

<b>APPLICATIONS</b>	• Automotive • General Manufacturing & Fabrication • Heavy Equipment
<b>DIMENSIONS</b>	L: 13.74" (349.0 mm)* W: 10.36" (263.2 mm)* H: 22.18" (563.4 mm)* *Base unit only. Optional features may change weight and dimensions
<b>WEIGHT</b>	≈41 lbs (18.6 kg)* *Base unit only. Optional features may change weight and dimensions
<b>RATED INPUT/OUTPUT</b>	24 VDC

## POWER THROUGH WELD SPATTER FOR INCREASED UPTIME AND WELD QUALITY

Tregaskiss® TT4A (analog) and TT4E (ethernet) nozzle cleaning stations maximize uptime through superior cleaning performance, high durability components, and features that allow quick and easy maintenance. You'll spend less time maintaining and troubleshooting your robotic welding equipment and more time getting product out the door as your orders increase.

These reamers power through the toughest spatter with a .95HP motor and 236 lbs. of lifting force at 95 psi. Automated cleaning improves gas flow for reduced weld porosity, rework and scrap in robotic applications.

## KEEP YOUR WELDING OPERATION UP AND RUNNING FOR EXTENDED PERIODS OF TIME WITH HIGH PERFORMANCE COMPONENTS:

- Powerful, lubricated motor lasts up to 18M cycles at 80+ psi
- Durable valves and cylinders rated for 10M+ cycles
- Wire cutter can run 1M+ cycles without requiring maintenance

## NEW STANDARD FEATURES REDUCE DOWNTIME, SAFETY INCIDENTS AND COSTLY WELD DEFECTS RELATED TO ANTI-SPATTER:

- NEW ANTI-SPATTER RESERVOIR (COMES STANDARD)**
- A tethered cap and easy-clean filter help prevent anti-spatter contamination which can lead to weld quality issues
  - Larger 20-oz capacity increases uptime between refills
- NEW LOW FLUID LEVEL INDICATOR (COMES STANDARD)**
- Sends a signal to the PLC / robot when anti-spatter is running low
- NEW SPRAY CONTAINMENT UNIT (COMES STANDARD)**
- Reduces slip / trip hazards and minimizes cleaning downtime costs
  - Easy to remove and clean



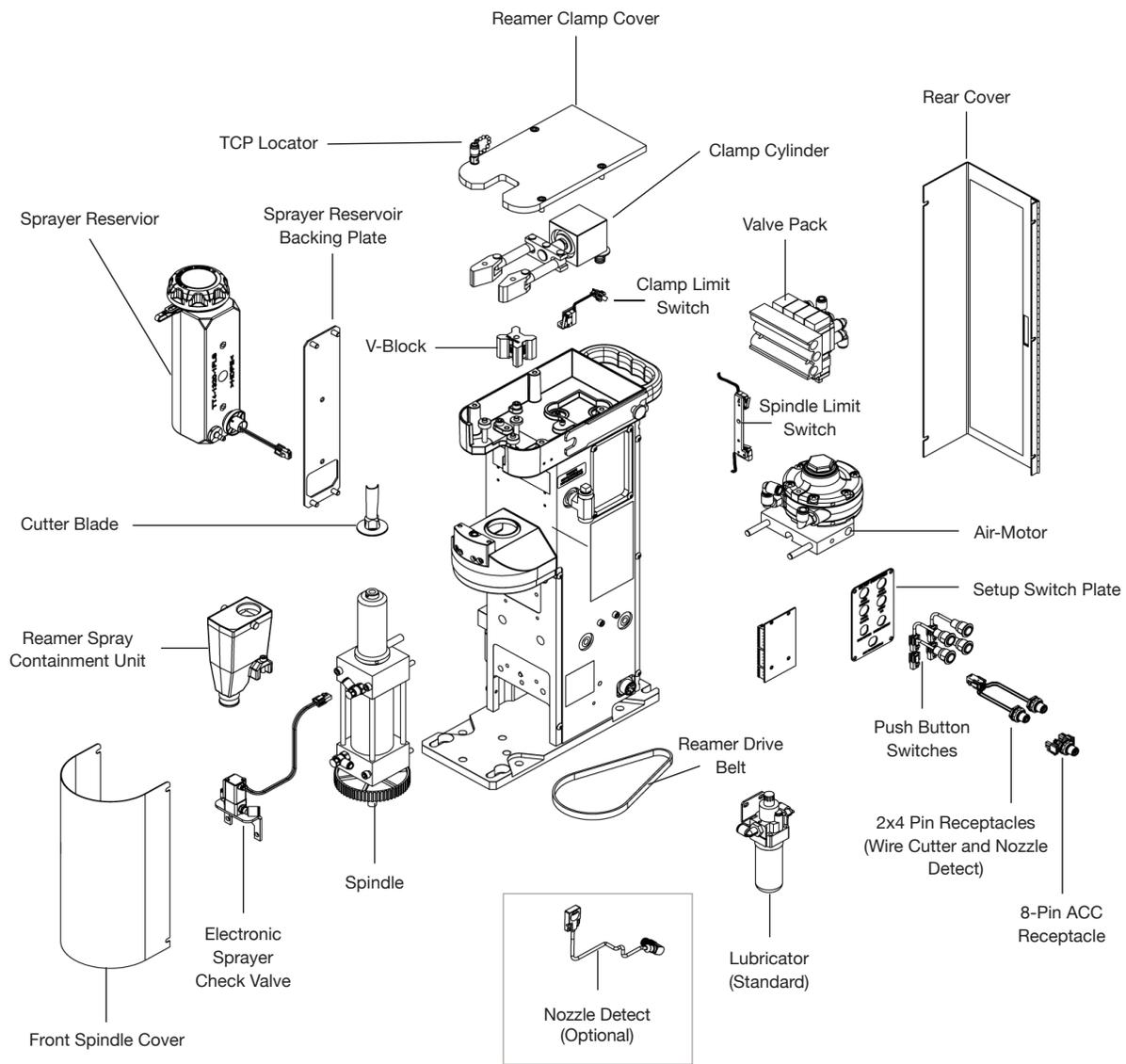
<p><b>ETHERNET OPTION FOR GREATER CONTROL &amp; FLEXIBILITY</b></p>	<p><b>INCREASE PRODUCTION UPTIME &amp; THROUGHPUT</b> EXTEND LIFE OF CONSUMABLES AND INCREASE PRODUCTION UPTIME</p>	<p><b>INDUSTRY-LEADING 2 YEAR WARRANTY</b> EXTEND WARRANTY TO 3 YEARS WITH EXCLUSIVE USE OF TOUGH GARD® ANTI-SPATTER LIQUID</p>
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# SPECIFICATIONS [SUBJECT TO CHANGE WITHOUT NOTICE]

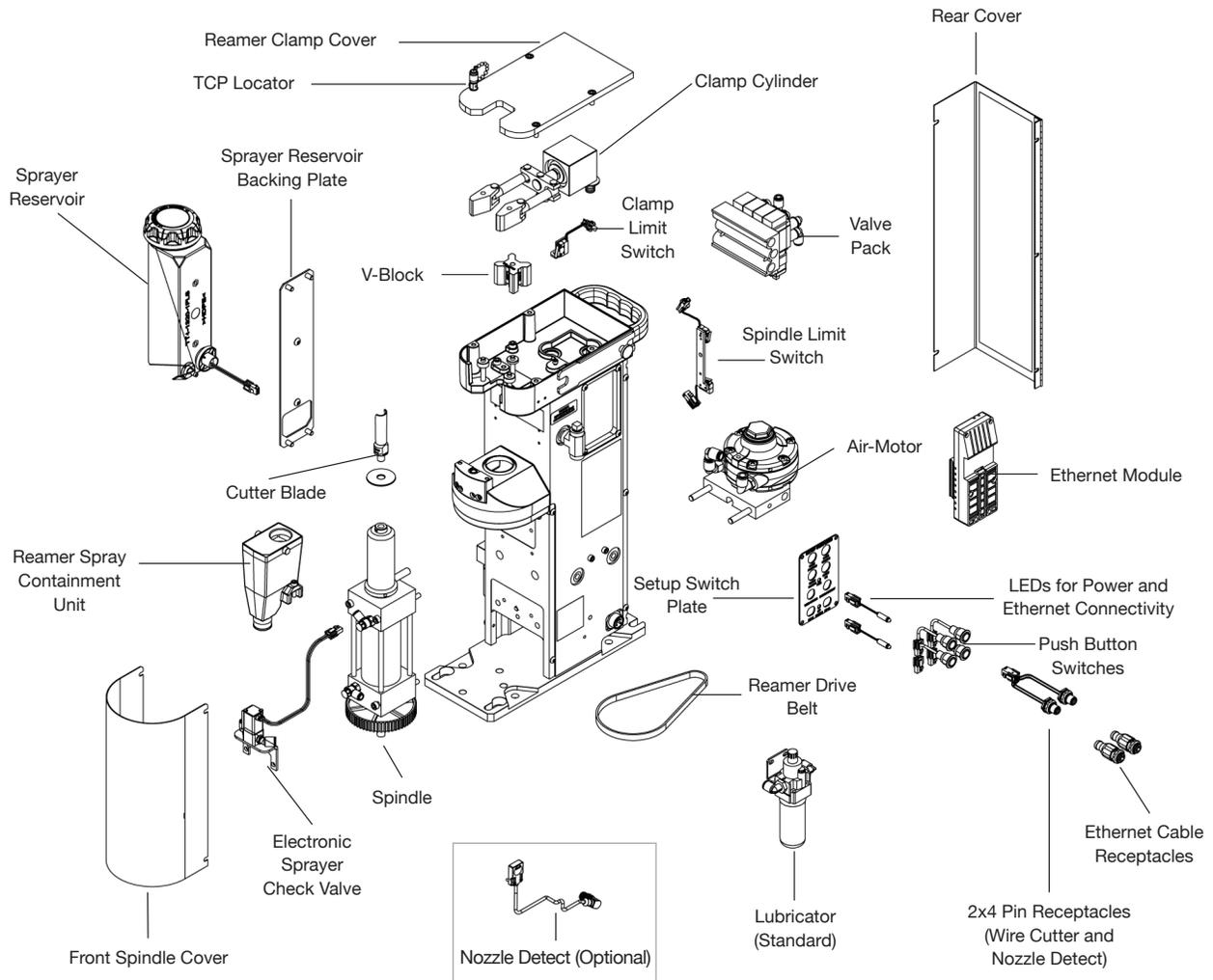
Rated Voltage	Operating Voltage	Power Consumption	Air Requirements (minimum)	Air Motor (at min. air requirement)	Weight	Product Dimensions
24 VDC	±10% of rated voltage	Max. wattage in operation 5.3 W	80 to 100 PSI (5.0 to 7.0 bar) at 16 CFM (450 LPM)	Stall torque at 80 PSI (5.5 bar) = 83 in.-lbs. (9.4 Nm)	≈41 lbs (18.6 kg)*	L: 13.74" (349.0 mm)* W: 10.36" (263.2 mm)* H: 22.18" (563.4 mm)*

\*THE OPTIONAL FEATURES (SOLD SEPARATELY OR SELECTED AS OPTIONS WHEN ORDERING) CAN CHANGE THE WEIGHT AND PHYSICAL DIMENSIONS OF THE PRODUCT.

## TREGASKISS® TT4A REAMER [ANALOG]



# TREGASKISS® TT4E REAMER (ETHERNET)



**TREGASKISS TT4A REAMER AND TT4E REAMER FEATURE COMPARISON**

Feature	Tregaskiss TT4A Reamer (analog)	Tregaskiss TT4E Reamer (ethernet)
Communication protocol	Manual Source/Sink	Signal from PLC
Sprayer comes standard	X	X
Air Motor (0.95 HP)	X	X
Spindle (full stroke distance)	X	X
4-sided v-block for standard size nozzles	X	X
Quick-change base plate	X	X
Daisy chain compatibility to minimize cell wiring		X
Double stroke function		X
Customizable ream cycle		X
Optional wire cutter available*	X	X
Compatible with TOUGH GARD® anti-spatter multi-feed system*	X	X

