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**BIO-CIRCLE<sup>®</sup>  
PRODUCT LINE**

**ECO-FRIENDLY  
HIGH PERFORMANCE  
CLEANING, DEGREASING  
AND LUBRICATING  
SOLUTIONS**



GAP:3T

# BETTER WORKER SAFETY AND PRODUCTIVITY

## FROM BETTER CLEANING SOLUTIONS



Walter Surface Technologies' Bio-Circle® product line offers high-performance cleaning, degreasing and lubricating solutions that are eco-friendly and improve worker health and safety. Our bio-remediating and bio-renewable liquids replace hazardous solvents and reduce the costs of protecting workers from exposure to toxic chemicals.

Bio-Circle® products create a safer and healthier work environment by using nonflammable, biodegradable, VOC-reduced and VOC-free formulas. Our nature-powered products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Because our focus is maintenance, repair and overhaul (MRO) businesses, as well as industrial manufacturing processes, you can be confident we understand your needs. Walter representatives will analyze your contaminants and cleaning processes and recommend ways to improve productivity. We'll provide a detailed cost-analysis report to help you make informed decisions.

Our industry-leading formulas satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds.

No matter how stringent your cleaning requirements, we can provide the perfect custom solution—to improve working conditions, reduce waste, protect the environment and maximize productivity. Refer to our selection chart on page 192 for quick tips on choosing the right cleaner to get the job done.

## CLEANING BASICS

Before exploring all that Walter's Bio-Circle® product line has to offer, here are some quick and easy tips that will help you choose the right cleaner to get the job done.

Cleaning products are divided into water-based cleaners and solvents. What differentiates water-based cleaners (and the way they remove contaminants) is their pH; they can be acidic, neutral or alkaline. Once you know the required pH for your application, you can easily choose the best cleaner to remove the given contaminant quickly and easily.

Acidic cleaners are used to remove inorganic contaminants such as rust, limescale and mineral deposits from metallic surfaces.

Neutral cleaners are used whenever the use of acidic or alkaline cleaners is a concern, or if the items to be cleaned are delicate.

Alkaline cleaners are used to remove organic contaminants such as grease, oil and protein residues.

	Cleaner type	Products	Comparatives
0	<b>Acidic</b>		Battery acid
	Oxidation Rust Mineral deposits	E-NOX CLEAN POWER CLEANER 100	Gastric acid Vinegar Cola Coffee Beer, wine Saliva
		BIO-RUST	
5	<b>Neutral</b>		Seawater
	Oil, grease, rust	BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO CB 100 ALU	Baking soda Drinking water
10	<b>Alkaline</b>		
	Oil, proteins, grease, wax, resin	CB 100 E-NOX SHINE, UNO S, UNO S F, FT 100, FT 200, GOLD MATRIX READY ALUSTAR 200 STAR 200 ALUSTAR 300	Liquid ammonia Soapy water
14			

### The Cleaning Matrix

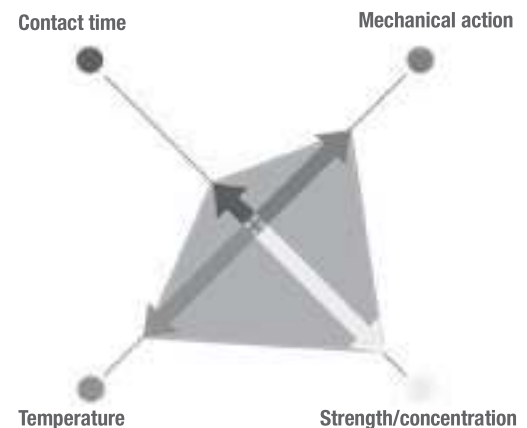
When it comes to cleaning and cleaning efficiency, each product's cleaning performance can be improved by four key elements:

- Contact time
- Mechanical action
- Temperature
- Strength/concentration

If any of these four elements are increased, the performance of your given product will be improved.

For example:

Using a high pressure washer (mechanical) and hot tap water (temperature) mixed with a cleaner in its strongest concentration (power) for 1 minute (time) will result in a given cleaner performance. By increasing the time or the temperature at which you use the product, you will increase the performance of the product.



# CLEANING AND DEGREASING SELECTION CHART

TYPE OF CLEANERS		ALKALINE / NEUTRAL							
Contaminant		<i>Organic:</i> grease, oil, corrosion protection, lubricants, smoke, finger prints, dust, carbon, graphite, soot, etc.							
Cleaning process		Spray and wipe	Ultrasonic bath	Floor washing machine and general maintenance	Pressure washer	Hot parts washer	Automated parts washer	Dip tank	Manual parts washer
Parent material	Steel	GOLD MATRIX READY UNO S F UNO S FT 100 FT 200	CB 100 STAR 200	GOLD MATRIX READY UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	Bio-Circle L Bio-Circle Ultra CB 100
	Stainless steel	GOLD MATRIX READY UNO S F UNO S FT 100 FT 200 E-Nox Shine	CB 100 STAR 200	GOLD MATRIX READY UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	
	Aluminum	FT 100 FT 200 E-Nox Shine	CB 100 ALU ALUSTAR 200 ALUSTAR 300			ALUSTAR 200 ALUSTAR 300	ALUSTAR 200 ALUSTAR 300	CB 100 ALU	Bio-Circle Aero CB 100 ALU
	Copper / Brass	FT 100 FT 200	CB 100 ALU			ALUSTAR 200 ALUSTAR 300	GOLD MATRIX READY ALUSTAR 200 ALUSTAR 300	CB 100 ALU	
	Glass	GOLD MATRIX READY UNO S F UNO S FT 100 FT 200	CB 100	GOLD MATRIX READY UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—
	Plastic	GOLD MATRIX READY UNO S F UNO S FT 100 FT 200	CB 100	GOLD MATRIX READY UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—

Note: It is very important to know the next step after cleaning. For instance, if painting is required after the cleaning operation, a surface preparation cleaner may be recommended.

