



DAVIS-STANDARD Global Review

Diving into 2020 with Sustainable Innovation

Message from Jim Murphy, President and CEO

It is hard to believe 2020 is upon us. So much has been predicted about where our industry would be at this point, and here we are! For Davis-Standard, the journey from our first extruder sale in the late 1940s to 2020 has been a whirlwind of change and growth. Yet, throughout it all, we have continued to focus on core competencies that make us a reliable brand – quality engineering, equipment performance, strategic partnerships and acquisitions, research and development, and most importantly, a commitment to customer service.

Having been in the industry for over 30 years myself, I am continually inspired by our collective ability to adapt despite shifting markets, changing equipment requirements, economic uncertainties and unforeseen circumstances. The current trade situation is an excellent example. While it has created apprehension and project delays for many, I believe our industry is doing its best to accommodate customers while continuing to evolve to meet new demands. At the recent K show in Germany, we promoted technologies that address sustainable processing. The push toward a circular economy hits home for all of us. It's imperative that we continually

develop technologies aimed at reducing waste and energy consumption, while addressing the benefits of alternate polymers and other environmentally-friendly resins. We must remain committed to social responsibility and best practices regardless of the ebbs and flows of current events. Our efforts at Davis-Standard have not gone unnoticed, as we had over \$17 million USD in new orders during K. We have also seen improved market activity in Asia, Europe and North America during



Jim Murphy, Davis-Standard's President and CEO

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Davis-Standard Acquires Deacro Industries

Davis-Standard, LLC announced today that it has acquired Deacro Industries, Ltd ("Deacro") of Mississauga, Ontario. Deacro (www.deacro.com) designs, manufactures and assembles high performance slitting, rewinding and roll handling equipment for the converting process of paper, film and foil materials.

"Deacro is a market leader in high performance slitting and rewinding equipment technology for flexible packaging applications and we are excited to welcome their dedicated team to Davis-Standard," said Jim Murphy, Davis-Standard President and CEO. Murphy added "We are enthusiastic about this opportunity with Deacro; our organizations share a common focus on providing our customers solutions, service and technology."

Clarence Beishuizen, President of Deacro Industries Ltd., remarked on transaction.

"We are very pleased to join Davis-Standard, an organization that shares our business values and long-standing reputation as a global leader in the industry," he said. "With Davis-Standard we have a



Pictured is the T800 turret slitter, which features an automated rewind and the ability to accommodate large OD rewrites.

partner that is committed to our customers, employees and advancing technology. Deacro will continue to operate and serve its customers as before and we are enthusiastic about our opportunities with Davis-Standard."

Murphy concluded with, "This is an exciting day for both organizations as we begin our future together."

Davis-Standard's Model 3000A Crosshead Embodies Smart Technology for Hose Applications

In an effort to continually improve system productivity through smarter technology, Davis-Standard has introduced the Model 3000A (automatic) crosshead for rubber hose applications. As overhead costs for labor, energy and materials put pressure on the margins, it is essential to have faster, more versatile equipment to merge economics with sustainability. The Model 3000A crosshead is an example of this technology, enabling hose manufacturers to reduce scrap and attain faster start-up times for smaller lots. Material savings, quick product changes, simplified maintenance, reduced scrap and improved quality equate to competitive efficiency.

"Every component on the Model 3000A is engineered to improve processing while providing cost savings," said Joe Wnuk, Vice President, Davis-Standard Elastomer and Profile Systems. "There are production advantages when the crosshead is used as part of a fully integrated and automated elastomer line, or when used separately as a second step in the manufacturing process. In many cases, the return on investment can be realized in less than a year."

The Model 3000A incorporates an automatic, servo driven concentricity adjustment system. This new, proprietary system allows for adjustment of the core tube/tip assembly with a simple, accurate joystick control. This enables the operator to easily minimize eccentricity, maximize concentricity, and reduce downtime during product changeovers. In addition, the servo drives enable monitoring and adjustments throughout the run to account for lot-to-lot variations, day/night variations, and corrections for gum space

adjustments. A hydraulic pump system is not necessary and the compact design does not require hoses.