\*SOLD SEPARATELY

# COMPONENTS

## SPRAYER AND RESERVOIR COMPONENTS

### SPECIFICATIONS

<b>Electrical</b>	24 volts DC 2.5 watts
<b>Pneumatic</b>	80-100 psi at 16 CFM

RECOMMENDED FOR USE WITH TOUGH GARD® ANTI-SPATTER LIQUID (PAGE 8)

### COMPONENTS

<b>TT4-500-15</b>	Spray Assembly
<b>TT4-500-20</b>	Spray Check Valve Assembly
<b>TT4-1320</b>	Reservoir with Wire Connect
<b>TT4-1320KIT</b>	Reservoir Filter and Tethered Cap
<b>TT4-1325</b>	Reservoir Fluid Level Sensor

## CUTTER BLADES

### FOR STANDARD DUTY OR HEAVY DUTY CONSUMABLES

<b>RCT-01</b>	5/8" Bore (configurable), single flute
<b>RCT-04</b>	1/2" Bore (configurable), single flute
<b>RCT-13</b>	3/4" Bore (configurable), double flute

### ORDERED SEPARATELY

<b>RCT-16</b>	15.5 mm Panasonic® 350A, double flute
<b>RCT-17</b>	16 mm Panasonic 500A, double flute
<b>RCT-18</b>	15.5 mm 10 Tip Binzel® WH500T, double flute
<b>RCT-20</b>	0.850 Binzel, double flute
<b>RCT-21</b>	Fronius®, double flute
<b>RCT-D13</b>	13 mm Dinse®, double flute
<b>RCT-D15</b>	15 mm Dinse, double flute
<b>RCT-D18</b>	18 mm Dinse, double flute
<b>RCT-D21</b>	21 mm Dinse, double flute
<b>RC-01</b>	TR Reamer (5/8" Bore), double flute
<b>RC-04</b>	TR Reamer (1/2" Bore), double flute
<b>RC-06</b>	TR Reamer (3/8" Bore), double flute
<b>RC-08</b>	TR Reamer (15.5 mm Bore), double flute
<b>RC-12</b>	TR Reamer (3/4" Bore), double flute

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 BINZEL® IS A REGISTERED TRADEMARK OF ALEXANDER BINZEL GMBH & CO. KG, GERMANY  
 FRONIUS® IS A REGISTERED TRADEMARK OF FRONIUS INTERNATIONAL GMBH  
 DINSE® IS A REGISTERED TRADEMARK OF DINSE INC.

## 4-SIDED V-BLOCKS

V-BLOCK PART #	NOZZLE OUTSIDE DIAMETER (O.D.) FOR EACH SIDE			
<b>TR-2150</b>	0.850"	0.938"	1.062"	1.106"
<b>TR-2161</b>	0.830"	0.978"	0.984"	1.125"
<b>TR-2162</b>	0.875"	0.813"	0.780"	1.000"
<b>TR-2163</b>	0.938"	1.062"	25 mm	21 mm
<b>TR-2164</b>	0.938"	1.062"	1.180"	1.106"
<b>TR-2165</b>	24 mm	26 mm	28 mm	30 mm

(For Panasonic)  
 (For Binzel)



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# CUTTER BLADE AND V-BLOCK CHART

Nozzle Part #	Outside Diameter (O.D.)	Reamer Model	V-Block Part #	Cutter Blade Part # #
401-4-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
401-42-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
401-44-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
401-46-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
401-48-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
401-6-50	1.060" (26.9 mm)	TT4*106004	TR-2150	RCT-04
401-4-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
401-46-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
401-48-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-5-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-6-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-7-62	1.106" (28.1 mm)	TT4*110601	TR-2150	RCT-01
401-72-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-8-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
401-81-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-87-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
401-9-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
401-4-75	0.938" (23.8 mm)	TT4*093812	TR-2150	RCT-13
401-5-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
401-6-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
401-7-75	1.106" (28.1 mm)	TT4*110612	TR-2150	RCT-13
451-6-50	0.938" (23.8 mm)	TT4*093804	TR-2150	RCT-04
451-5-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
451-6-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
451-8-62	0.938" (23.8 mm)	TT4*093801	TR-2150	RCT-01
451-1-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
451-6-75	0.938" (23.8 mm)	TT4*093812	TR-2150	RCT-13
650-5-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
650-6-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
650-5-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
650-6-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
651-5-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
651-6-62	1.060" (26.9 mm)	TT4*106001	TR-2150	RCT-01
651-5-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
651-6-75	1.060" (26.9 mm)	TT4*106012	TR-2150	RCT-13
No Cutter/ No V-Block	—	TT4*XXXXXX	—	—

