

DYNA-GRIP® METAL BLADDER SHAFTS

DG-2000 Lug Shaft

DG-3000 Leaf Shaft



***Cost effective
Easy to maintain
Superior performance and durability***



DOUBLE E COMPANY, INC.

Excellence in Engineering

Dyna-Grip® metal bladder shafts are designed and manufactured to be durable, easy to use, and simple to maintain.

DYNA-GRIP® AIR SHAFTS

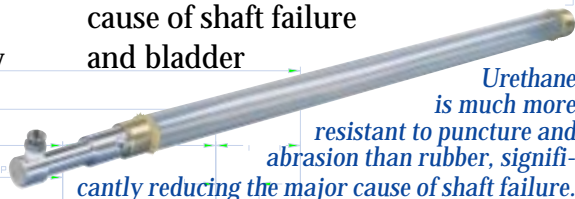
For over twenty-five years, the Double E Company has been engineering and manufacturing innovative web handling equipment for the paper, film, and foil converting and packaging industries. Dyna-Grip air shafts combine advanced design, high performance materials, and the latest in manufacturing technology to perfect an industry standard – metal bladder shafts.

ADVANCED DESIGN AND MATERIALS

Until now, all shaft bladders have been made from a common form of neoprene rubber. This material, originally developed decades ago, requires frequent replacement due to stretching and abrasion. When the lugs come in contact with this material during rotation, rapid wear results. In addition, the permanent stretching of the bladder often requires springs to force the lugs down after the air has been released.

These springs are necessary to allow for easy removal and insertion of the shaft into the core. Over time, the springs fatigue, break, puncture the bladder, and lead to shaft failure.

Dyna-Grip shafts solve these problems. Double E is the first to incorporate polyurethane as a bladder material. Urethane is much more resistant to puncture than rubber, significantly reducing the major cause of shaft failure and bladder



Urethane is much more resistant to puncture and abrasion than rubber, significantly reducing the major cause of shaft failure.

replacement. Urethane is also much more resistant to stretching and abrasion. The use of urethane as a bladder material allows Double E, in most cases, to utilize a “springless” lug design, eliminating the risk of puncture altogether. These lugs are available in our “diamond-grip” surface in steel, aluminum, or plastic, and have been field-proven to provide the maximum gripping performance possible.

EASY MAINTENANCE

With Dyna-Grip air shafts, bladder replacement is quick and easy. Unlike competing designs, the journal connection on DG-2000 lug shafts and DG-3000 leaf shafts is secured with flathead screws, a close tolerance fit, and deep insertion. Journals can be removed easily with an Allen wrench. Competing shafts use a tapered press fit, which requires a hydraulic press and heat to remove the journals. Bladder replacement on these designs can take several hours while the bladder of a Dyna-Grip shaft can be changed in just a few minutes.

PARTS AND SERVICE

The Double E Company is proud to offer top quality customer and product support for the Dyna-Grip line. Spare parts, as well as accessories such as safety air-guns, are always available for immediate delivery.

Double E supplies a complete line of shafts for your printing, converting, and

UNIQUE FEATURES OF DYNA-GRIP® SHAFTS

Easy to maintain.

Ultra-durable polyurethane bladder.

Rugged proprietary journal fastening system; not a “press fit.”

Die-cast lugs with diamond plate gripping surface for less slippage.

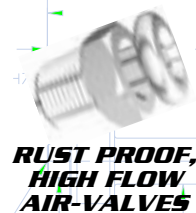
Strong, all-metal housing of aircraft-grade aluminum or steel.

Stainless steel air valve.

packaging needs. These include lug mechanical and pneumatic/mechanical designs, and the world's best selling lightweight carbon fiber shafts, the Dura-Light® line. All of our shafts are available in standard and custom sizes, and come with comprehensive warranties.



ONE-PIECE DIAMOND PLATE LUGS



RUST PROOF, HIGH FLOW AIR-VALVES

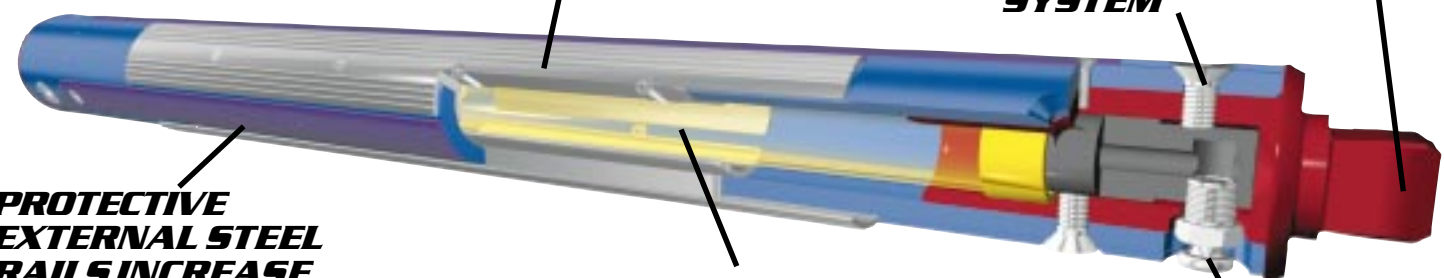


SAFETY AIR GUNS

DG-3000 LEAF SHAFT (FOR MULTIPLE CORE REWIND)

