision gaging (order separately). Assures accuracy within .0001 in. (.0025 mm) with a range of .375 in. - 3.375 in. (9.5 - 85.7 mm) with optional point sets.

### **3. MAN-845-5 Five Gallon (18.9 L) Honing Oil**

Use genuine Sunnen Honing Oil for faster cutting, maximum stone life and finest surface finish. Machine requires 15 gallons (56.8 L). (Order separately.)

### **4. Tooling and Accessories**

Select Sunnen-manufactured mandrels, stones and accessories to fit your exact applications. No one offers a more complete package than Sunnen.

## SUNNEN LBB-1660 THE MOST VERSATILE MACHINE IN YOUR SHOP



**PISTON PIN BORES** - One of the most critical tolerances in engine rebuilding. Make sure pin holes are perfectly aligned and to size with Sunnen honing. You may even want to "touch up" factory-new piston pin holes to meet your specs.



**SMALL BORE ENGINES** - Sunnen honing makes quick work of whatever kind of small bore engines you work on ... motorcycles, lawn mowers, chain saw, garden tractor ... single or multiple-cylinder, two- or four-stroke.



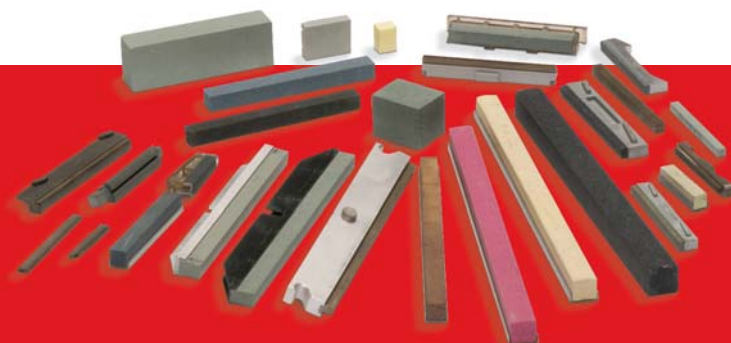
**KING PIN BORES** - Even lower volume operations such as king pin rebuilding can be profitable with the versatile Sunnen LBB-1660.

## SUNNEN-MADE ABRASIVES

From aluminum oxide to silicon carbide to diamond and CBN, Sunnen manufactures the industry's largest variety of abrasives, bond types, grain sizes and stone configurations.

Before any stone is shipped, it is graded and qualified, maintaining the most exacting quality control standards in the industry to assure you of the most precise and consistent honing performance available.

Since 1924, Sunnen has been the leader in honing. We constantly improve our automotive honing systems by incorporating the same technology we put into our high-production, automated systems used by OEM engine component manufacturers. Sunnen systems are reliable, durable and flexible and are designed to deliver the precision our customers have grown to expect.





## SPECIFICATIONS:

### SPINDLE SPEED:

200 to 640 rpm

### SPINDLE MOTOR:

.5 Hp (.37 kw)

### DIAMETER RANGE (ID):

Manual Stroking- .370 -4.700 in.

(9.4 - 119 mm)

With CRF-100 Stroking Kit: 1,450 - 3.300 in.

(37-84 mm)

### HONING OIL PUMP:

Centrifugal pump driven from the spindle motor

### HONING OIL CAPACITY:

15 gallons (58.8 L)

### ELECTRICAL SYSTEM:

110/230 V, 1-phase, 60 Hz

Also available in 220/380/440 V,

3-phase, 50 Hz

### FLOORSPACE:

27.5 in. wide by 28.25 in. deep by 62.5 high

(700 mm by 730 mm by 1590 mm)

### SHIPPING WEIGHT:

Approximately 675 pounds (306 kg)

### OPTIONAL CRF-100 MANUAL STROKING KIT FOR CONSISTENTLY STRAIGHT BORES ROD AFTER ROD

This kit provided controlled hand stroking of connecting rod on a special fixture and gives many advantages over conventional hand stroking. It can be factory installed when order or retrofitted in the field.

## TOOLING

Sunnen offers a wide range of tooling for connecting rod reconditioning.



SRT tools deliver excellent accuracy with Sunnen diamond or CBN abrasive stones.

CR Honing Units are specially designed for honing con rod bores to original size on low-to-mid-volume rod reconditioning machines.

## SUNNEN PREMIUM HONING OILS & COOLANTS

Sunnen's premium honing oils and coolants provide extreme lubricity for higher honing pressure and harder abrasives, delivering faster, lower cost-per-part and ultimately more profitable cutting rates.





A LEGACY OF EXCELLENCE SINCE 1924.

## WORLDWIDE

Our global manufacturing, distribution, and sales and service network allows us to deliver quality Sunnen solutions worldwide.

And our state-of-the-art Technical Services Centers allow our technical experts to develop innovative solutions to customer application challenges. The Centers also provide answers for customer questions and training for Sunnen representatives around the world.

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