Since 1972, The Carlson Company remains a leading supplier of service equipment to the Motorcycle and Powersports Industry. We specialize in providing your service departments with the right equipment for profitable service. With over 45 years of industry dedication, we have built a reputation with our customers as a supplier of the best service equipment available to the Powersports Industry.

As a leading Powersports service equipment supplier, we take pride in offering products that fit our industry’s specialized needs. Today’s service departments are evolving rapidly as profit centers for new and existing dealers and The Carlson Company is leading the way with innovative products that are brought to market specifically to address the needs of today’s dealers. The product selection offered is the direct result of our industry experience, motorcycle expertise, and commitment to quality products.

Quality assurance is our top priority. We do the shopping for you. Our product line is researched and tested before we offer it to our customers. Quality Equipment right from the start guarantees you years of dependable service life. We continue to improve and expand our equipment line to help you do a better job in less time. Our mission statement remains intact and reflects our steadfast commitment to innovate and supply the best service equipment available to our industry.

Superior Customer Service You Can Count On! We are committed to our customers Before - During - and After the sale. Our Powersports Industry expertise guarantees you’ll get the right answers and the right equipment for your shop.

Ask us about LEASING your Equipment.
(Lease to Own with a $1.00 buy-out)

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Email: sales@thecarlsoncompany.com

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1-800-222-6199

Big Enough to Serve You, Small Enough to Know You!

FOURTEENTH EDITION
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THE CARLSON COMPANY 800-222-6199
# TABLE OF CONTENTS

## TIRE & WHEEL SERVICING
- Motorized Tire Changers, COATS ........................................ 2-3
- Computer Wheel Balancers, CEMB ..................................... 3
- Manual Tire Changer, COATS ........................................... 4
- ATV Bead Breaker, KLS ..................................................... 4
- Bead Seater, Cheetah ........................................................ 4
- Tire Bead Starter, KLS ...................................................... 4
- Nitrogen Wand Generators, Parker ..................................... 5
- Bubble Wheel Balancer, COATS ........................................ 5

## LIFTS & STANDS
- Portable Lifts, Handy .................................................. 6-8
- Center Lift Jacks, KLS .................................................... 7
- Hydraulic Lift, Handy .................................................... 8
- UTV Lifts, Handy .......................................................... 8
- In-Ground Lifts, Bestway ................................................. 9

## DYNAMOMETERS
- Motorcycle, ATV & Trike Dynamometers, Dynojet .. 10–13
- Dynamometer Options, Dynojet ........................................ 13

## DYNO TEST ROOMS
- Dyno Test Rooms, INC ................................................. 14–15

## FUEL & OIL TRANSFER
- Gas Caddy, JDI ............................................................. 16
- Portable Waste Oil Evacuators, JDI ............................... 16
- Oil Dispensing System, JDI ........................................... 17

## BATTERY CHARGING & TESTING
- Battery Chargers, Deltran & Tecmate .............................. 18
- Battery Chargers & Testers, Tecmate .............................. 18–19
- Battery Jump Starters, Solar .......................................... 19
- Carb & Fuel Injection Synchronizers, Tecmate ............... 20

## VEHICLE SERVICING & REBUILDING
- Diagnostic Tools & Accessories, Tecmate .................... 20
- Exhaust Gas Analyzers, Infrared Industries ................... 21
- Diagnostic Scan Tool, Universal Power Sports ............... 22
- Flowbenches, Superflow ............................................. 23
- Boring Bar, Serv-Equip ................................................ 24
- Cylinder Honing Machine, Serv-Equip .......................... 25
- Cylinder Honing Tank, Serv-Equip ................................ 25
- Measuring Instruments, Mitutoyo .................................. 26
- Valve Seat Cutting Kits, Motorized Units, Neway ........... 27
- Flex–Hone Tools, Honing Oil, BRM .................................. 28
- Valve Refacer, Valve Face Reconditioner, Neway .......... 28
- Engine Servicing Tools & Testers, Motion Pro ............... 29
- Bead Blast Cabinets, Trinco ......................................... 30
- Hydraulic Presses, Nugier ............................................. 31
- Anti–Fatigue Mats, Handy ............................................... 31

## AIR COMPRESSORS
- Air Compressors, Champion ....................................... 32

## PARTS CLEANING & WASHERS
- Ultrasonic Cleaners, Omegasonics ............................... 33
- Parts Washers, Build-All ............................................... 34–35

## PERSONAL WATERCRAFT SERVICING
- PWC Test Tanks, Specialty Motors ................................. 36
- PWC Hoist Workstations, Specialty Motors .................. 36

## WORKBENCHES
- Ultra Custom & Realiti Workcenters, Shure .................. 37
- Custom Series Workbenches, Shure ............................ 38
- ShureShop Workbenches & Carts, Shure ...................... 39
- Tear–Down Benches, Shure ......................................... 40
- Workbenches & Tear–Down Tables, Handy ................. 40

## INDEX ............................................................................. 41

**THE CARLSON COMPANY** 800-222-6199
COATS MOTORIZED TIRE CHANGERS

The “Industry Standard” Motorized Tire Changer!

Nationally known for quality, this heavy-duty tire changer is the machine of choice!

The Coats RC-100 is considered the “Industry Standard” for Motorcycle and ATV dealers alike. The RC-100 includes all the latest features for servicing custom motorcycle alloy wheels and high performance tires safely without damaging the rims. This motorized tire changer offers complete wheel protection and effortless bead breaking even on tough ATV tires. It saves time, helps sell more tires and will enhance your service credibility. In addition, the newly upgraded RC-100 the best for the motorcycle industry!

For over 60 years, COATS has been building top quality tire changers to fit a variety of special applications. Unlike some imported brands, the RC-100 is built in the U.S.A., and is supported by the largest nationwide network of authorized service centers.

The COATS RC-150 is here! This machine has every feature and benefit of an RC-200 except the Robo-Arm system. Some dealerships simply do not need to change stiff sidewall/low profile tires and if your needs ever change, the Robo-Arm can be added to the RC-150. The three position Motorcycle/ATV clamps allow the user to change an ATV tire as small as 6” in diameter to a motorcycle wheel up to 25” with the same set of clamps. The RC-150 offers complete protection for expensive, delicate wheels at every step of the process. Bead loosener shoe socks, clamp booties, and lift tool protection help prevent metal-to-metal contact that can cause scratching or marring.

In addition, the tabletop is specially designed to operate at slower speeds than automotive tire-changers to allow the operator better control. Free Freight and On-Site Service Center set-up and demonstration is included at no charge.

MOTORIZED TIRE CHANGER
RC-150/EX
Catalog No. RC-150

FREE FREIGHT
(Continental U.S.A.)
TIRE & WHEEL SERVICING

FREE FREIGHT
(Continental U.S.A.)

COATS MOTORIZED TIRE CHANGERS

The COATS RC-200/EX is here! Capable of changing ALL motorcycle and ATV/UTV tire sizes. The RC-200/EX offers a “RoBo Arm” that mechanically assists the mounting and de-mounting of stiff side wall and/ or low profile tires. Free Freight and On-Site Service Center set-up and demonstration is included at no charge.

FEATURES
• “RoBo Arm” system & manual bead roller kit for stiff sidewall / low profile tires
• Multi-purpose three position motorcycle clamps with premium nylon wheel protectors
• Clamp pressure control system allows you to adjust wheel clamping pressure at any time
• Bead loosener system is optimized for motorcycle tires and wheels by providing a contoured pad and back-up system
• Extended vertical channel allows sprockets, pulleys and brake discs to remain on wheels during servicing

SPECIFICATIONS
• RIM DIAMETERS: 6” to 25”, up to 30” w/optional Auto Clamps
• RIM WIDTH: 12-1/2” (max.), 12” to 16” OK w/optional Auto Clamps
• POWER REQUIREMENTS: 120V, 15 amp, single phase
• AIR REQUIREMENTS: 125 PSI (minimum), 5 CFM

Motorized Tire Changer
RC-200/EX
Catalog No. RC-200/EX

OPTIONAL EQUIPMENT: RC-100, RC-150, RC-200
183585 ATV Clamps, set of 4, 6” to 12” range, (included with RC-100/SS)
183606 Bead Loosener Shoe Socks (2 pack)
1837101 Tire Mounting Paste – Bucket
435685 Drop Center Tool: For stiff sidewall tires (2 req’d)(RC100, RC150)
183374 Nylon Booties for Mount-Demount Head (12 pack)
85000783 Tire Iron/Bead Lifting Tool Protectors (10 pk)
183248 Replacement plastic Gripper for clamps
85606545 Auxiliary Bead Seater
183604 Auto-Clamp Protective Socks (10 pack)
184926 Automotive Clamps: Req’d for M/C Rim Widths over 12.5” (RC-150, RC-200)
85607986 Grip-Max Plus Auto Clamps (Allows up to 30” dia) (RC-150, RC-200)
183604 Auto Clamp Protectors: (10 pack)
(RC-150, RC-200)
181554 Storage Tray: For miscellaneous storage needs (RC-150, RC-200)
184052 Manual Bead Roller Kit (RC-100)
181554 Storage Tray (RC-100)
85009048 Lube Bracket Holder for COATS Tire Paste (RC-150, RC-200)
85009943 RoboArm Upgrade Kit for RC-150
(Does not include Manual Bead Roller #184052)

SPECIFICATIONS: RC-150, RC-200
• RIM DIAMETERS: 6” to 25” (Up to 30” dia, w/ optional Auto Clamps #85607986)
• RIM width: 12-1/2” (max.), 12” to 16” OK w/ optional Auto Clamps #85607986
• POWER REQUIREMENTS: 120V, 15 amp, 1 phase
• AIR REQUIREMENTS: 125 PSI (minimum)

CEMB COMPUTER WHEEL BALANCER (With Stationary Shaft)

The K22 has proven itself as the finest balancer for motorcycle wheels in the world. The K22 Computer Balancer is specifically designed to balance motorcycle wheels. It features a unique “stationary shaft” that allows for precise, repeatable balancing results. Unlike converted automotive balancers, the K22’s “stationary shaft” for motorcycles makes set-up and operation a breeze. This feature allows the technician to also diagnose noisy wheel bearings and tire out-of-roundness easily. The K22 is capable of balancing wheels in either the Static Mode or Dynamic Mode. The Dynamic Mode balances both planes of the wheel, thus giving a more accurate balance for wheels wider than 5”. Manufactured by CEMB, the largest manufacturer of balancers in the world, their patented balancer technology combined with ongoing product improvements makes this the machine of choice.

FEATURES
• BALANCING BOTH PLANES: Static (regular) and Dynamic (wider than 5”)
• ULTRA-FAST SETUP: Stationary shaft. (No adapter drive forks/arms to adjust)
• DIAGNOSE WHEEL BEARINGS: Stationary shaft allows tech to hear noisy bearings
• DETECT OUT-OF-ROUNDNESS: Abnormal vibrations are felt through control lever
• FREEDOM FROM ERRORS: Digital electronics guarantee accuracy and reliability

SPECIFICATIONS
• RIM DIAMETER: 10” to 24”
• DISTANCE BETWEEN WHEEL BEARINGS: 9-1/2” or wider*
• POWER REQUIREMENTS: 120V, 1 phase
• ULTIMATE ACCURACY: ± 1 gram, 1/100oz.

*For 280, 300 & 330 sizes, order optional Shaft Extension Cone #04C220001

Phone us to outfit your RC-200/EX properly.

85606545 Auxiliary Bead Seater (optional)

Motorized Computer Balancer
Catalog No. K22

THE CARLSON COMPANY
800-222-6199
The COATS 220 is a simple to operate manual tire changer designed to handle all types of wheels from 8” to 23” and up to 8” wide. Designed to change Motorcycle and ATV wheels, it also works with trailers, golf carts, lawn and garden tractors and small automotive wheels. Unlike ATV wheels, it also works with trailers, golf carts, lawn and garden tractors and small automotive wheels. Unlike changing tires by hand, you can change tires much faster and easier with less risk of damage to expensive wheels.

**FEATURES**

- **VERSATILE:** Handles all spoked or cast motorcycle wheels from 14” to 23” diameter, with one set of rim clamps. A second set of rim clamps services a wide variety of wheels from 8” to 17.5” diameter – such as ATV’s, automotive, etc. Works with both tubeless and tube-type tires.

- **FAST:** Specially designed outside rim clamping assures positive hold down – no need to remove brake discs or sprockets. A single heavy-duty forged steel combo tool is used for tire mounting and demounting.

- **SIMPLE:** Wheel is located at a convenient working height and is easily accessible. Overhead arm assembly pivots out of the way when not needed for use with the combo tool.

- **WHEEL PROTECTION:** Replaceable plastic protectors on mount/demount combo tool and replaceable plastic clamp pads on the three rim clamps helps prevent scratching or denting of wheels.

- **BUILT-IN BEAD BREAKER:** Sturdy mechanical leverage allows quick and easy loosening of even the most stubborn motorcycle beads. (For tough ATV beads, we recommend the MC136 ATV Bead Breaker.)

- **NATIONWIDE SERVICE & SUPPORT:** Built in the U.S.A.

**REPLACEMENT PARTS**

- 107423 Combo Tool Protectors (6 pairs–red plastic)
- 107424 Clamp Pad Protectors (36–clear plastic)
- 107158 Motorcycle Clamp (2 per machine)
- 107559 Motorcycle Clamp (1 per machine)
- 107049 ATV/Automotive Clamp (2 per machine)
- 107562 ATV/Automotive Clamp (1 per machine)
- 183710 Tire Mounting Paste (bucket)
- 000491 Lube Applicator
- 106259 Lube Bottle
- 107034 Table Top
- 107156 Combo Tool

**TIRE BEAD STARTER**

Catalog No. 359016

The all-in-one answer to stubborn street and ATV tires, this simple to use tool is a safe and effective way to get beads started and seated. The linked straps apply even seating pressure to tire beads without compressed air, making it portable for on-the-go use.

**ATV BEAD BREAKER**

Catalog No. MC136

The MC136 is the strongest ATV bead breaker tool in the industry. This quality, high-performance bead breaker works especially well on ATV tires in addition to tires with difficult safety beads. The unit is fully adjustable to handle a wide variety of wheel sizes. The MC136 uses a centralized mounting post, and the rim itself to stabilize the force right where it is needed without slipping or sliding. Force is applied through a non-pivoting bead head, making the tire come off almost effortlessly. Max wheel diameter is 16”.

**CHEETAH BEAD SEATER**

Catalog No. CH-5-AL

The CH-5-AL Cheetah Bead Seater makes seating the most difficult beads safe, simple and fast! The ASME certified aluminum tank has a 5-gallon capacity designed for use on ATV and motorcycle tires as well as automotive, trailer and truck tires. The CH-5-AL is equipped with a safety release valve to prevent over inflation and a large air gauge that accurately monitors tank air volume. High volume air output seats beads easily.
COATS BUBBLE WHEEL BALANCER

The #280 wheel balancer offers you an easy way to statically balance motorcycle wheels. Any business that sells motorcycle tires can instantly add motorcycle wheel balancing to their list of profitable services for a low cost.

