



NEWS FROM THE CUTTING EDGE

Helpful Tips From The Professionals At Hyde IBS

Summer is almost over (heavy sigh). But there was no rest for the weary as the engineers at Hyde and PDK Design and Grinding were busy launching a new line of products for the polymer processing industry. Some of us did get a chance to get out of the office and travel around the world only to happily meet up with one of our valued representatives overseas.

If you have a unique cutting application that consumed too much of your thinking time on the beach or by the lake this summer, e-mail us at info@hydeblades.com. We can help create new opportunities for your business today and in the future. Enjoy a leisurely drive through this issue of The Cutting Edge!

LEADING EDGE PRODUCT:

NEW UNDERWATER AND WATER-RING PELLETIZER KNIVES ENGINEERED TO CONSISTENTLY PRODUCE HIGH-QUALITY PLASTIC PELLETS

In the polymer processing industry, increased production and reduced downtime of hot melt pelletizing equipment are key factors in running a successful operation. New Underwater and Water-Ring Pelletizer Knives from PDK Design & Grinding, a division of Hyde Industrial Blade Solutions (IBS), are engineered to produce consistently-shaped spherical and tear-dropped shaped pellets over extended production runs for manufacturers.

Manufactured using premium grades of M2, D2 and CPM10V steel for superior overall performance and longer-life, PDK Underwater and Water-Ring Pelletizer Knives stand up to the toughest conditions. These knives are designed for easy blade changeovers, longer running times and lower maintenance costs in hot melt pelletizing operations. All knives are manufactured in the USA under the ISO 9001 registered system to ensure consistent quality and meet or exceed OEM specifications and tolerances.

Many common sizes of PDK Underwater Pelletizer and Water-Ring Knives are available in stock for quick delivery for Beringer, BKG, Econ, Erema, Dynisco, Gala, Xaloy and other brands of underwater pelletizers. PDK can also engineer and manufacture knives for a variety of other machines.

For more information, visit our website and download our brochure at: <http://www.industrialbladesandknives.com/markets/plastics-processing/>



COLD HARD STEEL FACT:

CRACK PROPAGATION CAN CREATE BUMPY ROADS

TRADE SHOW SCHEDULE

Visit us at these upcoming trade shows or conventions:

September 17–20, 2017

A-D ISD NAM National Meeting
(Industrial),
Grapevine, TX

September 19–22, 2017

Process Expo (Food
Processing),
Chicago, IL

September 27–30, 2017

NIBA/PTDA Joint Convention
(Belting/Fluid Power),
Hollywood, FL

October 8–10, 2017

NetPlus Alliance National Meeting
(Industrial),
Orlando, FL

January 8–10, 2018

Northwest Food Processors
Expo (Food Processing),
Portland, OR

January 30–February 1, 2018

Int'l Production and Processing
Expo (Food Processing),
Atlanta, GA

February 12–15, 2018

IDCO Group Tradeshow
(Hose/Belting),
Fort Worth, TX

March 11–13, 2018

Seafood Expo North America
(Food Processing),
Boston, MA



LEADING TO FATIGUE FAILURE IN STEEL

Fatigue in steel is the phenomenon where a part can break from cyclical application of stress or strain. The crack will start off very small, usually from a stress riser such as notch, sharp corner, or surface blemish. As the stress continues to cycle, the crack will grow a little bigger, usually in a radial pattern around the origin. This growth is known as crack propagation. The rate at which the crack grows will continue to increase, until a point is reached where the part can no longer hold together and fail.

A good example of this would be a chip in your windshield. This small flaw in the surface becomes the stress riser, and a crack will typically emerge from the origin after many miles of driving. The cyclical forces applied could be both mechanical and thermal, such as a bumpy road or hot days and cool nights. The crack grows a little bit, but you're not concerned just yet. Weeks pass when you notice it is now about two inches long. Then all of a sudden, the crack stretches across the whole windshield!

Fatigue failures can be prevented by careful control of raw materials, heat treatment, surface finish, and design elements. If you are experiencing product or blade or knife failures, contact our sales department at sales@hydetools for a no obligation consultation.



Our Solid Steel Offer:

Receive a refund if you are not satisfied with our product in the first 60 days!

[Request Information](#)



HAPPENINGS AT HYDE:

"IT'S A SMALL WORLD AFTER ALL, IT'S A SMALL WORLD AFTER ALL..."

We apologize in advance for putting that ear worm of a song in your head. But, we did want to share this story about one of our representatives who covers Indiana, Ohio and Kentucky for Hyde and his father.

While on vacation in Germany, a not-so-by-chance meeting occurred between Eric Pfeiffer, Hyde's Director of Sales and Marketing and Doug Ozolins of Tier2 Group and his father, Andy in Berlin. Doug and his dad were retracing the route his dad took as a 5-year old boy from Riga, Latvia to Wiesbaden, Germany prior to emigrating to the U.S. Andy captivated Eric and his guests with stories and history on his family's flight from the approaching Russian Army in the latter part of World War II.



Left to right: Hyde's Eric Pfeiffer, Doug and Andy Ozolins at Lutter & Wegner Restaurant, Alte Potsdamer Strasse 5, in Berlin, Germany.

Hyde Industrial Blade Solutions — Solutions You Can Count On!™



Hyde Tools, Inc. • 54 Eastford, Rd., Southbridge, MA 01550 • www.hydeblades.com
Ph: (800) 872-4933 or (508) 764-4344 x2205 • info@hydeblades.com