**Inorganic contaminant:** Mineral-based compounds such as rust, limescale, etc.

**Organic contaminants:** Carbon-based compounds such as oil, grease, etc.

**Other contaminants:** Can be a combination of organic and inorganic contaminants

Neutralization of acidic cleaners: Proper neutralization with an alkaline cleaner is always required to deactivate the acid and prevent damages to the parent material

Steps to proper neutralization:

1. Wipe off the excess of acid
2. Apply an alkaline cleaner
3. Wipe off the surface with a clean rag (rinse and dry when necessary)

ACIDIC					ULTRA-POWERFUL NATURAL CLEANER AND DEGREASER		
<i>Inorganic:</i> rust, corrosion, limescale, calamine, heat tint, etc.					<i>Other:</i> paint, glue, adhesive, ink, wax, tar, etc.		
Spray and wipe	Ultrasonic bath	Hot parts washer	Automated parts washer	Dip tank	Spray and wipe	Ultrasonic bath	Dip tank
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Bio-Rust and Power Cleaner 100	ALL SEASONS PRO CLEAN SC 400 SC 400 FOAM	CB 100	ALL SEASONS PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	ALL SEASONS PRO CLEAN SC 400 SC 400 FOAM	CB 100	ALL SEASONS PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	ALL SEASONS PRO CLEAN SC 400 SC 400 FOAM	CB 100 ALU CB 100 ALU	ALL SEASONS PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	ALL SEASONS PRO CLEAN SC 400 SC 400 FOAM	CB 100 ALU	ALL SEASONS PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
—	—	—	—	—	—	CB 100	CB 100



# CLEANER CHARACTERISTICS

	Fast evaporating	Flammability	pH level	Residue	Short term protection	Long term protection	Rinsable	Dilutable	Biodegradable
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	No	None	Neutral	Yes	Yes	No	Yes	No	Yes
CB 100	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
CB 100 ALU	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
UNO S	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
UNO S F	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
GOLD MATRIX READY	No	None	Alkaline	Yes	No	No	Yes	Yes (up to 1:4)	Yes
STAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 300	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes
E-NOX CLEAN	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
E-NOX SHINE	No	None	Alkaline	Yes	Yes	No	Yes	No	Yes
BIO-RUST	No	None	Slightly acidic	Yes	Yes	No	Yes	No	Yes
POWER CLEANER 100	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
PRO CLEAN	No	Low (102°C/215°F)	---	Yes	---	---	No	No	Yes
ALL SEASON	No	Mod. (66°C/150.8°F)	---	Yes	No	No	No	No	No
SC 400	No	Mod. (45°C/113°F)	---	Yes	---	---	No	No	Yes
SC 400 FOAM	No	High (-60°C/-76°F)	---	Yes	No	No	No	No	No
OMNI	No	Low (125°C/257°F)	---	Yes	Yes	Yes	No	No	No
FT 100	Yes (after wiping)	Mod.(43°C/104°F)	Alkaline	No	No	No	Yes	No	Yes
FT 200	Yes (after wiping)	Mod.(40°C/104°F)	Slightly alkaline	No	No	No	Yes	No	Yes
AF-PL	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
SLAP SHOT	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
CONTACT CLEAN	Yes	None	---	No	No	No	No	No	No

Legend: ● Water-based ● Natural solvent-based ● Oil-based ● Solvent-based



#### Accepted for use in food plants

Products with this logo presented are accepted for use in food plants within Canadian borders.



#### Volatile Organic Compounds Free

Consumers today are far more knowledgeable regarding products containing potentially toxic levels of volatile organic compounds, commonly known as VOCs. Paints, stains, and varnishes have long contributed considerably to the prolific release of VOCs, sometimes known as off-gassing. This explains the growing popularity of low-VOC and VOC-free products. Products where you see the VOC-free logo guarantee that they contain no volatile organic compounds.

# CLEANER APPROVALS

	TSCA 8b listed	DSL/NDSL compliant <sup>2</sup>	NSF approved <sup>1</sup>	Accepted for use in food plants in Canada
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	Yes	Yes	Yes	Yes
CB 100	Yes	Yes	Yes	Yes
CB 100 ALU	Yes	Yes	No	No
UNO S	Yes	Yes	Yes	Yes
UNO S F	Yes	Yes	Yes	Yes
GOLD MATRIX READY	Yes	Yes	No	No
STAR 200	Yes	Yes	No	Yes
ALUSTAR 200	Yes	Yes	Yes	Yes
ALUSTAR 300	Yes	Yes	Yes	Yes
E-NOX CLEAN	Yes	Yes	Yes	Yes
E-NOX SHINE	Yes	Yes	Yes	Yes
BIO-RUST	Yes	Yes	Yes	No
POWER CLEANER 100	Yes	Yes	Yes	Yes
PRO CLEAN	Yes	Yes	Yes	Yes
ALL SEASON	Yes	Yes	No	No
SC 400	Yes	Yes	No	No
SC 400 FOAM	Yes	Yes	Yes	No
OMNI	Yes	Yes	Yes	Yes
FT 100	Yes	Yes	Yes	No
FT 200	Yes	Yes	Yes	Yes
AF-PL	Yes	Yes	No	No
SLAP SHOT	Yes	Yes	Yes	Yes
CONTACT CLEAN	Yes	Yes	Yes	No

<sup>1</sup> National Sanitation Foundation

<sup>2</sup> Domestic Substances List



### Nonfood Compounds Program

The global food industry relies upon nonfood compounds to facilitate the efficient processing, handling and storage of food throughout the supply chain. Nonfood compounds include such substances as cleaners, sanitizers, boiler compounds and lubricants. NSF International Nonfood Compounds Registration Program provides beneficial product information to three important stakeholder groups.



### Low Energy Surfactant (LES) technology

These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today! NOTE: Dilution up to 1:200

**CLEANER  
SELECTOR APP**

# Choose the right cleaner every time!

By answering three simple questions, the Bio-Circle Cleaner Selector app leads you to the perfect cleaner/degreaser that will get the job done quickly and easily.

- 1. Choose the contaminant you want to clean**
- 2. Choose the surface material**
- 3. Choose your cleaning method**

This app will recommend the ideal cleaner/degreaser for your requirements and provide you with valuable information, features and benefits, applications, tips as well as access to SDS/TDS, videos and free samples!





