



TRANSLAS
DUTCH WELDING TECHNOLOGY



On-Gun Welding Fume Extraction

CONTROL WELDING FUME AT THE SOURCE

On-gun fume extraction is too heavy, too bulky, and impacts the shielding gas...
Not anymore.

On-gun fume extraction is one of the safest and most effective methods of controlling welding fume and is heavily used and relied upon in Europe and North America. However, for the reasons above, on-gun extraction has not been adopted in Australia or New Zealand.

AWS has teamed up with Translas, Dutch on-gun fume extraction specialist, to launch an industry first: a range of lightweight, manoeuvrable, and ergonomic extraction guns that deliver the highest capture rate on the market (up to 98%), while leaving the shielding gas completely unaffected.

No other welding fume control solution captures welding fume at the source, removes it from the environment, and most importantly, follows the welder as they move. Experience Translas fume extraction technology today.

**HIGHEST
CAPTURE
RATE
ON THE
MARKET**
UP TO 98%





Welding Fume Is Serious. Action Is Required.

The important point to understand is that while the risk posed by welding fume is serious, keeping yourself safe can be straightforward.

The 2017 IARC reclassification of welding fume as ‘carcinogenic to humans’ simply confirmed what was already known – welding fume is extremely bad for health and workplaces must protect their workers. Excessive exposure to welding fume can cause multiple types of cancer, including lung, larynx, and urinary tract.

‘Welders present, on average, a 43% increased risk of lung cancer when compared with those who have never welded or been exposed to welding fume’¹. ‘This increased risk of lung cancer is regardless of the type of steel welded, the welding process and independent of exposure to smoking’¹. Precedent for workers’ compensation based on a link between welding fume and cancer was established in the Australian courts back in 2014, opening the door for future compensation claims.

Aside from cancer, welding fume can also cause serious long-term health effects like lung function

Simple Takeaway

**Welding fume is serious,
action is required.**

abnormalities, including bronchial asthma, chronic obstructive pulmonary disease (COPD), pneumoconiosis and other pulmonary fibrosis, as well as stomach ulcers, kidney damage and nervous system damage.

Recognising welding fume as carcinogenic and the other associated health risks should encourage all employers of welders to review their risk assessments and revise their control measures.

Welding fume is serious, action is required.



The safest and most effective method.

Extraction at the source is the safest and most effective solution to control welding fume in the work environment. Translas on-gun fume extraction captures harmful welding fumes and individual particulates as soon as they are generated, keeping the welder protected and the work environment fume free.



Highest capture rate and duty cycle in the industry.

Translas leads the industry with a fume capture rate up to 98%. However, like the eye of a storm, the cyclonic extraction effect leaves the shielding gas completely unaffected. The Translas range of fume guns are built tough and offer a 100% duty cycle.



Lightest fume gun on the market.

The 8XE MINI Extractor is the lightest fume extraction gun on the market and is the same weight or lighter than the majority of standard welding guns. The small ergonomic handle makes it one of the most comfortable guns to work with for any welder.



Low maintenance with self-cleaning.

The extraction system has an automatic cleaning function. The moment the pressure in the filter is too high, the units begin to automatically clean the filters. A variable frequency drive motor ensures extraction flow rates are always maintained at a precise level, making this powerful solution suitable for high production welding environments.



A potential option for confined spaces.

On-gun fume extraction captures welding fume before it can be released into the environment or build up around the welder, making Translas a potential option for confined spaces*. Due to the powerful variable frequency motor, the extraction unit can be positioned over 20 metres away from the welder and still deliver the same industry leading capture rate of up to 98%.

* Confined spaces can be deadly and decisions on how to handle a specific confined space must be assessed on the spot and always comes down to the specifics of the individual situation. There should be a suitably trained and knowledgeable person doing the assessment and design of a safe system for any confined space entry.

