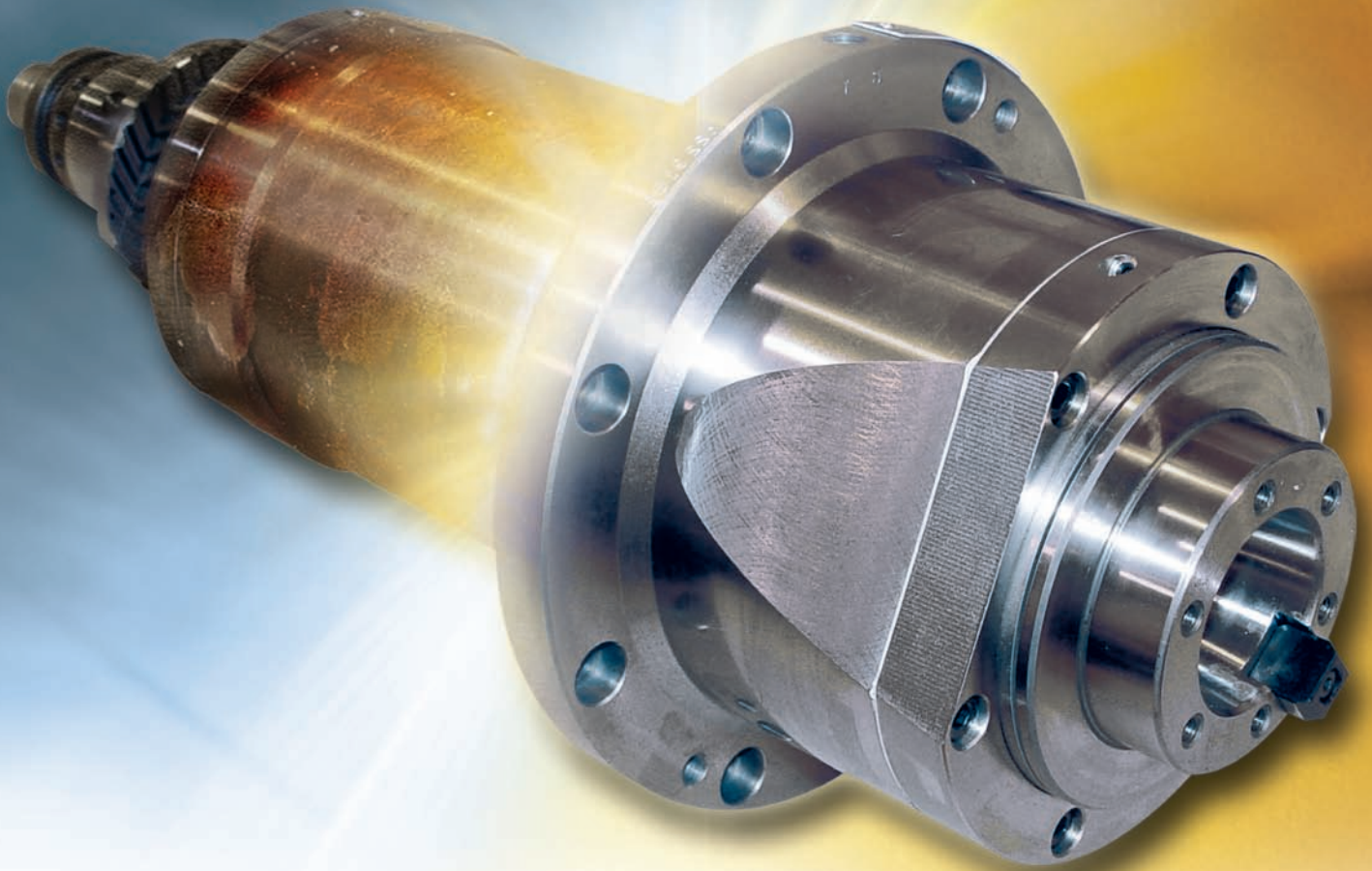


setco  
**RESET**

Repair &  
Rebuild Services



**setco**<sup>™</sup>  
Set for Life

## ReSet Your Spindle for Greater Performance

Advanced spindle technology is what differentiates Setco™ as the leader and sets us apart from the competition by making our spindles outrun, outperform and outlast the competition. Setco™ ReSet has the right blend of spindle technology for all your spindle needs.