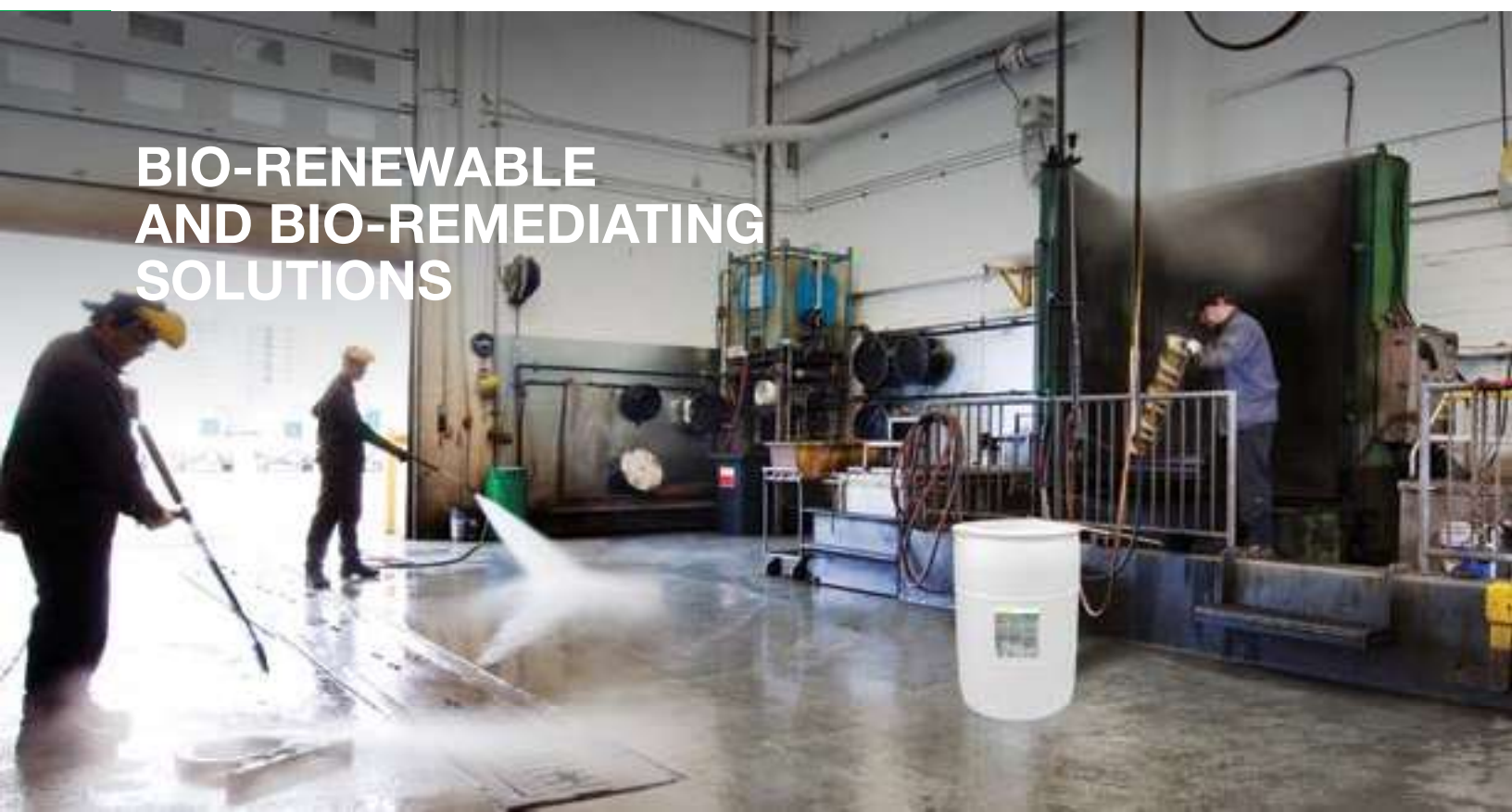
## LIQUIDS AVAILABLE SIZES

Our Bio-Circle® nature-powered cleaning and degreasing products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Our industry-leading Bio-Circle® formulas and delivery systems can satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds. No matter how stringent your cleaning requirements, Walter's team of Bio-Circle® experts will provide you with the perfect custom solution—one that improves working conditions, reduces waste, protects the environment, and maximizes productivity.



# BIO-RENEWABLE AND BIO-REMEDICATING SOLUTIONS



## BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. Working exceptionally well at room temperature, these solutions only need periodical oil skimming.

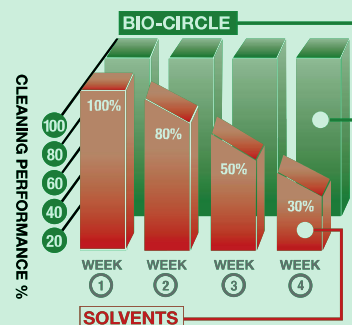
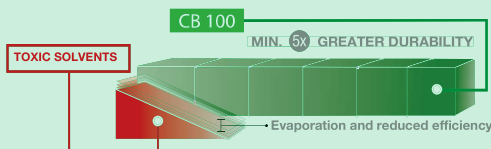
Bio-renewable cleaning liquids are powered by Nature Boost™ an exclusive and powerful ingredient derived from plant-based extracts. Bio-renewable solutions keep their full cleaning power over a longer period of time than toxic solvents because the oil separates and floats to the surface, allowing you to skim oils from the top of your tank.

## BIO-REMEDICATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

Our bio-remediating family of cleaners contain live micro-organisms that digest oils and other organic contaminants, turning them into water and carbon dioxide. Bio-remediating liquids maintain their cleaning power over time, an economical and environmental advantage over toxic solvents and weaker water based systems.

### Durability comparison





# BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. These solutions work exceptionally well at room temperature and only require periodical oil skimming.

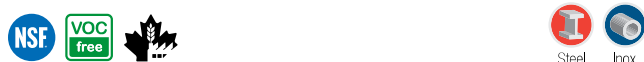
## CB 100™

Natural industrial-strength cleaner and degreaser  
CB 100™ is next-generation cleaning technology. Powered by our exclusive Nature Boost™ formula, CB 100™ is unsurpassed in its ability to remove the most stubborn industrial contaminants.

**NSF category C1, registration #148555**

### Applications

- ▷ *Cleaning asphalt from paving equipment*
- ▷ *Removing tough greases from gears and bearings*



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz.	53-G 163	L-155	12
Liquid	3.78 L	1 gal	53-G 165	L-155	1
Liquid	20 L	5.2 gal	53-G 167	L-155	1
Liquid	208 L	55 gal	53-G 168	L-155	1
Liquid	1000 L	264 gal	53-G 169	L-155	1



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Cuts through contaminants most solvents can't touch*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC-free*

## CB 100 ALU™

Natural industrial-strength cleaner and degreaser for non-ferrous alloys

CB 100™ ALU is a powerful cleaner/degreaser powered by our unique Nature Boost™ technology. Similar to the CB 100™ cleaning solution, yet specially designed for cleaning aluminum and sensitive alloys. Replaces hazardous solvents and petroleum-based products for improved health and safety in the workplace.

**NEW AND IMPROVED FORMULA!**  
**25% LESS RESIDUE**

### Applications

- ▷ *Removing coolants and cutting oils from parts in machine shops*
- ▷ *Degreasing engine components during repair and rebuild operations*



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 fl.oz.	53-G 123	L-158	12
Liquid	3.78 L	1 gal	53-G 125	L-158	1
Liquid	20 L	5.2 gal	53-G 127	L-158	1
Liquid	208 L	55 gal	53-G 128	L-158	1
Liquid	1000 L	264 gal	53-G 129	L-158	1



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Eliminates material compatibility issues*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC free*
- ▷ *Formulated with special corrosion protection*

# BIO-REMEDIATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

## BIO-CIRCLE® L

Bio-remediating parts cleaner and degreaser

Bio-Circle® L is a top-selling Bio-remediating parts cleaner and degreaser used in thousands of operations worldwide. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #141285**

### Applications

- ▷ *Parts cleaning*
- ▷ *Facility maintenance*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 007	L-78	1
Liquid	208 L	55 gal	55-A 008	L-78	1
Liquid	1000 L	264 gal	55-A 009	L-78	1



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Pleasant scent—no harsh fumes or vapors*
- ▷ *Safe on skin*

## BIO-CIRCLE® ULTRA



Extra powerful bio-remediating parts cleaner and degreaser

Bio-Circle® Ultra is a bio-remediating parts cleaner and degreaser that easily cuts through some of the toughest industrial contaminants including crude oil, bitumen, and heavy grease. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #145549**

### Applications

- ▷ *MRO and production*
- ▷ *Rebuild and repair operations*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 107	L-148	1
Liquid	208 L	55 gal	55-A 108	L-148	1
Liquid	1000 L	264 gal	55-A 109	L-148	1



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Powered by Nature Boost™, an exclusive, highly effective natural ingredient*
- ▷ *Pleasant scent—no harsh fumes or vapors*

## BIO-CIRCLE® AERO

Bio-remediating parts cleaner and degreaser for aircraft use

Bio-Circle® Aero liquid is a bio-remediating parts cleaner and degreaser designed to meet the aeronautical industry's stringent requirements. Safe for use with aluminum and other sensitive alloys.

### Applications

- ▷ *Airport maintenance*
- ▷ *Aerospace parts manufacturing*



Brass

Alu.

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 207	L-161	1
Liquid	208 L	55 gal	55-A 208	L-161	1
Liquid	1000 L	264 gal	55-A 209	L-161	1

### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Eliminates material compatibility issues*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*

### Features

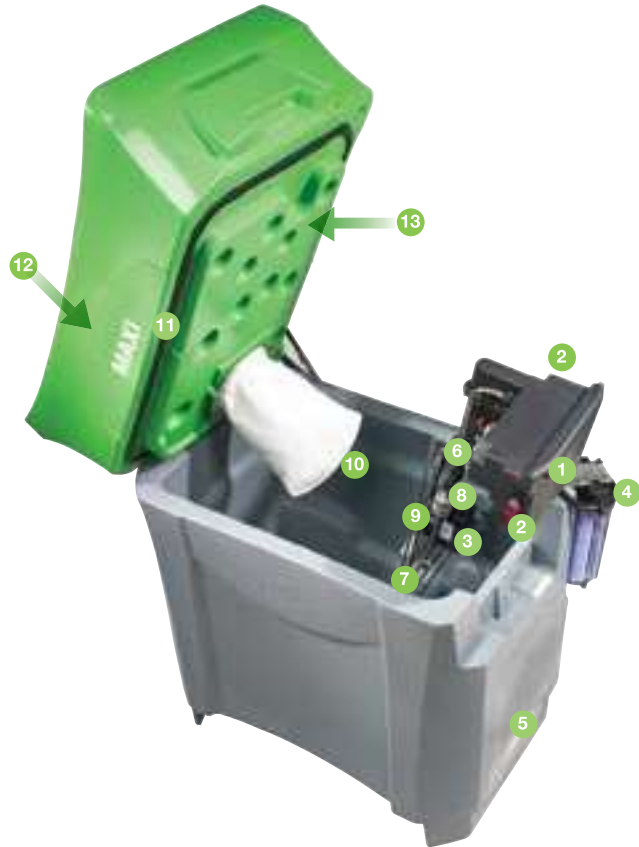
- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Conforms to: Boeing D6-17487 Revision R Douglas Aircraft Company CSD No.1 (Type I) AMS 1526C*
- ▷ *Non-hazardous, nonflammable, VOC-free, pH neutral*
- ▷ *Safe for all metals and most surfaces*



# PARTS WASHER FEATURES

If you're looking to create a safer workplace without compromising performance, our Bio-Circle® MAXI industrial parts washer is built for you. This cutting-edge cleaning and degreasing system is sturdy, reliable, low maintenance, and specially designed for water-based cleaning, allowing you to quickly power through the most demanding cleaning jobs. When paired with Bio-Circle® or CB 100™ solutions, our parts washer will transform your cleaning operations, making them easy, eco-friendly, efficient and safe.

- 1 Electronically controlled PCB board with onboard diagnostics
- 2 LED flashing push button: *Flashing LED push button displays machine status*
- 3 Air pump: *Provides air circulation and convection*
- 4 In-line filter housing: *Ensures filtration of heavy metal pieces and contaminants*
- 5 CSA certified: *Conforms to industry standards for safety compliance materials and electronics*
- 6 Fluid pump: *Electronically controlled fluid pump for liquid circulation*
- 7 Air diffuser: *Distributes air evenly for maximum circulation*
- 8 Probe: *Rugged stainless probe construction houses temperature and thermal shut-off safety sensors*
- 9 Heater: *Liquid heating ensures optimal cleaning performance*
- 10 Under-sink filter bag : *Ensures filtration of heavy metal pieces and contaminants*
- 11 Gasket: *Prevents unwanted liquid evaporation*
- 12 Sink filter assembly:
  - Magnet: *Traps metallic particles*
  - Flapper: *Prevents unwanted liquid evaporation*
  - In-sink filters: *Filter meshes (2 sizes) trap heavy metal pieces and contaminants*
- 13 Two-way valve:
  - Flexible articulated hose: *Provides steady stream of liquid for cleaning*
  - Multijet flow-through brush: *Provides steady stream of liquid for cleaning, plus integration brush for scrubbing*



## BIO-CIRCLE® MAXI

Order No.	Dimensions	Max tank capacity	Load capacity
55-D 600	97 x 69 x 110 (38" x 27" x 43")	140 L (37 gal)	220 Kg (500 lbs)

ACCESSORIES	Order No.
Sink lid	55-B 047
Stainless steel sink insert	55-B 048
Casters	55-B 049

# BIO-RENEWABLE START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and ultra-powerful natural cleaning and degreasing solutions.



## ***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
CB 100	55-D 615CBP
CB 100 ALU	55-D 615CBAP

## ***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
CB 100	55-D 615CBD
CB 100 ALU	55-D 615CBAD

# BIO-REMEDICATING START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and safe and efficient BIO-REMEDICATING cleaning solutions. These Bio-Circle® liquids maintain their cleaning power over time, a clear advantage over solvents.



