Stephens Dynamics Inc.

* * The New Leader in Rotating Cylinder Technology * *

USA Manufactured

Hydraulic ~ Pneumatic ~ Special Cylinders





- ★21st Century Design
 - *Patent Pending & Trade Marked Products
 - *Continuous Improvement Design & Build
 - *Ultra Precision Manufacturing
 - *Enhanced Experienced Customer Service

www.stephensdynamics.com



Hydraulic Rotating Cylinders



Stephens Dynamics Inc. Model SCH & SCHL hydraulic rotating cylinders are the right choice for a remarkable broad range of applications. The newly enhanced design of our SCH & SCHL cylinders are very versatile with through port (for coolant or part detection) and stroke detection features, as well as very durable due to non-rotating port connections. There are no fragile rods for rotating couplings and no oscillating or wobbly target dogs to cause vibration or premature wear. SDI has experienced Regional Factory Sales Representatives who can help with your onsite cylinder and engineering needs along with our in house engineering personnel. We have an outstanding collection of high-performance features.

High Speed Rotation currently up to 7000 RPMS on all bore sizes with future engineering for higher speeds. Individually Balanced Cylinders enhance high speed operation in vertical,

horizontal and inverted applications for smooth quiet machine operation and improved part finishes.



operating pressure in cylinder in case of power or hydraulic system failure. Our Lock

Checks also work in "Hi/Lo" applications.

Easy replacement cartridges ideal for quick maintenance. Efficient Compact Design allows operation in

restricted areas. The SCH & SCHL short length makes it ideal for vertical applications where spindle-to-floor clearance is limited. Directly Interchanges with all American Standard Mountings for quick easy replacement of your old style cylinders

Tailrod Option The SCH & SCHL can be equipped with a tailrod to sense piston position, i.e. automatic loading applications. Cylinder Performance test sheets and installation instructions for your convenience shipped with every cylinder. Warranty 1 year from date of purchase.

Extended Warranties also available. Contact factory for details.

Complete Service Repair Center for all Stephens Dynamics Inc. cylinder models. Service response time (both sales and product) is a point of pride with us. We also repair all

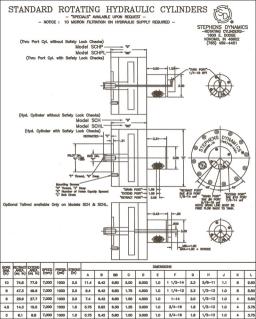
competitors cylinders including ITW, LMC, SP Sheffer, Auto Bloc and many other cylinder makes.

Special Non-Work Holding Applications For specific applications, these cylinders can be used and/or modified for various uses in

a multitude of environments. Consult factory

representative







Pneumatic Rotating Cylinder



Stephens Dynamics Inc. Model SCA & SCAL pneumatic rotating cylinders provide for a remarkable broad range of applications. The newly enhanced design of our SCA & SCAL cylinders are very versalle with through port (for coolant or part detection) and stroke detection features, as well as very durable due to nonrotating port connections. There are no fragile rods for rotating couplings and no oscillating or target dogs to cause vibration or premature wear. SUI has experienced Regional Factory Sales Representatives who can help with your onsite cylinder and engineering reds along with our in house engineering personnel. Our continual efficient engineering formulas allow these cylinders to be enhanced by an outstanding collection of hith-performance features.



High Speed Rotation currently up to 7000 RPMS on all bore sizes with future engineering for higher speeds.

Individually Balanced Cylinders enhance high speed operation in vertical, horizontal and inverted applications for smooth quiet machine operation and improved part finishes.

Built-in Lock Checks provide maximum protection. Internal check valves trap operating pressure in cylinder in case of power or pneumatic system failure. Our Lock Checks also work in "Hit/o" applications. Easy replacement carriridges ideal for quick maintenance.

Lightweight Efficient Compact Design allows operation in restricted areas. The SCA & SCAL short length makes it ideal for vertical applications where spindle-to-floor clearance is limited.

Directly Interchanges with all American Standard Mountings for quick easy replacement of your old style cylinders.

Easy Maintenance Pneumatic Rotary Coupler A Stephens Dynamics Inc. seal-less design increases RPM and
withstands higher operating temperatures. Double sealed but bearings eliminate bibrication maintenance. Simple design is easy to
service. The rotary coupler is secured to the cylinder with just four screes eliminating the need to remove the entire cylinder to service
the rotary coupler.

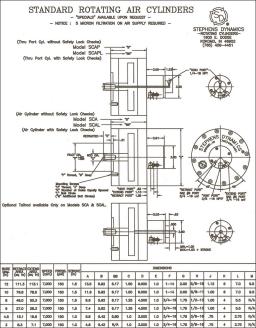
Tailrod Option The SCA & SCAL can be equipped with a tailrod to sense pinton position, i.e. automatic loading applications. Cylinder Performance test sheets and installation instructions for your convenience shipped with every cylinder. Warranty 1 year from date of purchase.

Warramity 1 year to an of purchase.**

Extended Warramilee also available. Contact factory for details.

Complete Service Repair Center for all Stephens Dynamics Inc. cylinder models. Service response time (both sales and product) is a spoint of prise with su.** We also repair all competitors cylinders including ITW, LMC, SP Steffer, Auto Bioc and many other cylinder makes.**

Special Non-Work Holding Applications For specific applications, these cylinders can be used and/or modified for various uses in a multitude of environments. Consult factory representative.





