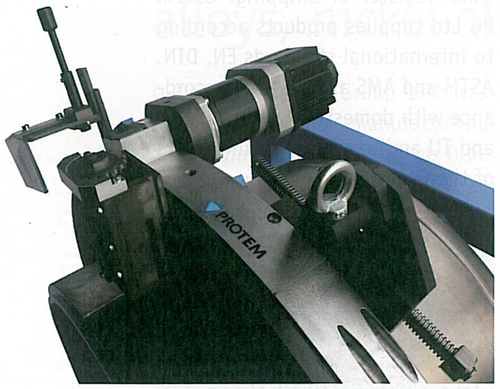


Brushless Motor on an orbital cutting and beveling machine Protem TT

Protem SAS

Brushless motor for Protem US-Series

The brushless motor technology

Protem has implemented the brushless motor technology on their US (portable beveling machines) and TT machines (orbital pipe cutting & beveling machines).

The brushless motors offer numerous advantages. Compared to classical DC motors, the brushless motors are light and compact. It is a significant benefit for machines mainly used on-site and very often in harsh environments.

Numerous advantages

The lifetime of these motors is drastically extented, they last in average four times longer than DC motors.

Among the many advantages offered by such brushless motors, we might highlight the absence of possible frictions. Besides this, the mechanical wear is almost non-existent. Consequently, the reliability of the equipment is greatly improved.

The electrical efficiency is higher than what a DC motor is able to provide. Moreover, the thermal heating of a brushless motor is very low compared to a traditional motor.