## ***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLP
Bio-Circle® ULTRA	55-D 600BCUP
Bio-Circle® Aero	55-D 600BCAP

## ***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLD
Bio-Circle® ULTRA	55-D 600BCUD
Bio-Circle® Aero	55-D 600BCAD

# WALTER AND GRAYMILLS

PARTNERS IN SUPERIOR PARTS CLEANING SOLUTIONS

*Graymills parts washer systems perfectly complement Walter's cleaning and degreasing solutions.*

*We've got you covered! Combine Bio-Circle®'s array of parts washing liquids with Graymills' range of ultrasonic, automated or small parts washers for great results.*



## GRAYMILLS

Graymills order no. PH922

*Easy to use, it offers quick on-site cleaning of shop parts. This modular washer features an integrated sink and holding tank for efficient cleaning.*



## BIOMATIC

Graymills order no. BIO922

*Uses a bioremediation process involving hydrocarbon converting microbes to reduce solid waste and eliminate fluid disposal.*



## THE PERFECT MATCH!

*Get great results when paired with Walter's CB 100™, Bio-Circle® or STAR™ parts washing liquids.*



For more information, visit  
**Graymills.com**

Toll-free customer service: 1 877-465-7867



# INDUSTRIAL CLEANING AND DEGREASING

Bio-Circle's UNO™ family of cleaning and degreasing products are ideal for various applications conducted at room temperature. Save time and money with UNO™ and its Low Energy Surfactant (LES) technology which allows the product to achieve optimal results at ambient temperature.

## UNO™ S

Concentrated cleaner and degreaser

UNO™ S is a highly concentrated, powerful foaming cleaner/degreaser that lifts dirt and grease fast. Ideal for manual spraying applications. Excellent substitute for solvent-base cleaners.

**NSF category A1, registration #142608**

### Applications

- ▷ *Cleaning stainless steel equipment in food industry*
- ▷ *Removal of cutting fluids, stamping oils and grease*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 033	L-143	12
Liquid	3.78 L	1 gal	53-G 035	L-143	1
Liquid	20 L	5.2 gal	53-G 037	L-143	1
Liquid	208 L	55 gal	53-G 038	L-143	1
Liquid	1000 L	264 gal	53-G 039	L-143	1

## UNO™ SF

Concentrated foamless cleaner and degreaser

UNO™ SF is a highly concentrated, powerful foamless cleaner/degreaser that can cut through dirt and grease throughout your facility. Uses range from floor washing and pressure washing of large parts to automatic parts washers. Excellent substitute for solvent-base cleaners. **NSF category A1, registration #142609**

### Applications

- ▷ *Cleaning of stainless steel equipment*
- ▷ *Removal of cutting fluids, stamping oils and grease*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 023	L-48	12
Liquid	3.78 L	1 gal	53-G 015	L-48	1
Liquid	20 L	5.2 gal	53-G 017	L-48	1
Liquid	208 L	55 gal	53-G 018	L-48	1
Liquid	1000 L	264,6 gal	53-G 019	L-48	1



### Benefits

- ▷ *Versatile — can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, phosphate-free, VOC-free*
- ▷ *Foaming action for increased contact time*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Dilutable up to 1:40*



### Benefits

- ▷ *Versatile—can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Foamless for high-pressure or agitation cleaning systems*
- ▷ *Dilutable up to 1:40*

# GOLD MATRIX READY™ NEW

All-purpose cleaner and degreaser

GOLD MATRIX READY™ is a foamless formulation which makes it ideal for applications where foaming could interfere in the cleaning process. Ideal for trigger sprayer applications, hot parts washers, ultrasonic baths, dip tanks, floor cleaners and pressure washers. Removes oils, greases, organic contaminants, pigment coating, markers, smoke, dust, carbon deposits, etc.



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 fl.oz.	53-G 073	L-68	12
Liquid	3.78 L	1 gal.	53-G 076	L-68	1
Liquid	20 L	5.2 gal.	53-G 077	L-68	1
Liquid	208 L	55 gal.	53-G 078	L-68	1
Liquid	1000 L	264 gal.	53-G 079	L-68	1

ACCESSORIES	Order No.
Spout for 5L pail	53-L 113
Spout for 20L pail	53-L 207
Faucet for 208L drum, 2"	53-L 209
Faucet for 208L drum, 3/4"	53-L 210
Replacement trigger sprayer, 500 ml	53-L 315

### Applications

- ▷ Facility maintenance
- ▷ Cleaning of stainless steel equipment
- ▷ Removes oils, greases, organic contaminants, carbon deposits, etc.

### Benefits

- ▷ High strength formula, ready to use
- ▷ Can be heated up to 90°C (194°F) for maximum cleaning
- ▷ Creates a safer, healthier work environment

### Features

- ▷ Foamless for high pressure or agitation cleaning
- ▷ Non-hazardous, non-flammable, VOC-free
- ▷ Built-in corrosion inhibitors to prevent flash rusting

## STAR™ LINE OF CLEANERS AND DEGREASERS FOR AUTOMATED PARTS WASHERS

An excellent substitute to solvent-based cleaners! Save on energy and costs with Low Energy Surfactant (LES) Technology! These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today!

### STAR™ 200

Concentrated alkaline cleaner/degreaser for parts washing systems

STAR™ 200 is a foamless demulsifying alkaline cleaner/degreaser specially formulated for cleaning iron, cast iron, steel, and stainless steel. Excellent at dissolving thick oil, grease, lubricants, and grime.

### Applications

- ▷ Hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Maintenance, repair, and cleaning applications



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 067	L-107	1
Liquid	208 L	55 gal	53-G 068	L-107	1
Liquid	1000 L	264 gal	53-G 069	L-107	1

### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Short term built-in corrosion inhibitors

## ALUSTAR™ 200

Automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 200 is a foamless demulsifying cleaner/degreaser that dissolves and removes thick oil, grease, lubricants, and grime from aluminum and other nonferrous alloys. Ideal for applications that are subject to strict cleaning specifications.

**NSF category A8, registration #145452**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Removing cutting oils after machining

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-G 705	L-79	1
Liquid	20 L	5.2 gal	53-G 707	L-79	1
Liquid	208 L	55 gal	53-G 708	L-79	1
Liquid	1000 L	264 gal	53-G 709	L-79	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Low Energy Surfactant Technology cleans at lower temperatures

## ALUSTAR 300™

Heavy-duty automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 300 is a foamless demulsifying cleaner/ degreaser that easily dissolves and removes persistent oil, grease, lubricants and grime from aluminum, steel, and stainless steel. Excellent for heavy-duty maintenance, repair, and operations cleaning applications.

**NSF category A8, registration #145453**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Heavy-duty maintenance, repair, and cleaning applications

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 757	L-106	1
Liquid	208 L	55 gal	53-G 758	L-106	1
Liquid	1000 L	264 gal	53-G 759	L-106	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Short term protection

## Corrosion Inhibitor

For STAR™ and UNO™ family of aqueous cleaners  
Provides additional corrosion protection when used with aqueous cleaners. Is concentrated, 100% active ingredients and is foamless.

### Applications

- ▷ Use with any UNO™ and STAR™ Cleaning Solution
- ▷ Add to cleaning solution and/or rinsing water



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 001	L-56	1
Liquid	20 L	5.2 gal	53-G 927	L-56	1
Liquid	208 L	55 gal	53-G 928	L-56	1



### Features

- ▷ Non-flammable. Non-hazardous
- ▷ Solvent, phosphate and butyl-free
- ▷ Protects steel parts and equipment from flash-rust

## Defoamer additive

For STAR™ and UNO™ family of aqueous cleaners  
Quick and permanent foam dissipation for aqueous cleaners.  
Comes concentrated with a suggested dilution rate of 0.5% to 1%.



