

THE NEW MTCAT-1.5 CONING & THREADING MACHINE JOINS THE RELIABLE MTCAT

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Coned and threaded connections are a safe and reliable option for medium, high, and ultra-high-pressure tubing, offering a secure fit and the durability to withstand extreme process conditions. At MAXPRO®, we are proud to offer a patented, reliable, industry-leading line of coning and threading machines to simplify the coning and threading process.

The new MTCAT-1.5 Coning & Threading Machine is patent pending, CE mark pending and is the only coning and threading machine on the market capable of coning and threading up to 1-1/2" OD medium pressure tubing. Model MTCAT is patented, and CE marked and cones and threads 1/4" OD through 1" OD medium and high-pressure tubing. Both models are dedicated, semi-automatic, safe, and easy-to-use.

How Can My Company Benefit from a Coning & Threading Machine?

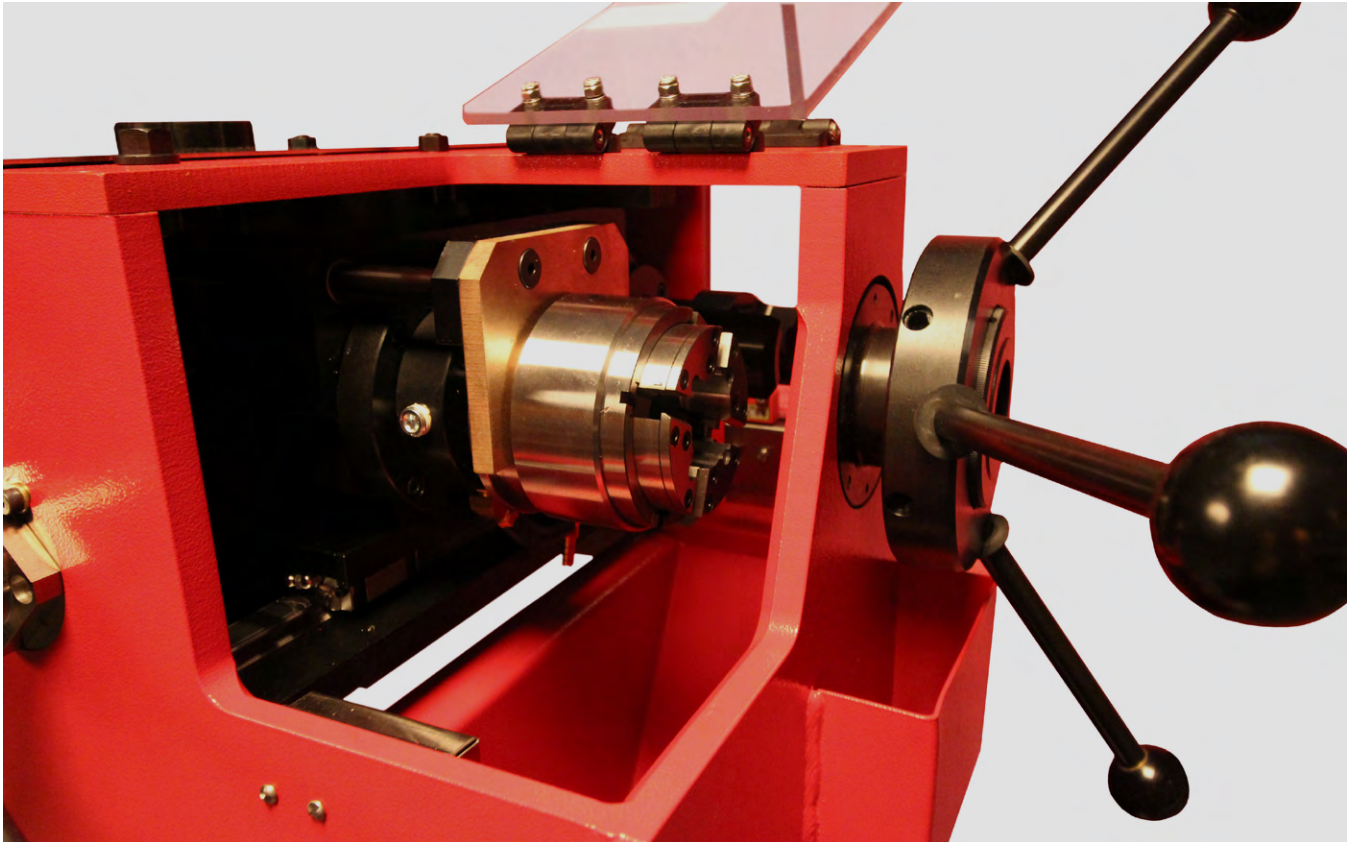
Coned and threaded connections offer many key benefits for high-pressure applications. Systems in the oil and gas, pressure testing, waterjet cutting, hydrogen refueling, hot and cold isostatic pressing, and food processing industries are examples of processes utilizing coned and threaded connections. In these settings with severe duty environments, coned and threaded connections are dependable, can be reused repeatedly and include integral safety features. The standard weep hole provides visual indication of a leak and prevents over pressurization of the fitting.