1. SELECT YOUR WELDING GUN



8XE MIG ON-GUN FUME EXTRACTION RANGE



8XE MIG EXTRACTOR

250

AIR
COOLED

MINI

CO2 - 280 AMP

Mixed Gases - 250 AMP

Duty Cycle - 100%

SELECT FOR WELDING
BELOW 250 AMPS

PART NUMBERS

TR8X01000401000 - 4 metre - Euro - 45°

TR8X01000501000 - 5 metre - Euro - 45°



8XE MIG EXTRACTOR

400

AIR
COOLED

CO2 - 420 AMP

Mixed Gases - 400 AMP

Duty Cycle - 100%

SELECT FOR WELDING
250-400 AMPS

PART NUMBERS

TR8X04028401000 - 4 metre - Euro - 45°

TR8X04028501000 - 5 metre - Euro - 45°



8XE MIG EXTRACTOR

500

WATER
COOLED

CO2 - 550 AMP

Mixed Gases - 500 AMP

Duty Cycle - 100%

SELECT FOR WELDING
OVER 400 AMPS

PART NUMBERS

TR8X05060401000 - 4 metre - Euro - 45°

TR8X05060501000 - 5 metre - Euro - 45°

2. SELECT YOUR EXTRACTION UNIT



MIG CLEAR02 W150 THREE PHASE INTEGRATED FUME EXTRACTION

SELECT FOR
ONE WELDER

PART NUMBER -
TR3746150000000 - W150 Extraction Unit

Please note that it is more cost effective
to have two welders running off the two
person system on the next page.



-  **AUTO START/STOP OPTIONS**
-  **AUTO FILTER CLEANING**

Dimensions	(L x B x H) 700 x 440 x 585 / 630mm (without / with wheels)
Implementation	Mobile on 4 wheels - 2 rotating with locks
Power Supply	380-480V (W150)
Motor Power	1.5 KW
Suction Flow (Torch)	Target: 33 CFM / Max: 38 CFM
Filter Surface	5 m ² active filter surface, filter efficiency: IFA > 99.8%
Working Temperature	0 to +50°C
Duty Cycle	DC: 100%
Weight	45kg
Noise Level	Max. dB(A) <65Db(A) (at 100% suction flow)
Filter Method	Self Cleaning/Disposable filter
Certifications	CE (European), W3 (Germany), and CSA (North America)
Compressed air (Cleaning)	80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline



MIG CLEAR02 W200 THREE PHASE INTEGRATED FUME EXTRACTION

SELECT FOR
TWO WELDERS

PART NUMBER -
TR374620000000 - W200 Extraction Unit



AUTO START/STOP OPTIONS



AUTO FILTER CLEANING

Dimensions	(L x W x H) 700 x 530 x 560 / 630mm (without / with wheels)
Implementation	Mobile on 4 wheels - 2 rotating with locks
Power Supply	380-480V (W200)
Motor Power	Maximum 3.0 KW
Suction Flow (Torch)	Target: 33 CFM / Max: 38 CFM
Filter Surface	5m ² Active filter surface, filter efficiency: IFA >99.8%
Working Temperature	0 to +50°C
Duty Cycle	DC: 100%
Weight	58kg
Noise Level	Max. dB(A) <65dB(A) (at 100% suction flow)
Filter Method	Self Cleaning/Disposable filter
Certifications	CE (European), W3 (Germany), and CSA (North America)
Compressed air (Cleaning)	80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline

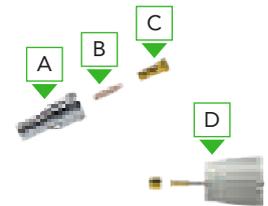
3. SELECT YOUR CONSUMABLES

250 AMP GUN CONSUMABLE OPTIONS

ITEM	PART NO.	DESCRIPTION	PACK QTY
CONSUMABLES			
A	TR3937000	Nozzle conical 12mm	5
	TR3937001	Nozzle conical 14mm tapered	5
B	TR3990091	Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire	25
	TR3990101	Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire	25
	TR3990121	Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire	25
C	TR39327110	Tip adapter 250	10
D	TR301545	Plastic coated liner blue 4 metre - for 0.8 to 1.0 wire	1
	TR301555	Plastic coated liner blue 5 metre - for 0.8 to 1.0 wire	1
	TR302545	Plastic coated liner red 4 metre - for 0.8 to 1.2 wire	1
	TR302555	Plastic coated liner red 5 metre - for 0.8 to 1.2 wire	1
	TR303645	Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire	1
	TR303655	Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire	1

250 AMP GUN
A, B, C, & D are all required

A. Select nozzle size
B. Select contact tip based on wire size
C. Tip adapter required
D. Select a liner based on wire size