Special Cylinders



Stephens Dynamics Inc. special hydraulic and pneumatic rotating cylinders can fulfill a tremendous variety of engineering applications. Our infoliulosally designed cylinders are very durable due to non-rotating port connections. There are no fragile rods for rotating couplings and no oscillating or wobbly target dogs to connections. There are no fragile rods for rotating couplings and no oscillating or wobbly target dogs to cause withartion or permature failure. So Dish as experienced Regional Factory Sales Representatives who can help with your onsite cylinder and engineering needs along with our in house engineering personnel. Costomizing our state of the art standard cylinders, incorporating special between and customer designs are routine for Septeme Dynamics Inc. We can incorporate many of our high-performance features as well as routine for some control of the control of t

Multiple Versatility in all styles of Special Rotating
Cylinders - fast acting, reciprocating oil body, stroke

detection with through port, duplex, non-standard stroke, tailrods, prox targets or trip dog, special piston rods and

transfer line cylinders.

Built-in Lock Checks provide maximum protection.

Internal check valves trap operating pressure in cylinder in case of

power or hydraulic system failure. Our Lock Checks also work in "Hi/Lo" applications. Easy replacement cartridges ideal for quick maintenance.

Tailrod Option specials can be equipped with a tailrod to sense piston position, i.e. automatic loading applications. Individually Balanced Cylinders symmetrically and

dynamically to enhance high speed, operation in vertical.

horizontal and inverted applications for smooth quiet machine operation and improved part finishes.

Directly Interchanges with many existing

cylinder mountings for quick easy replacement of your old style cylinders.

High Speed Rotation currently up to 7000 RPMS on all bore sizes with future engineering for higher speeds.

higher speeds.

Cylinder Performance test sheets and installation

Instructions for your convenience shipped with every cyfinder.

Warranty 1 year from date of purchase.

Extended Warranties also available. Contact factory for details. Complete service

repair center for all Stephens Dynamics Inc. special cylinders. Service response time (both sales and product) is a point of pride with us. We also repair all competitors cylinders including ITW, LMC,

SP Sheffer, Auto Bloc and many other cylinder makes.

WE HAVE AVAILABLE: CHUCKS AND THRU-HOLE CYLINDERS MADE BY MMK MATSUMOTO CORP.







It Takes A Lickin' and Keeps on Spinnin'

Stephens Dynamics Inc. Model SFA & SFAL pneumatic rotating cylinders provide for a remarkable broad range of applications. The extended warney-cylinder virtually frees your machine from cylinder setzures. This cylinder functions in all the utilinate adverse manufacturing environments you are looking to solve such as solvibrating environments, supply line condensualino, contaminants, etc. Our newly designed SFA & SFAL cylinders are very versatile with the same features as the SCA and SCAL models in performance and discussional 543.



engineering needs along with our in house engineering personnel. Our steadfast engineering formulas allow these cylinders to be enhanced by an outstanding collection of

high-performance features.

High Speed Rotation currently up to 7000 RPMS on all bore sizes with future

engineering for higher speeds.

Individually Balanced Cylinders enhance high speed operation in vertical,

horizontal and inverted applications for smooth quiet machine operation and improved part finishes.

Built-in Lock Chocks provide maximum protection. Internal check valves trap operating pressure in cylinder in case of power or pneumatic system failure. Our Lock Checks also work in "Hist.0" applications. Easy replacement carridoses ideal for muck-anisherance.

Lightweight Efficient Compact Design allows operation in restricted areas. The SFA & SFAL short length makes it ideal for vertical applications where spindle-to-floor clearance is limited.

Directly Interchanges with all American Standard Mountings for quick easy replacement of your old style cylinders.

Tailrod Option The SFA & SFAL can be equipped with a tailrod to sense piston position. Le automatic loading applications.

Cylinder Performance test sheets and installation instructions for your convenience shipped with every cylinder.

Extended Warranties also available. Contact factors for details.

Complete Service Repair Center for all Stephens Dynamics Inc. cylinder models. Service response time (both sales and product) is a point of pride with us. We also repair all competitors oglinders including ITW, LMC, SP Sheffer, Auto Bloc and many other cylinder makes.

Special Non-Work Holding Applications For specific applications, these cylinders can be used and/or modified for various uses in a multitude of environments. Consult factory representative.

Performance and Dimensional Information see engineering chart for SCA and SCAL Pneumatic Cylinders.



STANDARD CYLINDERS FORCE CHART (POUNDS OF FORCE) STEPHENS DYNAMICS -ROTATING CYLINDERS-1600 E. DODGE KOKOMO, IN 46902 (765) 459-4451 Model SCA (Air Cylinder without Safety Look Checks) AIR CYLINDERS Model SCAL (Air Cylinder with Safety Lock Checks) AIR PRESSURE SUPPLIED (PSI) B223 2,388 4.5 ARK Model SCAP (Thru Port Cvl. without Safety Lock Checks) AIR CYLINDERS Model SCAPL. (Thru Port Cyl. with Safety Look Checks) AIR PRESSURE SUPPLIED (PSI) BSAS OBAN THE B232 4.5 TN/A N/A N/A N/A N/A N/A Model SCH (Hyd. Cylinder without Safety Look Checks) HYDRAULIC CYLINDERS SCHL (Hyd. Cylinder with Safety Lock Checks) HYDRAULIC PRESSURE SUPPLIED (PSI nonec В 4.5 T247 = Model SCHP (Thru Port Cyl. without Safety Lock Checks) HYDRAULIC CYLINDERS SCHPL (Thru Port Cyl. with Safety Lock Checks) HYDRAULIC PRESSURE SUPPLIED (PSI) AARSA SOSTE ATTR

10853 11940

4.5

"The New Leader in Rotating Cylinder Technology"



Stephens Dynamics Inc.

1600 East Dodge • Kokomo, IN 46902 (765) 459-4451 • (765) 457-1410 Fax www.stephensdynamics.com

Email: sales@stephensdynamics.com