EXTRUDED ALUMINUM LEAVES, MANUFACTURED WITH AN EXCLUSIVE PROFILE DESIGN TO MAXIMIZE GRIPPING PERFORMANCE

RUGGED PROPRIETARY FASTENING SYSTEM EASILY REMOVED JOURNALS



PROTECTIVE EXTERNAL STEEL RAILS INCREASE STIFFNESS AND REDUCE DEFLECTION (OPTIONAL)

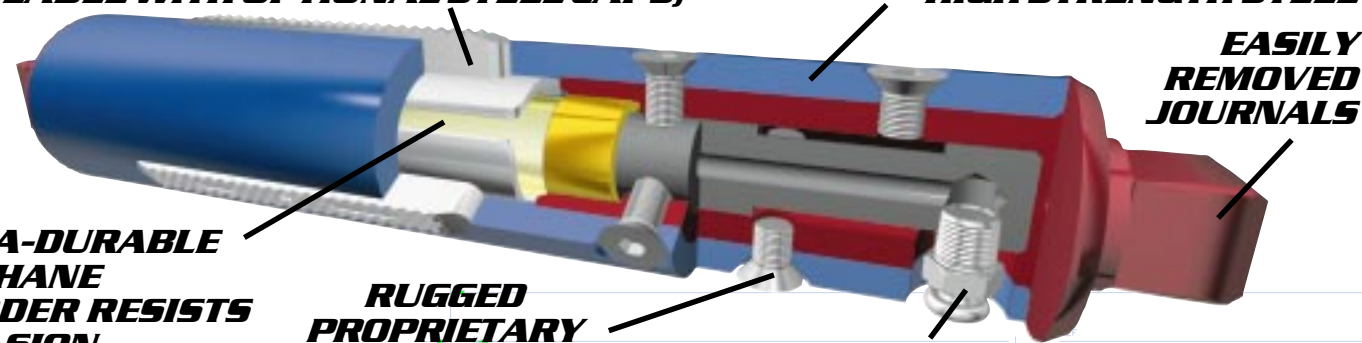
ULTRA-DURABLE URETHANE BLADDER RESISTS ABRASION

STAINLESS STEEL AIR VALVE

DG-2000 LUG SHAFT

DIE-CAST ALUMINUM LUGS, MANUFACTURED WITH AN EXCLUSIVE DIAMOND PLATE GRIPPING SURFACE (AVAILABLE WITH OPTIONAL STEEL CAPS)

ABUSERESISTANT ALL-METAL HOUSING, AVAILABLE IN AIR-CRAFT QUALITY ALUMINUM OR HIGH STRENGTH STEEL



ULTRA-DURABLE URETHANE BLADDER RESISTS ABRASION

RUGGED PROPRIETARY FASTENING SYSTEM

STAINLESS STEEL AIR VALVE

EASILY REMOVED JOURNALS



THE DYNA-GRIP® METAL BLADDER SHAFT

DYNA-GRIP® METAL SHAFT SPECIFICATIONS

Company Name: _____ Date: _____
Name: _____ Title: _____
Address: _____
City, State, Postal Code, Country: _____
Telephone: _____ Fax: _____

GENERAL SPECIFICATIONS

Actual Shaft Diameter: _____
Nominal Core I.D.: _____
Core Material: _____
Steel-Capped Cores: All None Some
Shaft Overall Length: _____
Support Separation: _____
Bearing Material / Type: _____
Max. Roll Weight: _____
Max. Roll Width: _____ Diameter: _____
Other Roll Weight(s): _____
Other Roll Width(s): _____
Other Roll Diameter(s): _____
Min. Roll Weight: _____
Min. Roll Width: _____ Diameter: _____
Roll Position on Shaft: Left Right Center
Web Speed: _____ Tension (P.L.I.): _____

PRESENT APPLICATION

Equipment Manufacturer: _____
Machine Type: _____
Web Material: _____
Used On:
Unwind Rewind
Center Brake or Drive Surface Brake or Drive
Drum Supported Hoisted Slit Rewind
Max. # of Slit Rolls: _____ Min. Slit Width: _____
Min. Air Line Pressure Available: _____

PRESENT SHAFT

Manufacturer: _____
Material: _____ Wall Thickness: _____
Weight: _____ Quantity Required: _____

PROBLEMS W/ PRESENT SHAFTS:

Weight Deflection Maintenance
Other _____

Sketch shaft details (include all envelope demensions). Please send shaft drawing if available,

Please fax this completed sheet to (508)580-2915 for a formal quotation.



Printed on recycled paper



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The SR71 was first introduced in 1965 as a state-of-the-art spy plane. At the time, it revolutionized aerodynamic technology, and to this day it represents superior engineering, speed, strength, and being the best. The Double E Company is proud to have the consent of Lockheed Aircraft to use the SR71 as its corporate symbol.