This easy-to-use wheel balancer has a large, easy-to-read optical balancer indicator with a specially designed, easily removed balancing spindle for fast and simple wheel attachment. With wheel mounted, the bubble indicates the position of the wheel that needs weight. You simply add weight until the bubble moves to the center of the cross-hairs. We recommend the optional #107722 Balancer Kit that includes magnetic test weights and various other items. The #280 includes the balancer-mounted storage tray and handles a wide range of wheels including axle sizes 11mm–30mm (7/16” – 1-1/4”). Maximum distance between wheel bearings is 9”.

OPTIONAL ACCESSORIES
107722 Supplemental Balancer Kit – Includes: Magnetic Test Weights, Sample Weight Assortment, Wheel Weight Cutter, & Marking Crayon (recommended)

PARKER NITROGEN TIRE INFLATOR

A revolutionary design and engineering project has led to a truly unique nitrogen tire inflation tool for the Powersports Industry. This tool can be used to inflate the tires of motorcycles, ATV’s, UTV’s, trailers and even cars. Parker has developed the innovative TireSaver Wand; a robust, lightweight, mobile, nitrogen tire inflator that offers you an undeniably high sales potential and profit margin. Click, fill, earn money!

This workshop tool can be connected to any air line and Automatically generates nitrogen from compressed air: simple and, above all, inexpensive. This means that your investment will pay for itself in no time at all. The Tire–Saver Wand is fitted with an exchangeable membrane cartridge that will serve for thousands of tire inflations. Nitrogen filled tires will last longer, provide increased safety and better fuel efficiency.

SPECIFICATIONS
Life-time grip* 50,000 tire fills
Purity 95% N²
Inlet pressure 72–160 psi
Max tire pressure: 80 psi
Life-time cartridge* 5,000 – 10,000 tire fills

PRODUCT BENEFITS
High profit margin,
Low investment
Increased customer loyalty & R.O.I.
Can be connected to standard air line
Mobile and Lightweight

OPTIONAL ACCESSORIES
Cat No. TSCHVC – N² Chrome Style Valve Caps (Qty 1000) (Plastic)
Cat No. TS-02A – Nitrogen Analyzer (Digital)
HANDY PORTABLE LIFTS

Handy Air Lifts have been around since 1963 and are perhaps the most popular Motorcycle/ATV air lifts in the world. Fabricated from solid 12 gauge steel and powder coated for extra surface durability, these lifts are built to last. The Standard, S.A.M. 1000 and S.A.M. 2 1000 lifts offer a lifting capacity of 1000 pounds, powered by a pneumatic cylinder from your air source. The S.A.M. 1000 lift offers the additional rear drop out feature along with an slightly extended table top length of 84”. The S.A.M. 2 1000 lift was developed with a wider tabletop (28”) and higher rise (35”) and a longer overall length (93”). It also features a complete double drop feature in the front and rear. The convenient foot pedal control allows easy up and down operation with several locking intermediate stops for desired height. Several popular options are available that add even more efficiency to these very popular lifts.

ELECTRIC POWERED LIFTS

Catalog Nos. 10742 & 16007 (115V, 1hp)

ALSO AVAILABLE

S.A.M. 1000 PORTABLE AIR LIFT W/REAR DROP OUT

Catalog No. 16000 (Shown with optional vise – includes rear ramp not pictured)

OPTIONS (#10740 Lift)

14476 CV-17 Wheel Vise: Vise opening 3” – 7-1/2”
10728 12” Side Extensions: Two 12” x 80” panels – makes lift table 48” wide
16011 13” Front Extension: Extends length to 93” – for longer motorcycles
10738 13” Rear Extension: Extends overall length by 13”
10732 Lift Dolly: For easy lift mobility in fully down position
10737 Snowmobile Wings: Two 13” x 13” panels – to support skis
16010 Tool Tray: Quick-release, fits all lifts - 39-3/4” x 7” x 1-3/4”
15566 Ramp End Extension: Extends overall ramp length for low clearance motorcycles

S.A.M. 2 1000 PORTABLE AIR LIFT W/DROP PANELS

Catalog No. 16900 (Shown w/optional vise)

OPTIONS (#16900 Lift)

14476 Wheel Vise
16904 10” Side Exts.
16010 Tool Tray
15566 Ramp end ext.

S.A.M. 1000 PORTABLE AIR LIFT W/DROP PANELS

Catalog No. 16000 (Shown w/optional vise)

SPECIFICATIONS #10740

Type: Air (100 psi)
Capacity: 1000 lbs.
Table Size: 24” x 80”
Length: (Overall) 110” w/ramp
Maximum Rise: 30”
Minimum Height: 7”

SPECIFICATIONS #16000

Type: Air (100 psi)
Capacity: 1000 lbs.
Table Size: 24” x 80”
Length: (Overall) 114” w/ramp
Maximum Rise: 30”
Minimum Height: 7”

CUSTOM COLORS (AVAILABLE ON ALL HANDY LIFTS)

RED table top / black frame
ORANGE table top / black frame
BLACK table top / black frame

FEATURES #10740 AND #16000

• Heavy-Duty pneumatic air cylinder
• A variety of optional extension choices
• Foot pedal control valve for easy operation
• Rear wheel drop out (S.A.M. 1000 only)

HANDY S.A.M. 2 1000 AIR LIFT W/DROP PANELS

Catalog No. 16900 (Shown w/optional vise)

OPTIONS (#16000 Lift)

14476 CV-17 Wheel Vise: As shown on lift - vise opening 3” – 7-1/2”
16002 12” Side Extensions: Two 12” x 84” panels - makes lift table 48” wide
16011 13” Front Extension: Extends length to 97” – for longer motorcycles
10738 13” Rear Extension: Extends overall length by 13”
10732 Lift Dolly: For easy lift mobility in fully down position
16010 Tool Tray: Quick-release, fits all lifts - 39-3/4” x 7” x 1-3/4”
15566 Ramp End Extension: Extends overall ramp length
The B.O.B. 1500 Air Lift is packed with features and benefits. This lift was designed from the ground up with the Motorcycle/ATV technician in mind. It features a dropout rear panel that makes rear wheel removal a breeze. The lift has a 40” maximum rise with seven intermediate locking positions and a lifting capacity of 1,500 pounds. For easy on/off loading, the lift lowers to 10”. To better fit your needs, the B.O.B. 1500 Lift can be outfitted with several different options.

### OPTIONS (B.O.B. 1500 Lift)
- **14476** CV-17 Wheel Vise multi-position
- **14473** 12” Side Extensions: Two 12” x 84” panels – makes lift table 52” wide
- **14474** 13” Front Extension: Extends length to 97” – for longer motorcycles
- **21300** Trike/Spyder Extension Kit: Allows for Trikes & Spyders 62” x 24”
- **16010** Tool Tray: Quick release, fits all lifts – 39-3/4” x 7” x 1-3/4”

### SPECIFICATIONS
- **Type:** Air (100 psi)
- **Capacity:** 1500 lbs.
- **Table Size:** 28” x 84”
- **Length:** (Overall) 124” w/ramp
- **Maximum Rise:** 40”
- **Minimum Height:** 10”

The Sport Lift is an ideal fit for your home garage or shop. With a lifting capacity of 750 lbs., it’s perfect for cleaning, detailing, and performing routine maintenance on sport bikes, dirt bikes, and scooters. The Sport Lift comes standard with a CV-17 Cycle Vise and has tie-down bars built into the lift to provide safety, security and stability.

### SPORT LIFT PORTABLE AIR LIFT
Catalog No. 21000

### HANDY WHEEL CHOCK
Catalog No. 21400

The Handy Wheel Chock was designed for keeping your motorcycle stable while transporting, storing or performing maintenance safely. This chock was designed to fit multiple tire widths, and diameters with one rocker. To adjust for a larger or smaller diameter simply pull the rocker pin and slide rocker to the next hole forward or backward. You can mount this chock in your trailer for worry free transportation. #21400 includes the following attachments: Trailer Mount, Garage Floor Mount, Lift Mount. 30”W X 21”X 16”H

### LIFT ACCESSORIES
- **CV-17 Cycle Vise 14476**
- **12” Side Extensions**
- **13” Front Extension**
- **13” Rear Extension**
- **Lift Dolly 10732** Glides lift around your shop easily (for 10740 & 16000 lifts only)
- **Universal Scissor Jack 13008**
- **Universal Center Lift Jack 16999**
- **Lo-Boy Scissor Jack 16868**
- **Little Grunt 16868**
- **Auxiliary Fuel Tank 16018 with Deluxe Mechanics Pole 16440** Mounts to lift.

---

**THE CARLSON COMPANY**
800-222-6199
**HANDBY PORTABLE LIFTS**

**HYDRAULIC LIFT**

Catalog No. 20707

Smooth action Hydraulic Lift raises up to 48”. Automated locking safety latch system with 10 safety stops. Lowers to 7-1/4” for easy loading. 18” drop-down front panel for convenient motorcycle fork and wheel maintenance. Self-storing drop-out back panel for rear wheel removal. Easy push button, up-down controls. Add 24” of width with optional 12” side extensions, Catalog No. 20728

**SPECIFICATIONS**

Length: 86-5/8”
Width: 29-1/2”
Height/max: 48”
Height/down: 7-3/4”
Capacity: 1500 lbs.
Footprint: 30-1/4”W x 84”L (114”L w/ramp)
Rear Drop-out: 14-1/8”W x 23”L
Front Drop-leaf: 29-1/2”W x 15-3/8”L
Power: Electric Hydraulic, 120v, 60 hz, lph.

---

**THE B.U.L. - BIG UTILITY LIFT**

Catalog No. 22750

This B.U.L. means business! Meet the beef of the Handy lineup: the Big Utility Lift. The B.U.L. can handle a whopping 2,500-lb. capacity and offers you the option of loading from either end, making it the ideal choice for servicing your most colossal UTV’s. Don’t worry about maintaining an air cylinder with this bad boy; the B.U.L. operates with an air bellows which requires zero maintenance! The B.U.L. raises to a maximum working height of 39” and has four stopping points, so you pick the height that’s best for your job. We’re giving you dual detent bars on this monster to ensure superior stability.

Four adjustable support bars with anti-skid rubber padding give you piece of mind as you lift wide loads. A sliding oil pan is mounted under the lift top, which boasts a 27” wide working surface. The framework is textured black powder coating for added durability, so your lift looks good conquering every job. To preserve your finished shop floor, we chose four phenolic wheels with serviceable roller bearings. Storage is a breeze with this compact unit, with a minimum height of 9.5” and weight of 500 lbs. So when you need a lift that’s small in footprint but big in capacity, look no further than the B.U.L. from Handy. As with all Handy products, the B.U.L. is proudly made in the USA.

**SPECIFICATIONS**

2500 lb. capacity
Top Dimensions: 27” W X 54” L
51” wide w/support arms extended
Max. Height: 39” on safety bar
Min. Height: 9.5”

---

**GRUNTAVORE 1800 AIR LIFT (DESIGNED FOR UTV’S, ATV’S & GARDEN TRACTORS)**

Catalog No. 16867

The massive 1800 lb. lifting capacity of the Gruntavore solves your maintenance challenges. The Gruntavore 1800 is a full 104” in length and 60” in width, making it ideal for all models of UTVs, ATVs, garden tractors, and lawn care equipment. It is constructed of heavy duty 11 gauge steel, weighs 950 lbs., and has a lifting capacity of 1800 lbs. The Gruntavore 1800 is topped off with a powder-coat finish for extra durability.

**SPECIFICATIONS**

Type: Air (100 psi)  Maximum Rise: 40”
Capacity: 1800 lbs.  Minimum Height: 10”
Table Size: 60” X 104”  Ramp Length: 31”

---

800-222-6199
**BESTWAY IN-GROUND HYDRAULIC LIFTS**

These heavy-duty, smooth operating air/hydraulic (air over oil) motorcycle lifts can be rotated 360° and incorporate a choice of 5” or 6-1/2” diameter pistons. Lifting capacity is 1,200 lbs. for 5” and 1,800 lbs. for 6-1/2” pistons, at 125 psi air pressure.

All units are easily installed in a minimum amount of space and require a 56” deep hole. Minimum height is 3”; maximum rise above floor is 36”, (48” optional rise available). All units come complete with a three-way air valve – simply attach your air-line to operate.

**Air/Hydraulic lifts with platform**

The platform on each of the three lifts in the table below is large enough to contact both bike tires, and each platform is hinged toward the rear. The first two lifts have a slideable front plate which can extend the platform to a maximum of 76”. The third lift does not have a slideable front plate and is a fixed platform length of 92”.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Piston Diameter</th>
<th>Platform Length</th>
<th>Platform Width</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>106HA-24H</td>
<td>6-1/2&quot;</td>
<td>76&quot;</td>
<td>24&quot;</td>
<td>1800 lbs.</td>
</tr>
<tr>
<td>106HA-30H</td>
<td>6-1/2&quot;</td>
<td>76&quot;</td>
<td>30&quot;</td>
<td>1800 lbs.</td>
</tr>
<tr>
<td>106HA-30XL</td>
<td>6-1/2&quot;</td>
<td>92&quot;</td>
<td>30&quot;</td>
<td>1800 lbs.</td>
</tr>
<tr>
<td>106HA-48H</td>
<td>6-1/2&quot;</td>
<td>76&quot;</td>
<td>48&quot;</td>
<td>1800 lbs.</td>
</tr>
</tbody>
</table>

**Bestway lifts are also available “topless” so you can add a top plate of your own design (Catalog No’s. 5SP & 6SP). You can also add a platform of your own to the 5SPC & 6SPC lifts by welding or bolting the platform to the 1/4” thick steel plate provided.**

**Air/Hydraulic lifts without platform (Frame Contact)**

For Harley-Davidson and other motorcycles that allow frame contact, a special version is available in either 5” or 6-1/2” piston diameters (Catalog No’s. 5SPCH & 6SPCH) with a pre-drilled top designed to secure the motorcycle frame directly to the top of the lift with “J” bolts. Additional hole in plate provides access to bottom of engine.

