ELGi's High Pressure Reciprocating Air Compressors

3 - 20 HP / 2.2 - 15 kW

www.elgi.com
A Tradition of Reliability

ELGi, established in 1960, designs and manufactures a wide range of air compressors. ELGi reciprocating compressor has been our DNA. Over the years, it has emerged as a multi-product, multi-market enterprise providing total compressed air solutions in all segments. ELGi’s design capabilities translated into a wide range of products ranging from oil-lubricated and oil-free rotary screw compressors, reciprocating compressors and centrifugal compressors. ELGi has its own manufacturing operations in India, Italy and USA with subsidiaries in Australia, Brazil, UAE and Indonesia. The company is fast expanding its global footprint attracting distributors and customers with its latest generation products.

Robust Infrastructure

ELGi is one of the few companies in the world capable of designing and manufacturing entire compressor package in-house. Reciprocating compressor parts and top blocks are manufactured in our state-of-the-art foundry and machining center and air receivers in our dedicated facility. All the compressors are subject to 100% automatic testing during assembly.

Innovative Technology

True to the leadership position it aspires, ELGi has through the decades maintained a technological edge in the air compressor market with incremental and breakthrough innovation, through incorporation of latest technologies in its products. ELGi is known in the industry for providing custom-engineered solutions to meet our clients’ needs. The company collaborates with clients to understand their changing needs and designs solutions accordingly. Long-term partnering has been our key differentiating factor.

AIR UP. UPTiME™

UPTIME Design
This speaks to the engineering and design of our products. Our R&D is dedicated to designing machines that run cooler, cleaner and longer... that are easy to service... with longer service intervals.

UPTIME Components
For so many of our customers, seeing is believing. They know a quality-built machine when they see it. That’s why every part on a ELGi compressor is a quality part.

UPTIME Assurance
Here is where we back our pledge, Our industry leading warranties, parts availability and call centers staffed by experts assure peace-of-mind to our customers.
PET Exclusive High Pressure Reciprocating Compressor

ELGi’s exclusive PET compressor range is ideally suited for PET blowing application which operate with one or more PET blowing machines and offers a low cost of ownership and very high UPTIME.

The compressors are designed for operator and plant safety with OSHA standards with twin sided belt guard, sealed safety valves as the compressors operate at higher pressures. ELGi offers these compressors with a host of ELGi ‘Airmate’ downstream accessories such as Pre and after filters, oil and moisture separators, refrigerant dryers and vertical air receivers designed to ASME standards.

Choose from ELGi’s wide range of high pressure compressors which are designed to precisely meet your high pressure Air demands. Widely used in different applications such as PET blowing, Plastic and Packaging Industry, Gen-set starting, Circuit breaking, Power plants and Testing labs.

The ELGi Advantage

Cast iron cylinders and cylinder heads with deep grooved cooling fins ensure best possible heat transfer and keeps the compression system relatively cool.

Aluminium pistons with piston rings to ensure lower wear and tear and lower oil carry over into the compression chamber.

Strong and robust crank case is made of high grade cast iron. Splash lubrication system ensures proper circulation of oil to all parts of the rotating system.

Precise and sophisticated suction valves with unloader and delivery valves reliability is assured.
High quality ball bearings and roller bearings ensures optimum load transfer and transmission without causing any un-even wear. 

1. Top Block
Robust 3 stage high pressure block for the best efficiency

2. Suction Filter
Heavy duty air filter with enhanced life

3. Electric Motor
Heavy duty, TEFC, CE Certified, designed for 50°C ambient with IP55 protection & Class F insulation

4. Delivery Un-loader
Solenoid controlled automatic bleeding of compressed air to ensure smooth starting

5. Starter
Dual operation mode (Load/un-load and on/off) at a single touch

6. Inter & After Coolers
Robust air cooled inter stage and after stage copper coolers

7. V-Belts
Double poly V belts with low transmission loss

8. Safety Valves
4 safety valves for enhanced safety

9. Suction Unloaders
Runs the compressor in un-load mode when there is no demand

10. Belt Guard
Close mesh belt guard to prevent accidental injury to the operator as per international safety norms

11. Air Receiver
500 Lts high pressure receiver designed as per ASME standards

3 piece forged crank shaft and forged connecting rods with a high mechanical life offers even throw and makes the compression system run smooth without any unwanted vibration.
**Technical Specification:**
ELGi PET High Pressure Reciprocating Air Compressor

