EXTRACTION SOLUTIONS

BY WELDERS. FOR WELDERS

TRANSLAS.CA
NO FUMES, ONLY CLEAN AIR.

SOURCE EXTRACTION & FILTRATION
ENGINEERED FOR THE WELDING PROCESS
COMPLETE RANGE FOR YOUR PLANT/SHOP
HIGH QUALITY, TESTED EQUIPMENT
USER FRIENDLY UNITS, READY TO USE

ABOUT TRANSLAS

Translas is a Dutch manufacturer of welding guns since 1960. A company founded by welders, for welders with a passion for innovation and new technologies; constantly striving to engineer innovative products that boast a distinctive design as well as quality and functionality.

Welder’s safety is of paramount importance to Translas. The company’s goal is to globally reduce welders’ exposure to hazardous fumes and to provide a healthier and safer work environment. Some of the pioneering products include extractor guns with a built-in module to safely extract welding fumes at the source and portable extraction units for high performance extraction.

Translas products are now exclusively distributed on the Canadian market by Translas Canada Industries Ltd, located in Woodstock, Ontario.

Translas Canada Industries offers a complete range of air filtration products for welders including a range of high-quality, flexible systems and dust collection equipment, a complete range of MIG, TIG and Extractor guns as well as accessories. Exceptional product quality, ergonomic and contemporary design and a high degree of reliability of service are always key attributes of any Translas welding equipment.

HEALTH & SAFETY CONCERNS ASSOCIATED WITH THE WELDING PROCESS

Welding fumes contain vapours, a mixture of airborne gas by-products and fine particles. The composition of the mixture depends on the welding method and the products that are welded. The vapours and gases released during welding can lead to serious health problems. Short-term exposure can result in nausea, dizziness, or eye, nose and throat irritation.

Prolonged exposure to welding fumes can lead to cancer of the lung, larynx and urinary tract, as well as nervous system and kidney damage. Certain gases, such as helium, carbon dioxide and argon, displace oxygen and argon can pose suffocation risks, particularly in enclosed work areas. This is why Translas, a Dutch welding gun manufacturer, developed a welding gun – 7XE Extractor - that extracts the welding fumes directly at the source.
SAFE & EFFECTIVE EXTRACTION OF WELDING FUMES AT THE SOURCE

WHY THE 7XE EXTRACTOR GUN
The safest and most effective method: Extraction at the source
Extraction at the source proves to be the safest and most effective solution to achieve better work environments for welders. Translas developed a fume extraction solution – 7XE Extractor gun with a mobile filtration unit “ClearO2”. The 7XE Extractor solution extracts up to 95% of the welding fumes directly at the source. When using the Translas 7XE in combination with ClearO2, the harmful welding fumes and individual particulates are no longer released directly into the air; they are captured immediately as generated. This system reduces the amount of welding fumes and particulates in the workplace to less than 1 mg/m³ during an 8-hour working day. The legal threshold in Canada for welding fumes in the workplace is 5 mg/m³ over the span of an 8-hour work day. Individual particulates such as Manganese and Hexavalent-Chromium thresholds regulations can vary by province, but with the Translas extraction system these particles are also extracted successfully at the source before air-born.

THE TRANSLAS 7XE EXTRACTOR REDUCES THE WELDER’S EXPOSURE TO WELDING FUMES UP TO 95%

LEGAL THRESHOLDS
Legal threshold in various countries for welding fumes in the workplace over the span of an 8-hour work day, depending on the welded material:
- Canada - up to 5 mg/m³
- Germany - 1.25 mg/m³
- The Netherlands - 1 mg/m³
- United Kingdom - 5 mg/m³

CONICAL GAS NOZZLES
The conical gas nozzles provide better visibility and accessibility. The nozzles come in either 12mm (0.472”) or 14mm (0.551”) diameters.

APPLICATION
The 7XE Extractor is intended for use in MIG welding processes that employ shielding gases. Due to its unique patented gas nozzle, the 7XE Extractor is able to reach an optimal fume capture up to 95% directly at the source.

FLEXIBLE & MANEUVERABLE
A ball and socket joint between the gun handle and the hoses offers flexibility and maneuverability.

LIGHT & ERGONOMIC
The 7XE Extractor is a very light gun and weighs approximately 3.3 lbs, which is lighter than a regular 510 gun. The small, ergonomic handle makes the 7XE one of the most comfortable guns to work with for any welder; at any job, maximizing comfort and therefore productivity.

INTEGRATED EXTRACTION
The 7XE gun was engineered to reach maximum fume extraction capability when used with the ClearO2 W-series. The advantage of a mobile extraction unit like the W-series with an integrated filtration system is that it can be used in different workplaces.

4 TYPES OF GUNS
- 250 Amp
- 400 Amp
- 500 Amp
- 500 Amp
Air cooled 250, 400 or 500 Amp
Water cooled 500 Amp
All of them are 100% duty cycle.

SWITCH MODULE OPTIONS
There are various modules available; single, double, triple or digital. We are able to operate your welding guns remotely, through a fully programmable digital PCB (Printing Circuit Board) from your machine supplier.