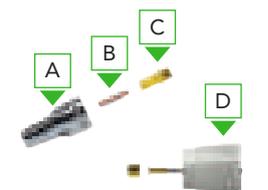


400 AMP GUN CONSUMABLE OPTIONS

ITEM	PART NO.	DESCRIPTION	PACK QTY
CONSUMABLES			
A	TR3937041	Nozzle conical 14mm tapered	5
	TR3937045	Nozzle conical 17mm tapered	5
B	TR3990091	Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire	25
	TR3990101	Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire	25
	TR3990121	Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire	25
	TR3990161	Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire	25
C	TR39327310	Tip adapter 400	10
D	TR303794	Plastic coated liner black 4 metre - for 0.9 to 1.2 wire	1
	TR303795	Plastic coated liner black 5 metre - for 0.9 to 1.2 wire	1
	TR303764	Plastic coated liner grey 4 metre - for 1.6 wire	1
	TR303765	Plastic coated liner grey 5 metre - for 1.6 wire	1

400 AMP GUN
A, B, C, & D are all required

A. Select nozzle size
B. Select contact tip based on wire size
C. Tip adapter required
D. Select a liner based on wire size

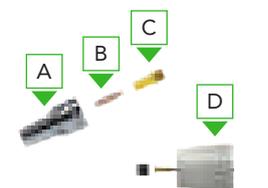


500 AMP GUN CONSUMABLE OPTIONS

ITEM	PART NO.	DESCRIPTION	PACK QTY
CONSUMABLES			
A	TR3937041	Nozzle conical 14mm tapered	5
	TR3937045	Nozzle conical 17mm tapered	5
B	TR3990091	Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire	25
	TR3990101	Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire	25
	TR3990121	Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire	25
	TR3990161	Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire	25
C	TR39327210	Tip adapter 500	10
D	TR302545	Plastic coated liner red 4 metre - for 0.8 to 1.2 wire	1
	TR302555	Plastic coated liner red 5 metre - for 0.8 to 1.2 wire	1
	TR303645	Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire	1
	TR303655	Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire	1

500 AMP GUN
A, B, C, & D are all required

A. Select nozzle size
B. Select contact tip based on wire size
C. Tip adapter required
D. Select a liner based on wire size



4. CUSTOMISE YOUR SYSTEM

ESSENTIALS REQUIRED WITH EACH SYSTEM:

- A.  B. 
- C.  D. 
- E. 
- A. TR37422505 Extraction suction hose (5 metres)
B. TR398110 Coupler for suction hose, gun end
C. TR374126 Coupler for suction hose, extractor end
D. TR371350 or TR371300 Airflow metre 250 Amp
Airflow metre 400 & 500 Amp
E. TR374106 Pressure reducing valve
(Compressed air is required for self-cleaning. The extraction unit requires compressed air delivery at 80 PSI. The typical PSI for compressed air in a welding workshop is between 100-130 PSI. The pressure reducing valve screws straight into the Translas extraction unit and reduces pressure to 80 PSI.)

DO YOU REQUIRE AUTOMATIC START / STOP?



TR374010 Sensing cable for auto start and stop (4 metre)

Clamps around the ground cable. Starts when the welder starts and stops shortly after they stop welding. Results in electricity savings and boosts productivity.

HOW FAR AWAY DOES THE WELDER NEED TO BE FROM THE EXTRACTION UNIT?

A.



A. TR37422505 Extraction suction hose (5 metres)
B. TR374130 Extension coupler
C. TR3740105 Sensing cable extension (5 metres)

The suction hose is 5 metres in length, meaning the user can be positioned 5 metres (plus the gun length) from the extraction unit.

B.



To increase this distance, you can connect additional 5 metre hoses using the extension coupler (one coupler connects two hoses). It is possible to connect up to 4 x 5 metre hoses, allowing the welder to be positioned up to 20 metres from the extraction unit.

C.



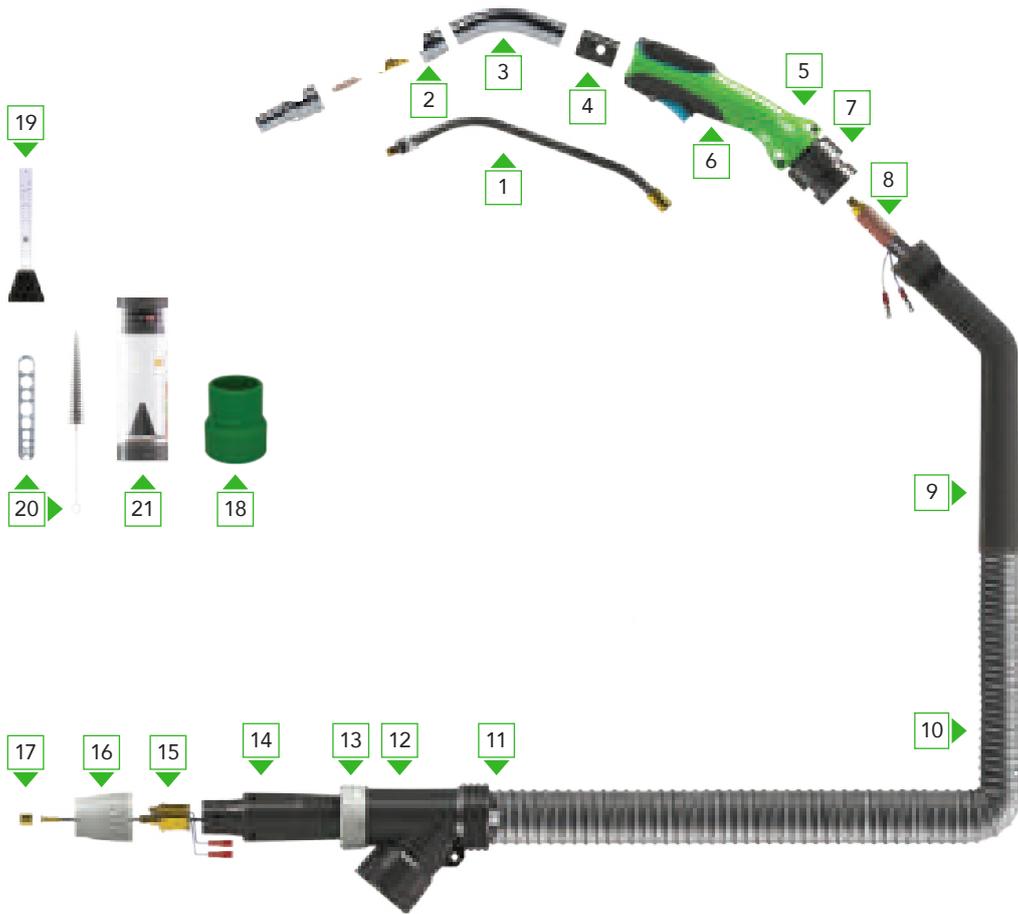
Note: if you have selected to use auto start/stop, you will also need to extend the sensing cable using the sensing cable extension. No coupler required.



SPARE PARTS - 8XE 250 AMP

AIR COOLED

WELDING GUNS



ITEM	PART NO.	DESCRIPTION	PACK QTY
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SPARE PARTS

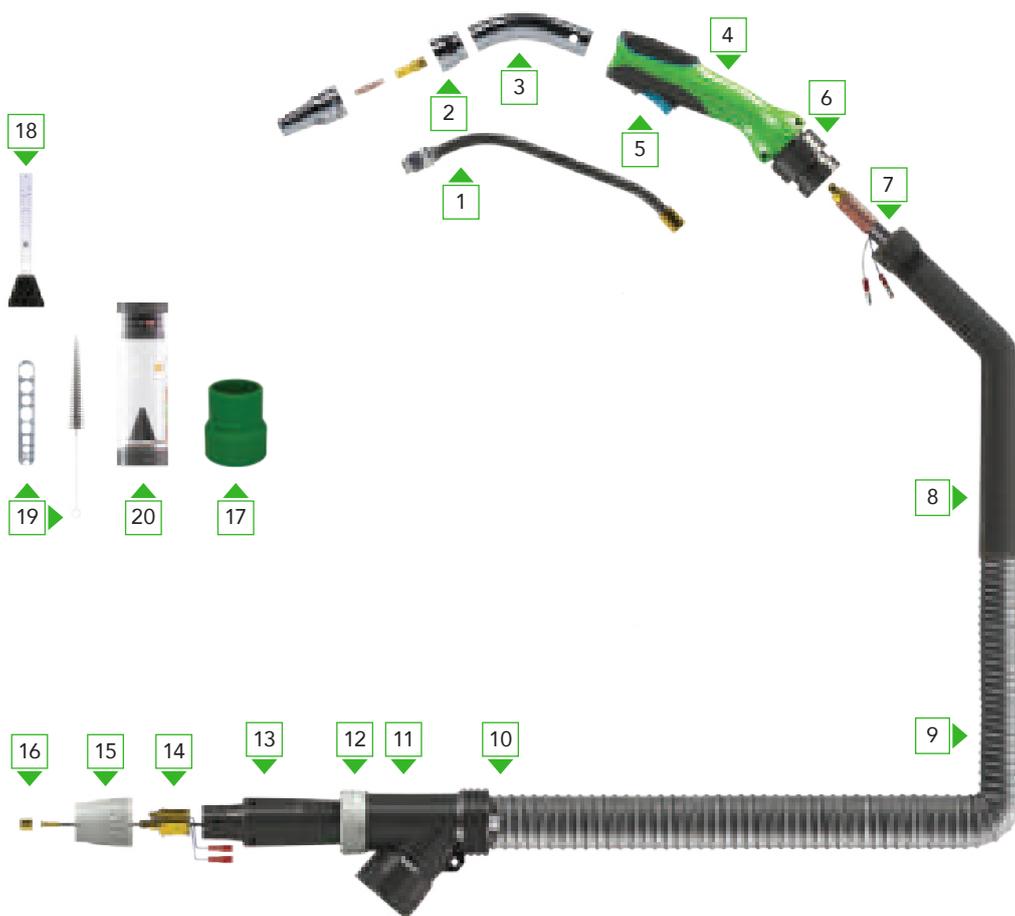
1	TR39301045	Swan neck 45°	1
	TR3950005	PEEK ring to fix nozzle holder (not shown)	1
2	TR3950000	Nozzle holder	1
3	TR3950045	Metal neck 45°	1
4	TR3950500	Adapter to fit MINI neck	1
5	TR391000	Handle green/black complete with trigger	1
6	TR391200	Trigger	1
	TR391245	Spring for trigger (not shown)	1
	TR391250	Micro switch complete (not shown)	1
7	TR381900	Cable support set with ball-and-socket joint	1
8	TR259264X8	Cable assembly 4mtr	1
	TR259265X8	Cable assembly 5mtr	1
9	TR260019	Leather-sheathing with velcro 2mtr	1
10	TR340304	Fume extraction hose 30-38mm 4mtr	1
	TR340305	Fume extraction hose 30-38mm 5mtr	1
11	TR398031	Hose connection	1
12	TR398100	Housing (Y-shape) for fume extraction hose	1
13	TR398015	Connection ring	1
14	TR398010	Housing set for central connector	1
15	TR305298E	Central connector	1
16	TR8M9420	Adaptor nut	1
17	TR305315	Liner positioner nut	1
18	TR398110	Hose adapter	1
19	TR406050	Gasflow metre	1
20	TR371208	Tool set (brush and multitool)	1
21	TR371350	Airflow metre MINI Extractor	1



SPARE PARTS - 8XE 400 AMP

AIR COOLED

WELDING GUNS



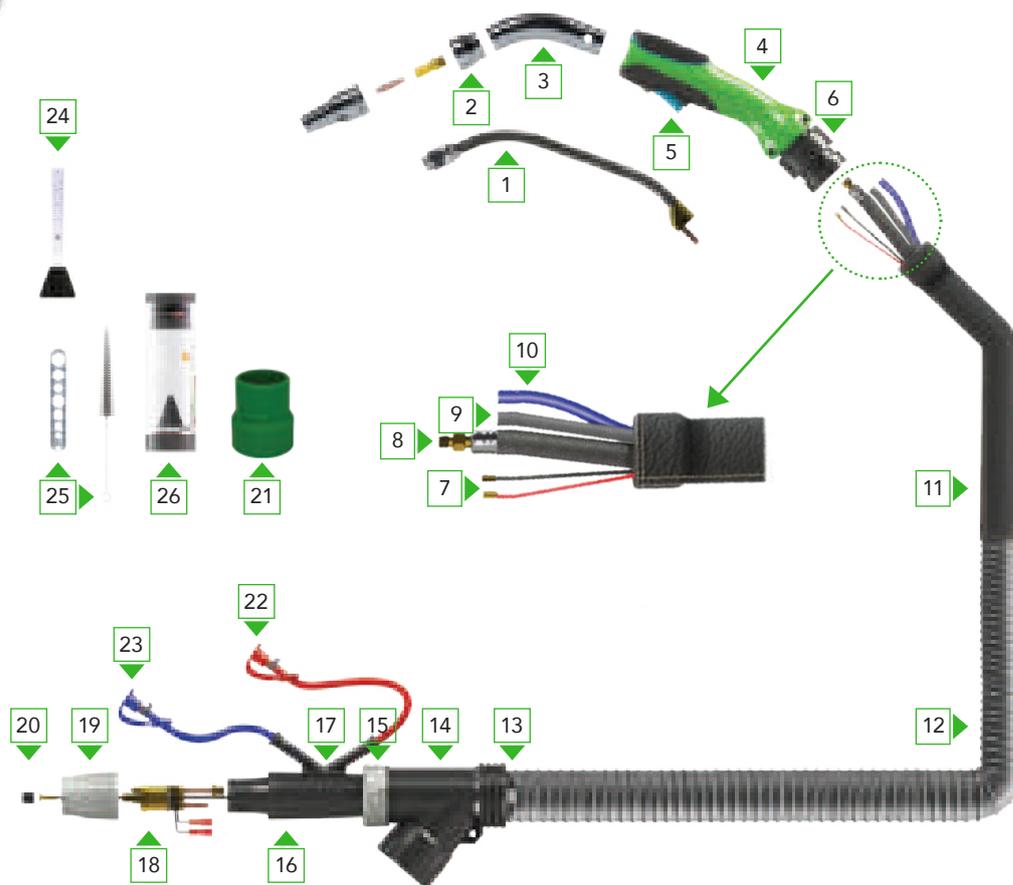
ITEM	PART NO.	DESCRIPTION	PACK QTY
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SPARE PARTS

1	TR39302145	Swan neck 45°	1
	TR3950205	PEEK ring to fix nozzle holder (not shown)	1
2	TR3950200	Nozzle holder	1
3	TR3950245	Metal neck 45°	1
4	TR391000	Handle green/black complete with trigger	1
5	TR391200	Trigger	1
	TR391245	Spring for trigger (not shown)	1
	TR391250	Micro switch complete (not shown)	1
6	TR381920	Cable support set with ball-and-socket joint	1
7	TR259464X8	Cable assembly 4mtr	1
	TR259465X8	Cable assembly 5mtr	1
8	TR260018	Leather-sheathing with velcro 2mtr	1
9	TR3402042	Fume extraction hose 36-44mm 4mtr	1
	TR3402052	Fume extraction hose 36-44mm 5mtr	1
10	TR398030	Hose connection	1
11	TR398100	Housing (Y-shape) for fume extraction hose	1
12	TR398015	Connection ring	1
13	TR398010	Housing set for central connector	1
14	TR3052988	Central connector	1
15	TR8M9420	Adaptor nut	1
16	TR305315	Liner positioner nut	1
17	TR398110	Hose adapter	1
18	TR406050	Gasflow metre	1
19	TR371208	Tool set (brush and multitool)	1
20	TR371300	Airflow metre Extractor	1