Additional features such as a tapered mandrel and highly engineered flow paths ensure consistent flow through all speed ranges. The thrust bearing supported core tube/pin assembly enables wall thickness modification under pressure without interruption. Die adjusting screws are located in removable inserts to protect the body from thread damage. A larger surface area in the water jacket improves heat transfer efficiency. Models are available to accommodate 2-inch (50mm), 3-inch (76mm), 4.5-inch (102mm) and 5.5-inch (140mm) diameter braids.

Wnuk added, "One of the best features of this automatic design is the precision adjustment. This contributes to material savings due to tighter tolerances within specifications. This is especially valuable with frequent product and dimension changes, which are becoming more and more common in the industry. We look forward to seeing the benefits of the crosshead for customers worldwide."

Davis-Standard's Aftermarket group is available to review your existing elastomer line to determine how the new Model 3000A crosshead can improve your efficiency and bottom line. Wendell Whipple, Vice President, Global Aftermarket Sales, said "In addition to new lines the Model 3000A crosshead can be integrated into an existing line. In most cases existing Model 2000 crossheads may be upgraded with this new automatic technology". Contact us today to inquire on this upgrade: <https://davis-standard.com/contact/>



The Model 3000A features a proprietary automatic, servo driven concentricity adjustment system for improved processing.

James Johnson Joins Davis-Standard as Regional Sales Manager

Davis-Standard is pleased to announce that James Johnson has joined the company as Regional Sales Manager, Sheet and Foam, for the Southeast region of the U.S. He will support customer sales and service in the states of TN, NC, MS, AL, GA, SC, MO, OK, AR, TX, LA. This includes collaboration with customers to assess equipment needs and requirements, support of product engineering, equipment upgrades, cost-assessment and production strategies. He comes to Davis-Standard from Polymer Systems, Inc. where he was a sales engineer. Prior to that, he was with Shurtape Technologies.

"James brings industry sales, manufacturing and adhesives experience to his position, which will be beneficial to our sheet and foam business," said Steve DeAngelis, Davis-Standard Vice President, Sheet and Foam Systems. "His communication and technical abilities,

knowledge of the Southeast, and ability to address complex issues and deliver results will serve customers well."

Johnson is a graduate of East Carolina University and holds a yellow belt in Lean Six Sigma. He will be based in Hickory, North Carolina and can be reached at jjohnson@davis-standard.com.



James Johnson

Rich Kanarski to Lead Davis-Standard's Technical Product Team

Davis-Standard is pleased to announce that Rich Kanarski has been appointed Manager – Technical Product Management. Rich will lead efforts to drive the evolution of technologies associated with key product lines in support of Davis-Standard's strategic plan. The new role involves a combination of tactical and strategic activities centered on advancing product performance. Kanarski and his team will collaborate with suppliers and customers to evaluate market trends and capabilities, and develop technology accordingly.

Kanarski has been with Davis-Standard the last seven years, most recently as a process engineer with converting systems. He has worked closely with product management, application engineering, sales and field service teams to help specify and optimize extrusion processes. During this time, he has developed relationships with colleagues worldwide and has supported customers in all project phases. This includes on-site sales meetings, process support, start-ups and commissioning, acceptance and ongoing troubleshooting. Prior to Davis-Standard, he was at Coperion where he led extrusion technology scale-up and development for research programs serving polyolefin, bio-plastics, food and pharmaceutical businesses.

"Rich is a talented and experienced leader with established relationships and practical technical expertise," said Rich Pastor, Vice President of Operations at Davis-Standard facility in Fulton, N.Y. "His

move into this strategic role will be beneficial to customers and our teams as we address future market trends and customer requirements worldwide."

