



ESSENTRA

PIPE PROTECTION
TECHNOLOGIES

TRIED.
TESTED.
TRUE.™





ESSENTIAL ENABLERS

Providing the most comprehensive range of thread protectors and pipe protection products to a number of end-markets, including oil and gas, mining and water well.

WHEN YOU CAN'T TAKE CHANCES, MAKE IT ESSENTRA

A THREAD PROTECTION RESOURCE THAT'S TRIED, TESTED AND TRUE. IT'S WHY YOU USE THREAD PROTECTION IN THE FIRST PLACE. AND IT'S THE MOST IMPORTANT REASON TO CHOOSE ESSENTRA PIPE PROTECTION TECHNOLOGIES.

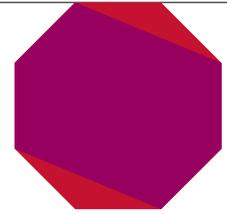
At Essentra, we offer thread protection products with a built-in bonus: peace of mind. That's something you won't find from any other thread protection resource out there.

Our specialty is manufacturing high-performance API, premium and custom thread protection for a complete range of OCTG, mining and water well applications. We utilize the most state-of-the-art, technologically advanced injection molding and CNC equipment in the

industry. Our materials range from proprietary resins to engineering grade thermoplastics and polymer alloys.

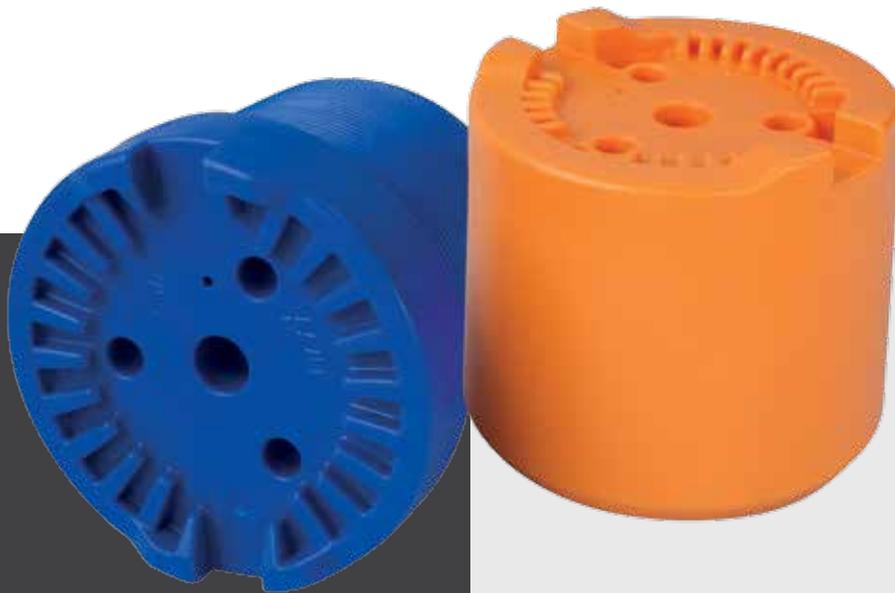
No doubt, Essentra offers the most extensive line of thread protectors for the energy industry – something we've supplied for more than three decades – but we also offer more: proof of performance.

Essentra thread protection products have been thoroughly tested and re-tested, often going above and beyond what the industry requires: this includes vibration, corrosion, impact, extreme temperatures and UV resistance.

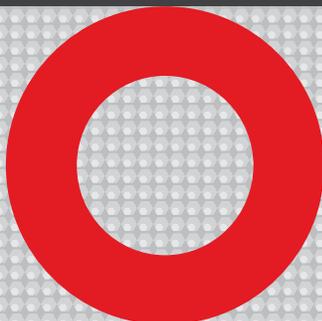


MAXX™

ANYONE CAN CLAIM IT.
MAXX™ CAN PROVE IT.



MAXX™ WAS
DESIGNED TO
WITHSTAND
ANYTHING THE
INDUSTRY CAN
DISH OUT



MAXX™ THREAD PROTECTORS ARE TESTED AND CERTIFIED TO MEET ALL COMBINATIONS OF THE API 5CT ANNEX I 9TH EDITION STANDARDS. RADICALLY EXTREME TEMPERATURES. EARTH CRUSHING IMPACT.

The MAXX™ can take it, and then some. The proof came in the form of stringent analysis and thorough testing.