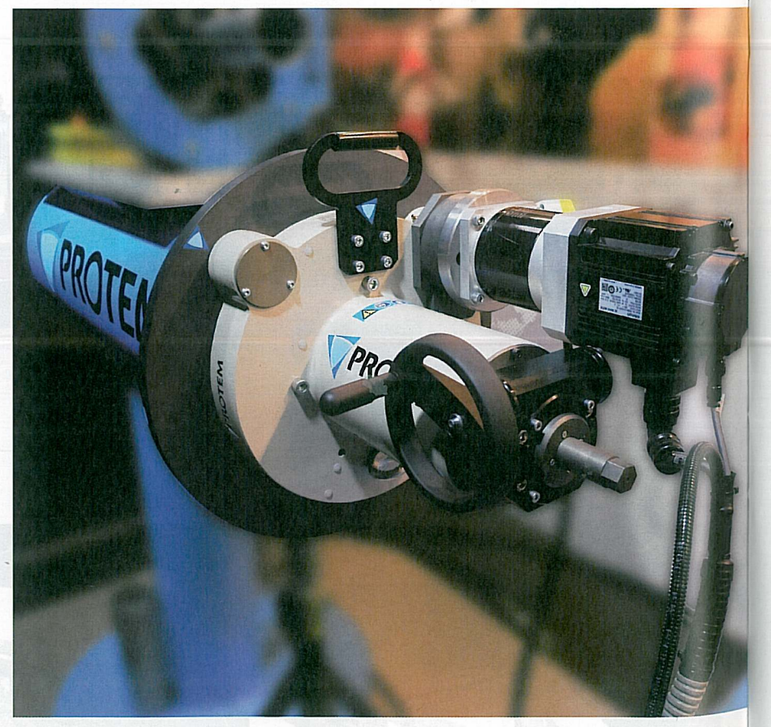
Powerful, light & reliable

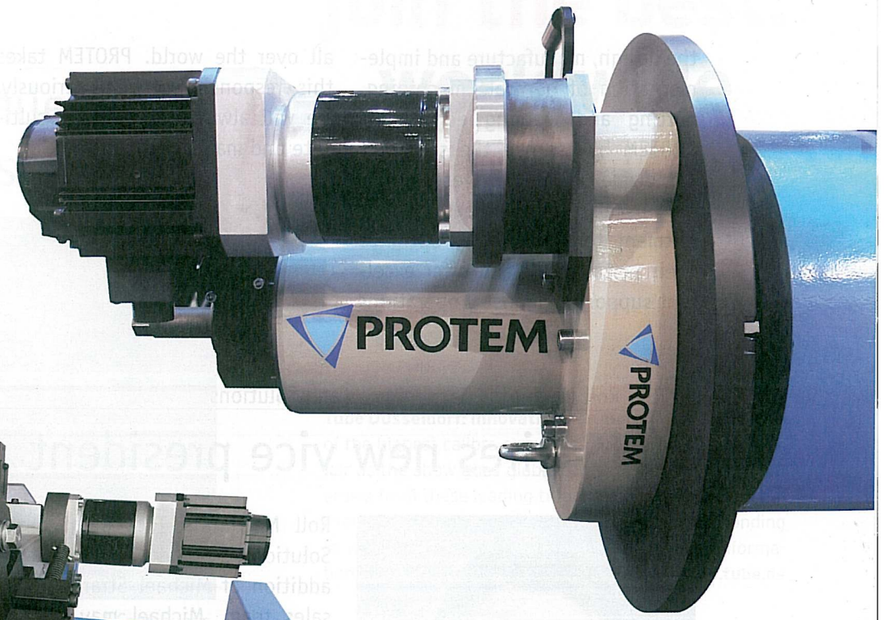
The speed adjustment is far smoother and the torque stays constant during the use of the motor (no modification is needed for the input voltage)

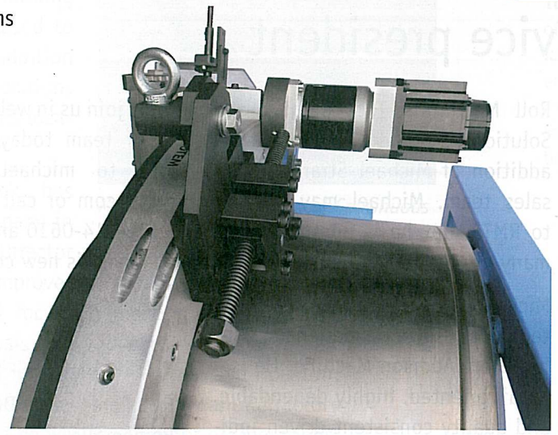
Lastly, the brushless motor is not vibrating, and the low noise level of the running motor guarantees a positive ergonomic experience for the operators using the equipment.

Advantages:

- Light weight and compact design
- Long service life and reliability
- Optimal electrical efficiency
- Low thermal heating
- Low noise level
- No vibrations







Brushless Motor on a beveling machine PROTEM US

Protem SAS

New sales and solutions engineer at Protem USA

PROTEM USA has hired Eva Anderson as their new Sales and Solutions Engineer. Eva will be serving PROTEM'S customers in North and South America. As a recent graduate in Petroleum Engineering from the University of Kansas, she will be working to maintain and expand PROTEM'S presence in the United States, Canada, Central and South America. She will support our current American customers and distributors, as well as, prospect for and connect with new business contacts.

Before working for PROTEM, Eva was a Wireline Field Engineer with Halliburton in Fort Lupton, CO where she developed her Customer Service, Planning and Communication abilities, and increased her troubleshooting skills. She was also an intern at Chesapeake Energy in Canton, OH and Oklahoma City, OK where she developed her knowledge of Petroleum Engineering and learned more about all aspects of the Upstream Oil and Gas industry.

Eva will utilize the full resources of PROTEM's extensive global expertise to provide solutions for our customers that improve the quality of their cutting and beveling operations, as well as being able to increase their efficiency and productivity through the use of PROTEM machines.

Eva is looking forward to meeting with our customers to understand their project specifications in order to anticipate their needs and draw on PROTEM's expertise to meet their quality, capability and reliability requirements. PROTEM's strength has long been its flexibility, responsiveness and ability to adapt to meet their customer's needs.

PROTEM is a strategic partner with many major companies, in a variety of industries, across the globe, in