Bestway lifts are also available “topless” so you can add a top plate of your own design (Catalog No’s. 5SP & 6SP). You can also add a platform of your own to the 5SPC & 6SPC lifts by welding or bolting the platform to the 1/4” thick steel plate provided.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Piston Diameter</th>
<th>Top Plate Dimensions</th>
<th>Application</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5SP</td>
<td>5&quot;</td>
<td>N/A</td>
<td>Add your platform</td>
<td>1200 lbs.</td>
</tr>
<tr>
<td>5SPC</td>
<td>5”</td>
<td>18” x 18”</td>
<td>Harley-Davidson service</td>
<td>1200 lbs.</td>
</tr>
<tr>
<td>5SPCH</td>
<td>5”</td>
<td>18” x 18&quot;*</td>
<td>Harley-Davidson service</td>
<td>1200 lbs.</td>
</tr>
<tr>
<td>6SP</td>
<td>6-1/2”</td>
<td>N/A</td>
<td>Add your platform</td>
<td>1800 lbs.</td>
</tr>
<tr>
<td>6SPC</td>
<td>6-1/2”</td>
<td>18” x 18”</td>
<td>Harley-Davidson service</td>
<td>1800 lbs.</td>
</tr>
<tr>
<td>6SPCH</td>
<td>6-1/2”</td>
<td>18” x 18&quot;*</td>
<td>Harley-Davidson service</td>
<td>1800 lbs.</td>
</tr>
</tbody>
</table>

*Each lift is supplied standard with air valve mounted on side as shown. Other options include a remote control air valve that allows you to locate the valve anywhere in your shop and an optional non-rotating feature that eliminates the lift from spinning. Phone The Carlson Company for details if a “remote control” or “non-rotating” feature is desired.*
Load Control Dynamometer the “Industry Standard”

Dynojet introduced a new standard – the 250i Load Control Dynamometer – which advances dynamometer tuning capability even further. Dynojet Dynamometers are affordable, accurate and take the guesswork out of tuning and troubleshooting today’s motorcycles. All performance data is instantly acquired and transmitted to your computer via modular hardware. Horsepower and torque curves are viewed on a monitor and/or printed out. Any performance problem on the road or track is duplicated on the dynamometer, where it is detected, measured, recorded and diagnosed. This state-of-the-art equipment will increase your service credibility, customer satisfaction and profits.

Map Fuel Injection

Fuel Injection Tuning is easier than ever with the Dynojet 250i. Offering the latest in eddy current power absorption technology, the Dynojet Load Control System is easy to operate and offers steady-state load control. Closed-loop load control software provides the technician with the ability to control RPM or MPH at any throttle opening. This causes the motorcycle to automatically hold at the technician’s pre-determined setting. Repeatable, consistent results are very easy to obtain.

The 250i Load Control Dynamometer is perfect for duplicating specific customer complaint conditions, engine break-in, durability testing and fuel injection mapping. It’s like getting two dyno’s in one package, because all the features of the Dynojet Inertia Dynamometer are maintained. When used with the optional Air/Fuel Ratio Monitor, every dyno run can show you not only HP or Torque, but also exact air/fuel ratio across your RPM range.

Features

- Measures up to 750hp and 200mph
- Eddy Current Load Absorption Unit (250 series only)
- Powder coated chassis, wheelbase capability up to 84 inches (from rear axle to front tire)
- NEW PowerCore Software suite with WinPEP 8 (PC, monitor, printer, etc. not included)
- NEW DynoWare RT dynamometer electronics and hardware
- Integrated control panel stand with console
- Ignition wire inductive tachometer pickup leads
- Front wheel lock
- 2 Channels of Automatic Conditions Measurement (absolute pressure, air temp, humidity)
- 4 Analog Input Channels for 0-5v sensors (sensors and cables not included)
- 14 expansion ports for DynoWare RT accessories and DJ-CAN devices (such as Power Commander, Power Vision, Autotune, etc.)
- Starter system to spin roller (12V, battery not included)
- Installation and operation manuals
- One year replacement parts warranty
- Toll-free technical support
DYNOJET LOAD CONTROL DYNAMOMETER
FOR MOTORCYCLES, ATVs, TRIKES & MORE

The Model 250ix Chassis Dynamometer gives you the advanced technology, durability, and accuracy you need, all at an affordable price.

The same technology that has made the Dynojet Motorcycle Chassis Dynamometer the industry standard has led to the development of the MODEL 250ix dynamometer engineered for most other Powersports Vehicles (ATV’s, Side-by-Sides, Go-Karts, and Trikes).

Dynojet’s cutting-edge engineering delivers the precise horsepower measurements a technician needs to make quick and accurate evaluations of engine and drive-train performance. This allows you to maximize your shop’s potential with increased sales, service efficiency, and shop credibility. The dyno’s durable, low-maintenance construction ensures that you will be investing in many years of flawless tuning and troubleshooting. By eliminating the need for engine removal, the vehicle mounting time is as little as 5 minutes. A technician can then perform a simple test and examine the results right in the shop. Utilizing the Dynojet WinPEP 8 software, the dyno operator can evaluate the entire drive-train condition for the purpose of routine servicing or all-out performance development.

Existing Model 200i or 250i owners can upgrade their equipment by adding an X-Module Roller – Catalog No. 77000003

FEATURES

• Accommodates Motorcycles and most other powersports platforms (ATV’s, Side-by-Sides, Go-Karts, and Trikes)
• Measures up to 750hp and 200mph
• Eddy Current Load Absorption Unit (250 series only)
• Powder coated chassis, wheelbase capability up to 84 inches (from rear axle to front tire)
• NEW PowerCore Software suite with WinPEP 8 (PC, monitor, printer, etc. not included)
• NEW DynoWare RT dynamometer electronics and hardware
• Integrated control panel stand with console
• Ignition wire inductive tachometer pickup leads
• Front wheel lock
• 2 Channels of Automatic Conditions Measurement (absolute pressure, air temp, humidity)
• 4 Analog Input Channels for 0-5v sensors (sensors and cables not included)
• 14 expansion ports for DynoWare RT accessories and DJ-CAN devices (such as Power Commander, Power Vision, Autotune, etc.)
• Starter system to spin roller (12V, battery not included)
• Installation and operation manuals
• One year replacement parts warranty
• Toll-free technical support

LOAD CONTROL POWERSPORTS DYNAMOMETER
Catalog No. 250ix
(Shown with optional Power Carriage/Clamp, and Dual Axis Fans)

MODEL 250IX
PIT VERSION

DYNOMETERS

THE CARLSON COMPANY
800-222-6199

DYNO TEST ROOMS AVAILABLE
SEE PAGE 14. CALL THE CARLSON COMPANY FOR A COMPLETE DYNO ROOM BROCHURE

LEASE TO OWN!
When it comes to everyday motorcycle performance measurement, problem diagnosis and precision tuning, the Dynojet 200i Inertia Dynamometer offers fast, accurate and repeatable solutions. It has no controls to adjust, is quick and easy-to-use, and takes the guesswork out of performance evaluation. The technician saves time by simply running the bike on the dyno for a few seconds - from the lowest to the highest desired RPM or MPH.

The inertia dynamometer measures performance while the bike is accelerating a heavy rotating mass and displays complete HP and Torque curves from a single run. This simulation of real riding conditions permits actual dynamic fuel-flow testing, which enables you to study the engine’s ability to accelerate the bike’s load across the engine power band. Troubleshooting ignition vs. air-fuel problems, or rich vs. lean conditions, becomes more profitable.

Following its introduction in 1990, the Dynojet Inertia type dynamometer quickly became the standard for performance measurement and engine tuning in the motorcycle industry. Its ease of use and powerful software attracted customers from around the world. Dynojet ushered in a totally new era of performance evaluation and precision tuning, and as a result, now has thousands of dynamometer installations worldwide. The 200i Inertia Dynamometer provides the technician with instrumentation and facts instead of seat-of-the-pants guesswork.
DYNOJET DYNAMOMETER OPTIONS

**MONITOR TRAY**
The Monitor Tray attached to the control pod and supports a monitor, keyboard and mouse. It is adjustable for optimum placement.

**DUAL COOLING FAN SYSTEM**
This integrated cooling fan system option has adjustable arms and can move 1800 CFM from each fan. These fans are controlled from the control pod.

**THE POWER WHEEL CLAMP & POWER CARRIAGE OPTIONS**
These options allow the dyno operator to adjust the carriage length and clamp the front wheel from the control pod, while seated on the bike.

**EXTENDED WHEELBASE CARRIAGE OPTION**
This option is necessary for testing long wheelbase motorcycles. Accommodates up to 102in, measured from rear axle to the leading edge of the front tire.

**TORQUE CELL MODULE**
Measures real-time torque, and allows sweep, step and custom load simulation tests.
May also be used to set ignition timing for maximum torque.

**FOLDING RAMP**
This option includes gas assist struts for one person operation.
The ramp features a dual-angle moderate slope design to aid in loading/unloading lowered and longer wheelbase motorcycles.
Supplemental ramp available for "X" models (requires primary ramp).

**AFR-2 (DUAL AIR/FUEL SYSTEM)**
The AFR-2 has two wide band O2 sensor inputs so you can sample two air/fuel ratios at the same time for measuring bank-to-bank. The AFR-2 uses the DJ-CAN system, which allows you to daisy-chain multiple AFR-2 modules to read up to 8 AFR’s. The AFR-2 houses the Gen4 air pump system and comes standard with one O2 sensor.

**EDDY CURRENT LOAD ABSORPTION UNIT**
The Eddy Current Load Absorption Unit can be upgraded to any Dynojet inertia model, such as the 200/200i, and enables the ability to perform loaded tests such as closed-loop RPM step tests when tuning fuel-injection with a Power Commander or Power Vision.

**H-D FUEL TAP**
H-D Fuel Tap is a dyno accessory available for DynoWare RT that provides fuel pressure as a data input for WinPEP 8 dyno users! It plugs directly into the stock fuel system with quick disconnects for fast and easy installation and fits 2001 and newer H-D models.

**H-D DATA LINK**
Connect any Delphi equipped Harley-Davidson® (CAN & J1850) to DynoWare RT to read and sample live data direct from the bike! Whether you are making EFI calibrations, diagnosing a problem or simply getting a horsepower reading, the H-D Data Link gives you more data such as volumetric efficiency, spark advance, cylinder temp, and more.

DYNO TEST ROOMS AVAILABLE, SEE PAGE 14
The INC Dyno Test Room offers a pre-engineered modular system for building a professional high performance dynamometer test room within your facility. The INC rooms are designed with features specifically intended to work with Dynojet Motorcycle and ATV dynamometers. Designed and constructed of 4” thick modular acoustical metal panels and components, the INC Dyno Room allows you to safely operate your dynamometer while providing excellent exhaust ventilation and high performance sound reduction of 40 dBA or more.

**PRE-ENGINEERED**
Motorcycle Dynamometer Testing is a very specialized activity and the INC Dyno Test Rooms are designed for this unique application. Ventilation systems are high-volume and consist of silenced exhaust and inlet assemblies. All necessary openings in the room walls and roof are provided. A variety of room sizes are available, typically ranging from 10’ to 14’ width and 15’ to 18’ length. Standard equipment includes one 4’ door and one viewing window (42” x 42”).

**MODULAR SYSTEM**
All rooms are equipped with high performance sound reduction capabilities of up to 40 dBA or more. Design and construction utilizes INC's 4” thick modular acoustical panels. The wall panels are 3’ and 4’ wide x 8’ tall and are available with or without windows. The two-pane, 4” thick windows are double glazed, tempered safety glass and measure 42” wide x 42” tall. All panels are double wall construction, consisting of electro-galvannealed solid steel on the room exterior with perforated steel surfaces on the interior. The wall thickness is filled with INC’s special sound absorbing insulation. This construction provides excellent acoustical characteristics.

**ASSEMBLY**
The sturdy wall panels assemble into base channels and are then attached to each other with one-piece joiners provided in pre-cut lengths to fit. The roof and wall panels are connected as shown in factory supplied drawings. Final steps are to attach the supplied ventilation system to your ducting and bring electrical power to the room. Ducting beyond the fans and/or inlet is a customer responsibility and is not included. An optional pre-wired lighting and electrical package is available, or this aspect can be handled by a local electrical contractor.

**FEATURES**
- HIGH NOISE LEVEL ISOLATION: 4” thick acoustically absorptive panels
- SILENCED VENTILATION SYSTEMS: Provides exhaust containment and extraction
- MODULAR CONSTRUCTION: Allows easy and economical expansion or relocation
- HIGH PERFORMANCE SINGLE DOOR: 4’ Acoustical door, heavy duty seals
- VIEWING WINDOW: 42” x 42” double glazed tempered safety glass (one included)
- CONSTRUCTION: Supplied as a kit. Professional room assembly available
- CUSTOM ROOMS: Custom room sizes and ventilation systems available

**OPTIONAL EQUIPMENT**
- Super Vent System (Required for all Load-Control Dynamometers)
- 6’ and 7’ Wide Double Doors (12’ and wider rooms only)
- Pre-Wired Lighting & Electrical Package
- Factory Prime & Finish Exterior Paint (Custom Colors avail.)
- Additional Window(s) (Bay windows also available)

Call The Carlson Company for a complete Dyno Test Room Brochure
INC DYNO TEST ROOMS

Dynamometer testing of engines, motorcycles, vehicles and components is an essential process in performance tuning, troubleshooting, R+D development, endurance testing and verification of horsepower and torque. The PowerSports industry relies on dynamometer testing to maximize performance, provide & validate after-market products and properly tune today’s high performance engines.

ESSENTIAL FOR PROFESSIONAL DYNO TESTING

You’ve made a substantial investment in your dynamometer, personnel and training – to make the most of that investment and set you apart from your competition, you need to perform your dyno work in a dedicated, properly designed environment. We offer a complete line of affordable, functional Dyno Test Rooms just right for any dynamometer set up. Designed and constructed of our rugged industrial duty modular acoustical panel system called Panl-Wall™, our Dyno Test Rooms are easy to install, easy to move or change with your facility and built to last. Design and performance features have been developed and tested specifically to work seamlessly with a variety of dynamometers and equipment applications to ensure a minimum of 40 decibel (dBA) sound level reduction and reliable proper ventilation.

TECHNICIANS & ENGINES CAN BREATHE EASY

Of course a Dyno Test Room is only as effective as it’s ventilation system, and our optional SuperVent™ system guarantees to remove all heat, carbon monoxide and other combustion and exhaust gases while providing fresh air for engine consumption and operator comfort without sacrificing any noise reduction!

Even when making long dyno runs with an eddy-current or other load applying device, such as when fuel injection mapping, our SuperVent™ system with our unique flow-thru design and exhaust source capture reduces harmful carbon monoxide levels to as low as 4 ppm.

CALL THE CARLSON COMPANY TODAY TO DISCUSS YOUR DYNO ROOM REQUIREMENTS!

THE CARLSON COMPANY

800-222-6199

THE USE OF AN INC PROFESSIONAL DYNO ROOM WILL

• Maximize your dynamometer investment
• Provide a controlled testing environment
• Ensure test and tuning repeatability
• Provide a safe workspace for your technicians
• Showcase your dynamometer facility
• Be a quiet neighbor
• Attract and impress customers

KEY FEATURES AND BENEFITS

• Guaranteed predictable noise reduction – 40 dBA or more!
• Known fixed cost – stays on budget
• Modular panel construction – easy to erect and change
• Easy two-person assembly
• Sound absorbing interior surfaces
• Rugged corrosion resistant galvanized steel construction
• All Components meet ASTM E-84 Class I Fire Rating
• High performance acoustical doors and viewing windows
• Safe effective exhaust gas extraction and cooling air flow
**THE CARLSON COMPANY**

**THE CARLSON COMPANY**

**THE CARLSON COMPANY**

**THE CARLSON COMPANY**

**THE CARLSON COMPANY**

The JDI HGC-30UL Gas Caddy is the ideal solution for the storage and dispensing of gasoline in your Service Department. Specifically designed to comply with labor and safety laws, JDI builds the only UL listed Gas Caddies in North America.