### We Service Most Any Spindle Make, Model & Size

- Foreign, Domestic & OEM
- Belt-driven, CNC, Gear-driven & Motorized – Including High Speed, In-line & Direct-coupled Designs

### Repair & Troubleshooting Services

- Balancing & Vibration Problems
- Draw Bars Tested & Reconditioned
- Analyze & Test Spindle & Motor Problems
- Correct Taper, Pilots, Faces & Tool Connection Problems

### Rebuild Services Bring Your Spindle Back to “Like New” Performance

- Restore Improper Fits & Sizes to OEM Specs
- Replace or Recondition Worn Parts to OEM Specs
- Reverse Engineering & Manufacture Parts to OEM Specs
- All New Precision Bearings & Seals Are Installed
- Spindle is Precision Balanced & Run-in to Ensure “Like New” Performance

### Complete Retrofit Services for “Better-than-New” Performance

- AirShield™ Spindle Seal Upgrades to Maximize Reliability
- Improved Motor Technologies to Increase Power & Torque
- Advanced Bearing Technologies to Increase Speed Capabilities
- Setco™ Exclusive Grease Technologies to Promote Lower Operating Temperatures & Increase Spindle Bearing Life
- Improvements to the Tool Retention System for Better Performance & Accuracy
- Spindle Monitoring Systems for Improved Control

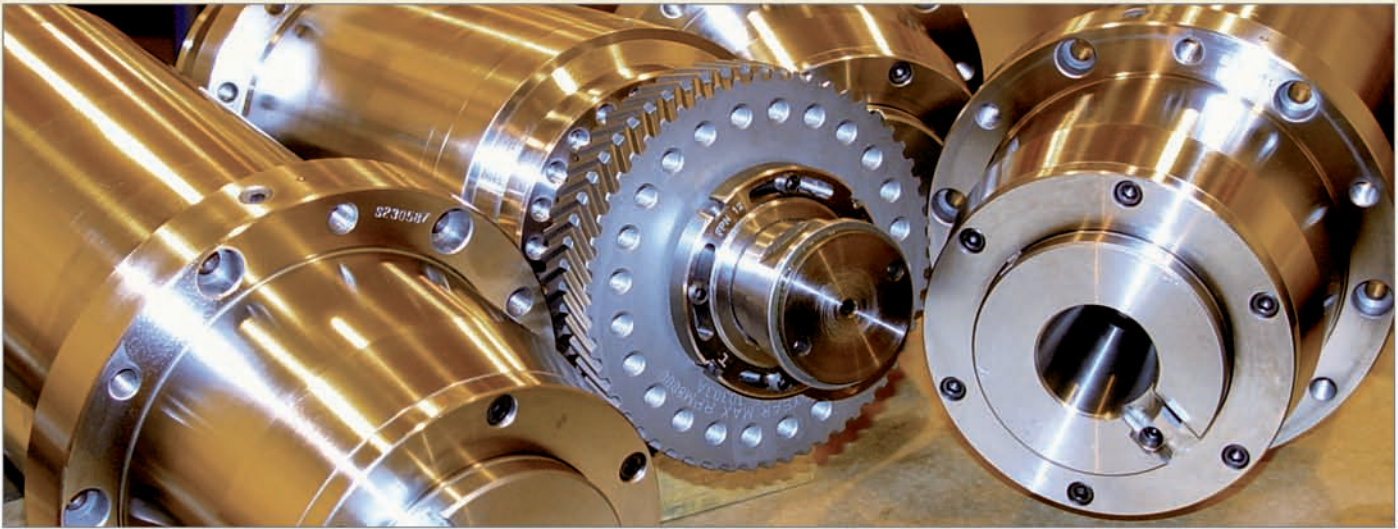
### Full In-house Engineering & Machining Capabilities for Predictive Results

setco

RESET

Repair &  
Rebuild Services

## Setco™ ReSet – Repair, Rebuild & Retrofit Services



Introducing Setco™ ReSet, the premier precision spindle repair service that delivers the best value, highest performance, and the most dependable customer service in the industry.