In addition to his professional role, Kanarski has expanded his industry presence and networking by participating in technical conferences and tradeshows. He is currently on the SPE (Society of Plastics Engineers) Board of Directors, Extrusion Division. As part of SPE board leadership, he supports efforts in member services including recruitment and outreach activities, serves on the technical paper review committee, the finance committee and young professionals committee.

If you would like to contact Rich, please call our main office at 860-599-1010. For more information about Davis-Standard, visit www.davis-standard.com.



Rich Kanarski

UPCOMING EVENTS

Davis-Standard will be participating at the following tradeshows, conferences and seminars.

AMI Polyethylene

February 4 – 6
Coral Springs, Florida - USA
Table # 13

MD&M West

February 11 – 13
Anaheim, California – USA
Booth #4024

Converter's Expo South

February 12
Charlotte, North Carolina - USA
Table # 29

SPE International Polyolefins Conference

February 23 – 26
Houston, Texas - USA
Booth # 31

Global Release Liner Industry Conference and Exhibition

February 27 – 28
Amsterdam, Netherlands
Table # TBD

Plast Alger

March 9 – 11
Algiers, Algeria
Booth # 1E26

AMI Specialty Packaging & Films

March 10 – 11
Bangkok, Thailand
Table # 13

Plastics Recycling Conference

March 17 – 19
Nashville, Tennessee - USA
Booth # 515

Plastprintpack

March 24 – 26
Lagos, Nigeria
Booth # 1H.11

Top Five Most Popular Blog Posts from 2019

2019 was the beginning of the DS Connect Blog and it's been extremely successful, delivering valuable and educational content to help your manufacturing operation. Our team deems it necessary to count down the top five of the year!

Coming in at # 5 Essential Feedscrew and Barrel Maintenance, Part 1

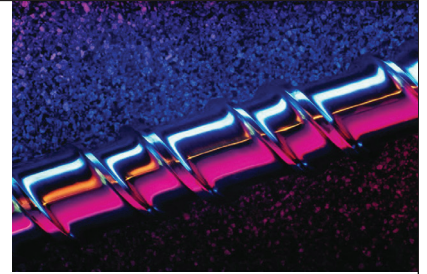


Achieving processing goals, product quality and avoiding unexpected equipment shutdowns are critical for operational excellence and profitability.

Ensuring the feedscrew and barrel remain in top condition is an essential part of this equation. In part one of this blog series, we will discuss feedscrew measurement.

Read more: https://davis-standard.com/custom_blog/essential-feedscrew-and-barrel-maintenance-part-i/

4 in our countdown Feedscrew and Design Truths for Improved Longevity, Part 1



There are three types of feedscrew wear: abrasive, adhesive and corrosive. Depending on the polymers you process, these types of wear can be costly and frustrating. Read more about the causes and solutions we suggest at Davis-Standard.

Read more: https://davis-standard.com/custom_blog/feedscrew-and-design-truths-for-improved-longevity-part-i/

The middle man in our countdown # 3 The "911" for Feedscrew Removal

Your feedscrew is stuck...now what? Never fear! First thing's first, follow the instructions in your extruder manual. Secondly, we recommend using a feedscrew jack to safely aid in this process.

To give you an idea of what to expect, here are 10-steps applicable to feedscrew removal for most Davis-Standard extruders using a feedscrew jack.

Read more: https://davis-standard.com/custom_blog/the-911-for-feedscrew-removal/



Runner up # 2 When Traditional Feedscrew Removal Fails...

As a follow-up to our previous blog entitled "The 911 for Feedscrew Removal," there are situations when typical feedscrew removal procedures fail. Thus, extra work is involved.

Read more to learn 3 alternative methods. https://davis-standard.com/custom_blog/when-traditional-feedscrew-removal-fails/



And the winner as the most viewed blog post in 2019 is... Chill Roll Cleaning, Part 1

Consistent roll maintenance is a necessary aspect of maximizing cast film and extrusion coating equipment performance and longevity.