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 002	L-57	1
Liquid	20 L	5.2 gal	53-G 937	L-57	1



### Features

- ▷ Silicone-free
- ▷ Eliminates all foaming with water-based products

## Titration Kit

For use with STAR™ and UNO™ family of products  
High concentration cleaning solutions such as the STAR™ and UNO™ family can be diluted with water to alter the cleaning strength of the product. With the titration kit, you can easily determine the exact level of concentration of your solution to maintain a high level of cleaning productivity.

### Applications

- ▷ For use with automated mechanical cleaning systems
- ▷ For immersion tank

Order No.	(M)SDS	Std. Pkg.
53-L 160	L-145 L-144	1



## Proportioning system

Offers a complete system for dispensing BIO-CIRCLE® bulk aqueous cleaners. It will automatically dilute the solution and fill spray bottles, buckets and other containers.

Order No.	Std. Pkg.
53-L 162	1

### Features

- ▷ 2 high flow (bucket feed)
- ▷ 2 low flow (bottle feed)
- ▷ Push button activated
- ▷ Metering tips from 350:1 to 3.5:1 at 3.5 GPM

# STAINLESS CLEANING

## E-NOX CLEAN™

High strength stainless steel cleaner

E-NOX CLEAN™ is a highly concentrated gel formulation cleaner that removes tarnish, rust, and mineral deposits and brightens surfaces. Outperforms abrasives while saving time and energy.

**NSF category A3, registration #142614**

### Applications

- ▷ *Brightening stained and exposed finishes*
- ▷ *Cleaning of food and pharmaceutical equipment*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Gel, trigger sprayer	500 ml	16.9 fl.oz.	53-G 303	L-59	12
Liquid	3.78 L	1 gal	53-G 305	L-59	1
Liquid	20 L	5.2 gal	53-G 307	L-59	1
Liquid	208 L	55 gal	53-G 308	L-59	1



### Benefits

- ▷ *Fast acting*
- ▷ *Clean, precise application minimizes dripping*
- ▷ *Improves efficiency*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Safe for use on aluminum, chrome, and other nonferrous metals*
- ▷ *Free of nitric and hydrochloric acid*
- ▷ *Gel sticks to vertical surfaces*

## E-NOX SHINE™

Stainless steel cleaner and protector

E-NOX SHINE™ is a surface cleaner designed to remove light contaminants such as dust, light oils, and fingerprints prior to shipping. Creates a thin, invisible protective film to preserve the quality of your work until it reaches its final destination.

**NSF category P1, registration #131393**

### Applications

- ▷ *Removing oil, carbon, light dirt, and fingerprints*
- ▷ *Brightening and protecting indoor finishes*

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 403	L-102	12
Liquid	3.78 L	1 gal	53-G 405	L-102	1
Liquid	20 L	5.2 gal	53-G 407	L-102	1
Liquid	208 L	55 gal	53-G 408	L-102	1



### Benefits

- ▷ *Gives finished work a polished, flawless look*

### Features

- ▷ *Nonflammable, silicone-free, phosphate-free*
- ▷ *Uniform finish, no streaking*
- ▷ *Ready to use*

# RUST-REMOVAL AND BRIGHTENING

## BIO-RUST™

Non-caustic rust remover

BIO-RUST™ is a non-caustic that safely eliminates rust on all ferrous alloys. **NSF category A2, registration #146173**

### Applications

- ▷ Removal of rust and other metallic particles
- ▷ We recommend degreasing parts before using BIO-RUST™.



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 243	L-134	12
Liquid	20 L	5.2 gal	53-G 247	L-134	1
Liquid	208 L	55 gal	53-G 248	L-134	1

### ACCESSORIES

	Order No.
Chrome plated drum pump	53-L 116
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209

Use with CleanBox® Dip for pre-soaking

Order no.: 55-D 010 (See details page 221)  
Order no. for dolly: 55-B 083



### Benefits

- ▷ Reduces scrap rate
- ▷ Requires less time and effort than abrasives
- ▷ Safe to handle and store

### Features

- ▷ Removes rust without attacking surface material
- ▷ Slightly acidic pH range, non-caustic and biodegradable
- ▷ Nonflammable, phosphate-free, VOC-free
- ▷ Non-hazardous—OSHA and WHMIS compliant

## POWER CLEANER 100™

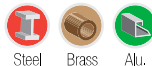
Rust and mineral remover plus brightener

POWER CLEANER 100™ is a highly concentrated cleaner/brightener that quickly breaks down rust, dissolves limescale, eliminates mineral deposits, and brightens metallic surfaces.

**NSF category A3, registration #141944**

### Applications

- ▷ Removing rust, limescale, and mineral deposits on sheet metal, metallic structures, heating coils, pumps, heat exchanger plates, and storage tanks
- ▷ Brightening metallic surfaces



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 253	L-23	12
Liquid	3.78 L	1 gal	53-G 255	L-23	1
Liquid	20 L	5.2 gal	53-G 257	L-23	1

### ACCESSORIES

	Order No.
Spout for 20 L square plastic pail	53-L 207
Empty refillable trigger sprayer for POWER CLEANER 100	53-L 309



### Benefits

- ▷ Fast acting
- ▷ Easier and more efficient than manual rust removal
- ▷ No need to salvage rusted parts or equipment

### Features

- ▷ Does not contain nitric, hydrofluoric or hydrochloric acid
- ▷ Fully restores dull or tarnished metal surfaces
- ▷ Can be diluted up to 1:40 with water

# PAINT, INK, GLUE AND ADHESIVE CLEANING

## SC 400™

High strength citrus solvent  
 Formulated with citrus peel extracts, SC 400™ is a heavy duty, powerful, fast-acting alternative to petroleum-based solvent cleaners. Easily removes adhesives, glues, sealants, rubber residues, tar, paint, ink, pen marks, grease, lubricants, and oils.

### Applications

- ▷ *Cleaning machine parts, tools, pumps, gears*
- ▷ *Not for use on plastics, rubber, and other solvent-sensitive materials*



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 513	L-68	12
Liquid	3.78 L	1 gal	53-G 516	L-68	1
Liquid	20 L	5.2 gal	53-G 517	L-68	1
Liquid	200 L	52.8 gal	53-G 518	L-68	1

ACCESSORIES	Order No.
Industrial pump sprayer	53-L 120
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208
Empty refillable trigger sprayer for SC 400	53-L 313
Bio-Circle Air Drying Gun	55-B 085



### Benefits

- ▷ *Cuts through contaminants quickly and effectively*
- ▷ *Slow drying formula covers larger surface areas*
- ▷ *Safer than more flammable alternatives*

### Features

- ▷ *Formulated with 100% natural and renewable ingredients*
- ▷ *Low residue, slow drying*
- ▷ *High flash point 113 °F (45 °C)*

## SC 400™ FOAM

High strength adhesive and ink remover  
 SC 400™ Foam is a high strength solvent with which adhesive substances even when hardened can be removed. Special additives enable a long-lasting depth effect of the solvent so that even the most difficult dried adhesive films can be cleaned.

