

SHOP EQUIPMENT BROCHURE



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BALANCING EQUIPMENT

IRD BALANCING >

The “B” Series - Horizontal Axis, General Purpose Soft Bearing, Balancing Machines. Available in 500 lb through 25,000 lb capacity

The B Series is a dynamic, horizontal axis, precision, soft bearing balancing stand that can be used with any IRD Balancing instrument. It is perfect for balancing small rotors such as motor armatures, fans, turbines, etc. The IRD “B” Series is constructed from heavy gauge steel weldments and can be mounted to existing shop floors without the need for a special foundation.



Balancing Instruments

IRD offers a complete line of balancing computers that fully compliment their line of soft & hard bearing balancing stands. Certain models, along with optional accessory packages, offer the flexibility of field balancing as well as accuracy and the ease of operation.

- Rugged design
- Windows CE operating system
- Color screen suitable for Indoor & outdoor
- On screen assistance
- Modular design
- Ability to print from Instrument or from field
- Printer output is PCL compliant
- Easy data transfer & seamless storage using MS Excel IRD Model 258



IRD Model 258

Portable Dynamic Balancer/Vibration Analyzer The model 258 is a portable, battery powered, 2 channel, palm sized dynamic balancer and vibration analyzer. This light weight unit is intended to be used for analysis and balancing of rotation equipment that anyone can use with only very basic training.

IRD COVERPLAN



VIBRATION ANALYSIS



Model 258B Vibration Analyzer and Balancer Kit

The model 258B is part of the IRD Balancing line of analysis and balancing products and is a flexible instrument platform designed to be a single tool for a range of maintenance, inspection, service, and diagnostic applications.

The model 258B is a simple, easy to use instrument with an intuitive user interface that makes it ideal for expert and non-expert users alike.

Key Features:

- 1 and 2 plane dynamic balancing
- 1 and 2 channel vibration analysis
- Intuitive graphical user interface
- Rugged design and construction
- Large color display designed for indoor and outdoor use
- Simple to use for non-vibration experts
- On screen user assistance
- Right or left hand operation
- Modular design enables expandability

Model 258V Vibration Analyzer

The model 258V is a simple, easy to use vibration analysis instrument with an intuitive user-friendly interface that displays spectrum and phase information in an easy to understand format. The Model 258V makes it quick and simple for a user to assess the motion between two positions by providing the phase angle between the vibration signals.

Key Features:

- Single FFT spectrum display with phase vector provides a simplified interpretation of vibration data
- 2 Hz to 40 kHz, 100 – 12,800 lines of resolution
- 1 and 2 channel vibration analysis
- Modular design facilitates updating and adding new features
- Intuitive graphical user interface
- Easy data transfer for analysis and reporting using EXCEL or POLYMATE software
- Relative phase reading shown as a simple vector diagram
- Overall vibration reading
- Rugged design and construction



Model 206 Vibration Meter

The 206 Vibration Meter is a hand-held battery powered device available in either metric or imperial versions. The meter is capable of measuring the severity of vibration and displaying the results in units of Velocity (mm/s or in/s) or Acceleration (g/ peak). The unit is supplied in a protective carrying pouch with a sensing unit connected with a 1.2m lead. The meter is powered by an internal 9v battery.

Key Features:

- Frequency range: 10 Hz to 1 kHz
- Range: 0-50 mm/s pk or 0-2 in/s pk 0-20g pk
- Light weight
- Long battery life

CORE LOSS TESTERS

LEXSECO CORE LOSS TESTERS >

The Original Core Loss Tester & Still the Best!! Lexseco introduced this system in the early 1980's and continuous R&D insures it remains the best core loss test system in the industry!



Flux Metering System

The metering system is at least twice as accurate as competitive equipment. Virtually no down time! Convenient exchange program allows you to have your Core Loss Tester calibrated in conformity to NIST standards economically and efficiently. A tremendous plus when conforming to ISO9000, EASA-Q and other quality programs.



Multi-Parameter Software

This software is exceptionally versatile and user friendly. It allows differentiation between NEMA, pre-NEMA, U, T and IEC frame motors. Users can also define custom parameters to suit any requirement. Comprehensive test report can be printed on pre-printed or software generated letterhead.



Lexseco International Users Group

A worldwide network of Lexseco users provide a vast resource of data that provides information for continual software upgrades for Lexseco Users. As motor technology changes, Lexseco users are always able to stay ahead of the game.

Upgrade Package

Even Lexseco original core loss testers can be economically upgraded to the latest metering and software package. Ask for details.

IRD Cover Plan now available for balancing machines & core loss testers! Ask your Essex Brownell Sales Representative for details or call your Essex Brownell sales office.

ECONOLINE®

Dry Blast Equipment & Supplies

Econoline dry blast cabinets are constructed of 14 and 11 gauge steel with all seams butt-welded to prevent leaks. Available in bench, cabinet, and flip top models. Include heavy weight cloth lined neoprene gloves, complete with dust collector system, easy to change window with inexpensive window protection. Expanded steel reinforced work surface, full width opening on all flip tops and counter balance units; hopper trap door for easy media changes and cleaning.



TRINCO® DRY-BLAST



The applications of Trinco Dry Blast Cabinets are virtually limitless – cleaning, deburring, decorating, deflashing, etching, finishing, honing, peening, etc. All of these uses & more can be accomplished easily with quick sweeps of the gun nozzle. Scale, corrosion, old paint, & other surface materials are removed in minutes.

The usual operating pressure for the Dry Blast Cabinet is 85 PSI. A 5 HP Air Compressor is sufficient for most work. The equipment utilizes a variety of abrasives such as the Trin-Mixes, glass beads, aluminum oxide, silicon carbide, nut shells, etc.

These units feature 14 Gauge welded steel construction, carbon screen work floor, heavyweight rubber gloves, tungsten carbide nozzle, safety enclosed floor valve blasting control, easy exchange window frame, BP Dust collector, incandescent lighting, and 115V – 1 Phase, 60 Cycle.

Deluxe Blast Cleaning Systems available on model 36 & larger – include all of the “Master Model” features, plus an abrasive separator, enclosed dust collector (16 tubular filter bags), air vibrator, water filter, and blow off gun.

DRY ICE BLASTING EQUIPMENT



PELLET OR PARTICLE ACTION >

The LT 280 is the advanced Littmann 2-Hose Venturi Blast Cleaning System which offers the perfect solution for your industrial cleaning and maintenance needs. This unit provides classic Pellet Blasting for maximum aggression, and a fully integrated Pellet Grinder for Particle (Crystal) Blasting which effectively and safely cleans even the most sensitive surfaces.