The heavy-duty welded steel construction is built to last. A two-way rotary pump allows your technicians to both siphon and dispense fuel. To siphon gasoline into the caddies tank, simply turn the pump’s operating handle counter-clockwise. To transfer gasoline from the cart to any fuel tank, turn the handle in the opposite direction. What could be more simple?

**FEATURES**
- **Heavy-Duty Bi-directional pump**
- **5.7 gallons/minute@72 RPM**
- **One gallon per 12 turns**
- **UL Listed & OSHA Compliant**
- **Firescreened safety vent & fuel gauge**
- **8” clear hose with anti-static grounding wire**
- **2” Filler neck for easy fill-ups**
- **1/4” Drain hole to remove contaminants**
- **Static ground wire with clamp**
- **See-through hose for in-line fuel viewing**
- **Large 10” diameter rubber tires for easy mobility**

---

**“Quick Lube” oil change service keeps costs down and efficiency up!**

Designed to remove used oil and other fluids from any vehicle when conventional draining methods are not practical. Charged unit is completely portable. Fluid removal can be done almost anywhere without the need of an air hose.

Fluid evacuators remove used oil and other “non-flammable” fluids from almost any vehicle using compressed air and an on-board venturi vacuum process.

**Evacuators are great for a variety of applications including:**
- Quick Lubes – Avoid stripped drain plugs. Makes it easy to correct overfills.
- Motorcycle/ATV Service – Perfect for oil changes.
- Marine Applications – Boats, Jet Skis and other PWC.
- Farm & Industrial – Tractors, generators, off-road equipment.

**6-GALLON WASTE OIL EVACUATOR**
Catalog No. JDI-6EV

**20-GALLON WASTE OIL EVACUATOR**
Catalog No. JDI-20EV

**Specifications:**

<table>
<thead>
<tr>
<th>Gallons</th>
<th>6-gallon</th>
<th>20-gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Capacity</td>
<td>4-gallons</td>
<td>14-gallons</td>
</tr>
<tr>
<td>Air Pressure For Vacuum</td>
<td>110-115 psi</td>
<td>110-115 psi</td>
</tr>
<tr>
<td>Depressurization Time</td>
<td>60-90 sec.</td>
<td>120-150 sec.</td>
</tr>
<tr>
<td>Suction Speed</td>
<td>.04-.05 gpm</td>
<td>.04-.05 gpm</td>
</tr>
<tr>
<td>Material</td>
<td>Steel</td>
<td>Steel</td>
</tr>
<tr>
<td>Wheel Size – Front</td>
<td>N/A</td>
<td>4” Swivel</td>
</tr>
<tr>
<td>Wheel Size – Rear</td>
<td>7” Fixed</td>
<td>7” Fixed</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs.</td>
<td>55 lbs.</td>
</tr>
</tbody>
</table>

**FEATURES INCLUDE**
- 6- or 20-gallon capacities
- Heavy-duty steel construction for years of trouble-free service
- Powerful venturi vacuum generator
- Easy-to-read vacuum gauge
- 7” suction hose
- Six suction probes for most applications
- Convenient storage tube for suction probes
- Wheels and casters are oil and chemical resistant for longer life
- 10’ quick disconnect evacuation hose
- Sight tube for quick indication of fluid level

---

**FUEL & OIL TRANSFER**

**JDI GAS CADDY & WASTE OIL EVACUATORS**

**JDI HGC-30UL**
Catalog No. 12652

**JDI GAS CADDY & WASTE OIL EVACUATORS**
**JDI AIR OPERATED OIL DISPENSING SYSTEMS**

Complete Packages – includes all required equipment. For motor oil, synthetic oil, hydraulic oil and ATF. Designed for 16-gallon and 55-gallon drums.

### Specifications:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Container</th>
<th>Pump</th>
<th>Hose</th>
<th>Delivery Gun</th>
<th>Cover</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDOL-16</td>
<td>16-gal</td>
<td>JD-3610</td>
<td>JDM-1038</td>
<td>JD-3930</td>
<td>JD-3566A</td>
<td>26 lbs.</td>
</tr>
<tr>
<td>JDOL-55</td>
<td>55-gal</td>
<td>JD-3615</td>
<td>JDM-1038</td>
<td>JD-3930</td>
<td>NA</td>
<td>22 lbs.</td>
</tr>
</tbody>
</table>

**FEATURES INCLUDE**

- Powered by 3:1 ratio medium pressure pump
- Differential air motor ensures smooth pumping
- Heavy-duty control valve
- 10' delivery hose

### PROFESSIONAL SERIES HOSE REELS

Designed for durable and dependable operation. Air and oil applications.

**FEATURES INCLUDE**

- Heavy-duty steel construction
- Corrosion resistant powder-coat finish
- 7" wide "L" shaped base for positive support
- Four-direction non-snag rollers reduce hose wear and abrasion
- Spring is fully enclosed and lubricated
- Full-flow swivel prevents leakage
- Guide arm is adjustable up to nine positions permitting wall, ceiling or floor mount

### Specifications:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>PSI Rating</th>
<th>Hose Size</th>
<th>Hose Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>JD-3850</td>
<td>300 psi</td>
<td>3/8&quot;</td>
<td>50'</td>
<td>53 lbs.</td>
</tr>
<tr>
<td>JD-1250</td>
<td>300 psi</td>
<td>1/2&quot;</td>
<td>50'</td>
<td>59 lbs.</td>
</tr>
</tbody>
</table>

**Low Pressure for Air & Water**

**Medium Pressure for Motor Oil & ATF**

**FEATURES INCLUDE**

- Easy-to-read LCD display
- Measures in quarts and liters
- Non-drip nozzle
- Includes flex spout with automatic tip
BATTERY CHARGING & TESTING

DELTRAN & TECMATE BATTERY CHARGERS

TEN BANK BATTERY CHARGER
Catalog No. 021-0134

FEATURES
• Safe, No Spark Charging: Microchip circuitry won’t activate voltage output until clips are correctly connected to battery.
• 4-Step Charging (initialization, bulk charge, absorption mode, float/maintenance)
• Automatic Storage Mode: Charger automatically switches to a “Storage” charging (or float) mode when the battery reaches full charge
• Multiple Battery Charging: Lights for each set of leads indicate which batteries are “Charging” and which are in the “Storage” mode.
• Constant Current Charging: Provides faster charging per battery than conventional chargers
• Automatic 12-volt charging: No Controls

SPECIFICATIONS
• CHARGING PER OUTPUT:
  12V @ 2.0 Amps 72 Hour Safety Timer
• FIVE BANK DIMENSIONS:
  8” x 6” x 6”
• TEN BANK DIMENSIONS:
  16” x 6” x 6”

OPTIONS
081-0148-25 25’ extra long leads for 5 & 10 Bank Chargers
081-0148-25 25’ extra long leads for BG4 (4 PACK) 5 & 10 Bank Chargers

BATTERY TENDER PLUS
Catalog No. 021-0128 (12V @ 1.25A)

FEATURES
• 4-Step Charging (initialization, bulk charge, absorption mode, float maintenance)
• Spark Proof
• Temperature Compensated
• Short Circuit & Reverse Polarity Protected

TECMATE BATTERY CHARGERS

OPTIMATE PRO4
Catalog No. TS-53 OptiMate Pro4
Catalog No. C08-322B Replacement Lead (blk)
Catalog No. C08-322R Replacement Lead (red)

The OptiMate Pro4 is the only multi station charger designed for the proper commissioning (initial charging) of all types of powersports batteries. The OptiMate Pro4 can simultaneously and independently commission or recover and then fully charge and maintain up to four 12 volt batteries of any type at once.

The “NEW” mode is for 1 hour activation charge only for new batteries that have received acid just prior to charging, such as STD flooded batteries with removable filler caps and AGM-MF ‘dry-charged’ batteries that are delivered with a separate custom acid pack. The 2A / 4A mode – 12 hour max. charge mode is for diagnoses, recovery, charging, testing of low volt sulphated batteries. Suitable for recharge of all batteries including factory activated sealed AGM batteries (e.g. Yuasa YTZ, GYZ) prior to sale.

Includes wall poster with instructions to prepare and charge your customers batteries.

OPTIONS
TA-13  3 Pin Power Cord
TS-218 Wall Bracket
O-03  Extension Cord 6 ft
O-04  Battery Clips

OPTIMATE PRO-S
Catalog No. TS-171

Now a shop charger that initializes new sealed & filler cap batteries in 1 hour plus desulfates & recovers neglected batteries. Simply decide between a NEW or USED battery selection. Select NEW and a battery receives the correct initialization charge within 1 hour. The USED program allows optional selection between two sizes of battery (<10Ah>) and the rest is automatically done for you. Wall mounts are integrated for easy and convenient wall placement.

THE CARLSON COMPANY
800-222-6199
**TECMATE BATTERY CHARGERS & TESTERS**

**BATTERYMATE 150-9**
BATTERY CHARGER AND LOAD TESTER

**FEATURES**
- Six load test choices from 15 to 150 amps for all starter batteries 2.5Ah to 45Ah
- Choose from two load test durations: 3 seconds (standard crank test) or 15 seconds (long crank & battery capacity check)
- Six constant current charge settings from 1A to 9A for the correct most time effective charging of all types of batteries including filler cap and maintenance free batteries such as AGM, valve regulated (VRLA), flooded (wet) and GEL-electrolyte from 2.5 to 45Ah capacities
- Can commission two batteries of any type per hour
- Temperature sensor adjusts charge voltage according to ambient temperature
- Selectable MF mode activates special charging algorithm designed to effectively charge maintenance free batteries for peak performance and longevity
- Powerful and highly effective high voltage desulfation mode designed to breathe new life into deeply discharged (sulfated) batteries
- Optional steel wall-mount bracket frees up bench space and helps protect charger from caustic battery fumes
- Recommended by most motorcycle O.E.’s
- Two year limited warranty

**OPTIMIZE PRO8-S**
AUTOMATICALLY CHARGE AND MAINTAIN UP TO 8 BATTERIES SIMULTANEously

**FEATURES**
- Eight independent charging stations each equipped with a sophisticated 5 stage fully automatic charging program
- Battery type selector: Choose (STD & MF) to charge and maintain all types of starter batteries including filler cap and maintenance free batteries such as AGM, valve regulated (VRLA), flooded (wet) and GEL-electrolyte with a rated capacity of 2.5Ah and greater. Choose “DC” to charge and maintain Deep Cycle batteries
- Use for the proper commissioning of conventional filler cap type batteries
- Powerful high voltage desulfation mode breathes new life into most deeply discharged (sulfated) batteries
- 1.2 amp constant current per station
- Clear and simple battery status indicator panel for each battery
- Sensing circuitry eliminates risk of over charging
- Internal cooling fans control operating temperature
- Works with 6v and 12v batteries
- Not suitable for the initial commissioning charge of MF batteries – see BatteryMate or OptiMate Pro4-S models for this function
- Two year limited warranty

**OPTIMIZE PRO8-S OPTIONS**
- TA-13 3 Pin Power Cord
- TS-218 Wall Bracket
- 0-03 Extension Cord 6 ft
- 0-04 Battery Clips

**SOLAR JUMP STARTER**
12 Volt 900 Peak Amp
Catalog No. ES2500

Legendary Booster PAC performance in an economical commercial grade unit. Easy to use and lightweight, the ES2500 is the ideal jump starter for Powersports Dealers. Its compact size, rugged case and ability to jump up to 5 vehicles on a single charge make the ES2500 a perfect companion for any situation in which you need portable power.

**ACCUMATE PRO5**
BATTERY CHARGER
Catalog No. TM-131

Charges & maintains up to 5 – 12V batteries simultaneously using a fully automatic 4 – stage program. Up to 1.8 Amps of current are applied, making it ideal for the larger capacity batteries found on many of today’s cruiser bikes (6Ah and up). Ships w/ wall mounts for convenient placement.

**TESTMATE SPORT**
TEST BATTERIES QUICKLY AND ACCURATELY
Catalog No. TA-9

The new updated programmable TestMate II quickly evaluates powersport batteries to determine the current state of charge, percentage of capacity remaining and if the battery needs to be recharged or replaced. This new design has greater flexibility and selectability than ever before. The hand held portable design makes the TestMate II an ideal tool for the parts or service counters.

**FEATURES**
- Tests 12 volt batteries of all types with 2 to 30 amp hour capacities
- Expanded battery type selection allows unit to accurately test lead-acid (filler cap), Maintenance Free (AGM and Gel) and High Power AGM (YTX) Batteries
- New design allows selection of amp hour or cold cranking amp settings for accurate testing
- Turns on automatically when connected to battery and turns off automatically one minute after disconnected
- Enhanced test results display: Actual CCA (cold cranking amps), residual charge as % of rated Ah capacity and short text giving test results with more detail than any other tester available
- Electronic circuit protection against accidental connection to wrong battery terminals
- Low battery warning (for internal 9V battery) prevents use when result will not be accurate
- One year limited warranty

**THE CARLSON COMPANY**
800-222-6199

Shown with optional wall bracket (08-0197)
**TECMATE DIAGNOSTIC TOOLS**

**VACUUMMATE ALL WEATHER**
The ultimate 4-channel vacuum synchronizer

The VacuumMate All Weather is a precise four channel vacuum meter designed specifically for intake synchronization of engines with multiple carburetors or throttle bodies. In addition to its synchronization capabilities, the VacuumMate All Weather is the only tool of its kind to offer a dynamic mode that allows the technician to perform upper engine diagnostics using the intake vacuum curve to detect potential upper engine problems such as intake leaks, valve leaks, air filter blockage and low compression.

Catalog No. TS-71  VacuumMate ME Kit (with internal battery)
Catalog No. TS-81  VacuumMate WS Kit (for use with external battery only)

Kits include: 08-0201 flex-rigid 5mm adapters (4 ea.), 08-0202 flex-rigid 6mm adapters (4 ea.), COB-203C battery connector cord set, COB-231A T-connector, 08-0198 soft carry/storage case

**OPTIONAL ACCESSORIES**
Catalog No. TS-221  4 to 6 Channel Adapter

**SYNCHROMATE**
Synchronizer, vacuum gauge and tachometer all in one
Catalog No. TS-101
Kit includes: CTS-200 5mm and CTS-201 6mm brass adapter set, CTS-233 battery connector cord set

**OPTIONAL ACCESSORIES**
Catalog No. TA-11  Calibration Kit (small screwdriver and 2 replacement cover seals)
Catalog No. TS-220  2 to 4 Channel Adapter
Catalog No. TS-222  Soft Carry/Storage Case

**IGNITIONMATE DUO**
Catalog No. TS-93
The IgnitionMate Duo displays the ignition parameters of 2 cylinders at the same time – on the same engine or on 2 similar engines. Allows direct comparisons of ignition peak voltage pulses, in-cylinder spark stability & intensity, or primary circuit voltages. Includes instruction manual, impact resistant rubber case, 2 x matched combination spark cable caliper pick-ups with silicon lead, 2 x silicon test lead set with insulated crocodile clips and 2 x Probulator back probe sets, 12VDC 6 ½ ft. / 200cm power lead, & quick reference guide.

**IGNITIONMATE**
Quick and precise ignition system troubleshooting without disassembly
Catalog No. TS-91

Kit includes: TS-233 battery connector cord set, TS-207 stick coil adapter, TS-226 low tension lead kit, TS-223 molded rubber holster, TS-208 HT pickup, TM-99 probulator back probes, TS-222 soft carry/storage case

**CARBMATE** - Economical electronic two channel vacuum meter
Catalog No. TS-111

CarbMate is a reliable, cost effective & portable replacement for both mercury sticks and unreliable dial gauges. Synchronization of 4 linked carburetors is made easy using the optional 4-channel adapter kit.

**OPTIONAL ACCESSORIES**
Catalog No. TS-220  4-channel adapter kit
Catalog No. TS-200  Flexi Rigid 5mm Adaptor
Catalog No. TS-221  Flexi Rigid 6mm Adaptor

**ACCESSORIES FOR VACUUMMATE, SYNCHROMATE, CARBMATE AND IGNITION MATE**

- Molded Rubber Holster
- Soft Carry/Storage Case
- Probulator Lead Set

- Designed for the SynchroMate, CarbMate and IgnitionMate

TS-223 Molded Rubber Holster (blk)
TS-224 Molded Rubber Holster (red)

TS-222 Soft Carry/Storage Case

- Enter connector housings without damage to connector or cable. Establishes sure electrical contacts within connectors. Accepts standard 4mm banana plugs. 2 Pairs per set.

TM-99 Probulator Lead
INFRARED INDUSTRIES
EXHAUST GAS ANALYZERS

EXHAUST GAS ANALYZER
Diagnostics and Performance Tool

Catalog No. FGA4000XDS

When you need a reliable gas analyzer that can accurately speed up your emissions, tune-ups, and diagnostics testing, the FGA4000XDS and the FGA4500 Gas Analyzers are the perfect answer. By offering immediate results in seconds, these analyzers are the fastest machines on the market. Certified to BAR and OIML standards, they provide a portable, accurate, and quick solutions for every Powersports shop.

These units measures up to five gases including Hydrocarbons (HC), Carbon Monoxide (CO), Carbon Dioxide (CO2), Oxygen (O2), and Oxides of Nitrogen (NOX). Economical filters and sensors are replaced in seconds, and the sample cell and optics can easily be cleaned in the field!

Both models will instantaneously calculate readings and give you Air to Fuel Ratio (AFR), Lambda, and Grams per Mile (GPM) or Grams per Kilometer (GPK) in real time. When attached to a tachometer (optional), it reads engine speeds of up to 30,000 RPM. The optional built-in printer documents test results and allows shop owners to print their shop name, address, and other custom header text on the printout for customers’ records. You can diagnose fuel-related issues accurately and quickly to provide the service that your customers need.*

HANDHELD EXHAUST GAS ANALYZER
Fast • Compact • Accurate • Versatile

Catalog No. HM5000

OPTIONAL ACCESSORIES
NOx Sensor, Tach Pickup Cable, Serial Cable
Motorcycle Fittings:
• 2, 4, and 6 cylinder manifolds
• 6mm fitting for Honda, Yamaha or Kawasaki
• 10mm fitting for Ducati
IRI Display PC Software for remote control and display of the analyzer from a PC and record and playback of data
12V DC Cable
Analog outputs
Portable Printer
1yr wty, Extended warranty avail.

The high performance edge you’ve been looking for is finally here! Compact, fast responding, and accurate, the HM5000 helps you professionally tune in the shop or on the road.

It also lets you perform road testing on the go. Simply connect the HM5000 to your vehicle’s exhaust while you drive and in less than a second you’ll see the exhaust gas composition.

Determine the exact amount of Hydrocarbons (HC), Carbon Monoxide (CO), Carbon Dioxide (CO2), Oxygen (O2), and Oxides of Nitrogen (NOx) your vehicle is emitting.

Get instant readings on up to five gases, plus Air to Fuel (AFR) Ratio, Grams Per Mile (GPM) and Lambda to help you tune that ever-so-tricky carburetor or injection system.

See all the data on a road test, or when taking laps around the track, and replay the results without any additional equipment. Or, your can connect the HM5000 to your PC and download and store your test drive data for historical analysis. This potent combination of gas measurement and tach reading is all you need to tune or troubleshoot your engine at various RPM’s.

Gas Analyzer, INCLUDES: 4 Gas, HC, CO, CO2, O2. 120V, Includes AC power cord, Sample Hose, Sample Probe Handle & Operator’s Manual.

OPTIONAL ACCESSORIES
Fifth gas NOx transducer, 8 analog output connection module: 0–5V or 0–10V, Induc P/U Lead for RPM, Serial Cable for PC, Software for display and logging, Internal/External Printer, Mobile Cart 2 shelves, Extended 2yr warranty
UNIVERSAL POWER SPORTS
DIAGNOSTIC SCAN TOOL

MOTORSCAN 6050
The Motorscan 6050 is the ultimate Diagnostic Scan Tool for Motorcycles, Dirt Bikes, Scooters, ATVs and UTVs, with OEM-level coverage of 45 major brands, 2000+ models and over 7000 systems.

MOTORSCAN Functions include:
• Vehicle data information includes connector location & cable identification
• Automatic or manual vehicle search modes
• ECU / VIN display
• Read & reset stored/live fault codes & lights
• Fault code database includes code descriptions
• Live data display including: RPM, battery voltage, throttle angle & more
• Component test & activation functions include: injectors, ignition coils, fuel pumps & more
• Data logging function includes ECM parameters
• Idle, injection, throttle position sensor adjustment
• Reset auto-adaptive parameters to zero
• ABS air purge & pressure test function
• Key encoding/programming & PIN retrieval
• Unlock & configure immobilizer/alarm systems
• Body, suspension, traction control computer diagnosis
• Radio, instrument panel, handlebar controls diagnostics
• Tire pressure monitoring (TPMS)
• and more!

MS6053 DIVAS is a new accessory for the MS6050 scanner - Extending the range of diagnostic capabilities through a series of additional applications necessary for proper tune-up.

MS6053 DIVAS Functions:
• Synchronization of the throttle valves on the carburetor and fuel injection systems (max 4 channels)
• Dynamic analysis of the manifold intake pressures
• RPM reading
• Color graphing of measured data
• Synchronization procedures integrated with diagnostic functions of the Engine Control Unit (idle speed control lock, TPS and/or self-adaptive parameter reset, analysis of fault code memory, verification of proper operating conditions, etc
• 3 analog input ports for dynamic analysis and data acquisition of vehicle sensors
• Real-time monitoring and storage of measured data
• Built-in microphone

Available Kits: Catalog No. MS6050DS – Standard Pro: Includes One Software Token (1 Brand)*
Catalog No. MS6050DM - Deluxe Pro: Includes Master Software Token (45 Brands)*

*Vehicle Specific Cables Sold Separately
SUPERFLOW FLOWBENCHES

FEATURES SF-260
• The evolution of the popular SF-110 flowbench now with FlowCom digital airflow measurement system standard
• Automatic motor controller regulates test pressure or flow from the FlowCom set point
• Range: 0-280 cfm
• Rated for testing at up to 10in. of water test pressure
• Capacity: 260 cfm at 10in. of water
• 240V AC, 12 amp, single phase power
• Dimensions: 27” L x 20” W x 36” H

FEATURES SF-750
• The evolution of the industry standard SF-600 flowbench now with FlowCom digital airflow measurement system standard
• Automatic motor controller regulates test pressure or flow from the FlowCom set point
• Range: 0-750 cfm
• Rated for testing at up to 28” of water test pressure
• Capacity: 575 cfm at 25in. of water
• 240V AC, 40 amp, single phase power
• Dimensions: 27” L x 35” W x 80” H

FEATURES
• RTS Tooling’s pressure differential valves measure the pressure differentials in the valve flow area without obstructing the flow path of air being tested
• Accurately port map with complete intake or exhaust system in place
• Test and verify different valve shapes and sizes
• See where all the air is entering the chamber at all valve positions

OPTIONAL EQUIPMENT
F4000P-PDVK-S RTS Tooling standard pressure differential valve kit, kit includes one standard valve where you can select stem, head and valve face angle using RTS standard valve geometry
F4000P-PDVK-SV Additional RTS Tooling standard pressure differential valve: valve only
F4000P-PDVK-C RTS Tooling custom pressure differential valve kit, kit includes one fully custom valve built to your specifications
F4000P-PDVK-CV Additional RTS Tooling custom pressure differential valve: custom valve only
F1200A-SW-12 Port Flow Analyzer Pro Software by Performance Trends
F1200A-PT1 Pitot Tube (Velocity Probe) Exhaust
F1200A-PT2 Pitot Tube (Velocity Probe) Intake
F400P-PFA-PTI Pitot Tube (Velocity Probe) Small Bend Intake

VELOCITY PROBE

THE CARLSON COMPANY 800-222-6199
The CB1401 is the fastest and most efficient boring machine you can buy to bore motorcycle and small engine cylinders. Simple, accurate setup combined with rapid and flexible operation make this machine a profitable investment. Two spindle speeds and infinitely variable feed rate allow the operator to obtain the exact surface finish desired. The hard-chromed spindle (included) and pressure lubricated adjustable support bearings assure long and trouble free operation. The unique tool support mounted on top of the spindle allows for heavy cuts (up to .040") at large diameters, featuring anti-chatter dampening and support of the tool bit further out. The CB1401 boring bar comes complete with work lamp, table parallels (set of two), tool bit micrometer, hex wrench and deluxe floor mounted cabinet.

### STANDARD EQUIPMENT
- 5123 Cylinder Hold Down Kit
- 2431 Centering Cone
- 1780 Anti-Chatter Device
- 5121 Tool bit Micrometer (Inch)
- Or
- 5122 Tool bit Micrometer (Metric)
- 1255 Parallels (set of 2)
- 1790-1 Tool Bit 1.0” Tool Holder
- 1790-2 Tool Bit 1.3” Tool Holder
- 1790-3 Tool Bit 1.6” Tool Holder
- 1790-4 Tool Bit 2.0” Tool Holder
- 1750 Tool Cartridge (Holds Tool Bit)

### OPTIONAL EQUIPMENT
- 1900 Big Bore Kit – increases range from 4” to 4-1/2” (includes #6371 optional 3 finger centering device)
- 6371 3 Finger Centering Device (recommended)
- 1876 Replacement Carbide Inserts

### SPECIFICATIONS
- **BORE RANGE**: 1.5” (38mm) – 4” (101mm) (optional kit #1900 increases range to 4-1/2”)
- **STROKE**: 8” (203 mm)
- **SPINDLE SPEEDS**: 222 & 335 RPM
- **SPINDLE FEEDS**: Infinitely variable
- **MOTOR**: 1/2 HP, 120V-60Hz-1Ph or (Export) 220V-50Hz-1Ph
- **MACHINE DIMENSIONS**: 36”w x 18”d x 42”h
- **WORK TABLE DIMENSIONS**: 11” x 18”
SERV-EQUIP BY WINONA VAN NORMAN CYLINDER HONING MACHINE

The PS1370 Power Stroke Cylinder Honing Machine is an ideal machine for the motorcycle/small engine shop. Filling an important need of powersports dealers and machine shops, this power-stroking machine hones cylinders with controlled accuracy. Utilizing a clean, recirculating, 8 gallon, oil-bath environment, the machine helps the operator produce a consistent RMS surface finish every time. It detects and corrects tapered bores, while taking the work out of honing piston clearance.

FEATURES
- FASTER, EASIER & SAFER: Foot control included. Power Head traverses sideways on ball bearings for easy positioning
- VERSATILE: Can accommodate singles, and many twins, triples and fours
- HONES CYLINDERS WITH TORQUE PLATE ATTACHED
- STROKE: Adjustable by setting limit switches 8” max.
- STROKE SPEED: Fully adjustable
- LOAD METER: Indicates if bore is straight or tapered
- PAUSE BUTTON: Allows manual stroking override
- HONING OIL: Pump recirculates 8 gallons @ 5 GPM
- DWELL BUTTON & AMMETER: Allows manual removal of taper
- OPTIONAL FRICTION FEED HONE HEAD: Allows effortless changing of honing diameter, while running.

STANDARD EQUIPMENT
- 1015 Honing Oil Pump
- 1313 Work Light
- 1374 1/2” Jacobs Chuck Kit
- 6114 Small Engine Fixture

OPTIONAL EQUIPMENT
- 819216 AN Style, Friction Feed Hone Head w/ dual friction feed (2.5” – 5.5”) – (recommended)
- 819239 SN/JN Style, Friction Feed Hone Head (1.75” – 2.6”) – (head only)
- 860070–1 SN/J10 Style, Jr. Midget Manual Hone (1.25” – 1.77”) – (order with #1374 Jacobs Chuck Adapter & #1375-1 Chuck Key)

SPECIFICATIONS
- HONING RANGE: (Max.) 1.25” (31.75mm) – 5.5” (139mm) (with optional Hone Heads)
- STROKE: Adjusts to 10” (254mm)
- MOTOR: 1/2 HP, 115V
- AIR REQUIREMENTS: 110 psi, @ 3 cfm
- MACHINE DIMENSIONS: 32"w x 44"d x 60"h

The CH1300 Honing Tank was designed for ease and safety of operation while honing small engine cylinders. The cradle holds the cylinder in place leaving hands free for operation. Choosing the honing angle that works best for you is easy with the over-sized “easy-to-handle” locking knobs.

STANDARD EQUIPMENT
- 1313 Work Light
- 1015 Honing Oil Pump
- 6114 Small Engine Fixture

SPECIFICATIONS
- RANGE: Handles cylinders & heads up to 19”
- COOLANT PUMP: 110V, 5 G.P.M.
- HONE OIL CAPACITY: Holds 4 gallons
- DIMENSIONS: 26”w x 19”d x 33”h
**MITUTOYO MEASURING INSTRUMENTS**

Mitutoyo, manufacturers of high quality measuring instruments for over 70 years, provides specially engineered models with ranges to fit the needs of the Powersports service industry. All instruments feature highly usable calibrations with either a combination inch-and-metric, inch, or metric readout system to meet U.S. Federal Standards.

**DIGITAL OUTSIDE MICROMETERS**
(combination inch/metric)

The Combi-Mike gives readouts in both inch and metric systems simultaneously as you rotate the spindle. Inch measurements are indicated on the thimble/sleeve while the accurate metric equivalent is displayed as a digital readout in the display window. Features include quick-and-easy zero adjustment, clear graduations, satin chrome finished thimble and positive locking clamp. Comes complete with fitted carrying case.