**NSF category K3, registration #156603**

### Applications

- ▷ *Cleaning machine parts, tools, pumps, gears*
- ▷ *Not for use on plastics, rubber, and other solvent-sensitive materials*



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 fl.oz.	53-G 512	L-171	12



### Benefits

- ▷ *Removes labels, adhesive, sealing materials, carbon residues, lacquers, greases, oils, resin, tar, lubricant and sliding means residues*
- ▷ *Suitable for metal, wood, ceramics, glass*
- ▷ *The corrosion protection agent protects the metal surface on bare metal parts*

### Features

- ▷ *Special additives to enable long-lasting depth effect*
- ▷ *Colourless*

## PRO CLEAN™



High strength natural solvent

Made from bio-renewable extracts, PRO CLEAN™ is a powerful, 100% concentrated solvent that removes hard-to-clean contaminants. Its Nature Boost™ formula quickly and easily removes paint, ink, adhesives, anti-corrosion waxes, resins and tar.

**NSF category K3, registration number 146172**



Description	Size		Order No.	(M)SDS
	Metric	US Gal		
Sprayer	500 ml	16.9 oz.	53-G 523	L-169
Liquid	3.78 L	1 gal	53-G 525	L-169
Liquid	20 L	5.2 gal	53-G 527	L-169
Liquid	208 L	55 gal	53-G 528	L-169



### Benefits

- ▶ *Creates a safer, more pleasant work environment*
- ▶ *Safer to handle than toxic and volatile solvents*
- ▶ *Improves sustainability*
- ▶ *Reduces workplace liability*

### Features

- ▶ *Formulated with natural and bio-renewable ingredients*
- ▶ *Test before use on rubber*
- ▶ *Non-corrosive*
- ▶ *High-strength formulation—fast acting, very effective*

## ALL-SEASON™

**NEW**

Powerful all-weather cleaner

ALL-SEASON™ is a less toxic alternative to solvent cleaning for tough applications, even at the most extreme temperatures. Bitumen, tar and asphalt don't stand a chance even at cold temperatures. ALL-SEASON™ is the perfect alternative to solvent based and d-limonene based cleaners.

### Applications

- ▶ *Can be used in spray applications for manual cleaning or pressure washing for large surface applications*
- ▶ *Provides high solvency for fast and easy removal of tough contaminants: grease, oils, tar, asphalt and bitumen*



Description	Size		Order No.	(M)SDS
	Metric	US Gal		
Sprayer	500 ml	16.9 oz.	53-G 553	L-175
Liquid	3.78 L	1 gal	53-G 555	L-175
Liquid	20 L	5.2 gal	53-G 557	L-175
Liquid	208 L	55 gal	53-G 558	L-175
Liquid	1000 L	264 gal	53-G 559	L-175

### ACCESSORIES

	Order No.
Industrial pump sprayer	53-L 120
Spout for 20 L pail	53-L 207
Spout for 208 L drum	53-L 209
CleanBox® Dip Bio-Circle®	53-L 010



### Benefits

- ▶ *High-strength formulation, fast acting, very effective*
- ▶ *Ready-to-use formulation, no dilution required*
- ▶ *Safe on all metals, non-corrosive*

### Features

- ▶ *Formulated to clean at any temperature, from -50°C (-58°F) to over 100°C (212°F)*
- ▶ *Separates from water for easier recovery of waste*
- ▶ *VOC-reduced*



# PRE-PRIMING PRE-SHIPPING

## FT 100™

Stainless steel and glass surface cleaner

FT 100™ is a surfactant-free, fast-drying cleaning agent that removes light oil pollution, dust, fingerprints, felt pen, and pencil residues from lacquered surfaces, plastics, glass, mirrors, metals, and all highly polished glossy surfaces.

**NSF category A1, registration #154672 (liquids), #156602 (aerosol)**

### Applications

- ▷ Final step before any treatment in process (painting, varnish, sealing, gluing, coating, etc.)
- ▷ Final step before showcasing a final product

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-G 182	L-172	12
Sprayer	500 ml	16.9 oz.	53-G 183	L-167	12
Liquid	20 L	5.2 gal	53-G 187	L-167	1
Liquid	208 L	55 gal	53-G 188	L-167	1



Plastic Glass and Mirror All Metals

## FT 200™

Fast drying surface preparation cleaner

FT 200™ prepares metallic surfaces for painting, priming, coating, bonding, corrosion protection, metalizing, welding, and a variety of other processes. Evaporates after it's wiped off surfaces. Lasts 7x longer than traditional fast-evaporating surface preparation solvents such as acetone.

**NSF category A1, registration #142612**

### Applications

- ▷ Preparing metallic surfaces prior to coating
- ▷ Removal of light contaminants such as processing oils, anti-corrosion oils, and light waxes

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 173	L-128	12
Liquid	20 L	5.2 gal	53-G 177	L-128	1
Liquid	208 L	55 gal	53-G 178	L-128	1



Plastic Glass and Mirror ALU. All Metals



### Benefits

- ▷ Leaves no residue, streaks, or stains
- ▷ Ready to use

### Features

- ▷ One product for multiple processes and surfaces
- ▷ Fast acting, fast drying
- ▷ VOC compliant (per CARB 310)



### Benefits

- ▷ Increased surface coverage
- ▷ Improves adhesion quality in coating applications
- ▷ A safer alternative to traditional solvents

### Features

- ▷ Phosphate free and biodegradable
- ▷ Low VOC (7% content), slow evaporation rate, and minimal odor
- ▷ High flash point
- ▷ Residue-free after wiping

# CLEANING, LUBRICATING AND TEMPORARY PROTECTION

## OMNI™

Cleaner/lubricant/protector (CLP)

Multifunctional maintenance cleaner/lubricant/protector.  
Excellent penetrating and lubricating capability.  
Protects surfaces from oxidation.

