

Total Solutions for Laser Cutting Segment

Air Compressor

Air Treatment Products

On-site PSA Gas Generator

Custom Solutions



Deep Pneumatics with over 3 decades of vast experience, offers a wide range of Air Compressors used in almost every industrial application. We are always committed to fulfilling customer needs and have received a very high satisfaction rating from our customers across India and are supplied to overseas countries.

What is laser cutting?

Laser cutting is a technology that uses a focused laser beam to vaporize materials, resulting in a cut edge for superior finish. Laser cutting results reduction in post cutting & metal processing adds benefits to their users.

Industrial applications have seen a surge in demand for usage of Fiber Laser for metal forming process considering the advantages & advancement in the manufacturing sector.

Use of compressed air, nitrogen & oxygen in laser cutting:

Compressed air, nitrogen & oxygen are popularly accepted gas to assist fiber laser cutting based on the material to be cut, thickness of the material apart from other factors.



Advantages for laser cutting through assist gas:

<i>Compressed Air</i>	<i>Nitrogen/ Oxygen</i>
Lower initial investment	Better cutting quality
Higher speed of cutting	Higher speed of cutting
Ease of operation	Ease of operation
Suitable for many metals	Suitable for many metals
Lower cost of ownership	Lower cost of ownership

Reciprocating Piston Air Compressor



Unique Features

- | Robust compressor block
- | Compact crankcase
- | Industrial air filter
- | Energy efficient electric motor
- | Electric Panel with running hour counter
- | Air-cooled after cooler
- | High quality piston rings
- | Reliable valve assembly
- | Full coverage belt guard

Advantages

- | Reliable operations
- | High pressure operations
- | Effective filtration
- | Low power consumption
- | Ready to start
- | Efficient removal of heat
- | Improved performance
- | High efficiency
- | Safe operation

Customer Benefits

- | Long life
- | Higher durability
- | Improved service life
- | Energy savings
- | Easy service monitoring
- | Lower operating temperature
- | Low oil carry-over
- | Long service duration
- | Higher safety

Air treatment products for Technically Oil-free Compressed Air Package:

Refrigerated Air Dryer / Heatless Air Dryer / Oil Removal Filters

Model	Operating Pressure	Motor Rating	Capacity (CFM)	Air Receiver
	Bar	HP	FAD	Liters
DP 115TH	25	15	42	500
DP 115TH	25	20	54	500
DP 125TH	25	25	72	500
DP 115TH Duplex	25	20 + 20	108	500

Note:

Free Air Delivery (FAD) tested as per IS 5456

Due to continuous improvement, specifications are subject to change without prior notice

Product image is only for representation

Screw Air Compressor (Vibrant Series)



Unique Features

- | Reliable screw element
- | Energy efficient motor
- | 1:1 Direct drive
- | Large Combi-cooler
- | Intelligent Controller
- | Heavy duty air filter
- | Unique intake valve
- | Tall design air-oil separator tank

Advantages

- | Enhanced performance
- | Power saving
- | Higher transmission efficiency
- | Lower Operating Temperature
- | Easy Monitoring & Control
- | Effective filtration
- | Simple design
- | Efficient oil separation

Customer Benefits

- | Power saving
- | Low operating cost
- | Lower break-down
- | Less moisture in outlet
- | Predictive maintenance
- | Improved service life
- | Long service life
- | Low oil carry-over

Air treatment products for Technically Oil-free Compressed Air Package:

Refrigerated Air Dryer / Heatless Air Dryer / Oil Removal Filters

Technical Specifications Vibrant Series:



Model	Operating Pressure	Motor Rating	Capacity (CFM)	Dimension	Weight	Outlet
	Bar	HP	FAD	MM	KG	Inch
DP 15D	13 / 16	15	42 / 30	1050 x 750 x 900	380	3/4"
DP 20D	13 / 16	20	62 / 42	1050 x 750 x 900	410	3/4"
DP 25D	13 / 16	25	85 / 62	1380 x 850 x 1050	530	1"
DP 30D	13 / 16	30	105 / 85	1380 x 850 x 1050	580	1"

High Pressure Screw Air Compressor DPH Series

Technical Specifications DPH Series:

Model	Operating Pressure	Motor Rating	Capacity (CFM)	Dimension	Weight	Outlet
	Bar	HP	FAD	MM	KG	Inch
DPH 25D	20 - 30	25	61	1650 x 1150 x 1310	868	3/4"
DPH 30D	20 - 30	30	74	1650 x 1150 x 1310	900	3/4"
DPH 30DV	20 - 30	30	30 - 74	1650 x 1150 x 1310	900	3/4"
DPH 50D	20 - 30	50	117	1900 x 1420 x 1480	1340	3/4"



Note:

Free Air Delivery (FAD) tested as per ISO 1217:2009

Due to continuous improvement, specifications are subject to change without prior notice

Product image is only for representation

On-site PSA Gas Generators

We have 78% nitrogen, 21% oxygen & remaining 1% comprises of other gases along with water vapour in our atmospheric air. PSA Gas Generators separates nitrogen or oxygen from compressed air passing through the bed of adsorbent material through PSA process (Pressure Swing Adsorption) for various industrial usage.

Unique Features

- | Superior design
- | Robust skid
- | High quality adsorbent
- | Reliable change over valves
- | Automatic operations
- | Advanced controller

Advantages

- | Lower compressed air consumption
- | Ready to start
- | Guaranteed purity
- | Continuous operation
- | Uninterrupted gas generation
- | Automatic start-up

Customer Benefits

- | Power saving
- | Quick installation
- | Peace of mind
- | Less maintenance
- | Higher productivity
- | Easy monitoring

PSA gas generator is used to produce gas for laser cutting application owing to the benefits

- Availability as per demand
- Increase productivity
- Eliminate supply chain & handling cost of cylinders
- 100% assurance of purity, dryness & quantity of gas
- Economically sustainable with faster ROI
- Safe operations
- Environment friendly



On Site PSA Gas Generators (DPNI Series)	On Site PSA Gas Generators (DPOX Series)
Capacity : 5 to 300 Nm ³ /Hr	Capacity : 5 to 60 Nm ³ /Hr
Purity : 99 - 99.999%	Purity : 90 - 95%

Deep Pneumatics offers engineered solution for the high-pressure gas (Nitrogen / Oxygen) requirement for variety of capacity, purity and working pressure of 35 bar to 300 bar on a skid, which is ready to start at the customer site with the whole set-up of air compressor, gas generator, gas booster & storage system.

High Pressure Screw Air Compressor : 20 Bar

		DP20PM 20	DP30PM 20	DP40PM 20	DP50PM 20
Operating Pressure	Bar	20	20	20	20
Motor Rating	HP	20	30	40	50
Capacity (CFM)	FAD	42	60	78	113
Dimension	MM	1000 x 750 x 1000	1070 x 850 x 1140	1070 x 850 x 1140	1200 x 1000 x 1390
Weight	KG	320	420	450	600
Outlet	Inch	3/4"	1"	1"	1.1/2"

Note:

Due to continuous improvement, specifications are subject to change without prior notice
Product image is only for representation



Our Widespread Sales Network:

