



# ELGi's High Pressure Reciprocating Air Compressors

**ELGi**  
Always Better.



CIN: L29120TZ1960PLC000351

[www.elgi.com](http://www.elgi.com)

3 - 20 HP / 2.2 - 15 kW



## 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.



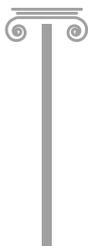
## Robust Infrastructure

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



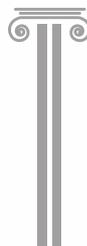
## Innovative Technology

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.



### 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

### Aluminium pistons with piston rings

to ensure lower wear and tear and lower oil carry over into the compression chamber.

### Cast iron cylinders and cylinder heads

with deep grooved cooling fins ensure best possible heat transfer and keeps the compression system relatively cool

**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



### 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



**High quality ball bearings and roller bearings** ensures optimum load transfer and transmission without causing any un-even wear



### 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

Model	Motor Power		Compressor Speed	Piston Displacement		Free Air Delivery		Maximum Working Pressure		Dimensions (mm)			Weight	Tank**
	50Hz	kW		HP	RPM	cfm	lpm	cfm	lpm	bar g	psi	Length		
TS 15 L B PET	11.0	15.0	875	41.3	1169	30	850	30	435	1980	865	1405	735	500
MS 20 L B PET	15.0	20.0	1090	66.4	1880	54	1529	25	363	2028	989	1602	926	500
TS 20 L B PET	15.0	20.0	1150	54.3	1538	39	1099	33	479	1978	843	1455	770	500
TS 20 L B PET	15.0	20.0	1150	54.3	1538	39	1099	33	479	1463	775	895	400	BM
TS 20 L B PET*	15.0	20.0	1150	54.0	1538	38	1076	33	479	1980	1000	1405	770	500
MS 20 L B PET	15.0	20.0	850	52.0	1472	37	1048	40	580	1620	860	1005	500	BM

**Note:**

- \* Water Cooled.
- \*\* Mounted on a horizontal air receiver.
- Free air delivery in accordance with IS5456

BM - Base Mounted

# Technical Specification :

## High Pressure & Super Pressure Reciprocating Air Compressor

Model	Motor Power		Compressor Speed	Piston Displacement		Free Air Delivery		Maximum Working Pressure		Dimensions (mm)			Weight
	50Hz	kW		HP	Rpm	cfm	lpm	cfm	lpm	bar g	psi	Length	

### High Pressure (Base Mounted)

TS 03 L B HP	2.2	3.0	550	6.4	181	3.53	99	30	435	1330	505	643	132
TS 05 L B HP	3.7	5.0	950	11	311	7.27	207	30	435	1330	505	643	142
TS 07 L B HP	5.5	7.5	750	17.8	504	11.51	326	30	435	1490	600	695	248
TS 10 L B HP	7.5	10.0	900	22.5	637	14.84	419	30	435	1490	617	720	250
TS 15 L B HP*	11.0	15.0	875	41.3	1169	30.00	850	30	435	1550	740	825	225
TS 20 L B HP	15.0	20.0	1150	54.3	1538	40.00	1133	30	435	1550	740	825	400

### 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:**

- \* Without electrical
- Free air delivery in accordance with IS5456
- Due to continuous improvements, specifications are subject to change.
- The pictures shown in this brochure are representative and not the entire range.

## 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



### Refrigeration Air Dryer

- Capacity : 20 - 80 cfm
- Max. pressure: 35 - 60 bar g



### Moisture Separator

- Capacity : 20 - 80 cfm
- Max. pressure : 35 - 60 bar g



### Air Receiver

- Capacity : 1000 Litres
- Max. pressure : 60 bar g

## Downstream filter



### Particulate Filter

- Capacity : 20 - 60 cfm
- Max. pressure : 42 - 60 bar g

### Oil Removal Filter

- Capacity : 20 - 60 cfm
- Max. pressure : 42 - 60 bar g

### After filter

- Capacity : 20 - 60 cfm
- Max. pressure : 42 - 60 bar g

# ELGI

**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)

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