Mobility

- Compact, lightweight, and simple to transport
- Easy to move around in the workplace
- Large needle bearing equipped steel wheels with rubber tires for safe and comfortable mobile use

Safety

- Pneumatically operated, no electricity
- Simple to use controls
- Safety guards on all moving parts
- Easy to use blasting gun with safety trigger
- Grounding cable at machine and hose package
- Sturdy kickstand for extra stability

User-Friendly

- Connect air, load ice and go!
- Ergonomically designed blast gun
- Highly visible gauges for input pressure, blasting pressure and ice supply
- Variable nozzle combinations for optimal adjustment on the available compressed air volume

Solid Construction

- Electro-polished high grade steel housing and framework
- Acrylic glass cover for ice hold
- Stainless steel gun assembly
- Strong aluminum blast barrels
- High performance, maintenance-free pneumatic motor with worm gear



WINDING MACHINES & WINDING HEADS

WINDING MACHINES >

ACE Equipment Company is your source for Coil Winding Equipment & Accessories. From Wire Racks to Tension Control Devices and De-Reelers, ACE has it all.



ACE WINDING HEADS >

Wind 40% faster than conventional methods
Savings in Time, Labor & Material



- **Fast head setting**

The size phase head is selected and placed on the holder, and only one adjustment is necessary.

- **Save time on winding coils**

This method of winding and tying all coils in a phase without interruption saves time and confusion.

- **No lost time handling coils**

The coils are moved one time only, as the complete phase is wound and placed on the coil rack in one operation. Coils are then at the winder's fingertips at all times.

- **Save time on installing coils**

Coils are produced with a round nose for easy coil installation, and saving considerable time. Round nose coils reduce coil extension, saving as much as 10% copper.

- **Eliminate connections**

This method eliminates all jumper connections between groups of coils, saving time and reducing the chance of loose or unsoldered connections.

- **Save on material**

Less wire, tubing, tape and solder required to complete job.

- **Produce neater job**

Eliminating bulky insulated connections between groups reduces buildup around coils, producing a neater winding.

- **Use semi-skilled labor**

The CONTINUITY PHASE METHOD simplifies the complicated. No prior knowledge is required to wind electric motors when using this method.

CUT-OFF SAWS

TURNER INDUSTRIES >

HCS 660 Vertical Cut-Off Saw

Stripping motors becomes a matter of minutes rather than hours when using a Cut-Off Machine. The new CNC Control is programmable for different size motors. Feeds, Speeds and Cutting Conditions can now be optimized for efficient coil cutting. The powerful servo motors accurately move the cutting wheel to give a uniform circular path. The Control is ultra easy to use and comes with a flip down keyboard and trackball mouse. The 3-Axis Software simplifies set-up and programming.

The L-750 Lancer motor stripping machine drastically reduces stripping time compared to old hammer & chisel methods. With the L-750 stripping stators becomes a matter of minutes rather than hours.

Repair Shop Developed – Developed under actual repair shop conditions.

Motors Stripped in Minutes – By cutting off one end of the winding & then placing the stator in a burnout oven or chemical tank to remove the varnish so the coils can be pulled easily.

Lancer  II
motor stripping machine



BAKE OVENS

Why Our Industrial Ovens Are Better

State of the art technology - Steelman has been constantly improving their product for over 30 years.

Quality components - Only industrial quality components proven to last go into a Steelman oven.

Flexible - Steelman ovens can be custom manufactured to fit any application.

Affordable - Steelman ovens can process your parts with less manpower, errors and less consumable product than most other processes or burn-off ovens.

Safe - Steelman ovens are engineered with many built-in safety features. We care about your employees and your property.

Customer service - Customer service always comes first at Steelman. From initial contact through your first burn, our engineers and technicians are available to assist you.

Environmentally safe - No chemicals to dispose of and the high fire after burner consumes the smoke, toxic fumes and volatile residue.



ACE Curing Ovens are known to be one of the most efficient production ovens in the world.

Ideal for preheating or drying parts and curing various coatings.

Preheating prepares metal or other substrates for coating processes.

Drying eliminates water or moisture accumulated during pre-treatment or washing. Curing elevates the part temperatures to achieve the desired coating performance.

BAKE OVENS



Features:

- Uniform temperature throughout oven
- Meets or exceeds NFPA-86, NFPA-70, OSHA & UL requirements
- Adjustable louvered openings in supply and return ducts
- Heavy duty blowers
- Combination vertical/horizontal air flow or full horizontal
- Pre-wired NEMA 1 control cabinet with UL approved controls
- Digital indicating temperature controller
- Heavy gauge temperature resistant aluminized steel interior
- 2½" insulated floor, floor level cart guide tracks



Options:

- Thermocouple jack panels
- Wall ports for vacuum lines
- Vacuum pumps and headers
- Ramp-soak programmers
- Chart recorder
- Digital cycle timers
- Cycle alarms
- Vertical lift door
- NEMA 12 control panel
- Motorized dampers for quick cool downs (fresh air and exhaust)
- Mini sentinel control and monitoring system
- Carts—flat bed, shelf, hanging
- AMS 2750 D (NADCAP) oven certification
- Many other options are available by request—contact us!

Application:

Curing (Batch & Continuous) ovens are used for curing a wide variety of epoxy compounds & composite materials most typically in the aerospace and automotive industries.

Description:

Curing ovens can be either gas fired (direct or indirect fired) or electrically heated and most often feature heavy duty construction and availability in various capacity sizes. Excellent air flow and temperature uniformity is attained and assured through proper design engineering. Many duct variations are available for optimal heating of parts. Like all of our products, our entire line of composite curing ovens are highly customizable and can be ordered with a wide variety of vacuum systems and components. Customers are able to choose from different pumps, control receivers, vacuum sources, and vacuum probes. All Precision Quincy ovens are made in the U.S.A.

BURN OFF OVENS

Designed to economically remove varnish, epoxy, insulation and other combustable materials from electric motor stators, end bells, transformers, and other metal parts. Large range of sizes available. Common sizes range from 36" x42" x32" to 108" x124" x117"

- Superior construction
- Standard equipment: cart, tracks, stainless steel exhaust stack with adjustable flashing, storm collar, rain cap, weather proof sealant tape, and instruction manual
- Patented water spray system
- Simplicity of operation
- Technical knowledge & support easy to operate control system allows you to simply set the timer and let the oven do the work! No complicated programs to select.

POLLUTION CONTROL PRODUCTS CO.



Still using that oven you bought over 20 years ago? If you are still using that old oven, then chances are you are burning a lot more fuel than you should! Why not upgrade to a new "high quality", fuel efficient oven from Steelman Industries?