\*PLACEHOLDER FOR COMMUNICATION TYPE; CHOOSE "A" FOR ANALOG MODEL; "E" FOR ETHERNET MODEL

## COMPONENTS [CONTINUED]



### SPRAY CONTAINMENT — Now Standard!

Improve the working quality of the cell environment. Helps keep areas dry and maintains the cleanliness of the cell. Spray containment ensures anti spatter is captured in an enclosed basin.

**TT4-SC-100** Tregaskiss TT4 Reamer Spray Containment  
**663-1-3** Tregaskiss TT4 Reamer Spray Containment Hose



### MOTOR LUBRICATOR — Now Standard!

This dedicated motor lubricator maximizes performance and protects your investment by extending the life of the motor, and is highly recommended for use in damp and moisture rich environments. Factory set for optimal pneumatic oil lubrication, now standard.

**TT4-2250** Tregaskiss TT4 Reamer Motor Lubricator with Fittings



### RESERVOIR — Now Standard With Double the Fluid Capacity!

Reservoir mounts directly to the reamer frame for increased durability and protection. All reservoirs contain a built in low fluid level indicator which alerts operators when anti spatter fluid is running low. Includes tethered cap and a removable filter.

**TT4-1320** Tregaskiss TT4 Reservoir with Wire Connector

## ADDITIONAL OPTIONS



### TREGASKISS® WIRE CUTTER

The Wire Cutter from removes the ball at the end of the welding wire to provide smooth arc starts and consistent wire stick-out (ideal for Touch Sensing). This system cuts a variety of wire types, including stainless steel, aluminum and flux-core, in sizes up to 1/16" (1.6 mm).

**WC-400** Tregaskiss Wire Cutter  
**WC-400C** Tregaskiss Wire Cutter with shroud (recommended for use in cobot welding applications)



### NOZZLE DETECT

Nozzle Detect for the TT4 Reamer uses a proximity sensor mounted on the side of the reamer that can be used independent of the ream cycle. The robot positions the front end of the MIG torch close to the sensor to detect the presence of the nozzle. If the nozzle is present, a signal is then sent back to the robot controller or PLC.

A nozzle detect system can help alert maintenance personnel that the nozzle is no longer present before a weld is attempted. This helps to reduce rework and scrap caused by welding without a nozzle.

**TT3E-2344** Proximity Sensor for Nozzle Detect  
**519-2** 8-pin, 5m cordset

# ACCESSORIES



## TREGASKISS® REAMER STAND (OPTIONAL)

Tregaskiss provides a competitively priced, simple fixed height durable stand for all Tregaskiss TT4 Reamer models. Tregaskiss reamer stands are available in heights between 18 and 36 inches in 6-inch increments.

<b>RST-18</b>	18-inch height
<b>RST-24</b>	24-inch height
<b>RST-30</b>	30-inch height
<b>RST-36</b>	36-inch height



## TOUGH GARD® MULTI-FEED SYSTEM

Eliminate the need to frequently refill sprayer reservoirs with the TOUGH GARD multi-feed system from Tregaskiss®. Feed up to 10 Tregaskiss reamer units from a single 5-gallon or 55-gallon drum of TOUGH GARD anti-spatter liquid.