Setco™ offers the most extensive spindle service in North America, **servicing most any make, model and size; including foreign, domestic and OEM brands.**

With ReSet you get the benefit of working with the leading manufacturer recognized for the most reliable precision spindles in North America to take your manufacturing performance to a higher level. Our ReSet retrofit service packages are the best in the industry and can increase power, enable higher spindle speeds, improve reliability, and bring better accuracy to your machine.

For special machine applications, our in-house engineering and manufacturing capabilities allow us to re-engineer and make new parts, as well as retrofit newer spindle technologies into older designs for even greater performance.

Setco™ ReSet will maximize spindle performance to improve productivity, decrease downtime, and reduce maintenance costs while improving spindle reliability.

We back all our work in writing and offer the best warranty in the industry. With ReSet you have a spindle partner that will help you grow and get the most out of your business.

To ReSet your spindle service and maximize performance, call Setco™ toll-free 1-800-543-0470.

# The ReSet Rebuild Process

From start-to-finish, customer service is our highest priority. We back all our work with a written warranty, and our commitment to return your spindle with “like-new” performance.

- Expert Spindle Repair, Rebuild & Retrofit Services
- We Rebuild Most Makes, Models & Size Spindles; Belt-driven, CNC, Gear-driven & Motorized
- 24 Hour Emergency Services Available

Supported by four fully equipped Spindle Centers, you can rely on Setco™ for quick and professional spindle rebuild services.



## 1 Failure Analysis

We do a “failure analysis” on all spindles to isolate and determine the reason it failed.



## 2 Component Inspection

We examine all components for any signs of wear, improper fit & size.

This includes: bearing journals, bores, shoulders, shafts, caps, bushings & spacers.



## 3 Firm Price Quote

We “firm price” our rebuilds, free-of-charge & without obligation.

Once approved, work is started immediately.

If you decide not to have Setco™ rebuild your spindle, we promptly return your spindle.



## 4 Part Replacement & Reconditioning

We replace or re-condition parts to OEM specs to ensure “like new” operating performance.

- Housings Are Sleeved & Machined
- Shafts Are Chromed & Reground
- Components Are Checked for Balance
- All Spindle Bearings Are Replaced
- All Spindle Seals Are Replaced
- Motors Tested & Rewound



## 5 Reassembly

We reassemble your spindle, precision balance and run-in under controlled conditions. We also collect signature data & record it for future reference.



## 6 Return

When your rebuild is complete, we return it to you with “like new” performance & backed with a written 12-month Setco™ warranty!

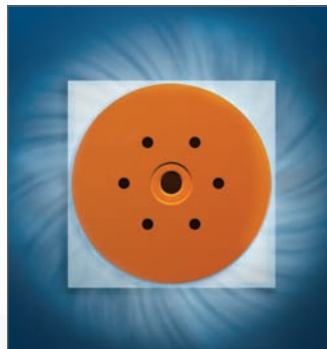
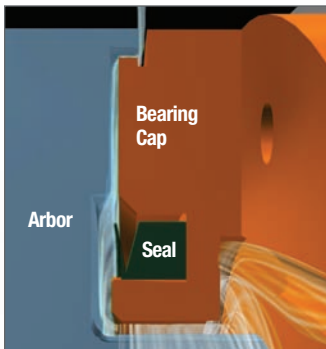


# The Best Spindle Seal System in the Industry...

**setco**  
**AIRSHIELD™**



The most common spindle failure is caused by bearing failure due to contamination from coolant ingress, condensation, contamination, or chip damage. Contamination enters the spindle because the spindle seal failed. The Setco AirShield™ has eliminated spindle failure due to bearing contamination and proven itself as the best and most reliable spindle seal in the industry and proven by extensive testing over 6 years without a single failure attributable to the AirShield™ performance.



The patented AirShield™ equalizes and disperses air within the seal for 100% elimination of bearing contamination. The AirShield™ design is simple, maintenance-free and it has no moving parts to wear out.

The patented AirShield™ design is the only spindle seal that offers both dynamic and static protection for 100% elimination of coolant ingress and spindle contamination. The Universal AirShield™ is a compact version of the AirShield™ spindle seal, but this seal configuration is designed for tight quarter new spindle applications and a perfect retrofit seal for existing spindles that have recurring bearing contamination problems.

The Universal AirShield™ is available in a wide variety of standard sizes- ranging from 25mm to 250mm inside diameter (.98" to 9.8" I.D.). And best of all, the Universal AirShield™ has a standard 3-year limited warranty – the best in the industry.

## Unbeatable AirShield™ Performance

- 100% Static & Dynamic Spindle Protection
- 100% Elimination of Bearing Contamination
- Highest Spindle Seal Reliability in the Industry
- Sizes to Fit Most Popular Spindle Models: Domestic, Foreign & OEM
- Retrofittable to Many Existing Seal Designs
- Best Warranty in the Industry; 3-years Against Contamination, Standard



For over 10 years Setco™ has tested all major seals under varying harsh operating environments and determined that the Setco AirShield™ is the best spindle seal system in the industry.

# Setco™ North American Sales & Service Centers

With an installed base of over 250,000 spindles and more than 300 years combined manufacturing experience, Setco™ knows spindles and has the experience and manufacturing capabilities to get the job done and do it right. Working with a professional spindle manufacturer can reduce your downtime and get your machine back on line faster and with less worry.

The next time your spindle needs service, don't just repair, ReSet your manufacturing performance and contact the nearest service center or call 1-800-543-0470.

Register on our website [setcousa.com](http://setcousa.com) and save \$100 on your next rebuild!

## Spindle Brands Setco™ Rebuilds

ABRASIVE	CLEVELAND	FAVETTO	HITACHI	KUJER	OERLIKON	SEIKO SEIKI	TREE
ACROLOC	CMS	FAYRETTO	HITACHI SEIKI	KURAKI	OKAMOTO	SETCO	TRUFLUTE
ADVANCE CONTROL	COBURN	FELLOWS	HOLZMA	LAMB	OKK	SFJ	TSCHUDIN
AETNA	COLMATIC	FEMCO	HUFFMAN	LANDIS	OKUMA	SHAPER	TSUGAMI
AGATHON	COLONIAL	FEMINA	HURCO	LASALLE	OLIVER	SHEFFIELD	U.S.
ALPINE	COLUMBO	FISCHER	HYDRAMAT	LEBLOND MAKINO	OLOFFSON	SHIGYA	ULAM
ANAYAK	COMBING	FORTUNA	IBAG	LEADWELL	OMLAT-TORINO	SHINO	UNISON
ANCA	COMEC	FORTUNE VICTOR	IKEGAI	LIANFENG	ONSRUD	SHIZOUKA	UVA
ARTER	COVEL	FOSDICK	IMC	LIDKOPING	Ooya	SHODA	VAN NORMAN
ASC	CYTEC	FRANZ KESSLER	IMF	LIMA	ORION	SIARTO-SICAR	VICTOR
ASHAI	DAC	FRAUENTHAL	IMP	LINCO	OVERBECK	SIGA	VOLLMER
ASV	DAEWOO	GALLMEYER &	IMPCO	LOH-GMN	PAATZ	SIGMA	VOLLMARD
ATLAS	DAINICHI	LIVINGSTON	INCOR	MAAG	PANGBURN	SIMPLEX	VULCANAIRE
AVON	DANKAERT	GAMFIOR	INDEX	MAHO	PARKER INDUSTRIAL	SINTEX	WADKIN
AXXIOM	DANOBAT	GARDNER	INGERSOLL	MANEX	PBA	SJOGREN SAGINAW	WAGNER
BARBER COLEMAN	DEARBORN	GILDEMEISTER	INVINCEABLE	MASCO	PBS	SKF	WAIDA
BARNES	DECKEL	GILMAN	IONIC	MASTER	PERSKE	SMG	WALTER
BAYER	DEMER	GIORDONA COLOMBO	J&L	MATRIX	PIAT	SOPKO	WARD
BEHR	DEPENDABLE	GMN	JET	MATSUJURA	PITTLER/KESSLER	SPINTEC	WARDELL
BERTONI & COTTI	DEUSCHLE	GMS	JOHNFORD	MATTISON	POPE	SPRINGFIELD	WASINO
BIESSE	DEVILG	GOMIYA	JONES & LAMSON	MAXRAWYLER	PORTER	STAMA	WEDALCO
BLAKE	DIBOLD	GORTON	JONES & SHIPMAN	MEIDEN	PRATT-WHITNEY	STANDARD	WEISS
BLANCHARD	DOALL	GRISETTIGROB	JUNG	MIGHTY COMET	PRECISE	STEP-TEC	WEISSER
BLOHM	DRR	GROS-ITE	K.O. LEE	MITSU-SEIKI	RO	STICKER	WENDT
BONEHAM & TURNER	DUMORE	HAAS	KASPER	MITSUBISHI	RAMBAUDI	STOFFEL	WHACEON-
BOWEN	DUNHAM	HAMAL	KELLENBERGER	MITSUI	RANSBURG	STUDER	WHEELABRATOR
BOYER-SCHULTZ	EKSTROM	HARDINGE	KELLER	MONARCH	REID	SUMMIT	WHITE-SUNSTRAND
BRIDGEPORT	CARLSON	HARIG	KENT	MOORE	REINECKER	SUN TOOL	WHITNON
BROTHER	ELB	HARILL	KENWARD	MORI SEIKI	RIGID	SUNSTRAND	WICKMAN- SHEFFIELD
BROWN & SHARPE	ELDORADO	HARVILL	KESSLER	MYFORD	RIVETT	SWISS-LATHE	WILLEMIN
BRYANT	ELLIOT	HAUSER	KIKINDA	MYL	ROCKWELL	TAFT PIERCE	WIT-O-MATIC
BULLARD	ELMO	HEALD	KINDT-COLLINS	NAKAMURA	ROKU ROKU	TAKI-CHIN	WOODS
CAMPBELL	ENSHU	HEATHWAY	KINGSBURY	NAKAMURA TOME	RONOS	TAKISAWA	YACHYO
CANTON	EVERITE	HEIAN	KITAGAWA	NEWELL	ROSS	TECHNICATEMPO	YAM
CARLTON	EWAG	HELLER	KITAKO	NICHOLS	ROYAL OAK	THEMAC	YAMAGUCHI
CARVER	EXCELLO	HEMBURG	KITAMURA	NIGATA	RUDEL	THOMPSON	YAMAZAKI
CHEVALIER	EXCELLON	HEMPLE	KIWA	NILES	SAIMP	THOR	YANG
CHINO	FADAL	HERBERT LINDER	KLINGELNBERG	NIPPEE	SAMSUNG	TOS-HOSTVAR	YASKAWA
CHIRON	FAEMAT	HERBOLD	KOLB	NORMAC	SAWWAY	TOSHIBA	
CHURCHILL	FAG	HERMLE	KOMO	NORTON	SCHUSSLER	TOYO KOGYO	
CINCINNATI	FALCON	HERTLEIN	KONDIA	NSK	SCM	TOYODA	
CINEX	FALVA	HILLYER	KRUGER	OBERG	SECO	TRAMINER	
CLEERMAN	FANUC	HIMMEL			SEIKO	TRAUB	



### Western Service Center

5572 Buckingham Drive  
Huntington Beach, CA 92649  
714-372-3730  
1-866-362-0699 Toll-Free  
714-372-3750 Fax



### Great Lakes Service Center

41180 Vincenti Court  
Novi, MI 48375  
248-888-8989  
1-877-773-5349 Toll-Free  
248-888-0765 Fax



### MidWest Service Center

5880 Hillside Avenue  
Cincinnati, OH 45233  
513-467-7262  
1-800-543-0470 Toll-Free  
513-467-7249 Fax



### SouthEast Service Center\*

3650 Burnette Park Drive  
Suwanee, GA 30024  
770-932-2353  
1-800-830-4992 Toll-Free  
770-932-1668 Fax

\* A Setco™-Timken joint venture.