- Unique top down heating design
- Auto process controlled
- Industrial quality cast iron burners
- High fire after burners
- Exhaust installation kit included
- Optional powered cart mover available

The ACE Burn OFF Oven System is the oven of choice by companies worldwide and designed to efficiently remove:

- Varnish
- Epoxy
- Paint
- Grease
- Oil
- Rubber or other combustable materials from metals

ace

Heat clean motor stators, paint hooks, automotive engine parts, rubber-to-metal bonded parts and virtually any metal part.

The ACE system will also debond brake shoes and clutch plates. Parts are loaded on a wheel-in cart and heated to 650° - 800° F (340° - 427° C), in an oxygen deficient atmosphere where the combustable hydrocarbons decompose. Parts leave the oven completely dry and ash residue is easily removed.

TEST CENTERS

CB & DB Series Motor Test Centers

These Jenkins Electric Company's "High Performance" CB & DB Series Test Supplies provide infinitely variable voltage adjustments on both the DC Field and the AC Armature Supply. They were specifically designed for Motor & Transformer testing.

AC starting on the incremental outputs is provided by a "soft starter" and +/- 10% input taps are included on the testing transformer to compensate for supply input variations. LED instrumentation allows for monitoring of the outputs in use.

Model 166KVA-SS480 166 KVA AC DC Motor Test Supply with the full test documentation system. This is a compact power supply for testing requirements of small to medium size motor shops. AC voltages are provided with soft starting on each incremental output. Integrated inrush current protection is provided by the soft starter. A variable DC Field supply is provided with Field Loss protection and overcurrent protection. Field operation is allowed with either the AC Supply or DC Armature outputs. A DC Armature supply with four variable ranges and overcurrent protection is included. DC Field and DC Armature operations are safety interlocked. All panel outputs are push button activated with red LED metering for continuous display of output voltages and currents. Our Test Documentation System is included for generation of test reports. A red strobe lamp illuminates on any panel output. Plus and minus 10% taps are provided on the testing autotransformer for adjustment of input voltage to the supply.



Capacity and Dimensions:

1. Utility requirements: Electrical – 480 VAC, 3-Phase at 200 AAC minimum is required. (A separate input disconnect switch/breaker is required on input to this equipment.)
2. A 120 VAC control circuit with push-to-reset current overload protection is included.
3. Tentative enclosure dimensions are 62" H x 36" W x 360" D, excluding casters, handles, lead hooks and warning strobe lamp.

WIRE STRIPPING



Whether you are working with extruded or magnet/enamel wire or cable, Eraser offers a wide range of Wire & Cable Strippers to meet your every need!



BANDING EQUIPMENT

B W CALVERLEY >

KTD-200 Mountable

Banding tension device

Durable all-steel construction

Mounts easily on existing lathe

Leather brake & hydraulic cylinder provide smooth even tension control on tape up to 1-1/2" wide

Standard 0-600# tension gauge

Other gauges available on request



KTD-200/PG* Pneumatic Banding Tension Device

*KTD-200 with KTD-200/PK pneumatic conversion kit installed

Easy one hand operation

Air cylinder applies pressure to brake drum for constant banding tension on every wrap every time

Up to 1000# of tension with 120 p.s.i.

Air filter/regulator w/gauge

INSULATION CUTTERS

Lenni

The Lenni Cutter with cuffed coils gives you five operations in one - stripping, two cuffs, creasing and cutting. In less than 1 minute, you can produce 48 perfect cuffed slotted liners from 1/2" to 12-1/2" between cuffs.

The rugged steel construction of the Lenni cutter is designed to give a lifetime of service. Working parts are precision machined to assure accuracy. The cutting knives are machined from high quality tool steel. Adjustments are located for easy use. An eccentric bearing in the pressure links controls creasing depth. Once adjustments are set, as many insulators as desired can be fabricated without variations of any kind.



Tennsmith

Tennsmith squaring shears offer precision shearing and rugged construction at an affordable price. The shear frame, bed and cutter head assemblies are constructed of heavy-duty cast iron. The shear bed is machined and then surface ground to precision tolerances to ensure an accurate working surface. These shears feature triaction, ground-alloy tool steel blades. Both the upper and lower blades have a 2° edge relief and the lower blade has an additional 1° face relief for maximum material penetration with minimum effort. Triaction blades help prevent material movement while shearing, prolonging blade life. TENNSMITH shears have the most complete adjustment features of any sheet metal shear on the market. The lower shear blade is bed-adjusting and the upper blade is adjustable by means of a truss bar on the cutter head. The spring-activated holddown feet clamp the work piece securely in place and are easily adjustable to compensate holding pressure for light or heavy gauge material. There is ample clearance between the holddown feet and shear blades to allow good operator vision for line-of-sight cutting. The standard, double-locking back gauge, which features embossed scales and vernier wheels for fine adjustment, gives highly accurate readings.



WEDGE AND INSULATION CUTTERS

52" Wedge and Insulation Shear

Martindale Wedge and Insulation Shear will enable you to quickly and accurately cut insulation paper, fibre, new resin-impregnated laminates and other light materials equivalent to No. 16 gauge soft steel. Cuts "Glastic"® up to 3/16" thick.

Quality High Speed Steel Blades have relief on both edges to eliminate blade friction and prevent sheet movement.

Shear is equipped with back gauge for up to 25" settings and front gauge for up to 30" settings. As the Shear is lowered a hold-down attachment first makes contact with the material to prevent bucking or slipping. The hold-down attachment also serves as a finger guard. The operator's hands are free for handling the material, as the machine is operated by foot pedal.

MARTINDALE
ELECTRIC CO.



Model D Wedge Beveler

Model D Wedge Beveler accurately cuts and bevels wedges of any size and of special shapes, quickly saving its cost by preventing delays.

For beveling, a fixture is provided that acts as both hold-down and guide. It clamps the wedge (up to 10" long) tightly in position throughout its length. The entire fixture then slides past the cutter. A dust collector hood is provided.

Beveling Cutters are used singly or in pairs. Each cutter is ground to 30°, 45°, or 60° to provide included angles of 60°, 90°, or 120°.

UNDERCUTTERS

MARTINDALE LATHE-TYPE UNDERCUTTER >

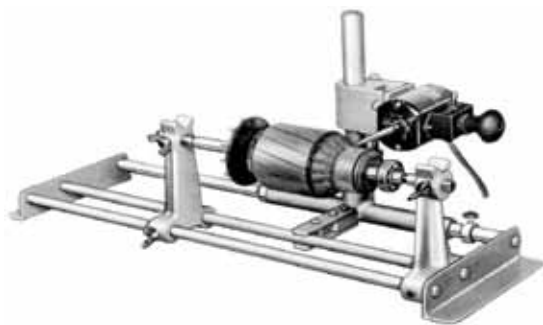
The Lathe-Type Undercutter can be quickly attached in place of the tool post on any lathe. It can be mounted directly on the cross slide, or on the slide carriage which is then mounted on the cross slide.

The Slide Carriage is lever operated and is much faster than using the lathe carriage. Travel is 11" on the Model 110, 15-1/2" on the Model 110L15 and 21" on the Model 110L21, with adjustable stops at both ends. A skewed bar adjustment is provided at the right end.

Both horizontal and vertical commutators can be undercut. As undercutting is done from the side of the commutator the saw or V-cutter is set level with the lathe centers.

Undercutter is powered by a 1/3 h.p. motor and uses high-speed steel or tungsten-carbide Saws or V-cutters.

A spring between hardened washers under the pulley allows the spindle to move ("float") up or down and follow an existing slot that is being re-cut. If a fixed spindle is desired, the spring can be removed and the pulley turned over.



have 1/8" hole. The smallest, No. 10-HS or 10-TC, (1/4" O.D.) cuts .025" deep.

The sturdy 1/12 h.p. motor is "universal" (A.C.-D.C.) with full-load speed of 5,000 r.p.m. The motor mount is spring-loaded to lift the saw from the slot at the end of the cut; a fine screw adjustment allows accurate setting for depth of cut. Centers are adjustable and can be removed if desired. Saw travel is controlled in both directions by adjustable stops.



The Utility Undercutter, as its name implies, is a low-cost machine designed for the repair shop that handles a wide variety of armatures from the smallest up to 9" diameter. Bearings, fans, etc., need not be removed from the armature.

Its frame and spindle are built sufficiently rigid to permit use of Tungsten-Carbide as well as High-Speed Steel saws. Saws used all

UNDERCUTTERS

UNDERCUTTERS FROM B.W. CALVERLEY & CO. >



JCU-201, Slotter/ Undercutter

- Easily adjustable up to 26" diameter x 38" long
- 860/1725/3450 RPM



JCU-508, Slotter/ Undercutter

- Easily adjustable up to 8" diameter x 20" long
- 860/1725/3450 RPM



JCU-10TXL, Slotter/ Undercutter

- Easily adjustable up to 7" diameter x 13" long
- 860/1725/3450 RPM

UNDERCUTTERS FROM CAM INNOVATION >

CAM Innovation CU Automatic Lathe Undercutter

Saves time while boosting your shop's productivity and flexibility

Compare the 10-15 minutes needed to set up the CU Automatic Undercutter to the total labor you presently spend manually undercutting an armature. With our CU there is no operational labor only set-up labor. Not only is it faster, your operator can multi-task as the machine automatically performs the job. Anyone can undercut regardless of their skill level because the machine does all the work, producing the same high quality results on every armature every time!

Save even more time with the optional brush deburring attachment

Add in the time you spend cleaning and chamfering each copper bar manually and compare it to the five minutes it takes to use our patented Brush Deburring System.



CUX Automatic Mica Undercutter (pictured above) accommodates commutators up to 110" (2.8 m) in diameter with any riser height. Its special spindle design makes this possible.

High Rise Spindle is an option for shops that undercut commutators with riser heights up to 10" (254 mm).

UNDERCUTTERS

CAM Innovation JH-Universal Commutator Repair Machine

- Increases productivity
- Reduces armature handling
- Reduces overhead crane lifts
- Frees-up shop lathe for other work
- Quick process change and fast set-up
- Accurate direct drive indexing (no belts)
- Precision laser mica slot detection
- Touch screen programmable PLC
- Program storage for up to 20 armature types
- Sturdy, solid, robust construction
- Easy to learn, simple to operate



Multi-Function Machine... Saves Time – Improves Quality & Reduces Armature Handling!

Now there is a stand alone, multi-function, Universal Commutator Processing machine for turning and facing commutators, automatically undercutting mica slots and deburring and polishing armatures in three easy steps.

CAM's new commutator Turn & Undercut machine greatly reduces armature handling and speeds process time by eliminating the need to move armatures back and forth between single function machines. Designed specifically for shops that handle small to medium sized armatures, the JH is ideal for servicing small DC motors and those used in transit and light rail systems.

PARTS WASHERS

Cabinet Style Solvent-Free Automatic Industrial Parts Cleaning Systems

JRI Industries takes pride in providing the highest quality solvent-free automatic parts cleaning equipment in the industry. Their "Gear Drive Turntable System," with breaker protection, provides continuous basket rotation for thorough cleaning of parts; whereas most competitors are still relying on "friction" drive, which has an inherent problem with "slippage." Even better yet, JRI Industries provides a "pull out" turntable system for ease of loading. These cabinet style Parts Washers are available in a variety of cabinet constructions (mild steel, stainless cabinet only, or all wetted surfaces stainless), sizes and configurations to meet your individual needs.

Standard Features:

- Brushed stainless steel pressure nozzles
- Gear drive turntable
- Mechanical door seal; no rubber seals to replace
- Roll out turntable up to 42"
- Vertical sealess pump; no seals to leak or replace
- Debris screen
- Sloped floor for easy clean-out

Optional Features:

- Gas bottom heat
- Swing away spray bar
- Auto water fill
- Auto water fill / low water shut off combo
- Programmable 1 or 2 channel timers
- 1 channel digital thermostat
- Filtration systems
- Rinse cycles
- Dryer options
- Basket / parts tree



PARTS WASHERS

BRINGING YOU QUALITY PARTS WASHING SOLUTIONS FROM INTERCONT WASHERS >



SJW-3 Front Load

Model	Load Height	Turntable Diameter	Work Load	Water Capacity	Material of Construction	Heating Source	Power Requirement	Shipping Weight
SJW-3	40"	36" Roll out	1500 Lbs	192 Gallons	Mild steel	(3) 6 KW	220/440 1 Ph/3 Ph	1300 Lbs
SJW-3G	40"	36" Roll out	1500 Lbs	192 Gallons	Mild steel	LP/ Natural	220/440 1 Ph/3 Ph	1300 Lbs
SJW-3SS	40"	36" Roll out	1500 Lbs	192 Gallons	304 Stainless	(3) 6 KW	220/440 1 Ph/3 Ph	1300 Lbs
SJW-3GSS	40"	36" Roll out	1500 Lbs	192 Gallons	304 Stainless	LP/ Natural	220/440 1 Ph/3 Ph	1300 Lbs

3645 Parts Washer

Standard Steel Fabrication:	
Overall Dimensions	54" L X 42" W X 77" H
Inside Working Height	45"
Turntable Diameter	36"
Work Load	1500 Lbs.
Pump Motor (Sealless)	5 Horse
Pump Output	65 PSI @ 45 Gal. Per Min.
Cabinet Construction	12 Gauge
Power Source	230/460 V 3 Phase
Water Capacity	166 Gallons
Turntable Drive	Gear Driven
Door Seal	Mechanical
Warranty	One Year (Parts)
Heat Source	18 KW
Shipping Weight	1100 Lbs.
Nozzles	19
Intermediate Spray Bar	1



PARTS WASHER SOAP

Vanguard Motor Cleaner

Vanguard Motor Cleaner is a liquid spray/soak cleaner designed to clean electrical motor parts (traction motors, generators, armatures and electric motors). Vanguard Motor Cleaner is available in various put ups: 1, 5, 15, 30 and 55 gallon containers.

FEATURES:

- Low foaming
- Low pH product
- Will not attack soft metals, varnishes or C3 and C5 insulative coatings
- Can be used in steam cleaning, low pressure washing and tank cleaning
- Non Hazardous material
- High dielectric strength
- No Residue
- Meets G.E. and EMD approvals

Part Numbers

VMC-5 Vanguard Motor Cleaner 5 Gallon Pail

VMC-30 Vanguard Motor Cleaner 30 Gallon Drum

VMC-55 Vanguard Motor Cleaner 55 Gallon Drum



Image: Traction motor after being cleaned by Solutions Plus

Pure Clean #10 Industrial Cleaner/Degreaser

Is designed to remove dirt and oil from aluminum and steel. Pure Clean #10 has a strong affinity for oil and contaminants, and loosens them from the parts. Most oils float to the surface, where they can be removed easily by shimming wheels/belts, absorption blankets, or vacuuming. Turning off agitation allows solid particulates and fine metal particles to settle on the bottom, where they can be filtered off as sludge via recycling filtration systems.

Part Numbers

SP-PC10-5 5 Gallon Pail

SP-PC10-55 55 Gallon Drum

RESISTANCE, HIPOT & SURGE IN ONE TESTER! >

With Baker Instruments Digital Winding Testers, you can perform Resistance, Bar-to-bar, PI, HiPot & Surge Tests, as well as digitize & store data for future use. All Baker Digital testers offer high precision testing capabilities allowing data collection in the shop or in the field.



Advance Winding Analyzer – Series IV

A powerful tester combining electric insulation testing capabilities & computer control into a 12kV portable unit. All testing parameters can be preprogrammed to minimize operator error. Pass/fail limits eliminate guess work.



Explorer Series

The Explorer series tester combines electric insulation testing capabilities and computer control into a 12kV field portable instrument. All testing parameters can be pre-programmed to minimize errors.

TEST INSTRUMENTS

Digital/Analog Megohmmeter

Innovative, they incorporate the latest measurement technology and are specifically designed to the most recent international insulation & continuity testing standards. Their rugged construction is unique in megohmmeters. Digital & analog features are enhanced by a third digital display, which indicates an alarm set point or elapsed test time.

- Test result combo of 250V, 500V & 1000V • true Megohmmeter®
- Insulation measurement to 2000MW • auto discharge for operator safety
- Backlit digital display with analog bargraph • resistance measurement to 400kW
- Continuity with 200mA test current • includes carrying case & leads



Hand-Cranked Megohmmeters

Easy hand-cranked, compact, self-contained, True Megohmmeter® are both practical & dependable instruments for field use. These units provide a steady, rectified DC voltage output across the entire range for consistently reliable readings.

5000V Digital/Analog Megohmmeter

These 5000V Megohmmeters are the most innovative product in their class on the market today. The most advanced technology available has been applied to automate & facilitate the testing process of these applications. True Megohmmeter® Test Voltage Combo 500V, 1000V & 5000V.

- Insulation from 30kW to 10,000GW
- Selectable & programmable test voltages
- Auto calculation of DAR P & DD ratios
- Display of capacitance & leakage current
- Display resistance, test voltage & run time



TEST INSTRUMENTS



10 A Micro-Ohmmeter

The 10A Micro-Ohmmeter is a rugged, low resistance tester designed for plant maintenance, quality control manufacturing, and field use. It utilizes a four-lead Kelvin method of testing, which is one of the more accurate methods; with results within 0.05% accuracy.

- Measures from 0.0001 mW to 2500.0W
- Test current selection of 1mA, 10mA, 100mA, 1A & 10A
- Selectable metal types
- Auto & manual temp correction
- 2 programmable alarm set points
- Stores up to 1500 test results
- Selectable inductive or resistive modes
- Rugged double insulated case & direct printout

Clamp-on Meters

- Standard size, full function clamp-on meters
- 1000AAC or 1000AAC/DC current measurements
- 750VAC or 1000VDC volt measurements
- TRMS measurements (Models 512 abd 514)
- Resistance measurements to 4000Ω
- Continuity with beeper below 40Ω
- Frequency measurements from V and A
- Diode test
- 1ms Peak function for fast capture of signals
- Hold function to “freeze” readings
- Push-button for easy ADC zeroing
- Large, easy-to-read 4000-count display
- 42-segment analog bargraph
- Includes test leads and soft carrying pouch



Digital Ground Resistance Tester Kit

- Fall-of-potential method
- Ground resistance & soil resistivity
- Step voltage test & touch potential
- Auto-tanging
- Rejects high level of noise

TEST INSTRUMENTS

DM 397 Multimeter

The DM397 is an advanced full-featured digital multimeter designed for engineers, HVAC and electrical technicians, whose work demands greater accuracy and resolution. The RS232 printer port and software (included) allows any measured parameter to be monitored or recorded to a PC for further analysis or printing. The 50,000 count dual display shows two parameters simultaneously eliminating the need to toggle between selections. The DM397 stands alone as the best value in high-end multimeters.



The Scout Infrared Thermometer Series™

Designed to offer technicians a clear choice among a blurred array of options in today's market. With three instruments to choose from, The Scout series has a solution best suited for any application, whether it's quick spot checks at close range or sampling extreme temperature ranges in environments too hazardous or too remote to approach. All three are a reliable way to check, locate, and monitor temperature variances and are perfect for HVAC/R, electrical, industrial, facility, residential, marine, or automotive diagnostics and maintenance.





Simpson Electric manufactures the highest quality panel instrumentation and test equipment on the market today. Modularity gives our customers access to full-featured performance at a competitive price. Our commitment to producing the best meters is matched only by our commitment to superior customer service and strategic design.



- Digital panel meters
- Analog panel meters
- Counters
- VOM multi meters

Call your Essex Brownell Sales Office for more information.



MOTOR/TRANSFORMER REWIND SHOPS NEED HVI PRODUCTS >



DC Hipot/Megohmmeter

The combination DC hipot and HV megohmmeter units offer dielectric testing and insulation resistance testing in one package. Rugged anti-static meters and other superior features included. Models from 37.5 kVdc to 600 kVdc



AC Hipots

AC withstand testing should be a part of your testing routine. The portable PFT Series of AC hipots makes that more possible, offering the smallest and lightest AC hipots available. The PFT-503CM is the only 50 kVac single-piece, shielded cable output unit produced at 3 kVA. Models from 10 kVac – 300 kVac.