MAXX™ NON-LIFTABLE

FEATURES AND BENEFITS

- API 5CT Annex I 9th Edition compliant
- Advanced plastic formulation, designed for durability and impact resistance
- Ribs on the top and bottom of the box diaphragm, designed to absorb and disperse the energy from impacts
- Diaphragm and pads designed to work in tandem to disperse potential impact
- Stiffeners on the bottom of the pins and ribs on the top, designed to maintain the stability of the diaphragm while also absorbing and dispersing the energy from impact
- Spanner holes allow the operator to safely install and remove 9 sizes of boxes or pins using limited installation tools
- Auxiliary installation / removal feature is designed to be used with commonly found tools on a rig site
- Designed for extreme weather conditions; tested from -50° to 150° F (-46° to 66° C)
- Available for API connections only
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Casing: 4-½", 5-½", 7" and 9-⅝"
all API thread types



**EASE OF LIFTING
ONTO RIG
FLOORS &
PIPE MOVEMENT
AT WELL SITES**

MaxX™ LIFTABLE

FEATURES AND BENEFITS

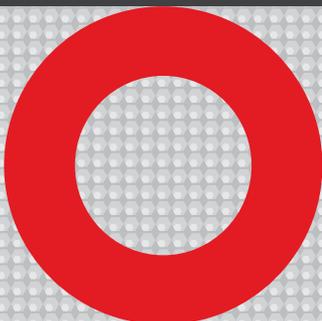
- API 5CT Annex I 9th Edition compliant
- Advanced plastic formulation, designed for durability and impact resistance
- Increased pad height and thickness for added durability
- Closed-end recessed liftable design for easy handling
- Designed for extreme weather conditions; tested from -50° to 150° F (-46° to 66° C)
- Available for API connections only
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 2-³/₈" through 3-¹/₂" EUE

Casing: 4-¹/₂" through 13-³/₈"

all API thread types





MEGA™

WHEN YOU NEED STEEL / PLASTIC PROTECTION



**A PROPRIETARY
BLEND OF PLASTICS
FOR CORROSION
RESISTANCE
AND STEEL FOR
ULTIMATE IMPACT
RESISTANCE**

Mega™ thread protectors offer a two-fold advantage: a proprietary blend of plastics for corrosion resistance and steel for ultimate impact resistance. To ensure the best match of protector for your pipe, Essentra will CNC cut to custom fit your thread.

FEATURES AND BENEFITS

- Designed for long-term thread protection
- High reliability thread protection
- Made from HDPE resins and heavy gauge steel, to ensure rugged impact resistance
- Closed-end liftable design for easy handling
- Precision cut threads for sure fit
- Designed for extreme weather conditions; tested from -50° to 150° F (-46° to 66° C)
- Ideal for large OD and offshore applications

APPLICATIONS

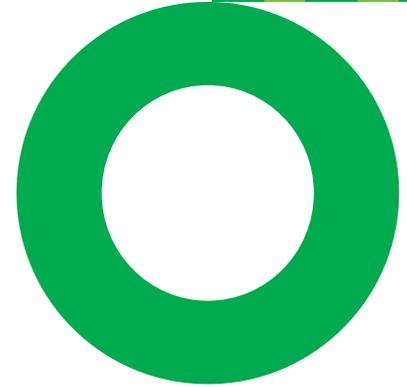
Casing: 6-5/8" through 20"
API and premium connections

ULTRA®

IDEAL FOR PREMIUM CONNECTIONS



**PREMIUM
PROTECTORS
FEATURE CNC
MACHINED
THREADS FOR
AN EXACT FIT**



Ultra® premium protectors feature CNC machined threads for an exact fit, reducing the chance of corrosion and eliminating backing off during storage or handling. Offering enhanced impact strength, Ultra thread protectors are formulated from all-plastic composite resins.

FEATURES AND BENEFITS

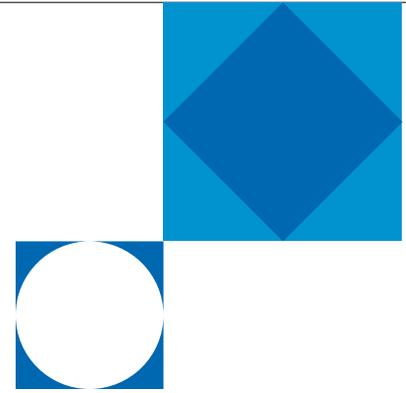
- Designed for premium threads where a high level of impact protection and sealing ability is required
- CNC cut threads for precision fit
- Hot-stamped; permanent ID for thread type / part number; no stick-on labels required
- Closed-end recessed liftable designs for easy handling
- Designed for extreme weather conditions; tested from -50° to 150° F (-46° to 66° C)
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 2-³/₈" through 4-¹/₂"
Casing: 4-¹/₂" through 11-⁷/₈"

MAGNUM[®]

HEAVY DUTY PROTECTION



**OUTSTANDING
THREAD
PROTECTION**

Magnum's[®] solid plastic thread protectors' heavy-duty design delivers outstanding thread protection for a wide range of tubular goods.

FEATURES AND BENEFITS

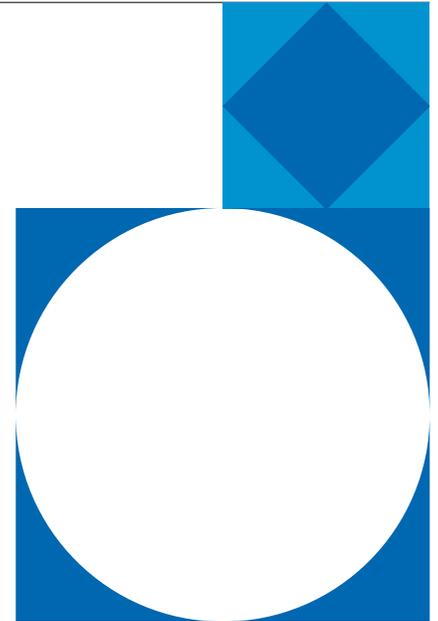
- Designed for effective thread protection with all grades of pipe, including alloy grade
- Reliable thread impact protection and sealing abilities for long-term storage and handling requirements
- Significant savings compared to composite designs
- Casing sizes available in recessed liftable designs
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 2-³/₈" through 4-¹/₂" NUE and EUE
Casing: 4-¹/₂" through 13-³/₈"
all API thread types

TITAN[®]

DURABLE VALUE



RUGGED
CONSTRUCTION,
GREAT VALUE

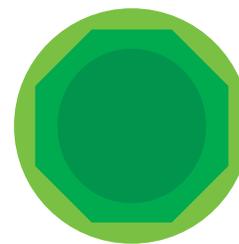
The Titan's[®] rugged construction provides superior thread protection and durability, making it the best value in thread protection.

FEATURES AND BENEFITS

- Maximum corrosion protection
- Casing sizes available in closed-end liftable and non-liftable
- Ideal for long-term coverage
- Effective for API applications
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 2-³/₈" through 3-¹/₂" NUE and EUE
Casing: 4-¹/₂" through 13-³/₈"
all API thread types



TECTOR®

ESSENTRA'S MOST ECONOMICAL THREAD PROTECTOR



TECTOR®

COST EFFECTIVE PROTECTION

Designed specifically for environmental protection only, Tector® is Essentra's most economical thread protector, providing complete coverage of the thread area.

FEATURES AND BENEFITS

- Provides for economical protection from environmental elements
- Ideal for short-term storage
- Lightweight for reduced freight costs
- Available in open- and closed-end designs
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 1" through 4-1/2" NUE and EUE
 Casing: 4-1/2" through 13-3/8" all API thread types