APPLICATION
The 7XE Extractor is intended for use in MIG welding processes that employ shielding gases. Due to its unique patented gas nozzle, the 7XE Extractor is able to reach an optimal fume capture up to 95% directly at the source.
7XE EXTRACTOR GUN
CONSUMABLES TO FIT YOUR SPECIFIC WELDING APPLICATION

7XE EXTRACTOR
7XE Extractor is the standard execution of our fume extraction line. It is light – only 3.3 lbs – but high in power with 100% duty cycle for heavy duty work.

7XE MINI EXTRACTOR 250 AMP
7XE MINI Extractor is the lightest fume extraction gun on the market. It weighs only 2.4 lbs and has a small handle, nozzle and small conical hose (from 1.2” to 1.5”).

The 7XE MINI Extractor was developed for welding jobs where constant changing in positions is required, such as in manual automotive welding. The constant change in angles and positions results in unwanted tension on the wrist and possible chronic pain. With the 7XE MINI Extractor gun the tension is minimal.

NECK OPTIONS
With the various necks available, you can pick the gun that is perfect for your application: 45°-neck; 60°-neck and straight neck for Semi-automatic welding.

7XE MINI EXTRACTOR NOZZLE OPTIONS:

There are three nozzle variations to suit any kind of joint application for optimal results. The nozzles can be changed in a second.

MINI EXTRACTOR NOZZLES:

12 MM STANDARD
The nozzle offers slightly wider shielding gas coverage on medium-thickness materials in butt and fillet applications, and outside-corner joints. The 12mm Standard nozzle is delivered as a standard with the 7XE MINI Extractor.

14 MM
For heavier-thickness, high-current and high-deposition butt- and lap-joint applications, this nozzle offers greater shielding gas coverage to help prevent porosity.

7XE STANDARD/MINI:

14 MM SPECIAL
Where space is limited and fit is tight, this nozzle offers better access and greater shielding gas coverage to reduce porosity. The 14mm Special nozzle is delivered with every 7XE Extractor gun type.

CONTACT TIPS
Contact tips that have been made for the 7XE Extractor have a unique conical tip design. You can choose from:

- Standard copper for everyday welding
- Available in sizes from .030 to .094
- Tri-metal (CuCrZr) for high-heat applications
- Special nozzles for aluminum welding

LINERS
Choose the right liner for your wire diameter and type when working with a standard 7XE gun:

- Black: for .039” - .047” wire
- Gray: for .062” wire
- Green: for .078” - .094” wire

Choose the right liner when working with the 7XE MINI Extractor gun:

- Blue: for .023” - .031” wire
- Red: for .035” - .045” wire
- Yellow: for .062” wire

All liner types are suitable for stainless steel applications.

MAINTENANCE

AIRFLOW METER
Always use the Airflow meter to ensure maximum extraction effect and a cool gun.

GAS METER
The gas meter is used for best weld quality by keeping the right amount of shielding gas around the weld seam.

CERAMIC SPRAY
Prolong the life of your gun and all spare parts by applying the Ceramic Spray to the 7XE Extractor before work.

WIRE FEED CONNECTORS
There are wire feed connectors available to fit any type of machine, including Tweco, Miller, Lincoln and ESAB (Euro). Due to the design of the back housing, you can switch between the connector types with ease.

Y-BRANCH BACK-END CONNECTION
One section connects to the welding machine, the other to the hose of the ClearO2 Hi-vac unit. Compatible to almost any welding machine with the right back end adapter; incl. Miller, Lincoln, Fronius, ESAB and more.

NOZZLE OPTIONS

45° neck 60° neck Straight neck

12 mm standard

14 mm

14 mm special
**7XE Extractor Gun Range**

**AIR COOLED**
- **7XE Mini Extractor**
  - 250 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Air Cooled
- **7XE Mini Extractor Semi-Automatic**
  - 250 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Air Cooled
- **7XE Extractor**
  - 400 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Air Cooled
- **7XE Extractor Semi-Automatic**
  - 400 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Air Cooled
- **7XE Extractor**
  - 500 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Air Cooled

**WATER COOLED**
- **7XE Extractor**
  - 550 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Water Cooled
- **7XE Mini Extractor Semi-Automatic**
  - 550 Amp
  - Mixed gases
  - Duty Cycle 100%
  - Water Cooled

**ClearO2**

**Integrated Fume Extraction Solutions**

**ENGINEERED FOR THE TRANSLAS 7XE EXTRACTOR GUNS**

Powerful, flexible and mobile.

The ClearO2 portable extraction units offered by Translas were engineered to work with the 7XE Extractor to deliver the best results - up to 95% extraction of welding fumes directly at the source.

The ClearO2 portable extraction units and solutions are ready to use systems, designed for maximum convenience for the welder during work.