**COMBI-MIKE**
Catalog No. 159-211

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Thimble</th>
<th>Digital Counter</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>293-332-30</td>
<td>2-3”</td>
<td>50-75mm</td>
<td>.0001” 0.01mm</td>
</tr>
<tr>
<td>293-333-30</td>
<td>3-4”</td>
<td>75-100mm</td>
<td>.0001” 0.01mm</td>
</tr>
</tbody>
</table>

**INCH OUTSIDE MICROMETERS**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>103-135</td>
<td>0-1”</td>
<td>.0001”</td>
</tr>
<tr>
<td>103-136</td>
<td>1-2”</td>
<td>.0001”</td>
</tr>
<tr>
<td>103-217</td>
<td>2-3”</td>
<td>.0001”</td>
</tr>
<tr>
<td>103-218</td>
<td>3-4”</td>
<td>.0001”</td>
</tr>
</tbody>
</table>

**METRIC OUTSIDE MICROMETERS**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>103-137</td>
<td>0-25mm</td>
<td>.01mm</td>
</tr>
<tr>
<td>103-138</td>
<td>25-50mm</td>
<td>.01mm</td>
</tr>
<tr>
<td>103-138-10</td>
<td>50-75mm</td>
<td>.01mm</td>
</tr>
<tr>
<td>103-140-10</td>
<td>75-100mm</td>
<td>.01mm</td>
</tr>
</tbody>
</table>

**TELESCOPING GAGE SET**

(6)

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>155-903</td>
<td>.315-5.90”</td>
</tr>
</tbody>
</table>

**MAGNETIC STAND**

Catalog No. 7011BN

This stand accepts all AGD-type dial indicators and comes complete with 6” adjustable rod and universal clamp with 132 pound pull. Test indicators and probes having 3/8” diameter shank and/or lug-back with 1/4” diameter mounting hole. The On-Off switch offers instant mounting and dismounting without any adverse effect to the indicators or work surface.

**DIAL INDICATOR**

Catalog No. 1044-01

Available in either inch or metric systems. Spindle rack, pinions and pivots are constructed of hardened stainless steel. Contact point is chrome-plated tool steel. Zeroing is quick and easy in any position. Clamping screw locks the setting. In addition to stem mounting, a lug-type back with 1/4” hole is positioned on each indicator for mounting purposes.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Graduation</th>
<th>Range</th>
<th>Dial Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>2416S</td>
<td>.001”</td>
<td>.1”</td>
<td>0-100</td>
</tr>
<tr>
<td>2050S-01</td>
<td>0.01mm</td>
<td>1mm</td>
<td>20mm</td>
</tr>
</tbody>
</table>

**MAGNETIC STAND**

Catalog No. 156-101

(.5” through 4” micrometers)

**SMALL HOLE GAGE SET**

(4)

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>154-901</td>
<td>.118 - 5.11”</td>
</tr>
</tbody>
</table>
NEWAY VALVE SEAT CUTTING KITS & MOTORIZED POWER UNIT

All kits can be hand operated, or used with optional variable speed motorized unit (Catalog No. PU 1800), and include seat cutting heads, narrowing cutters, solid pilots, brush, wrenches, fitted tool case and complete instructions.

<table>
<thead>
<tr>
<th>Standard Kits</th>
<th>Deluxe Kits*</th>
<th>Recommended For Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM 2451</td>
<td>D82-HD</td>
<td>Harley-Davidson</td>
</tr>
<tr>
<td>KM U470</td>
<td>N/A</td>
<td>HD V-Rod Upgrade Kit</td>
</tr>
<tr>
<td>KM 2487</td>
<td>N/A</td>
<td>Honda</td>
</tr>
<tr>
<td>KM 2493</td>
<td>N/A</td>
<td>Yamaha</td>
</tr>
<tr>
<td>KM 2538</td>
<td>N/A</td>
<td>Kawasaki</td>
</tr>
<tr>
<td>KM 2509</td>
<td>N/A</td>
<td>Suzuki</td>
</tr>
<tr>
<td>KM 2299</td>
<td>N/A</td>
<td>BMW</td>
</tr>
<tr>
<td>KM 2573</td>
<td>N/A</td>
<td>General Motorcycle Kit</td>
</tr>
<tr>
<td>KM 2563</td>
<td>D82-2/4V</td>
<td>General Japanese Motorcycle Kit</td>
</tr>
<tr>
<td>KM 2140</td>
<td>N/A</td>
<td>General Japanese ATV Kit</td>
</tr>
</tbody>
</table>

(Additional kits and replacement tungsten carbide blades are available)

*Deluxe kits include a selection of these extras:
Additional solid pilots to guarantee a snug fit with all appropriate valve guide sizes.
Radius blade(s) for blending combustion chamber smoothly into top narrowing cut.
All Deluxe Kits include one pint spray bottle of concentrated water-soluble seat cutting fluid.

D82-HD – DELUXE HARLEY-DAVIDSON KIT

CU622        Cutter – Short Hub 1-1/2” dia., 31°-46°
CU205        Cutter 1-1/2” dia., 60°
CU642        Cutter – Short Hub 1-3/4” dia., 31°-46°
CU293        Cutter 1-3/4” dia., 60°
140-5/16     Solid Pilot – 5/16” dia. -3, -2, -1, STD, +1, +2*
140-11/32    Solid Pilot – 11/32” dia. -4, -3, -2, -1, STD, +1, +2*
140-3/8      Solid Pilot – 3/8” dia. -2, -1, STD, +1, +2, +3, +4, +5*, +6*
140-7.02     Solid Pilot – 7.02 mm
TW505        T-Wrench
TC354*       3/4” Radius Blade
KACC246      Accessories Kit
CA160        Tool Case
PU707*       Cutting Fluid (1 pint spray bottle)

(Deluxe upgrades for KM2451)

D82-2/4V – DELUXE JAPANESE MOTORCYCLE KIT

CU132        Cutter – .830” dia. 32°
CU131        Cutter – .850” dia. 45°
CU133        Cutter – .874” dia. 60°
CU122        Cutter – .975” dia. 45°
CU123        Cutter – .975” dia. 31°
CU121        Cutter – 1” dia. 15°
CU111        Cutter – 1” dia. 60°
CU212*       Cutter – 1-1/4” dia., 15° x 75°
CU270        Cutter – 1-1/4” dia., 60°
TC356*       3/8” Radius Blade
CU607        Cutter – 1-1/4” dia., 30°
CU608        Cutter – 1-1/4” dia., 45°
CU626        Cutter – 1-1/2” dia., 30” x 45°
CU205        Cutter – 1-1/2” dia., 60°
100-4.0      Solid Pilot 4.0 mm
100-4.5      Solid Pilot 4.5 mm
100-5.0      Solid Pilot 5.0 mm
100-5.5      Solid Pilot 5.5 mm
100-5.52     Solid Pilot 5.52 mm
100-6.0      Solid Pilot 6.0 mm
100-6.6      Solid Pilot 6.6 mm
140-5.0      Solid Pilot 5.0 mm
140-5.5      Solid Pilot 5.5 mm

(Deluxe upgrades for KM2563)

The PU 1800 Power Unit is ideal for busy shops. The 115 volt, variable speed drive unit rolls along a bench mounted track to quickly position over the valve seat. The power unit’s double universal joint transmission easily adjusts to any cylinder head shape. Light downward pressure on handle provides perfect results effortlessly. Unit includes motor, transmission, trolley, track, and foot switch. (A.C. Headstand optional)
The VRF 1000 quickly and accurately machines the valve face in flawless concentric patterns, providing the proper surface texture for a complete valve seal. This motorized unit resurfaces valves with factory precision for just pennies per valve. The Neway method incorporates tungsten carbide machining that virtually eliminates the high and low spots common with surface grinding. The concentric pattern on the valve face seats better than the crosshatched pattern resulting from grinding.

You can reface valves without a large equipment investment. The “Gizmatic” features a crank style lever that turns long-lasting tungsten carbide blades against the stationary valve face. This crank provides the operator with enough leverage to make the job effortless, while a second lever allows the operator to control the feed rate of the blades. Soft-jawed V-blocks hold the valve stem securely in a vise while the cone, either 45° or 30°, automatically centers itself on the valve face.

**NEWAY VALVE REFAcer,** **VALVE FACE RECONDITIONER & BRM FLEX-HONE TOOLS**

Catalog No. Gizmatic

You can reface valves without a large equipment investment. The “Gizmatic” features a crank style lever that turns long-lasting tungsten carbide blades against the stationary valve face. This crank provides the operator with enough leverage to make the job effortless, while a second lever allows the operator to control the feed rate of the blades. Soft-jawed V-blocks hold the valve stem securely in a vise while the cone, either 45° or 30°, automatically centers itself on the valve face.

**NEWAY MOTORIZED VALVE FACE RECONDITIONER**

Catalog No. VFR 1000

**Faster, LESS EXPENSIVE and More Precise!**

**NEWAY VALVE REFAcer, VALVE FACE RECONDITIONER & BRM FLEX-HONE TOOLS**

**HAND VALVE REFAcer**

Catalog No. Gizmatic

**NEWAY VALVE REFAcer, VALVE FACE RECONDITIONER & BRM FLEX-HONE TOOLS**

**HAND VALVE REFAcer**

Catalog No. Gizmatic

You can reface valves without a large equipment investment. The “Gizmatic” features a crank style lever that turns long-lasting tungsten carbide blades against the stationary valve face. This crank provides the operator with enough leverage to make the job effortless, while a second lever allows the operator to control the feed rate of the blades. Soft-jawed V-blocks hold the valve stem securely in a vise while the cone, either 45° or 30°, automatically centers itself on the valve face.

**SPECIFICATIONS**

- **Valve Size Range:** 1/2” - 2-1/2”
- **Collet Size:** .196” - 1/2” (5mm - 13mm)
- **Accuracy:** Concentricity within OEM specs
- **Variable Rotation Speed:** Up to 1300 RPM
- **Variable Cutting Tool Feed**
- **Positive Stops:** 0°, 30°, 45°
- **Space Required:** 14-1/4” wide x 11-1/2” deep

**STANDARD EQUIPMENT**

| VFR95 | Collet: 3/8” (9.5mm) |
| VFR72 | Carbide Tool Bits – 6 cutting edges (2 incl.) |
| VFR75 | Carbide Tool Bits – 6 cutting edges (2 incl.) |
| VFR Bulb | High Intensity Work Light |
| VFR Disc. | Finishing Disc for butting valves: fits 3/8” collet |

Complete Illustrated Operating Instructions. One year warranty.

**OPTIONAL EQUIPMENT**

| VFRC80 | Collet: 8.0mm - 5/16” (required for H-D) |
| VFRC1132 | Collet: 11/32” (required for H-D) |

Fast, efficient cylinder deglazing and cross-hatching with a plateaued finish insures immediate ring seating without appreciable stock removal. These unique flexible hones consist of globules of silicon carbide laminated to the ends of high-density nylon. Ideal for port deburring of two-stroke engines, and essential for obtaining a plateaued finish. Power by 3/8” or 1/2” portable electric drill.

**HONING OIL QUART & HALF PINT**

Catalog No. FHQ & Catalog No. FHP

**Cylinder Flex-Hone Tools**

**For fast ring seating!**

**Catalog No.** | **Range** | **Grit (Specify)**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BC 1-3/4”</td>
<td>1-3/4” to 1-3/4” (38mm to 45mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>BC 2”</td>
<td>13/4” to 2” (45mm to 51mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>BC 2-1/4”</td>
<td>2” to 2-1/4” (51mm to 57mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>BC 2-1/2”</td>
<td>2-1/4” to 2-1/2” (57mm to 64mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>BC 2-3/4”</td>
<td>2-1/2” to 2-3/4” (64mm to 70mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>BC 3”</td>
<td>2-3/4” to 3” (70mm to 76mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>GB 3-1/4”</td>
<td>3” to 3-1/4” (76mm to 83mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>GB 3-1/2”</td>
<td>3-1/4” to 3-1/2” (83mm to 89mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>GB 3-3/4”</td>
<td>3-1/2” to 3-3/4” (89mm to 95mm)</td>
<td>180/240/320</td>
</tr>
<tr>
<td>GB 4 1/8”</td>
<td>3-3/4” to 4 1/8” (95mm to 105mm)</td>
<td>180/240/320</td>
</tr>
</tbody>
</table>

**Cylinder Flex-Hone Tools**

**For fast ring seating!**

**Cylinder Flex-Hone Tools**

**For fast ring seating!**

**HONING OIL QUART & HALF PINT**

Catalog No. FHQ & Catalog No. FHP

**Cylinder Flex-Hone Tools**

**For fast ring seating!**

**HONING OIL QUART & HALF PINT**

Catalog No. FHQ & Catalog No. FHP

**Cylinder Flex-Hone Tools**

**For fast ring seating!**

**HONING OIL QUART & HALF PINT**

Catalog No. FHQ & Catalog No. FHP
MOTION PRO ENGINE SERVICING TOOLS

Catalog No. 08-0188 Compression Tester
Catalog No. 08-126X Replacement 10mm Hose
Catalog No. 08-126Y Replacement 12mm Hose
Catalog No. 08-126Z Replacement 14mm Hose
Catalog No. C08-0188A Sniffer Valve (one required per hose)

SPECIFICATIONS
• Designed to check cylinder compression
• Contains hoses for 10, 12 & 14mm spark plug applications
• Features a quick disconnect with a pressure release valve and a 300 psi. gauge
• Packed in a convenient carry box, complete with instructions
• Made in the U.S.A.

Catalog No. 08-0165 Small Multi-Valve Tool
Catalog No. 08-0166 Large Multi-Valve Tool

SPECIFICATIONS
• Used to install valve spring keepers
• Replaces the large clamp-type valve spring compressor
• The small tool is designed to fit the valves of 4 and 5 valve cylinder heads (6mm valve stem dia. or smaller)
• The large tool is designed to fit valves with cylinder heads 5.5mm valve stem diameter or larger with under 40 lbs. seat pressure
• Will dramatically reduce the time necessary to replace valves in modern 16 to 20 valve heads
• Instructions included
• Made in U.S.A.

Catalog No. 08-0168A 4-STROKE LEAK DOWN TESTER
Catalog No. 08-0071

SPECIFICATIONS
• Designed to check for air leaks in 2-stroke engines
• Includes air pressure gauge, pump-up bulb and most fittings and adapters for single and twin cylinder 2-stroke motorcycle engines
• Packed in a convenient carry box, complete with instructions
• Made in the U.S.A.