TECTOR PLUS®

DESIGNED FOR CANADA

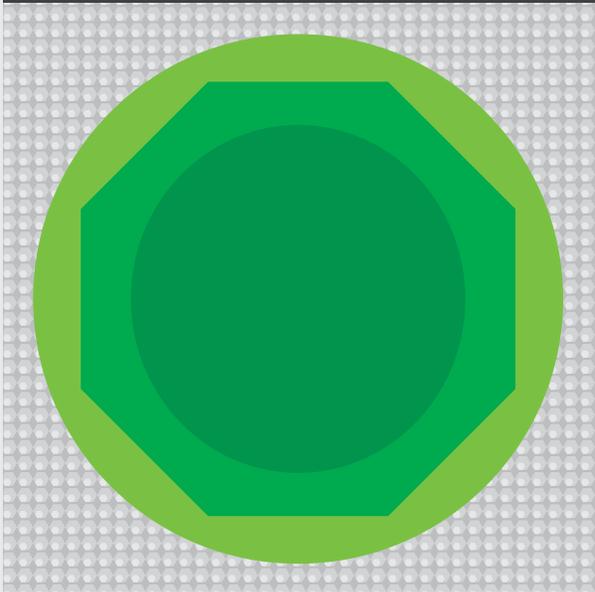
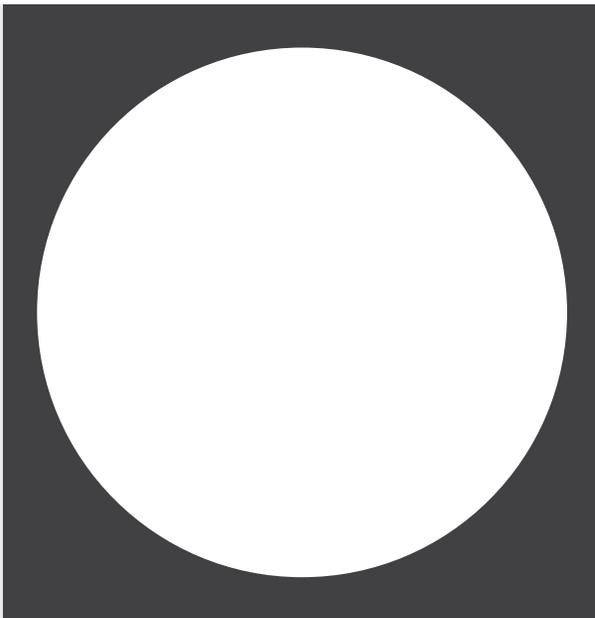
Our Tector Plus® series offers all the benefits of the Tector, plus more: the added advantage of a heavier design.

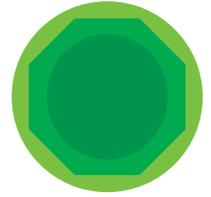
FEATURES AND BENEFITS

- Slightly heavier than Tector to meet Canadian requirements
- Provides for economical protection from environmental elements
- Ideal for short-term storage
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Tubing: 2-3/8" through 3-1/2" EUE
 Casing: 4-1/2" through 9-5/8" STC and LTC





DRILL PIPE PROTECTORS PROTECTION FOR ALL APPLICATIONS

WHEN YOU CAN'T TAKE CHANCES, ESSENTRA HAS YOU COMPLETELY COVERED WITH OUR API AND PREMIUM LINE OF DRILL PIPE PROTECTORS. OUR LIGHTWEIGHT PLASTIC, HEAVY-DUTY PLASTIC, AND ALL-STEEL MODELS ARE ENGINEERED TO COVER THE ENTIRE THREAD FORM AND SEAL AREA ON BOTH INTERNAL AND EXTERNAL DRILL PIPE THREADS.



STEEL DRILL PIPE PROTECTORS

FEATURES AND BENEFITS

- Uncompromising, heavy-duty protection of the entire thread form
- Provides protection even in extreme weather
- Extra-heavy steel construction
- Thread form and size permanently stamped on part
- Easy installation and removal
- Available in both API and Premium
- CNC precision cut threads

APPLICATIONS

Drill pipe: 2-3/8" through 7-5/8"



HEAVY-DUTY PLASTIC DRILL PIPE PROTECTORS

FEATURES AND BENEFITS

- Complete coverage of entire thread form and seal area on both internal and external threads
- Ideal for all grades of pipe, especially alloy grade
- Rugged thread impact protection and sealing abilities
- Performs in long-term storage and handling situations
- Available in both API and Premium
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Drill pipe: 2-3/8" through 7-5/8"

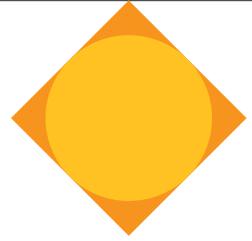
LIGHTWEIGHT PLASTIC DRILL PIPE PROTECTORS

FEATURES AND BENEFITS

- Designed for environmental protection
- Short-term applications only
- Can be used for API applications
- Made from HDPE resins
- 100% recyclable

APPLICATIONS

Drill pipe: 2-3/8" through 7-5/8"



CUSTOM THREAD PROTECTORS WHEN ONE SIZE DOESN'T FIT ALL

Essentra's capabilities extend to the manufacturing of proprietary and custom injection-molded products, engineered and designed to your exact specifications.

We specialize in producing high-performance parts from commodity resins as well as engineering-grade thermoplastics and polymer alloys.

Our large-capacity presses are equipped with state-of-the-art C-level controls for cycle consistency. The entire Essentra team, from management to skilled technician, are equipped with a passion for the product, helping to ensure you receive the thread protection product you want, custom-designed for your application.



LINE PIPE PROTECTORS DURABLE PROTECTION. PLAIN AND SIMPLE.