**DESIGNED FOR THE 7XE EXTRACTOR GUNS**

- MOBILE, WITH WHEELS OR CRANE HOOKS
- UNITS FOR 1-4 WELDERS
- SUITABLE FOR HIGH-PRODUCTION ENVIRONMENT
- QUIET < 65dB & EFFICIENT
The ClearO2 W-series have an automatic cleaning function by reverse compressed air pulse. The moment the under pressure in the filter is too high, the units start to clean the filters automatically. A manual cleaning function can be done by pressing a single button. With a large filter area the ClearO2 Hi-vac units are the most efficient units of their size.

**QUIET & EFFICIENT**

The ClearO2 units only generate 65dB when in use, making them one of the quietest hi-vac units on the market.

**EFFICIENT MOTOR SYSTEM**

The electric motor of the units are designed to work continuously. Due to the automatic cleaning function and the simplified motor system, the maintenance on the units is minimal, making them long-lasting and time-saving. The automatic start/stop function was engineered to preserve energy and to synchronize the units with the Translas Extractor guns. The moment the gun is out of the gun holder, the machine automatically starts working.

**POWERFUL FILTRATION**

With the combination of a 7XE Extractor welding fume gun and a ClearO2 unit, the captured fumes are filtered with an efficiency > IFA 99.8%. The powerful solution is suitable for high production welding environments.

**POWER SUPPLY OPTIONS**

- W100: 220V-240V
- W110: 575V-600V
- W150: 380V-480V

The ClearO2 W100 series was designed to accompany the Translas Extractor guns. The unit together captures up to 95% of welding fumes directly at the source, and filter with an efficiency > IFA 99.8%. The unit is compact, mobile and light-weight. Changing location on the job is easy, the W100 is equipped with 4 wheels, from which 2 are lockable.
The ClearO2 W200 series was designed to accompany the Translas Extractor guns. The unit together captures up to 95% of welding fumes directly at the source, and filter with an efficiency > IFA 99.8%. The unit is compact, mobile and light-weight. Changing location on the job is easy, the W200 is equipped with 4 wheels, from which 2 are lockable.

**POWER SUPPLY OPTIONS**
- W200: 380V-480V
- W210: 575V-600V

**Dimensions:** (L x W x H) 28” x 17” x 27”/31” (without/with wheels)
- **Mobility:** 4 wheels, 2 rotating & with locking mechanism
- **Power supply:** 380-480V (W200) 575V-600V (W210)
- **Amperage:** 20 AMPS
- **Motor power:** maximum 4 HP
- **Suction flow:** max. 147 cfm (free blowing)
- **Suction flow effective:** max. 38 cfm (Translas Extractor Guns)
- **Working pressure:** max. 45,000 Pa (el. Controlled) Static Pressure
- **Filter surface:** 54 sqft active filter surface, Filter efficiency: IFA > 99.8%
- **Filter type:** disposable filter, HEPA rated
- **Max. DC:** 100% (VFD)
- **Inlet:** 2” x 2
- **Noise level:** max. dB(A) < 65 Db (A) (at 100% suction flow)
- **Weight:** 128 lbs
- **Certifications:** CSA, CE and W3

The ClearO2 W400 series was designed to accompany the Translas Extractor guns. The unit together captures up to 95% of welding fumes directly at the source, and filter with an efficiency > IFA 99.8%. The unit is compact, mobile and light-weight. Changing location on the job is easy, the W400 is equipped with 4 wheels, from which 2 are lockable.

**POWER SUPPLY OPTIONS**
- W400: 380V-480V
- W410: 575V-600V

**Dimensions:** (L x W x H) 28” x 21” x 33”
- **Mobility:** 4 wheels, 2 rotating & with locking mechanism
- **Power supply:** 380-480V (W400) 575V-600V (W410)
- **Amperage:** 20 AMPS
- **Motor power:** maximum 8 HP
- **Suction flow:** max. 294 cfm (free blowing)
- **Suction flow effective:** max. 38 cfm (Translas Extractor Guns)
- **Working pressure:** max. 45,000 Pa (el. Controlled) Static Pressure
- **Filter surface:** 2 filters, 108 sqft active filter surface, Filter efficiency: IFA > 99.8%
- **Filter type:** disposable filter, HEPA rated
- **Max. DC:** 100% (VFD)
- **Inlet:** 2” x 4
- **Noise level:** max. dB(A) < 65 Db (A) (at 100% suction flow)
- **Weight:** 188 lbs
- **Certifications:** CSA, CE and W3
CLEAR02 HI-VAC UNIT SPARE PARTS

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REAL TIME DEMO
WITH/WITHOUT EXTRACTION

A real time demo:
We were welding 045 flux core wire with the Translas 7XE 400amp Extractor Gun connected to the Translas Clear02 W100 Fume Extraction unit. We show the difference with the suction turned on/off throughout this video.
(Available on our YouTube Channel - Translas Canada Industries)

WOULD YOU LIKE A DEMO AT YOUR PLANT/SHOP? Contact us today to book yours.
Translas Canada Industries Ltd.
Unit 5, 1099 Commerce Way,
Woodstock, ON
N4V 0A2, Canada
1-888-383-9080
info-CA@translas.com

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