Catalog No. 08-0126 4-Stroke Leak Down Tester
Catalog No. 08-0812X Replacement 10mm Hose
Catalog No. 08-0812Y Replacement 12mm Hose
Catalog No. 08-0126Z Replacement 14mm Hose

SPECIFICATIONS
• Designed to check the amount of cylinder leakage in a 4-stroke engine
• With an air source of 70 to 180 psi., this system will pressurize the cylinder with 60 psi. of air
• Gauge will register the total percentage of leakage past the rings, head gasket, intake and exhaust valves
• 10, 12, & 14mm spark plug thread hoses, regulator and gauge included
• Speeds up troubleshooting & helps to isolate bad components
• Made in the U.S.A.
• Packed in a convenient carry box, complete with instructions

Catalog No. 08-0247

VALVE SPRING COMPRESSOR

SPECIFICATIONS
• Improved quick action design
• Replaces 07757-0010000 and AKS-215-1010 OEM tools
• Accepts Motion Pro adapters (08-0248) as well as OEM adapters 07GME-KT70200, 07JME-KY20100, and 07959-KM30101 for use in "shim under bucket" and small diameter valve spring keeper applications
• Both cup-type and ball-type tips are included

Catalog No. 08-0248 QUICK-ACTION ADAPTER AND BORE PROTECTOR SET
(For Valve Spring Compressor)

SPECIFICATIONS
• The set includes 3 adapters and 3 bore protectors for use with the Quick-Action Valve Spring Compressor (08-0247)
• 23mm bore protector can be used with the Small Multi-Valve Tool (08-0165) in "shim under bucket" applications
• Replaces 2K-07-504, 07GME-KT70200, 07GME-KT70100, 07JME-KY20100, 07JMG-KY20100, 07959-KM30101, and 07HMG-MR70002

THE CARLSON COMPANY
800-222-6199
TRINCO has been a leader in blast cleaning equipment since 1951. With many cabinet designs available, we can provide your shop with equipment to meet all of your blasting needs.

The Standard Model Blast Cabinet is ideal for cleaning small parts. It has all the features of a full size cabinet, yet it doesn’t require the space. The standard gun system is rated at 14 CFM, 60 PSI. The TR20 can be used as a bench model or combined with a work stand that is 24” high and contains a swing-up shelf and a slide-out tray for disposing of spent media.

**STANDARD MODEL BLAST CABINET**
Catalog No. TR20

**FEATURES**
- Durable 14-gauge welded steel construction
- Large window, 18" x 10” for excellent viewing
- Easy change window frame
- Air pressure regulator and gauge
- Tungsten carbide nozzle
- Safety foot valve blasting control
- Trap door for easy disposal of spent media
- Heavy-weight rubber gloves
- Incandescent lighting
- 100 CFM dust collector
- 15 lbs. all purpose media included

**SPECIFICATIONS**
- Inside dimensions: 20”w x 18”d x 18”h
- Overall dimensions: 21”w x 18-1/2”d x 36”h
- One door opening
- Front opening Lid: 20” x 15”
- Electrical requirements: 115 Volt, 1 Phase, 60 Cycle

**OPTIONS**
- Water filter (recommended)
- Blow off gun
- Auto Power Basket (8” x 8”)
- Protective glass film (10 pack)

**BENCH-TOP MODEL**
Catalog No. TR20BM
(Also available)

**FEATURES**
- Durable 14-gauge welded steel construction
- Carbon screen workfloor
- Large safety glass window, 19-1/2” x 12”
- Easy change window frame
- Tungsten carbide nozzle
- Safety foot valve blasting control
- Trap door for easy disposal of spent media
- Heavy-weight rubber gloves
- BP dust collector
- Incandescent lighting
- 15 lbs. all purpose media included

**SPECIFICATIONS**
- Inside dimensions: 24”w x 18”d x 23”h
- Overall dimensions: 26”w x 18-1/2”d x 62”h
- One door opening
- Front opening Lid: 24” x 13”
- Dust collector dimensions: 57-1/2”h x 14”d
- Electrical requirements: 115 Volt, 1 Phase, 60 Cycle

**OPTIONS**
- Air pressure regulator and gauge
- Water filter (recommended)
- Blow off gun
- Auto power basket (8” x 8” or 8” x 12”)
- Spare parts package
- Abrasives
- Protective glass film (10 pack)

**STANDARD BLAST CABINET**
Catalog No. TR24

**FEATURES**
- Durable 14-gauge welded steel construction
- Carbon screen workfloor
- Large safety glass window, 19-1/2” x 12”
- Easy change window frame
- Tungsten carbide nozzle
- Safety foot valve blasting control
- Trap door for easy disposal of spent media
- Heavy-weight rubber gloves
- BP dust collector
- Incandescent lighting
- 15 lbs. all purpose media included

**SPECIFICATIONS**
- Inside dimensions: 20”w x 18”d x 18”h
- Overall dimensions: 21”w x 18-1/2”d x 36”h
- One door opening
- Front opening Lid: 20” x 15”
- Electrical requirements: 115 Volt, 1 Phase, 60 Cycle

**OPTIONS**
- Water filter (recommended)
- Blow off gun
- Auto Power Basket (8” x 8”)
- Protective glass film (10 pack)

**MASTER BLAST CABINET**
Catalog No. TR36

**FEATURES**
- Rugged 14-gauge welded steel construction
- Fluorescent lighting to efficiently eliminate shadows
- Large safety glass window, 12” x 24”
- Air pressure regulator and gauge
- Double floor – 1/8” expandex steel plus carbon screen
- Heavy-weight rubber gloves
- Easy change window frame
- Safety foot valve blasting control
- Tungsten carbide nozzle
- Available with BP dust collector or abrasive separator
- 15 lbs. all purpose media included

**SPECIFICATIONS**
- Inside dimensions: 36”w x 24”d x 23”h
- Overall dimensions: 38”w x 25”d x 64”h
- Two door openings
- Front opening Lid: 36” x 13”
- Side door: 17” x 11”
- BP dust collector dimensions: 57-1/2”h x 14”d
- Electrical requirements: 115 Volt, 1 Phase, 60 Cycle

**OPTIONS**
- Water filter (recommended)
- Blow off gun
- Turntable
- Protective glass film (10 pack)

Call for additional brochures detailing the entire line of TRINCO Blasting Products.
While capacity requirements vary somewhat in different shops, 20-ton hydraulic presses are the most popular choice for today’s service repair departments. Choose 3-speed pump with foot operation, or single-speed or two-speed pump with hand operation. Basic tooling on all units includes two table parallels and two “V” blocks. All 20-ton presses have slots in uprights to permit fork tube straightening.

**FEATURES**

- **EASY TO USE:** Self-locking table winch for easy table height adjustments.
- **FASTER OPERATION:** Multiple-speed pumps permit faster ram speeds. Results in fewer strokes which advances the ram further per stroke. Saves time!
- **OVERLOAD SAFETY PROTECTION:** Maximum-capacity relief valve and ram-travel limit valve are hydraulic safety features incorporated on all units.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Capacity</th>
<th>Method of Operation</th>
<th>Number of Ram Speeds</th>
<th>Min. No. strokes per inch of ram Travel</th>
<th>Width between Uprights</th>
</tr>
</thead>
<tbody>
<tr>
<td>H20-6</td>
<td>20</td>
<td>Hand</td>
<td>6”</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>H20-6-3F</td>
<td>20</td>
<td>Foot</td>
<td>6”</td>
<td>3</td>
<td>6-1/2</td>
</tr>
<tr>
<td>H40-14</td>
<td>40</td>
<td>Hand</td>
<td>14”</td>
<td>2</td>
<td>3-1/4</td>
</tr>
</tbody>
</table>

**HANDY ANTI-FATIGUE MATS**

This Anti–Fatigue mat is made of a heavy-duty material that suffers no deterioration from weathering and ozone exposure and complies with the FMVSS–302 for self-extinguishing properties. These mats provide excellent durability when exposed to many organic and inorganic industrial chemicals.

These mats far exceed the competition with a closed cell polymeric sponge base that produces the soft and resilient rebound properties needed in a manufacturing or working environment.

- #17502 Anti–Fatigue Mat – Black Diamond Plate 3’ x 5’ Super–Duty Double Sponge, 1” thick
- #17501 Anti–Fatigue Mat – Black Diamond Plate 3’ x 5’ Heavy–Duty Single Sponge, 9/16” thick
- #17503 Anti–Fatigue Mat – Black Diamond Plate 2’ x 7’ Heavy–Duty Single Sponge, 9/16” thick

Available Colors: Black
These two-stage compressors from Champion range in size from 1-1/2 horsepower to 30 horsepower. Air pressure ratings range to 175 PSIG. Each Champion two-stage compressor unit is shipped complete, ready for connection to electrical power. All are available with either horizontal or vertical tanks.

**STANDARD FEATURES**
- Air pressure gauge (0-300 PSIG)
- ASME safety valve
- ASME 200 PSIG working pressure tank
- Centrifugal starting unloader
- Electric motor NEMA rated
- Multiple V-belt drives
- Enclosed belt-guard.

**HORIZONTAL AIR COMPRESSOR**
Catalog No. HR10-12

**VERTICAL AIR COMPRESSOR**
Catalog No. VR5-8

**SPECIFICATIONS**

### HORIZONTAL TANKS

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Horsepower</th>
<th>Phase*</th>
<th>cfm @ 175psi</th>
<th>Avail. Tank Sizes (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR5-8</td>
<td>5</td>
<td>single or 3</td>
<td>16.5</td>
<td>30, 60, 80, 120</td>
</tr>
<tr>
<td>HR7-12</td>
<td>7-1/2</td>
<td>3ph only</td>
<td>25.8</td>
<td>60, 80, 120, 250</td>
</tr>
<tr>
<td>HR10-12</td>
<td>10</td>
<td>3ph only</td>
<td>34.8</td>
<td>80, 120, 250</td>
</tr>
<tr>
<td>HR15-25</td>
<td>15</td>
<td>3ph only</td>
<td>49.0</td>
<td>120, 250</td>
</tr>
</tbody>
</table>

### VERTICAL TANKS

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Horsepower</th>
<th>Phase*</th>
<th>cfm @ 175psi</th>
<th>Avail. Tank Sizes (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR5-8</td>
<td>5</td>
<td>single or 3</td>
<td>16.5</td>
<td>60, 80, 120</td>
</tr>
<tr>
<td>VR7-12</td>
<td>7-1/2</td>
<td>3ph only</td>
<td>25.8</td>
<td>60, 80, 120</td>
</tr>
<tr>
<td>VR10-12</td>
<td>10</td>
<td>3ph only</td>
<td>34.8</td>
<td>80, 120</td>
</tr>
<tr>
<td>VR15F-12</td>
<td>15</td>
<td>3ph only</td>
<td>49.0</td>
<td>120</td>
</tr>
</tbody>
</table>

**OPTIONAL EQUIPMENT**

*(Some Options Required for units 3-HP & up – phone for assistance)*

- MS-2 through MS-15
- Magnetic Starters*
- Mounting
- Mounting & Wiring Mag. Starter*
- Z685
- Oil Monitor for all 2 through 10 HP units
- ATDPNEU
- Automatic Tank Drain – Pneumatic (recommended)
- VIBRO-ISOLATOR
- Vibro-Isolator Set (specify model) (recommended)
- AFTERCOOLER
- Air Cooled (specify model) (recommended)

Phone for additional models & specifications

*Specify phase and voltage when ordering – single-phase units are pre-wired for 230 volts. Three-phase units can be pre-wired for: 200, 208, 230 or 460 volts. Note that three-phase units are less expensive to purchase and to operate.
OMEGASONICS ULTRASONIC
BENCHTOP CLEANERS

These ultrasonic bench top cleaners clean faster and more thoroughly than hand-cleaning and can significantly reduce labor costs while improving cleaning results. These ultrasonic systems are well suited for all powersports shops needing an effective system for stripping grease, debris, contaminants and corrosion from engine cases, carburetors and other parts. An environmentally-sound solution, our Ultrasonic Washers use a wide range of economical cleaning solutions developed for the contaminants being removed and the surfaces being cleaned, whether metal or plastic.

OMEGASONICS OMEGA PRO SERIES
ULTRASONIC CLEANERS

OMEGASONICS OMEGA PRO 25
GALLON ULTRASONIC CLEANER
Catalog No. 5022

SPECIFICATIONS
25 Gallons
4” Weir
1 phase/120 VAC/15 Amp
1000 Watts Ultrasonic Power
Tank Dimensions:
18” length x 18” width x 14”
working depth (20” Overall)
Overall Dimensions:
44” length x 21” width x 34” height

The Omega Pro is the most compact version of our portable ultrasonic parts washing line. With 1000 watts of power in a 25 gallon tank, it offers all the effectiveness of our larger units – in a more convenient size. Designed for Powersports Dealers and other industrial applications, this unit offers the user a perfect mid sized ultrasonic cleaner.

ACCESSORIES (For All Units)
OmegasClean Soap #10-1, (1 Gal.) - Cat. No. Soap10-1
OmegasClean Soap #10, (5 Gal.) - Cat. No. Soap10
OmegasClean Soap #10-55, (55 Gal.) - Cat. No. Soap10-55

OMEGASONICS OMEGA PRO PLUS 33
GALLON ULTRASONIC CLEANER
Catalog No. 5028

The Omega Pro Plus is also considered a mid sized ultrasonic cleaner. It offers 2000 watts of cleaning power and a larger 33 gallon tank. As with all of our ultrasonic cleaners, non-toxic bubbles create a unique cavitation phenomena that seeks out and removes heavy grease, oils, contaminants and unwanted microscopic particles from the parts you want cleaned. This extraordinary cleaning action infiltrates the smallest crevices and hard-to-reach surfaces, penetrating areas normally inaccessible to other cleaning methods.

SPECIFICATIONS
33 Gallons
4” Weir
1 phase/120 VAC/20 Amp
2000 Watts Ultrasonic Power
Tank Dimensions:
24” length x 18” width x 14”
working depth (20” Overall)
Overall Dimensions:
51” length x 21” width x 34” height


**Build-All Patented Water Filtration System!**

Extends solvent use up to four months between changes. Water will not mix with mineral spirits-type solvent, so it continually forms a chemical turbulence barrier between the heavier sludge at the bottom and the filtered solvent on top.

**STANDARD FEATURES**
- Fusible linked fire cover for safety
- Patented water filtration system
- PW26 Includes 16 gallon drum
- DM32 Includes 30 gallon drum

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>PW26</th>
<th>DM32</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inside Tub Dimensions</strong></td>
<td>26&quot;L x 17&quot;W x 7&quot;D</td>
<td>32&quot;L x 22&quot;W x 10&quot;D</td>
</tr>
<tr>
<td><strong>Sill Height</strong></td>
<td>34&quot;</td>
<td>39-1/2&quot;</td>
</tr>
<tr>
<td><strong>Solvent Capacity</strong></td>
<td>9 Gallons</td>
<td>15 Gallons</td>
</tr>
<tr>
<td><strong>Water Capacity</strong></td>
<td>5 Gallons</td>
<td>10 Gallons</td>
</tr>
<tr>
<td><strong>Pump Capacity</strong></td>
<td>170 GPH</td>
<td>300 GPH</td>
</tr>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td>120V/1PH/60Hz/.6A</td>
<td>120V/1PH/60Hz/1.7A</td>
</tr>
</tbody>
</table>

**PARTS WASHER**

Catalog No. PW26 & DM32

**STANDARD FEATURES**
- Fusible linked fire cover for safety
- Constructed of 13 gauge steel
- Rectangular 30 gallon base tank reservoir for working stability
- Flow regulating valve
- Deluxe worklamp assembly
- Tub is pin hinged to base for easy maintenance
- Patented water filtration system

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>STD32</th>
<th>SUP48</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inside Tub Dimensions</strong></td>
<td>32&quot;L x 22&quot;W x 10&quot;D</td>
<td>48&quot;L x 22&quot;W x 10&quot;D</td>
</tr>
<tr>
<td><strong>Sill Height</strong></td>
<td>38-1/2&quot;</td>
<td>38-1/2&quot;</td>
</tr>
<tr>
<td><strong>Solvent Capacity</strong></td>
<td>20 Gallons</td>
<td>20 Gallons</td>
</tr>
<tr>
<td><strong>Water Capacity</strong></td>
<td>10 Gallons</td>
<td>10 Gallons</td>
</tr>
<tr>
<td><strong>Pump Capacity</strong></td>
<td>300 GPH</td>
<td>300 GPH</td>
</tr>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td>120V/1PH/60Hz/1.7A</td>
<td>120V/1PH/60Hz/1.7A</td>
</tr>
</tbody>
</table>

**OPTIONAL ACCESSORIES**

<table>
<thead>
<tr>
<th></th>
<th>PW26</th>
<th>DM32</th>
<th>STD32</th>
<th>SUP48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deluxe Worklamp Assembly</td>
<td>A3210N</td>
<td>A3210N</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Flow Regulating Valve</td>
<td>A2621S</td>
<td>A3216</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Flow Thru Brush Assembly (includes nylon cleaning brush, hose &amp; necessary fittings)</td>
<td>A2636N</td>
<td>A3236SN</td>
<td>A3236SN</td>
<td>A3236LN</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>PL36</th>
<th>SSWH1630SSHS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inside Tub Dimensions</strong></td>
<td>36”L x 24”W x 10”D</td>
</tr>
<tr>
<td><strong>Sill Height</strong></td>
<td>39”</td>
</tr>
<tr>
<td><strong>Solution Capacity</strong></td>
<td>25 Gallons</td>
</tr>
<tr>
<td><strong>Tub Construction</strong></td>
<td>High Density Polyethylene</td>
</tr>
<tr>
<td><strong>Pump Capacity</strong></td>
<td>300 GPH</td>
</tr>
<tr>
<td><strong>Heating System</strong></td>
<td>900W Drop-In</td>
</tr>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td>120V/1PH/60Hz/1.7A</td>
</tr>
</tbody>
</table>

*Based upon mounting on either 16 or 30 Gallon Drum

**FEATURES**

- Fusible linked gas spring assisted fire Cover for Safety
- Hinged tub allowing easy access to base reservoir tank
- Loc-Line style acetal flex nozzle
- Flow-thru cleaning brush assembly
- Flow regulating valve to direct solvent flow
- Stainless steel crumb cup with stainless steel filter strainer
- FN1020 Particulate filtration system (PL36 only)
- Built-in fluorescent light fixture (SSWH1630SSHS only)
- Dual mounting rings fit either 16 or 30 gallon drum – Drum not included (SSWH1630SSHS only)

**AIR POWERED IMMERSION CLEANERS**

Designed for use with compatible solvents or carburetor cleaners

**FEATURES**

- Special hanger bracket with convenient basket hook
- Durable steel reservoir drum with cover locking band
- Heavy-Duty air motor rotates basket in both directions
- Rugged metal spun basket has 1/8” diameter holes for containing extra Small Parts and a convenient hook for draining from top of drum

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>AK6</th>
<th>AK16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basket Dimensions</strong></td>
<td>10” Diameter</td>
</tr>
<tr>
<td><strong>Reservoir Size</strong></td>
<td>6 Gallons</td>
</tr>
<tr>
<td><strong>Workload Capacity</strong></td>
<td>30 Pounds</td>
</tr>
<tr>
<td><strong>Air Pressure Range</strong></td>
<td>20–90 PSI</td>
</tr>
</tbody>
</table>
SPECIALTY MOTORS
PERSONAL WATERCRAFT
TEST TANK, HOIST & DOLLIES

Built by Specialty Motors, this test tank has been designed and manufactured to meet all of your needs. Since 1952, Specialty Motors has been building quality test tanks geared for the Marine Industry. Similar to the models developed for “Outboard Engine” testing this PWC Test Tank was developed as an “easy to use” solution for personal watercraft testing needs. The tank is uniquely designed to submerge only the pump and a small portion of the hull. The majority of the hull stays clean and dry during testing. The bunks and tie-down points hold the personal watercraft securely to avoid jumping and bucking experienced by standard test tanks. The attached Hoist (included with Catalog No. PWC-TT-H) will lift the PWC from its trailer and rotate it around into the test tank with ease. The Hoist also serves as an easy way to lift any PWC for inspection or service.

How to lift a personal watercraft with just one hand!

The PWC Hoist Workstation is designed to lift personal watercraft in any environment with only one person. Whether you are lifting a PWC off your customer’s trailer or from a PWC dolly, you can count on this Hoist/Workstation. This versatile piece of equipment lifts the PWC to a workable height and tilts the watercraft for easy engine compartment access and other servicing needs. This Hoist/Workstation takes the back pain out of PWC servicing!

OPTIONAL EQUIPMENT
Catalog No. Description

- PWC-FLK Fork Lift Kit: Allows easy movement of PWC with any fork lift
- BTT-MINI PWC Boatoter: Designed to work as a cradle rest for PWC
- WLY-MINI WEELEE DEELEE: Wheels make PWC Hoist, & Boatoter portable
SHURE ULTRA CUSTOM & REALITI WORKCENTERS

Designed from the ground up for the ultimate in versatility and durability. The Ultra Custom Workcenter meets the needs of the most demanding service departments. Affordable and built to last, these workcenters provide technicians with a rugged stainless steel work surface and plenty of storage for maintaining an efficient work environment.

FEATURES
- Custom workbench stainless steel top 60” x 24”
- Stainless steel tool board 48” x 25”
- Storage cabinet 48” (includes lock)
- Sliding doors (2)
- LED Task Light
- 1,000 lb. Capacity
- Color as shown: gloss black w/orange accents

OPTIONS
- Custom Color Choices Available (no add’l charge)
- 2 Drawers & 2 Sliding Doors
- Open (no drawers or doors)
- Portable (with casters)
- Steel Bench Top, Powder Coat Finish
- Hardwood Bench Top
- Vinyl Mat 60” x 24”
- Heavy-Duty Rubber Mat 60” x 24” x 1/4”
- Locks for Drawers & Doors
- Bench Vise

Shure Realiti Workbenches and Workcenters are built to last!

The Realiti line of workbenches is second to none when it comes to quality, design and image enhancement. The Realiti Workcenter comes standard with a stainless steel work surface and toolboard, lockable upper cabinets, task light, and fully enclosed lockable lower cabinets and drawers. Built for durability and performance, these benches are the best investment you can make for the appearance and productivity of your service area.

FEATURES
- Stainless steel bench top 60” x 24”
- Stainless steel toolboard
- Flip front upper storage cabinet (workcenter only)
- LED Task Light
- 2 Drawer/4 door combination with ball bearing drawer slides
- Full body steel construction, powder coat finish
- Large storage capacity with easy access
- 1,000 lb. Capacity

OPTIONS
- Vinyl Mat 60” x 24”
- Heavy-Duty Rubber Mat 60” x 24” x 1/4”
- Locks for 2 Drawers and 4 Doors
- Bench Vise

Call for additional brochures detailing the entire line of Shure Manufacturing products.
The Custom Series Workbenches have a stylish appearance coupled with strength and utility. The versatile Custom Series offers a variety of options and accessories that allow the service technician to create a workstation that meets specific requirements. Organize your shop with the bench that works best for you.

**FEATURES**
- Durable 12-gauge steel tops & 14-gauge steel bodies
- Choose from three tops to fit your individual requirements
- Three base configurations provide the ability to make the bench of your choice
- Available as a portable, stationary or wall-mounted bench
- Powder coat finish paint protects against rusting, chipping & peeling
- Large work surface & under bench storage
- 1000 lb. Capacity

**OPTIONS**
Three Different Tops: stainless steel, steel (powder coat paint), & hardwood maple  
Three Different Configurations: Open, doors only, doors & drawers  
Three Different Styles: Portable, wall-mounted & stationary  
Vinyl Mat 60” x 24”  
Heavy-Duty Rubber Mat 60” x 14” x 1/4”  
Bench Vise

**CUSTOM SERIES PORTABLE BENCH**  
Catalog No. 811013

**5” HEAVY-DUTY BENCH VISE**  
Catalog No. 900650

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SHURESHOP WORKBENCHES & CARTS

Shureshop Workbenches offer a variety of styles and sizes to fit your shop needs. The Shureshop Benches are made in the U.S.A of heavy-gauge steel construction for strength and durability. Designed to work under rugged shop environments, these benches are a step above the competition. The powder coat finish paint extends the bench life and resists rusting, chipping and peeling. Benches can be configured in a number of different ways - customize these benches to work best in your shop. Available in four different styles: Portable, Stationary, Semi-Portable and Wall-Mounted.

FEATURES
- Durable 12-gauge steel construction
- Powder coat finish paint
- Three bench top choices: Steel, Hardwood Maple, & Stainless Steel
- Choose from several bench sizes 48”, 60”, 72” (phone for details)
- Add an optional drawer or stack several drawers*

OPTIONS
- Bench Tops: Steel (powder coat paint), Hardwood Maple, Stainless Steel
- Accessory Kit (back stop, left & right end stops, lower shelf 12”d)
- Drawers*
- Toolboard
- Vinyl Mats
- Heavy-Duty Rubber Mats
- Pressed Wood Covers
- Bench Riser Kits
- Caster Wheels for Portability
- Bench Vise

*BENCH ADD-ON DRAWERS
Inside drawer dimensions are 20” wide by 20” deep by 6” high. Can be mounted under the benchtop of Basic Workbench for extra storage - either stacked in vertical tiers or side-by-side (two drawers fit side-by-side under 60” benchtop; three drawers can be used under 72” top).

TECHNICIAN CART
Catalog No. 800019

Technician Carts are available in the color of your choice and come portable as shown. (shown in Monaco Blue)

OPTION
420020 Additional Shelf

CUSTOM COLOR CHART

Call for additional brochures detailing the entire line of Shure Manufacturing products
The Shure Tear-Down Bench features a reinforced top with 1/2” lip on all sides and is strong enough to accept parts-holding devices. The offset drain allows fluid to be contained in a removable container for easy disposal and cleanup. Locking drawer secures regularly used tools and materials.

Also Available
Catalog No. 811098 Oversized Tear-Down Bench w/parts tray & toolboard 60”w x 32”d (adjustable height)
Catalog No. 811100 Fluid Containment Bench (Stainless Steel Top) 48” x 29” x 41” high

**SHURE TEAR-DOWN BENCHES**

From the same manufacturer as the world renowned Handy Portable Air Lift is the ever popular Handy Tear-Down Tables & Wrench Benches. These economy benches are designed to save you time and money.

The Deluxe Tear-Down Table steel workbench is great for your service department or your garage. The 14 gauge top has a 3/4” rim to contain liquids and capture leaking fluids when working on hydraulic systems and transmissions. Fluids drain into the removable polyethylene drawer for easy dispensing. The convenient adjustable lower shelf organizes your tool storage. The drawer features a cylinder key locking system with full-extension ball bearing sliders to keep your valuables safe. Tough powder-coat finish resists rust, chips, and scratches.

**FEATURES**
- Adjustable working height of 37” to 41”
- Heavy duty 4” casters (2 rigid & 2 locking swivel)
- 14 gauge 48” x 28” table top with 3/4” rim
- Removable 20” x 12” x 6” polyethylene drawer
- Adjustable lower shelf
- Heavy duty 24” x 18” x 5-1/2” locked drawer

This Wrench Bench is adjustable for your height preference and provides a spacious 48” x 28” work area. It has a heavy-duty 24” x 18” x 5½” drawer so you can keep your valuable tools locked up and your workspace neat and clutter free. The lower shelf is also adjustable to accommodate your extra tools and equipment. This bench comes with lockable swivel casters, or it can be used without the casters as a stationary bench.

**FEATURES**
- Heavy duty 24” x 18” x 5½” locking drawer
- Adjustable working height of 32” to 42”
- Heavy duty 4” casters (2 rigid & 2 locking swivel)
- 14 gauge 48” x 28” table top
- Adjustable lower shelf
TERMS AND CONDITIONS

BUSINESS HOURS:
Monday – Friday 8:30 a.m. – 4:30 p.m. (Pacific Time)

HOW TO ORDER:
Order by phone, call 1-800-222-6199. Sales and customer service representatives are available 8:30 a.m. – 4:30 p.m. PDT Monday through Friday.

PAYMENT OPTIONS:
Company Check
Credit Card (Visa, MasterCard, Discover Card)
Bank Wire Transfer
C.O.D. on smaller items shipped from stock
Net 15 on approved credit
Leasing - Lease to Own ($3,000.00 min., 2 years in business, approximately 48 hours for approval)

SHIPPING:
Orders are shipped customer prepaid, or freight collect. F.O.B. shipping point(s) - see price list. Normally, equipment is shipped via common carrier truck, and smaller items via UPS. Method of shipment is at the shipper’s discretion, however, every effort will be made to accommodate any special shipping preferences you may have.

DELIVERY:
Estimated delivery times can be obtained at time of purchase from our customer service representatives. Unloading of equipment is your responsibility. You should ensure that a fork lift or equivalent is available at time of delivery. Any re-delivery charges are the responsibility of the purchaser.

WARRANTY:
Products sold by The Carlson Company are warranted by the manufacturers to be free from defects in material and workmanship. Adjustments under these warranties are limited to the repair or replacement of parts found to be defective, and do not include transportation charges. Damage arising from misuse or abuse is not covered by warranty.

FREIGHT DAMAGE CLAIMS:
All goods are carefully packed and are in good condition when shipped to our customers. According to the F.T.C., title to merchandise passes to customer when shipment turns it over to the common carrier and/or receiver. Any loss or damage in transit is the sole responsibility of the carrier. AT THE TIME OF DELIVERY INSPECT ALL SHIPMENTS IMMEDIATELY FOR POSSIBLE DAMAGE OR SHORTAGE. If external damage is apparent, or hidden internal damage is suspected, you should sign the freight bill “freight damaged” or “subject to claim”. Any claim for damage or shortage should be made with the carrier at once. We are more than willing to assist you in your claim; however, we are not responsible for collection of claims or replacement of goods.

NOTICE TO PURCHASER:
The following is made in lieu of all warranties, expressed or implied. User shall determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith. Under no circumstances shall The Carlson Company be liable for any injury, damage or consequential loss related to any product we sell.

RETURNS:
No returns accepted without the expressed written authorization of either The Carlson Company or the manufacturer of the merchandise in question. Upon requesting and receiving such authorization, you may return any defective parts for repair or replacement (freight prepaid) to the shipping point or other location, as designated in the letter of authorization. Canceled orders or refused shipments may be subject to factory restocking fee and/or additional freight charges.

PRICES:
Subject to change without notice. All prices are net to the dealer, F.O.B. shipping point(s).

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