Our line pipe protector series is designed to protect both beveled and plain-end pipe, in your choice of liftable and non-liftable closed-end models.

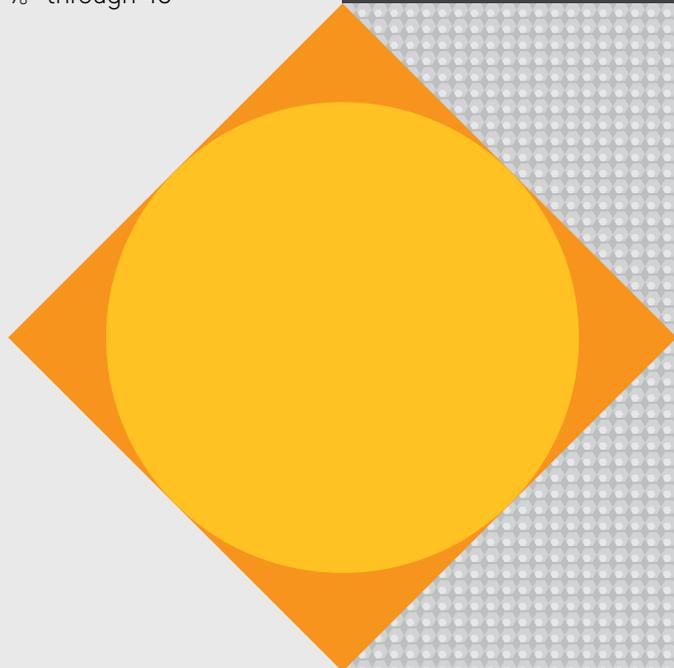
FEATURES AND BENEFITS

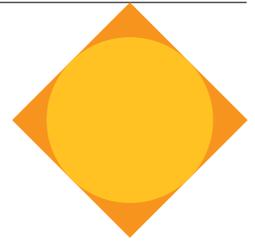
- Complete protection for bevel- and plain-end pipe
- Easy to use
- Cost efficient
- Available in open- and closed-end designs
- 100% recyclable

APPLICATIONS

Line pipe: 2-3/8" through 48"

**PRODUCTS
TO COVER ALL
REQUIREMENTS**





ECO PROTECTOR ECOLOGICAL AND ECONOMICAL

The Eco version of our Titan protector is manufactured using qualified reprocessed resin, thus assuring our customers the highest quality, most ecological friendly and most competitively priced product available in today's market.

The Eco offers the robust durability of our heavy duty all-plastic Titan thread protector manufactured with qualified reprocessed resin, eliminating any environmental concerns associated with disposal of resins into landfills.

Available in black only, the Eco protector is manufactured to the same high standards as all Essentra's products and comes with our standard product warranty for new thread protectors.

FEATURES AND BENEFITS

- Made from qualified reprocessed HDPE resin
- Ecologically friendly
- API applications
- Ideal for long term coverage
- Available in black only
- 100% recyclable

APPLICATIONS

Tubing: 2-3/8 through 3-1/2 NUE and EUE
Casing: 4-1/2 through 13-3/8
all API thread types

RECONDITIONED PROTECTORS YOUR SUPPLIER OF QUALITY RECONDITIONED PROTECTORS

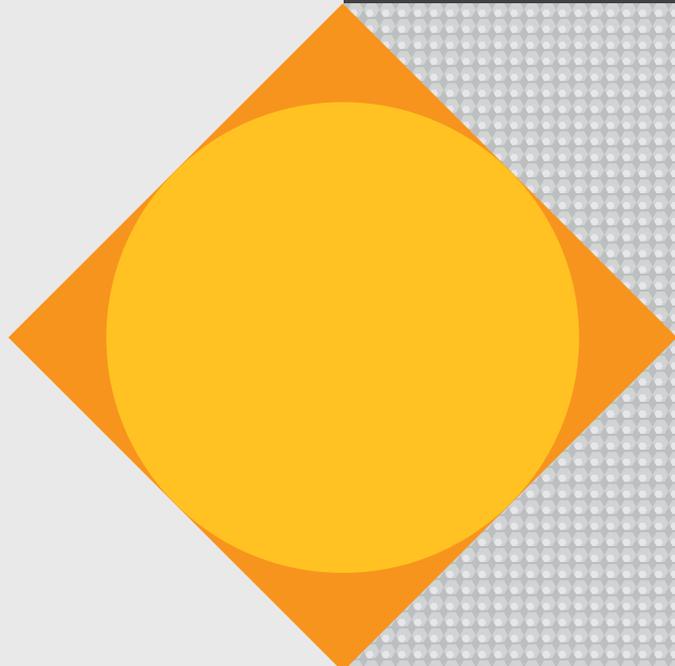
FEATURES AND BENEFITS

- Plastic and composite options available
- Quality guaranteed
- API and Premium applications
- Heavy and extra heavy duty product lines only
- Sorted by color upon request