In this two-part series blog, we will discuss the necessary step-by-step instructions for cleaning chill rolls to remove iron oxides and other build-up.

Read more: https://davis-standard.com/custom_blog/chill-roll-cleaning-part-one/



President's Address continued from page 1

the second half of 2019, especially in the medical, packaging and infrastructure segments. Thank you for continuing to place your trust in us!

The basis of our success has always been grounded in seeking proactive organizational change and technology development. In 2019, the newest brands in our global network, Maillefer, Brampton Engineering and Thermoforming Systems (TSL), were fully integrated into our organization. Each has added a new dimension to Davis-Standard's robust line of equipment and aftermarket services. Maillefer has delivered solutions and manufacturing configurations for automotive fuel and vapor recovery tubes, micro-drip irrigation laterals, heating and plumbing pipe, blown fiber micro-duct and more. With Gloucester Engineering and Brampton Engineering, customers with GEC Extrol control systems have an opportunity to upgrade their existing blown film control systems to ITALYCS® 5. Customers can also take advantage of the Vector® air ring to improve uncorrected film gauge (also called starting gauge) by as much as 60 to 80 percent. Through TSL, we offer outstanding thermoforming capabilities to support food and beverage packaging applications.

We made proactive moves at our subsidiaries in Germany and China. Our German subsidiary, ER-WE-PA GmbH, will focus on being the leader for aseptic packaging machinery within the Davis-Standard organization, while also offering winding systems (winding and unwinding), liquid and adhesive coating systems and aftermarket capabilities. The "Fit-4-Future" alignment will enable the company to leverage global resources and product expertise offered by Davis-Standard's global network while providing innovative solutions that support customer growth. At Davis-Standard (Suzhou) Plastic Packaging Machinery Co., Ltd, we added a 35,000 square-foot (3,251 square-meter) facility near our existing shop to house control panel assembly and provide warehousing. This has been instrumental in allowing us to support our growing extrusion coating business and long-term strategy in the region. We've been able to build more extrusion lines while supporting faster delivery.

In the area of technology, we augmented our "smart" options in the form of the DS Activ-Check™ system as well as the Maillefer Bluebox data strategy. DS Activ-Check enables processors to take advantage

of real-time preventative maintenance by receiving early notifications of possible machine failures via e-mail or text. Machine operators are alerted to issues before they happen, reducing unplanned downtime while also collecting valuable data. The Maillefer Bluebox is used for high-speed acquisition and storage from all levels. During K, Maillefer showed the implementation of a smart factory by taking data from various exhibits, including the stand itself, and correlating that data into informative dashboards. The real-time exhibit provided visitors with insight on how Industry 4.0 applies to specific manufacturing environments.

Our equipment continues to address efficiency and improved processing. The Model 3000A crosshead is an example, reducing scrap and allowing faster start-up times for smaller lots. Used primarily by hose manufacturers, the crosshead offers preferred features such as a tapered mandrel and highly engineered flow paths to ensure consistent flow through all speed ranges, as well as the ability to adjust wall thickness without interruption. Another example is the Series 510A extrusion coating die with a short lip design and edge bead reduction (EBR) functionality for applications ranging from laminating to packaging. The die's exchangeable lip is optimized for specific resin types and an internal rod provides edge bead reduction and leakage-free operation.

We also strive to offer multiple services to support product line performance in our aftermarket department. This includes die reconditioning, new feedscrews to improve outputs and material homogeneity, and control system upgrades to enhance digitalization and product changeover. Davis-Standard offers a full range of spare parts as well as feasibility studies to determine the potential of existing lines in terms of production increases, resin changes and product development. Several of our sales at K included upgrades to existing lines showing the value of our aftermarket services in offering cost-effective process improvement options.

As we begin a new year, please know that our slogan "Where your ideas take shape," will continue to hold true as we continue to deliver innovative solutions with a focus on sustainability. Together, we will make smart investments and informed decisions to deliver a productive and profitable 2020. As always, thank you for your business.

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