Very Low Frequency (VLF) AC Hipot

The VLF Series of units are AC hipots that have an output frequency of 0.1 Hz and lower. The lower frequency allows a small and portable unit to test high capacitance loads with AC voltage. IEEE 433 defines VLF testing for rotating machinery. Use a small VLF instead of a much larger, heavier, and more expensive 50/60 Hz AC test set. Models from 28 kVac - 200 kVac.



AC Dielectric Test Sets

HVI offers the HPA Series, a full line of higher power AC test sets for testing higher capacitive loads with AC voltage. Models range from 3 kVac – 300 kVac and 5 kVA – 40 kVA. Multiple controller options are available.

BEARING HEATERS

RECO INDUCTION BEARING HEATERS >



- Extend bearing life and cut operating cost by eliminating hammering and pounding to cold-mount bearings
- Works on bearings, sprockets, gears, couplings, sleeves
- Reduces risk to operator from flames, torches or oil baths
- Demagnetizes bearings – easy to use, ready in minutes



The new Linmast induction bearing heaters are the most innovative heaters to hit the market! Their superior design is more accurate, safer to use, more efficient, and more cost effective than most competitive brands. With six models to choose from, you can order yours today and discover the difference yourself!

- Audible alarm notification
- Digital temp readout
- Auto demagnetization
- Extremely simple operation
- Safe method of heating
- Full range of models
- Includes gloves & additional cross bars
- Programmable temperature settings



A subsidiary of Reata Manufacturing

Cone Mounter

C O M P A N Y

Proper installation is essential to maximize bearing life. Heating a bearing prior to installation expands the inner race to allow the bearing to be easily mounted on the shaft. Cone Mounter Bearing Heaters can help promote bearing longevity which means less equipment downtime and lower maintenance costs.

- 250°F temperature indicator crayon
- Aluminum cone for fast, even heat transfer
- Made in the USA and readily available from stock
- 8 ft., 3-wire power cord
- Safety guard
- Available in 120V or 220/240V
- One year warranty



Flexible

Each unit is designed to heat a wide range of bearings.

Portable

Each unit weighs 17 lbs. or less so it can easily be moved close to the equipment being maintained.

Non-magnetizing

Each current is not applied to the bearing. Resistance elements heat the unit, which in turn heats the bearing, preventing magnetization.

Affordable

Cone Mounter units are priced economically for maintenance and repair operations.

Easy to use

Simply follow the short instruction guide. No complex manuals or training are necessary.

Reliable

The simple design of Cone Mounter units promotes a long life. Units are warranted for one year.



Hand-Operated Hydraulic Presses

The Dake hand-operated hydraulic presses offer economical performance.

- Rapid ram return
- By-pass hole prevents excessive ram extension
- Adjustable table
- Rapid screw traverse of ram with convenient hand wheel
- Moveable work head



Single Lever

These Single Leverage Arbor Presses feature a shimmed ram cap, adjustable handle, & smooth action gears. They come with base opening, slotted table plates & pedestals depending on the model.



Horizontal Hydraulic Press

80 PSI required

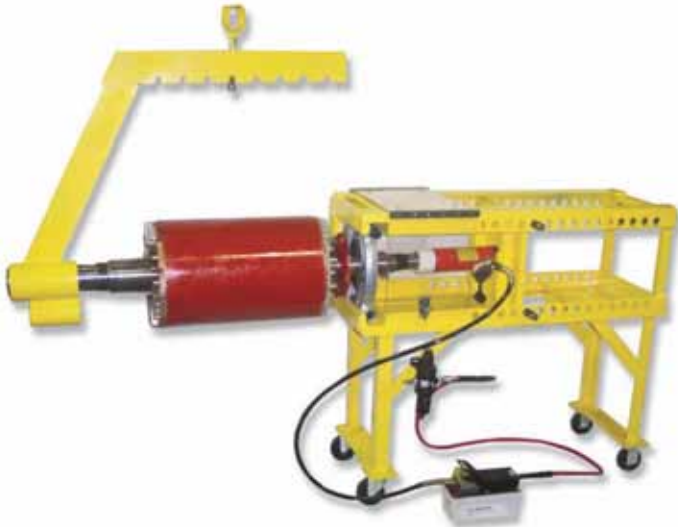
Pressure gauge optional

Maintenance free

Built on wheels

Presses are ruggedly built to withstand loads and stresses beyond their ratings, yet are virtually maintenance free. They are simple to operate, safety-engineered to protect the operator and meet OSHA standards.

The hydraulic cylinder is air pressure operated and controlled through a foot switch. The ram back plate is readily repositioned to fit each job. Note the plate and locking pin positions in the photo.



Industrial Pulley Puller

Portable Hydraulic Pullers 8 to 100 Tons of Force

- Fully portable
- Fully adjustable
- One person operation

Removing an object from a shaft using hand tools is difficult at best and often impossible. It generally turns out to be a task for more than one person. The IPP line of Hydraulic Pulley Pullers makes the entire process an easy job for just one person. They can be used to remove gears, pinions, pulleys, couplings, bearing housings & other objects. A manually operated hydraulic pump is standard on the 8, 20 and 60 ton models. An electrically operated hydraulic pump, which is standard on the 100 Ton, comes optional on the 20 & 60 Ton models.



MANUAL PULLERS



2 JAW MANUAL PULLERS >

Model & Options	Max Reach		Spread Range		Capacity tons	Center Bolt Dia in	Weight	
	in	mm	in	mm			lbs	kg
202	2.25	57.2	.25-3.25	6.4-82.6	1	0.313	.65	.29
203	3	76.2	.25-4.5	6.4-114	2	0.375	1.25	.57
204	4	102	.50-5	13-127	2	0.539	3.65	1.66
206	6	152	.50-7	13-178	6	0.660	6.75	3.06
208	8	203	.75-12	19-305	12	0.766	11.70	5.31
210	9.67	246	1-14	25-381	14	0.766	13.10	5.94
213	12	305	2.5-18	64-457	25	1.166	42.80	19.41
216	14	356	3-25	76-635	35	1.231	60.50	27.44



3 JAW MANUAL PULLERS >

Model & Options	Max Reach		Spread Range		Capacity tons	Center Bolt Dia in	Weight	
	in	mm	in	mm			lbs	kg
102	2.25	57.2	.25-3.25	6.4-82.6	1	0.313	.68	.31
103	3	76.2	.25-4.5	6.4-114	2	0.375	1.45	.66
104	4	102	.50-5	13-127	5	0.539	4	1.88
106	6	152	.50-7	13-178	10	0.660	8	3.58
108	8	203	.75-12	19-305	17	0.766	14	6.40
110	9.67	246	1-14	25-381	20	0.766	16	7.76
113	12	305	2.5-18	64-457	30	1.166	44	22.07
116	14	356	3-25	76-635	40	1.231	68	31.93



VPI SYSTEMS

Vacuum Pressure (VPI), & Vacuum Only (VOI)

HeatTek Inc offers a complete line of VPI systems ranging in size from 2' to 12' in diameter.