Coned and threaded connections are safe and reliable, but the coning and threading process can be labor-intensive, especially for thick-walled, high-pressure tubing. To use manual coning and threading tools properly, operators must be specifically trained on how to secure and process the ends of the tubing. The coning and threading machine offered by MAXPRO Technologies makes it much faster and more convenient to cone and thread this type of high strength tubing. Operators can easily prepare the tubing and perform the simple prescribed actions. Since processing proceeds smoothly from coning to threading, these machines eliminate much of the set-up involved in manual coning and threading or the use of other machines. This helps shorten down time for maintenance, speeds the production process and reduces the potential for errors.

When compared to hand tooling, semi-automated coning and threading machines offer more convenience with easier operation and increased versatility. Both MTCAT and MTCAT-1.5 machines can handle tubing that is too large (typically tubing greater than 9/16" OD) to cone and thread using standard hand tools. With a coning and threading machine from MAXPRO, it becomes fast and simple to produce coned and threaded tubing end preparations.

These benefits make coning and threading machines an indispensable tool for companies that work with high-pressure applications, offering excellent return on investment and quality-of-life improvements for employees.





How Does a Coning & Threading Machine Work?

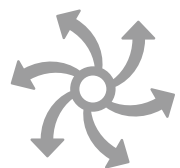
To understand how coning and threading machines work, it is important to first understand how the process works with hand tools. To cone a tube, a technician secures the tube within a collet chuck and adds oil to the cutting blades. Then they advance the tube into the coning tool while turning a handle to rotate the cutting blades to cone and face the tube. Specialized threading tools allow the operator to then add threads to the coned tubing by rotating a threading die onto the tubing.

A coning and threading machine performs these steps with powered tooling, greatly reducing the amount of work required to machine a coned and threaded connection. After tooling set-up, the operator must only load a piece of tubing into the machine, select the tube size with a dial, then begin coning and threading with a simple lever mechanism. The device automatically machines the end of the tube to create the appropriate taper, then determines and cuts the appropriate thread length based on the tube size selected. With this semi-automated machine, consistent results are produced with less effort, less time, and less training.

New Features of MAXPRO's Coning & Threading Machine

Both MAXPRO coning and threading machines offer intuitive operation and yield clean results. For the first time, the new MTCAT-1.5 MAXPRO Coning & Threading Machine offers these benefits to 1-1/2-inch outer diameter (OD) medium-pressure tubing. Both the MTCAT and MTCAT-1.5 Coning and Threading Machines offer quality features:

- **Speed:** MAXPRO semi-automated machines offer fast and reliable operation. They also speed set-up and improve efficiency in other ways. For instance, these machines perform both coning and threading operations by fixturing the tube once, meaning there is no extra set-up and downtime between the two processes. Similarly, the die head resets itself automatically after retraction from threading and is then ready for the next tube.
- **Ease-of-Use:** MAXPRO machines dramatically simplify the threading process. One of the main control mechanisms is a simple selector knob, which allows the operator to set thread length automatically based on the tubing size. MAXPRO machines are designed to be completely intuitive so after brief training, the operator can get to work quickly and produce quality results.
- **Versatility:** Both MTCAT and MTCAT-1.5 Coning and Threading Machines are available in both Left Hand Thread & Right Hand Thread versions, and MTCAT-1.5 accommodates a tubing size that other machines cannot. The MTCAT-1.5 is capable of coning and threading tubes ranging from 1/4" to 1-1/2" OD for both medium and high-pressure tubing. MTCAT is capable of coning and threading 1/4" OD through 1" OD medium and high-pressure tubing. Custom metric tubing can be produced. Since the tube does not rotate during the process, pre-bent tubes are not a problem!



