TZB Turbine motors

Boost your productivity and save energy
The TZB is geared for high torque applications and capable of maintaining stable speed under load. A turbine motor that brings innovation and efficiency in tough applications.

**Features and benefits**
- High efficiency
- Governor for speed control
- Lube free
- Low noise level
- Power to weight ratio
- Long service life
- ATEX certified

**Values for segment**
- Energy saving
- Stable speed under load
- Clean emissions
- Operator comfort
- Lightweight and compact
- Durability
- Safe in explosive environments
Turbine motor for energy saving

Boost your productivity and save energy with turbine technology

- Power from 1 l/s at 6.3 bar
- 2.3 KW
- * 40% more efficient
- Low friction
- Stable speed under load

* Efficiency gain

- Vane motor
- TZB

* 40%
## TZB 25 - 1” Output shaft

### Dimensional drawings

![Dimensional drawings](image)

### Technical data at a pressure of 6.3 bar (91 psi)

<table>
<thead>
<tr>
<th>Model</th>
<th>Max output kW</th>
<th>hp</th>
<th>Speed at max output rpm</th>
<th>Torque at max output Nm</th>
<th>lb-ft</th>
<th>Min starting torque Stall torque Nm</th>
<th>Stall torque lb-ft</th>
<th>Free speed rpm</th>
<th>Air consumption at max output l/s</th>
<th>cfm</th>
<th>Weight kg</th>
<th>lb</th>
<th>Shaft loading code</th>
<th>Ordering no.</th>
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**TZB 25 - 3/4” output shaft**

**Technical data at a pressure of 6.3 bar (91 psi)**

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<th>kW</th>
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All models have ATEX certification in accordance with EC directive.

EX II 2 GD h T4 IIh T135°C X

-20°C ≤ Ta ≤ 60°C
Direction and design

Available in clockwise and counter clockwise direction
See A and AV models data in the technical information table.

The TZB has a compact design with two mounting options for easy installation as standard.

Designed and built for tough applications, the TZB outlasts and outperforms.
Notes on performance data
The performance data stated in this leaflet is valid for an air supply pressure of 6.3 bar (91 psi), gauge. Air consumption values are for free air delivery – (i.e., the volume the consumed air would occupy if allowed to expand to atmospheric pressure).

The direction of rotation for a motor is always stated looking from the back of the motor. Figure 1 illustrates clockwise rotation.

Understanding the performance curves
The output of an air motor is most clearly seen from its performance curves - figure 2. For each motor/gear unit, the power, torque and air consumption are shown as a function of speed.

NOTE: The starting torque produced by an air motor is variable and depends on vane position. These diagrams do not indicate the starting torque – this can be obtained from data tables, where the minimum value is shown.