

Gas mixer
for laser cutting

PPNG MX



The Pneumatech PPNG MX is a high-performance gas mixer designed specifically for laser cutting. By blending nitrogen and oxygen at the right ratio for your laser cutting application, it gives you the benefits of both assist gases without their downsides. That means high cutting speed and excellent finish and edge quality, even on thicker material. Compact in size, easy to install, and built for 24/7 production, the PPNG MX delivers a consistent, clean O₂+N₂ mix to your laser.

Features and benefits

- Pressure and mix designed for laser cutting
- Accurate and stable mixed gas supply
- Less burr than cutting with nitrogen alone
- Eliminates the oxide layer oxygen-only cutting can cause
- More than 5 times faster cutting than with oxygen
- Paint- and weld-ready edges
- No mixing vessel required
- Plug-and-play setup
- Fits easily into tight laser cutting workshops
- Manual and automatic version available
- Bypass on automatic version lets you switch between mixed and unmixed gas
- Minimal maintenance requirements

General specifications

- Nitrogen outlet purity: 79-99.5%
- Nitrogen purity up to 99.5%
- Outlet pressures available: up to 31 barg
- Power supply:
 - » Manual version: No power required
 - » Automatic version: 230V/50Hz or 110V/60Hz IEC/UL certified

Superior cut quality

Mixing nitrogen with a small amount of oxygen delivers a smooth finish and clean edges. It eliminates the burr caused by pure nitrogen and avoids the oxide layer left by oxygen-only cutting.

Faster production

Laser cutting with a nitrogen-oxygen mix is more than 5 times faster than using just oxygen. For aluminum, cutting speed increases by up to 40%, with cleaner surfaces as a bonus.

Reliable performance, every time

The PPNG MX ensures a stable assist gas mix for repeatable cutting quality. Its built-in bypass lets you switch between gas types without production delay.

Two models

- **PPNG MX Automatic:** Controller with automatic mix selection, mixed/non-mixed gas bypass, single-phase power, dual frequency
- **PPNG MX Manual:** Simple mechanical dial, no power required

Technical specifications for PPNG MX

Measurement	Min outlet capacity	Max outlet capacity	Max inlet pressure N ₂	Max inlet pressure O ₂	Max outlet pressure mix	Purity range (N ₂ purity*)	Power supply (Automatic version)	Pressure drop	Inlet / outlet connections	Dimensions (L x W x H)	Mass**
Metric	20 Nm ³ /h	120 Nm ³ /h	34 Barg	33 Barg	31 Barg	79-99.5%	230v 50 Hz	2-4 Barg	½" BSP Cone male	0.6x0.6x0.8m	80 kg
Imperial	12 cfm	71 cfm	493 psig	478.5 psig	449.5 psig	79-99.5%	110v 60 Hz	29-58 psig	½" BSP Cone male	23.6x23.6x31.5"	176 lbs

*rest gas is oxygen

Reference conditions: ISO class 8573-1 1:-:1 inlet quality; Nm³/h: 20°C/68°F; and 1013.5 mBar(a)

Options

- Oxygen room analyzer