- Process chambers w/hydraulically operated door & locking ring
- Bolt down davit swing chamber doors on 2' to 6' diameter units
- Storage tanks come with insulated cooling jacket
- High quality vacuum pumping system
- Integral chiller/circulation pump system operates on resin demand
- Low speed agitators operate via timers & come complete with vapor or vacuum seal
- NEMA rated electrical controls

HeatTek offers a complete line of options, allowing you to organize the VPI system to meet both your budget, as well as your requirements.

HeatTek Inc.
Thermal Systems and Process Equipment



Vacuum Pressure Impregnation Systems and Vacuum-Only Impregnation Systems

Imprex builds Vacuum Pressure Impregnation (VPI) and Vacuum-Only Impregnation (VOI) Systems for epoxy or polyester. We customize all systems to meet your needs and budget.

Whatever your VPI requirements - from a 2-foot-diameter epoxy or polyester VPI to a 12-foot-diameter system - we offer those and everything in between, in 1-foot-diameter increments.

Systems include these basic components:

- Vacuum/pressure or vacuum only chamber assembly
- Vacuum pump assembly
- Reservoir
- Reservoir cooling assembly
- Agitator
- Resin transfer piping
- Operating console
- Complete documentation
- Installation/start-up assistance

**IMPREX, INC.**

Systems can also be outfitted with the following options, if applicable:

- Chamber false bottom
- Chamber load plate
- Chamber liner
- Chamber rotor shaft extension
- "Y" strainer / filter for transfer line
- Micron vacuum pump
- Process chart recorder
- Capacitance meter
- Full automation
- Computer display and process data storage

Imprex has been building VPI systems for over 40 years, and has an excellent reputation for quality and service.





H2Oweld Gas Generator – It Runs On Water

The H2Oweld Gas Generator works with distilled water. Through an electrolytic process, the water is broken down into its basic elements of oxygen & hydrogen and generates OXYHYDROGEN gas. The oxyhydrogen gas generated is then purified by a special patented process. The resulting gas is very pure, which allows a flame of 3,500°C (almost twice the heat allowed by conventional gases).

- Economical – Approx 85% less expensive
- Safe – No gas storage
- Environmentally safe
- Autonomy – No rental cost of cylinders or refilling of Bottles

H2O-4600EP - For Medium Applications

H2O-10000EP - For Large Applications

H2O-20000EP - For Extra Large Applications

Our machine saves you money and is ecological.

THE ONLY FUEL IS DISTILLED WATER!



DYNAMOMETERS

Electric Motor Dynamometers

Electric Motor Dynamometers base serves as a ballast weight for high-torque applications. Dyne unit necessitates prescribed amount of supply water (GPM) per 100 HP.

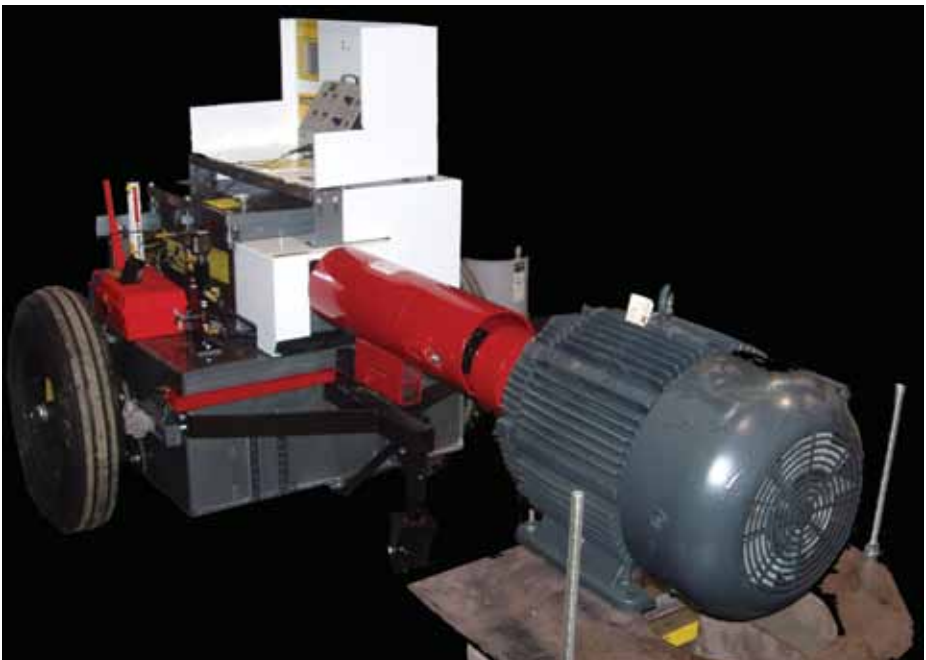
Safety fuse (releases at 185 degrees F) allows for power absorption unit protection through automatic disengagement of hydraulic pressure within hydraulic control system of the electric dynos.

All electric motor dynos units are equipped with shear pin release and safety shields.

Electric motor dynos are fully operable upon receipt. An AW representative completes your dynamometer purchase through on-site training of key personnel on the functionality and maintenance of the dynamometer unit.



A. W. Dynamometer, Inc.



LASER ALIGNMENT

Shaft Hog Precision LASER Shaft Alignment System

- Reduces machinery vibration
- Assists in longer seal life
- Insures longer bearing life
- Fast & easy alignments

This ergonomically designed control unit fits comfortably in one hand, while the “live” display gives you instant feedback while shimming or moving the machines. It eliminates the guesswork and the “back and forth” you are suffering through now. The Shaft Hog comes with carrying case and an easy to use “comprehensive” operation manual.

LASER ALIGNMENT ACCURACY AT A PRICE YOU CAN AFFORD!

accuSHIM INC.



PHASE CONVERTERS

Steelman Rotary Phase Converters

What sets Steelman rotary phase converters apart?

Standard features include:

- Steel base
- Outdoor rated enclosure
- Baldor ODP & TEFC motors
- High voltage rated capacitors
- No starting circuit

Optional features include:

- Automatic start/stop control with load delay
- Split (stagger) start control on larger units
- Step-up/step-down transformer package
- Buck-boost transformer package



Rotary Phase Converters

Maxiphase CONVERTERS are designed to operate one or a combination of 3 phase motors from single phase power.

- Quick start up with low inrush amperage
- Std duty Lo-Volt models for 230V applications
- Std duty Hi-Volt models for 460V applications





BLUE PETER Series®

Stator Winding RTDs and Thermocouples

accurately measure the winding temperatures in motors and generators. Of the highest quality, they meet ANSI C50.10-1990. Color coded for easy 'first glance' identification, each sensor body also is clearly marked with the item catalog number and description.



BLUE PETER Series®

Flexible Surface Temperature Sensors

are used in a multitude of electromechanical applications ranging simple cabling or conduit monitoring to critical windings "End Turn" surveillance. Because of their size and unique physical capabilities, flexible surface sensors come in with either an adhesive or a plain back.



BLUE PETER Series®

Probe Style Bearing Temperature Sensors

range from cuttable stainless steel shafted RTDs to bearing sensors which are supplied with a complete thermowell body and connection head. Supplied with a highly responsive copper tip.



BLUE PETER Series®

Bearing RTD & Thermocouple Assemblies

are available in Standard Sensor/Size/Connection Head style packages. Other combinations are available at competitive prices & delivery times.



BLUE PETER Series®

Model KMD-8R

eight channel digital scanning RTD meter/relay provides comprehensive thermal protection for electric motors & generators. Microprocessor based, it accepts up to 8 RTD inputs – either 3 wire or 2 wire.

It can accommodate all the RTD types commonly used in thermal protection applications.



Stanley Compo-Cast® Soft Face Hammers

- Uni-cast construction of non-ferrous materials eliminate sparking and won't absorb liquids
- No exposed metal on face, head or shaft
- Soft faces prevent marring
- Dead-blow function uses steel shot to eliminate bounce back
- Handle is reinforced with steel to provide strength and safety to prevent breaking on overstrike

Standard Part Numbers

TCH-0HD	1 ½" face diameter	TCH-3HD	2 ½" face diameter
TCH-1HD	1 ¾" face diameter	TCH-4HD	2 ¾" face diameter
TCH-2HD	2" face diameter		

* additional types and sizes available upon request



RemGrit® Carbide Grit Circular Saws

Cuts extremely hard abrasive materials. Cutting edge of tungsten carbide particles bonded to alloy steel back.

- High heat and abrasion resistance
- No teeth to dull or chip
- Resists snagging
- Smooth cutting
- Greater wear resistance



Standard Part Numbers

TCC-9720-30	3" Diameter	TCC-9720-70	7" Diameter
TCC-9720-40	4" Diameter	TCC-9720-80	8" Diameter
TCC-9720-65	6.5" Diameter		

* additional sizes available upon request

Ideal Cable Cutter

This cable cutter is designed to cut insulated copper or aluminum multi-strand cable or wire quickly and cleanly.



TWS-35-052

- Drop-forged high carbon steel construction
- Precision ground, hardened cutting edges provide accurate cuts without cable distortion
- Designed for maximum leverage
- Cuts 2/0 and smaller aluminum and copper cables
- Vinyl coated, comfort-grip handles
- Lifetime guarantee

HAND SHEARS

General purpose shop shears for cutting wire, insulation, banding, gaskets and hundreds of other uses.

- Hot forged
- Thru-hardened and fully double-plated chrome over nickel
- High leverage for cutting thick, tough materials

Part Number TSCR-4248



- 8" straight
- SureSet(tm) premium fastener provides a locking pivot and allows for one-handed tension adjustment
- Molybdenum steel for extra strength

Part Number TSCR-4268



- 8" straight
- Blades curve left to ease trimming of insulation
- Molybdenum steel for extra strength

Part Number TSCR-4268-KBL



SLINGS

Wear-Flex®
America's Leading Manufacturer of Protective Nylon Slings

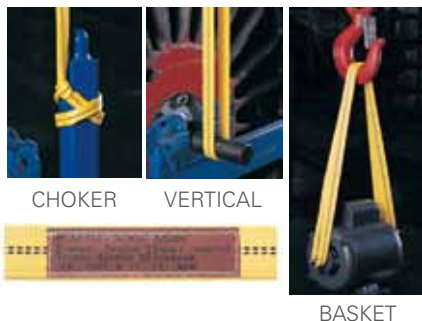


TYPE V

The Safe-Line Sling is the strongest, most popular, efficient and economical sling. It can be used in a choker, vertical or basket hitch. In a basket hitch, the legs can be spread for added stability. Load contact points change with every lift, increasing sling life and safety.

Order by part number and Length	Sling Width Inches	Rated Capacity - Lbs.		
		Choker @ 30°	Vertical @ 90°	Basket @ 90°
EN-1001-*	1"	1600	2000	4000
EN-1002-*	2"	3200	4000	8000
EN-1003-*	3"	4800	6000	12000
EN-1004-*	4"	6400	8000	16000
EN-1006-*	6"	9600	12000	24000
EN-2001-*	1"	3200	4000	8000
EN-2002-*	2"	6400	8000	16000

Note: Length must be specified when ordering (EN-1001-3) indicates 3 ft. length.



The Safe-Line Endless Single Leg Sling with hook is designed to utilize all the features of an endless sling. It allows the hook to rotate on the endless sling configuration to provide for an infinite number of wear points and longer sling life.

Order by part number and Length	Sling Width Inches	Rated Capacity - Lbs.		
		Sling Hook Number	Vertical @ 30°	Vertical @ 90°
SS-EN-1001-*	1"	1600	2000	4000
SS-EN-2001-*	2"	3200	4000	8000
SS-EN-2002-*	3"	4800	6000	12000

Note: Length must be specified when ordering (SS-EN-1001-1 indicates 1 ft. length).



Convenient Box Of 3 Safe-Tote Slings

3 Safe-Tote endless nylon slings packaged in a convenient flip-top box offers extra savings.

Part Number

- MARK-III** Safe-Tote Slings 1"W x 30"L. (Box of 3)
- MARK-IV** Safe-Tote Slings 1"W x 40"L. (Box of 3)
- MARK-V** Safe-Tote Slings 1"W x 50"L. (Box of 3)
- COMBO** Safe-Tote Slings includes 1 each of MARK-III, MARK-IV and MARK-V.



BRANCH LOCATIONS:

Birmingham, AL

Denver, CO

Houston, TX

Memphis, TN

Salt Lake City, UT

Torreon, Mexico

Charlotte, NC

Edison, NJ

Lubbock, TX

Ontario, CA

Simcoe, ON

Chicago, IL

El Paso, TX

McAllen, TX

Philadelphia, PA

Tampa, FL

Dallas, TX

Fort Wayne, IN

McDonough, GA

Portland, OR

Tempe, AZ