APPLICATIONS

Tubing: 2-3/8 through 3-1/2 NUE and EUE
Casing: 4-1/2 through 13-3/8
all thread types

**HIGH QUALITY
AT A GREAT
PRICE, ALONG
WITH EXCELLENT
ENVIRONMENTAL
CREDENTIALS**



RHINO® TUBULAR HANDLING SYSTEMS

UNMATCHED SAFETY IN PIPE HANDLING



Proven for more than 31 years, Rhino® Tubular Handling System is designed to provide a safe, efficient, cost-effective and easy-to-use method of transportation for tubular products worldwide.

The Rhino exceeds existing pipe handling specifications, ensuring maximum safety for handling crew, the transporter and the general public. It can be modified to accommodate any combination of tubular goods including accessories fitted to the pipe prior to transit. It also increases shipping flexibility to accommodate a variety of pipe sizes.

FEATURES AND BENEFITS

- Simple to stack, eliminates metal-to-metal contact and allows high-density stacking
- Ideal for high-chrome alloy casing and tubing
- Meets all major operators pipe-handling recommendations for protecting personnel, pipe and transportation equipment
- Designed with lifting eyes to facilitate a variety of handling or loading, including truck, rail, ship and offshore transport
- Premium materials and construction ensure years of service
- Designed to lift and handle loads with a large safety margin
- Unlimited storage options and maximum storage room
- Rental options available

APPLICATIONS

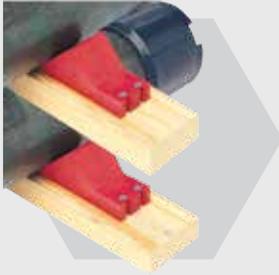
Accommodates a variety of pipe sizes. Manufactured to meet 17,637 lbs. (8 metric tons) or 26,450 lbs. (12 metric tons) lifting capacity

EASY-TO-USE METHOD OF TRANSPORTATION



ACCESSORIES

CLEAN IT. MOVE IT. STORE IT. GUIDE IT.



PIPE CHOCKS*

Molded from durable HDPE resin with a nail slot design, Essentra pipe chocks help keep your pipe safe and secure.

* Nails not included



BUMPER RINGS

Ideal for use on chrome and high alloy tubular goods, Essentra bumper rings are an easy way to keep pipe carefully separated during processing, handling and storage.



SHOP TOWELS & RAGS

The economical choice for wiping, polishing, and general purpose cleaning. Our shop towels are new, washed, materials including 100% white cotton in addition to mixed-color and white knits. All of our cost-effective options are offered in convenient 20 lb. and 45 lb. boxes.



STABBING GUIDES

Designed to prevent damage during make up, rugged Essentra stabbing guides are manufactured from high-grade steel and durable urethane material, then molded to a profile designed to act as a funnel guide. Models are available for tubing, casing and drill pipe, and in your choice of heavy duty, standard-duty or mag-latch configurations.