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Power</th>
<th>Compressor Speed</th>
<th>Piston Displacement</th>
<th>Free Air Delivery</th>
<th>Maximum Working Pressure</th>
<th>Dimensions (mm)</th>
<th>Weight</th>
<th>Tank **</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50Hz</td>
<td>kVA</td>
<td>RPM</td>
<td>cfm</td>
<td>lpm</td>
<td>Length</td>
<td>Breadth</td>
<td>Height</td>
</tr>
<tr>
<td>TS 15 L B PET</td>
<td>11.0</td>
<td>15.0</td>
<td>875</td>
<td>41.3</td>
<td>1169</td>
<td>30</td>
<td>850</td>
<td>35</td>
</tr>
<tr>
<td>MS 20 L B PET</td>
<td>15.0</td>
<td>20.0</td>
<td>1090</td>
<td>66.4</td>
<td>1880</td>
<td>54</td>
<td>1529</td>
<td>25</td>
</tr>
<tr>
<td>TS 20 L B PET</td>
<td>15.0</td>
<td>20.0</td>
<td>1150</td>
<td>54.3</td>
<td>1538</td>
<td>39</td>
<td>1099</td>
<td>33</td>
</tr>
<tr>
<td>TS 20 L B PET</td>
<td>15.0</td>
<td>20.0</td>
<td>1150</td>
<td>54.3</td>
<td>1538</td>
<td>39</td>
<td>1099</td>
<td>33</td>
</tr>
<tr>
<td>TS 20 L B PET*</td>
<td>15.0</td>
<td>20.0</td>
<td>1150</td>
<td>54.0</td>
<td>1538</td>
<td>38</td>
<td>1076</td>
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<td>MS 20 L B PET</td>
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<td>850</td>
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<td>1472</td>
<td>37</td>
<td>1048</td>
<td>40</td>
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</tbody>
</table>

**Note:**
2. ** Mounted on a horizontal air receiver.
3. Free air delivery in accordance with IS5456

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**Technical Specification:**
High Pressure & Super Pressure Reciprocating Air Compressor

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Power</th>
<th>Compressor Speed</th>
<th>Piston Displacement</th>
<th>Free Air Delivery</th>
<th>Maximum Working Pressure</th>
<th>Dimensions (mm)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50Hz</td>
<td>kVA</td>
<td>RPM</td>
<td>cfm</td>
<td>lpm</td>
<td>Length</td>
<td>Breadth</td>
</tr>
<tr>
<td>High Pressure (Base Mounted)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>TS 03 L B HP</td>
<td>2.2</td>
<td>3.0</td>
<td>550</td>
<td>6.4</td>
<td>181</td>
<td>3.53</td>
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<td>TS 05 L B HP</td>
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<td>5.0</td>
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<td>11</td>
<td>311</td>
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<td>TS 07 L B HP</td>
<td>5.5</td>
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<td>900</td>
<td>22.5</td>
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<td>419</td>
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<td>TS 15 L B HP*</td>
<td>11.0</td>
<td>15.0</td>
<td>875</td>
<td>41.3</td>
<td>1169</td>
<td>30.00</td>
<td>850</td>
</tr>
<tr>
<td>TS 20 L B HP</td>
<td>15.0</td>
<td>20.0</td>
<td>1150</td>
<td>54.3</td>
<td>1538</td>
<td>40.00</td>
<td>1133</td>
</tr>
</tbody>
</table>

| Super Pressure (Base Mounted) |
| MS 15 L B SP | 11.0        | 15.0             | 1000                | 38                | 1016                    | 24.72 | 699     | 35     | 508  | 1820 | 790  | 1030 | 483 |
| MS 20 L B SP | 15.0        | 20.0             | 1150                | 43.7              | 1237                    | 33.50 | 949     | 40     | 580  | 1820 | 800  | 1025 | 503 |
| MS 20 L B SP | 15.0        | 20.0             | 1150                | 43.7              | 1237                    | 28.26 | 801     | 60     | 870  | 1820 | 800  | 1025 | 503 |

**Note:**
1. * Without electrical
2. Free air delivery in accordance with IS5456
3. Due to continuous improvements, specifications are subject to change.
4. The pictures shown in this brochure are representative and not the entire range.

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**ELGi PET and High Pressure Applications:**

- Pet Blowing
- Genset Starting
- Thermal Power Projects
- Circuit Breaking
- Plastic and Packaging industry
After Sales Solutions
A wide range of After Sales products and services is designed to add maximum value for our customers. Our fast serviceability ensures optimum availability and reliability of the compressors with the lowest possible operating costs.

Genuine Spares and Service
Elgi Genuine Spares helps in avoiding unexpected compressor failures and the risk of consequential damage to other vital compressor components. Elgi spares are designed, manufactured and checked for quality to meet the standards of a new compressor. The spares undergo continuous improvement to provide best results and are available through the vast network of Elgi dealers in India and International markets.

Genuine Spares
For enhancing performance and productivity

Elgi Airmate Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Capacity</th>
<th>Max. Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigeration Air Dryer</td>
<td>20 - 80 cfm</td>
<td>35 - 60 bar g</td>
</tr>
<tr>
<td>Moisture Separator</td>
<td>20 - 80 cfm</td>
<td>35 - 60 bar g</td>
</tr>
<tr>
<td>Air Receiver</td>
<td>1000 Litres</td>
<td>60 bar g</td>
</tr>
<tr>
<td>Particulate Filter</td>
<td>20 - 60 cfm</td>
<td>42 - 60 bar g</td>
</tr>
<tr>
<td>Oil Removal Filter</td>
<td>20 - 60 cfm</td>
<td>42 - 60 bar g</td>
</tr>
<tr>
<td>After Filter</td>
<td>20 - 60 cfm</td>
<td>42 - 60 bar g</td>
</tr>
</tbody>
</table>

Downstream filter

Distributed by

ELGI EQUIPMENTS LIMITED
CORPORATE OFFICE: Trichy Road, Singanallur, Coimbatore - 641005,
T: +91-422-2589555, E: enquiry@elgi.com, w: www.elgi.com
Customer care mobile no.: +91 92821 11224 (SMS only)
Toll-free no: 1800-425-3544 (applicable for India only)