SPARE PARTS - 8XE 500 AMP



ITEM	PART NO.	DESCRIPTION	PACK QTY
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SPARE PARTS

1	TR39303045	Swan neck 45°	1
	TR3950205	PEEK ring to fix nozzle holder (not shown)	1
2	TR3950200	Nozzle holder	1
3	TR3950245	Metal neck 45°	1
4	TR391000	Handle green/black complete with trigger	1
5	TR391200	Trigger	1
	TR391245	Spring for trigger (not shown)	1
	TR391250	Micro switch complete (not shown)	1
6	TR381920	Cable support set with ball-and-socket joint	1
7	TR306505	Switch cable 1x0.75mm ² per mtr	1
8	TR258514X8	Power/water cable 4mtr	1
	TR258515X8	Power/water cable 5mtr	1
9	TR2585314XE	Outer liner 4mtr	1
	TR2585315XE	Outer liner 5mtr	1
10	TR258535	Water inlet hose 5x8mm blue per mtr	1
	TR258566	Water outlet hose 5x8mm red per mtr	1
11	TR260018	Leather-sheathing with velcro 2mtr	1
12	TR3402042	Fume extraction hose 36-44mm 4mtr	1
	TR3402052	Fume extraction hose 36-44mm 5mtr	1
13	TR398030	Hose connection	1
14	TR398100	Housing (Y-shape) for fume extraction hose	1
15	TR398015	Connection ring	1
16	TR398010	Housing set for central connector	1
17	TR350881	Water hose guide	1
18	TR305304E2	Central connector	1
19	TR8M9420	Adapter nut	1
20	TR305315	Liner positioner nut	1
21	TR398110	Hose adapter	1
22	TR258701	Waterstop red	1
23	TR258702	Waterstop blue	1
24	TR406050	Gasflow metre	1
25	TR371208	Tool set (brush and multitool)	1
26	TR371300	Airflow metre extractor	1

WATER COOLED

WELDING GUNS



SPARE PARTS - EXTRACTION UNITS



1



2



3



4



5



6



7



8



9



10



11

EXTRACTION UNITS

ITEM	PART NO.	DESCRIPTION	PACK QTY
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SPARE PARTS

1	TR374012	Torch holder for automatic start/stop 5 metre 250	1
	TR374014	Torch holder for automatic start/stop 5 metre 400 & 500	1
2	TR374010	Sensing cable auto start/stop 4 metre	1
3	TR3740105	Extension 5 metre for sensor cable clamp	1
4	TR374020	Main Filter	1
5	TR374025	Filter Mat	5
6	TR374099	Ball valve to reduce the suction flow	1
7	TR374106	Pressure reducing valve 5 - 15 bar 1/4-NP7.2	1
8	TR37422505	ClearO2 suction hose black ø2" 5mt	1
9	TR374126	Coupler for suction hose extraction end	1
10	TR374130	Coupler to extend the suction hose	1
11	TR398110	Coupler for suction hose gun end	1

AIR QUALITY IN YOUR WORKSHOP

When you consider a welding fume particle that is 0.5 μm in size can take 2 days to reach the floor when released from a height of 1.5 metres, you begin to understand how long these carcinogenic particles can remain suspended in the air. This is vital to consider when sharing a work environment with welders, as the air could contain respiratory hazards long after welding has been completed.

On-gun fume extraction can assist in reducing exposure to welding fume and other airborne contaminants, not only for the welder, but also for those who work near welding operations. This is the key difference between on-gun fume extraction and Personal Protective Equipment (PPE) used by the welder. PPE can only protect the welder, while on-gun fume extraction can protect the welder and stop the spread of fume throughout the workplace protecting all workers from welding fume exposure.

For this reason, on-gun fume extraction can be the most economical method to protect all workers from welding fume exposure in shared working environments.

**HIGHEST
CAPTURE
RATE
ON THE
MARKET**
UP TO 98%

**REMOVES
FUME
AND
FOLLOWS
THE
WELDER**
UNLIKE OTHER FORMS OF LEV





AWS was established in 1994 and has played a key role in the welding industry ever since.

As a company that specialises in welding fume safety equipment, it is our goal to raise awareness on the important issues that welders face.

AWS is the sole agent and exclusive wholesaler for the 3M™ Speedglas™ Welding Safety Brand, 3M™ Adflo™ Powered Air Purifying Respirators, the range of Nederman Portable LEV FPS Fume Extractors, and the Translas On-Gun Fume Extraction Range in Australia and New Zealand (ANZ).

For more information on welding PPE, welding fume monitoring, or welding fume extraction options, please contact AWS.

www.awsi.com.au

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References

1. 2019 Honaryar MK, Lunn RM, Luce D, et al. Occup Environ Med



► BY WELDERS. FOR WELDERS

Based in the Netherlands, Translas was founded by welders, for welders, with a passion for innovation and new technologies and have been manufacturing welding guns since 1960.

Translas continually strives to engineer industry leading and innovative products that boast distinctive design, quality, and functionality.