KEY

1. Heavy duty stabbing guide
2. Mag-latch stabbing guide
3. Standard-duty stabbing guide

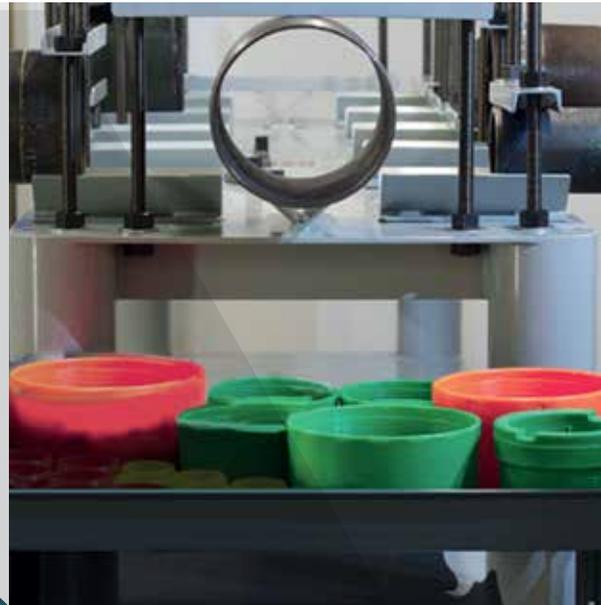
QUALITY PROCESSES AND CERTIFICATIONS

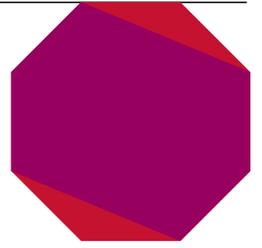
Consistently providing high quality products, and achieving the highest level of customer satisfaction possible: lofty goals for any organization, but this is what we strive for every day at Essentra.

To that end, we have developed internal processes that help ensure not only the quality of our products, but also the health and safety of our team members, the conservation of natural resources and the prevention of environmental pollution.

The Essentra Management System is based on and certified to ISO Standards; ISO 9001:2000 for quality, OHSAS 18001 for health and safety, and ISO 14001 for the environment.

At Essentra, we work toward continued improvement of products and processes throughout the entire company. This is reflected in our multi-use, 136,000 square-foot facility, home to headquarters offices, production operations and warehousing.





ESSENTRA'S COMMITMENT TO THE INDUSTRY

We are the global market leader in Oil Country Tubular Goods thread protectors and pipe protection products, manufacturing the most extensive range of thread protectors with the highest quality standards in the industry.

Headquartered in Houston, with over 30 years in business and more than 200 employees worldwide, Essentra Pipe Protection Technologies serves global customers from Nisku, Canada; Veracruz, Mexico; Aberdeen, UK and a worldwide distributor network. Essentra Pipe Protection Technologies forms the part of Component & Protection Solutions division of Essentra plc.

Since our inception in 1980 – and through focusing on leadership, reliability, stability and dependability – we have delivered annual revenue growth.

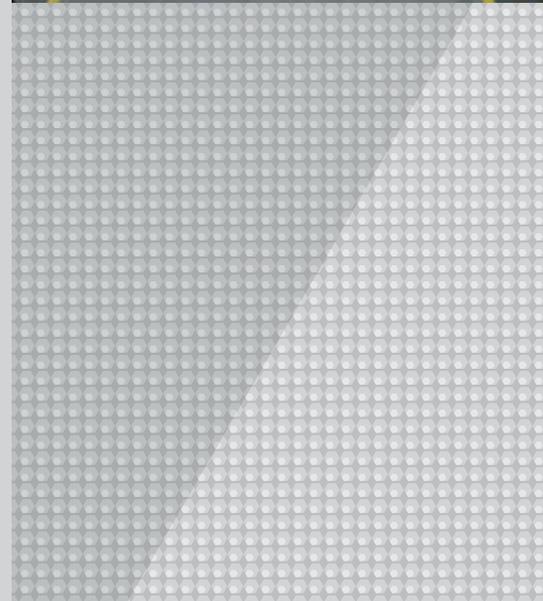
OUR FACILITY

Our recently-built 136,000 square-foot facility – which now incorporates headquarters offices, production operations and warehousing in a single site – is double the size of our previous location, and allows increased efficiencies and better work flow to provide customers with a superior service. The expanded Essentra Pipe Protection Technologies facility features larger injection press capacity machines and high cavitation mold bases, with additional tooling capabilities increasing production rates.

OUR PLEDGE

The Essentra Pipe Protection Technologies standard of performance:

- Industry or custom design parameters
- Production capacity to meet any size job
- Financial strength to meet all requirements
- On-time delivery
- Partnerships built on trust, experience, leadership and reliability



ABOUT ESSENTRA

ESSENTRA PLC IS A FTSE 250 COMPANY AND A LEADING INTERNATIONAL SUPPLIER OF SPECIALITY PLASTIC, FIBER, FOAM AND PACKAGING PRODUCTS. THROUGH ITS FOUR PRINCIPAL OPERATING DIVISIONS, ESSENTRA FOCUSES ON THE LIGHT MANUFACTURE AND DISTRIBUTION OF HIGH-VOLUME, ESSENTIAL COMPONENTS THAT SERVE CUSTOMERS IN A WIDE VARIETY OF EN-MARKETS AND GEOGRAPHIES.

COMPONENT & PROTECTION SOLUTIONS

The Components business is a global market leading manufacturer and distributor of plastic injection molded, vinyl dip molded and metal items. Operating units in 25 countries serve a very broad industrial base of customers with a rapid supply of primarily plastic products for a variety of applications in industries such as hydraulics, pneumatics, electrical controls and construction.