- **Tool Quality:** The MAXPRO coning and threading machines features hardened blades made from durable, high-quality tool steel. Typically, these blades achieve precise results with a clean surface finish over hundreds of tubes.
- **Safety:** With fully-enclosed Plexiglass shields, pinch points are minimized and the operator is protected from oil and metal chips.
- **Mess-Free:** Coning and threading machines filter cutting oil before returning it to the generously sized reservoir and chip collection bucket, reducing the likelihood of spills and leaks. A locking lid allows for secure, no-mess shipping and easy clean-up after production.



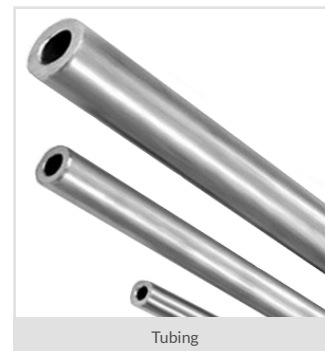
These improvements offer significant advantages over hand tools and lathes and set MAXPRO equipment apart from competing coning and threading machines.

Put MAXPRO's Coning and Threading Machines to Work For You

MAXPRO has been innovating equipment and fittings for high-pressure applications for 25 years. The MTCAT-1.5 is the latest in our [catalog](#) of industry-leading tools for coning and threading. To learn more about how the MTCAT-1.5 improves on the industry's best coning and threading machines, [contact](#) MAXPRO today.

Other Quality Products & Services from Maxpro Technologies®

- Maxpro stocks tubing:
 - 1/4", 3/8", 9/16", 3/4" 1" & 1-1/2" Medium Pressure Stainless Tubing up to 22,500 psi
 - 1/4", 3/8" & 9/16" High Pressure Stainless Tubing up to 65,000 psi
 - 1/4", 3/8" & 9/16" Ultra High Pressure HP160 Tubing up to 101,000 psi
 - 5/16" Ultra High Pressure Stainless Tubing up to 152,000 psi
- Maxpro stocks an assortment of valves and fittings for Medium, High and Ultra High Pressure ranges.
- Air Amplifiers & Systems - Maximator® Air Amplifiers are designed to boost plant air pressure or increase the supply pressure when the available working pressure is insufficient. Maxpro® stocks a full line of air amplifiers for pressures from 30 to 4350 psi. We also offer a selection of stock and custom-designed systems to meet your specific requirements.
- Gas Boosters & Systems - Maximator® Gas Boosters are an excellent alternative to high pressure stationary compressors. They are compact, light weight and do not use electricity. Maxpro® offers a full line of gas boosters for pressures up to 36,000 psi for most gases and up to 5,000 psi for oxygen. We also carry stock and custom-designed systems to meet your specific requirements.
- Maximator high efficiency liquid pumps from 60 to 101,000 psi are available for oil or oil/water service, water or oil service and chemical service. Maxpro also offers selection of standard and custom-designed power packs, test carts, pump skids and test benches to meet your specific requirements.



About Us

MAXPRO® Technologies Inc. was founded in December of 1995 to serve as the exclusive North American distributor for quality Maximator® products. High-pressure air driven liquid pumps, gas boosters and air amplifiers along with high-pressure valves, fittings, and tubing make up our core product line. Our mission is to provide competitively priced, high-quality products backed by excellent customer service.

Our employees are our greatest asset. With more than 250 years of collective experience in high pressure, our employees are passionate about finding the best solution for your high-pressure requirements.

We stock a full range of standard high-pressure air driven liquid pumps, air amplifiers, gas boosters, and valves, fittings, and tubing for quick shipment. If we do not have a standard product or system to meet your requirements, our talented engineers will gladly design a custom solution.

We have extensive experience taking your ideas and making them reality utilizing quality power products from Maximator® GmbH.

To better serve our customers, we recently completed an extensive addition to our Fairview, PA location. Our MAXPRO® South locations in Humble, TX, and Lafayette, LA stand ready to serve customers in Texas and Louisiana.

Please contact us today to discuss your high-pressure requirements.

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