- All Tregaskiss TT4 reamer units are multi-feed ready by removing the sprayer reservoir and adding a multi-feed plate
- Can be gravity fed by elevating the position of TOUGH GARD liquid source
- Does not require a pump or power
- A low fluid-level indicator displays when pail or drum requires refilling
- Quick-connects allow fast and easy connection to nozzle cleaners
- Increased safety — eliminates the need for operators to enter robotic cells if pails or drums are located outside
- Each circuit has a dedicated check valve to reduce the risk of poor connections causing leaks

## TOUGH GARD® MULTI-FEED ADAPTER

**TT4-MF-100** Multi-Feed Adapter

## TOUGH GARD® MULTI-FEED SYSTEM

**TG-103-05-2** for 5 Gallon Pail (up to 2 Reamer Units)

**TG-103-05-10** for 5 Gallon Pail (up to 10 Reamer Units)

**TG-103-55-10** for 55 Gallon Drum (up to 10 Reamer Units)

## TOUGH GARD® MULTI-FEED SYSTEM HOSE (sold separately)

**TG-103-100** 100' Multi-Feed Hose (UV Rated)

**TG-103-200** 200' Multi-Feed Hose (UV Rated)

## REAMER TEST BOX

Troubleshoot your Tregaskiss TT4A (analog) reamer robotic nozzle cleaning station quickly and easily with the reamer test box. This test box comes with a 6-foot, 5-pin cordset which allows you to test your reamer from a safe distance to troubleshoot the following:

- Ream cycle
- SINK/SOURCE function(s)
- Sprayer function
- Anti-spatter liquid fluid level signal
- Wire cutter operation (if equipped)
- Nozzle detect function (if equipped)

**RT-1000** Reamer Test Box



# ACCESSORIES (CONTINUED)

## TOUGH GARD® ANTI-SPATTER LIQUID



This ready-to-use water-soluble, non-toxic product creates a sacrificial surface that reduces spatter adhesion. This prolongs the life of your consumables and minimizes downtime due to nozzle cleaning which can help reduce your operating and maintenance costs.



- TG-101-14S** 16.9 fl. oz. / 500 mL
- TG-101-32SP** 32 fl. oz. / 946 mL (spray bottle)
- TG-101-01** 1 U.S. Gallon / 3.78 L
- TG-101-05** 5.28 U.S. Gallon / 20 L
- TG-101-55** 55 U.S. Gallon / 208 L

## FILTER/REGULATOR



The Filter/Regulator unit from Tregaskiss is another recommended accessory that helps extend the life of your Tregaskiss TT4 Reamer. Must be ordered separately.

The filter cleans the air supply to the reamer and restricts debris from reaching the motor, keeping it uncontaminated and ensuring maximum performance and longer life. The regulator works to ensure optimal air pressure is achieved at the unit.

**TT-FR-SMC** Filter/Regulator

# ORDERING INFORMATION

Model			Version	V-Block	Cutter Blade	Option 1	Option 2
<b>T</b>	<b>T</b>	<b>4</b>	<b>A</b>	<b>0938</b>	<b>01</b>	<b>S</b>	<b>L</b>
			<b>A</b> Analog	<b>0938</b> 0.938" (23.8 mm) Nozzle O.D.	<b>01</b> 5/8" (15.9 mm) Bore Standard or HD Consumables	<b>Robotic Applications</b> <b>S</b> Sprayer (standard) <b>W</b> Sprayer + wire cutter <b>N</b> Sprayer + nozzle detect <b>P</b> Sprayer + nozzle detect + wire cutter  <b>Cobot Applications</b> <b>B</b> Sprayer (standard) <b>C</b> Sprayer + wire cutter <b>D</b> Sprayer + nozzle detect <b>A</b> Sprayer + nozzle detect + wire cutter	<b>L</b> Lubricator
			<b>E</b> Ethernet	<b>1000</b> 1.000" (25.4 mm) Nozzle O.D.	<b>04</b> 1/2" (12.7 mm) Bore Standard or HD Consumables		
				<b>1060</b> 1.062" (26.9 mm) Nozzle O.D.	<b>13</b> 3/4" (19.1 mm) Bore Standard, HD or Robotic Water-Cooled Consumables		
				<b>1106</b> 1.106" (28.1 mm) Nozzle O.D.	<b>XX</b> No Cutter		
				<b>XXXX</b> No V-Block			



Configure your Tregaskiss TT4 reamer or reverse lookup your existing TT4 reamer part number to find your replacement parts list!

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