POROUS TECHNOLOGIES

A global market leading developer and manufacturer of custom fluid handling components, engineered from a portfolio of technologies that includes bonded and non-woven fiber, polyurethane foam and porous plastic. Representing leading innovations used in healthcare, consumer and industrial applications, its enabling components are found in a wide range of products from medical diagnostics tests to advanced wound care pads, inkjet printer cartridges, writing instruments, clean room wipes and air fresheners. Customers in over 56 countries are served from six manufacturing facilities with research and development centres supporting the division globally.

PACKAGING & SECURING SOLUTIONS

A leading global provider of packaging and securing solutions to a diversified blue-chip customer base. With a focus on delivering value adding innovation, quality and service to customers through a range of cartons, tapes, leaflets, foils and labels for the healthcare, consumer and specialist packaging, point of sale and paper & board industries. The division is also a leading supplier of authentication technologies and identity solutions. Customers in over 100 countries are served from facilities operating in eight countries.

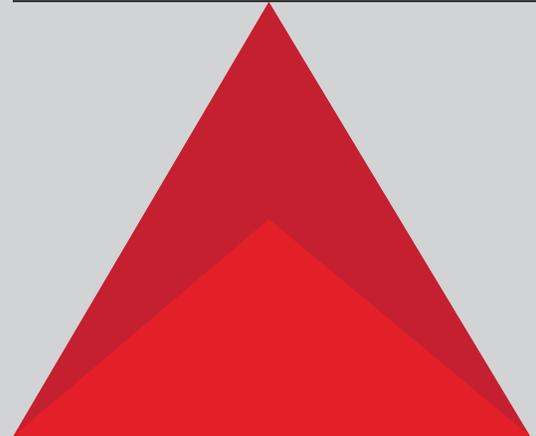
FILTER PRODUCTS

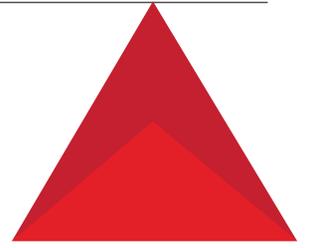
The only global independent cigarette filter supplier. The nine worldwide locations, including a UK-based research facility and three regional development centers provide a flexible infrastructure strategically positioned to serve the tobacco industry. The division supplies a wide range of value adding high quality innovative filters, packaging solutions to the roll your own sector and analytical laboratory services for ingredient measurement for the industry.

**5,700
EMPLOYEES**

**32
COUNTRIES**

**5
R&D CENTERS**

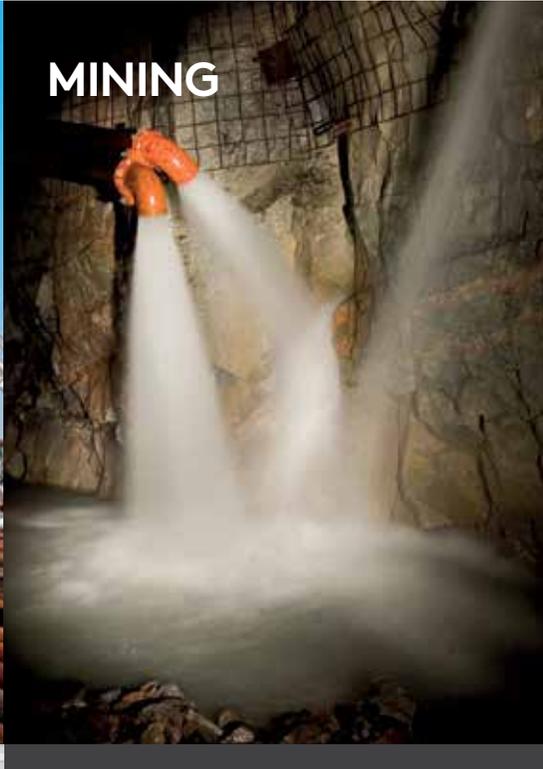




OIL & GAS



MINING



WATER WELL



THE ESSENTIAL ENABLERS

**We believe that our small components make
a big difference.**

All sales are subject to Essentra Pipe Protection Technologies terms and conditions of sale, which are available at www.essentrapipeprotection.com
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ESSENTRA

PIPE PROTECTION
TECHNOLOGIES

WHERE YOU WILL FIND US

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-  Corporate headquarters
-  Company facilities
-  Distributor Locations