**NSF category A8, registration #142610**

### Applications

- ▷ Dissolving light rust and graphite
- ▷ Loosening rusted and seized hardware

### Benefits

- ▷ Cleans, penetrates, lubricates, and protects in one easy step
- ▷ Versatile – can be used for multiple maintenance applications
- ▷ Reduces rework
- ▷ Creates a safer, healthier work environment

### Features

- ▷ Nonflammable, silicone-free, Teflon-free
- ▷ High flash point 125 °C (275 °F)
- ▷ Dielectric strength 350 Volts/Mil, dielectric breakdown voltage 35 000 Volts as per ASTM D877-13, procedure A
- ▷ Pleasant scent—no harsh fumes or vapors



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	480 ml	16.2 fl.oz.	53-X 002	L-73	12
Sprayer	500 ml	16.9 oz.	53-X 003	L-74	12
Liquid	3.78 L	1 gal	53-X 005	L-74	1
Liquid	20 L	5.2 gal	53-X 007	L-74	1
Liquid	208 L	55 gal	53-X 008	L-74	1
Liquid	1000 L	264.6 gal	53-X 009	L-74	1

### ACCESSORIES

	Order No.
Industrial pump sprayer	53-L 120
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209
Empty refillable trigger sprayer for OMNI	53-L 314
Bio-Circle® Powercloth microfiber / Pack of 10	57-M 001



# AIR FORCE CB 100™ START-UP PACKAGES

**NEW**

*The Air Force aerosol can refilling station offers the convenience of using aerosol cans with the cost effectiveness of buying bulk packaging*

The Air Force station automatically dispenses CB 100™, the all-natural cleaner and degreaser, and compressed air into refillable spray cans helping you reduce costs associated with the disposal of harmful aerosol cans as well as your environmental impact.



## AIR FORCE CB 100™ 208 L / 55 gal.

Order no.  
**57-D 058**

**The start-up package includes:**

- ▷ 1 x 53-G 168 CB 100 208 L / 55 gal. drum
- ▷ 1 x 57-D 000 Air Force Generic Orange Station
- ▷ 4 x 53-B 105 refillable bottle



### AIR FORCE refillable sprayer

Durable and light weight aluminum Air Force sprayer comes with a specific label to clearly identify the contents.



$$\frac{1 \times 208L}{DRUM} = 700 \text{ CANS}$$

*No more disposing of hazardous aerosol cans*



### Air refilling pod

Order No.: 53-M 010

Accessories	Order No.
Air refilling pod	53-M 010
Drum adaptor	53-M 038



# AIR FORCE AF-OMNI™ START-UP PACKAGES

AF-OMNI is a system with a base unit that automatically dispenses AF-OMNI liquid and compressed air into refillable spray cans. Save money by buying in bulk and reduce costs associated with the disposal of aerosol cans, all while reducing your environmental impact.

## Air Force AF-OMNI™ 20 L / 5.3 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 007 OMNI 20 L / 5.3 gal
- ▷ 1 x 53-M 058 pail adaptor
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AF0BB



## Air Force AF-OMNI™ 208 L / 55 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 008 OMNI 208 L / 55 gal
- ▷ 1 x 53-M 038 drum adaptor
- ▷ 1 x 53-M 025 safety valve
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AFOD



## AF-OMNI™

Refillable sprayer

Durable and light weight aluminum OMNI™ sprayer comes with an OMNI™ specific label to clearly identify the contents and ensure full workplace compliance.

Fill capacity	Operating pressure	Order No.
400 ml / 13.5 oz	90 - 125 psi	53-M 132



### Benefits

- ▷ Eliminates aerosol disposal costs
- ▷ Reduces environmental impact
- ▷ Improves sustainability

	Order No.
<b>Optional nozzles</b>	
Wide spray	53-M 022
Long extension tube	53-M 052
Short extension tube	53-M 053
Variable spray	53-M 054
<b>Accessories</b>	
Air refilling station	53-M 010
Air nozzle	53-M 015
Replacement valve kit (includes 2 valves and 2 spray tips)	53-M 030
Brass screw cap	53-M 037
Replacement filling valve	53-M 039
Pail adaptor	53-M 041
Drum adaptor	53-M 038
Safety valve	53-M 025

# OUR CONTRIBUTION TO BUILD A BETTER WORLD

In the last 15 years, we've eliminated more than 15,000 solvent tubs from daily use in a variety of industrial maintenance settings. This means approximately 75,000 workers are no more exposed to dangerous solvents, and up to 825,000 gallons of solvents have been removed from the workplace and the industrial waste stream. In addition, an estimated 3 to 6 million pounds of VOCs no longer threaten the environment.

# ACCESSORIES



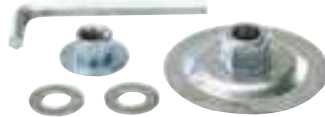
## Threaded throw-away adaptors

Description	Order No.
For 1/8" wheels (5/8"NC)	08-B 002
For 1/4" wheels (5/8"NC)	08-B 001
For 1/2" wheels (5/8"NC)	08-B 003



## Reusable adaptor kit

Description	Order No.
For depressed center wheels	08-B 031



## Mandrels for ZIP wheels

Description	Order No.
<b>Flush mandrels with 1/4" shaft</b>	
For 2 and 3" wheels, 1/4" and 3/8" arbor	11-L 007
For 2" wheels, 5/16" arbor	11-L 001
For 3" and 4" wheels, 1/4" arbor	11-L 006
For 3" and 4" wheels, 3/8" arbor	11-L 003
<b>General purpose mandrels with 1/4" shaft with 5/16" shaft</b>	
For 2" wheels, 3/8" arbor	11-L 008
For 2" wheels, 5/16" arbor	11-L 002
For 3" and 4" wheels, 3/8" arbor	11-L 004
For 3" and 4" wheels, 3/8" arbor	11-L 005



## Mandrel for finishing wheels

Description	Order No.
Plastic, 8 mm shaft, self-expanding, flush mounting for 1" thick wheels	07-C 003



## 1/4" shaft for TWIST backing pads

Description	Order No.
with 1/4"-20 thread	
For 2" and 3" pads	04-X 001



## Clamping flanges

Description	Order No.
Clamping flanges set to mount 9" cut-off wheels on 5/8"-11 spindles	30-B 022



## Mounting accessories for FX wheels

Mandrels for use on straight grinders and drills

Description	Order No.
<b>For use with 4" FX wheels</b>	
1/4" shaft	07-X 004
8 mm shaft	07-X 003
<b>For use with 6" FX wheels</b>	
1/4" shaft	07-X 006
8 mm shaft	07-X 005
<b>Extension mandrels for use on angle grinders</b>	
M14 x 2.0 thread	07-C 005
5/8"-11 thread	07-C 006



Two wheels can be mounted on each mandrel.

## Wheel dressers

Description	Order No.
<b>For bench grinder wheels</b>	
Standard	12-E 001
Heavy-duty	12-E 002
<b>Replacement wheels</b>	
Set for 12-E 001	12-E 004
Set for 12-E 002	12-E 005



## Reducer bushings

Description	Order No.
Set 3/4" wide, from 1" to 3/4", 5/8" and 1/2"	12-E 006
Set 1" wide, from 1" to 3/4", 5/8" and 1/2"	12-E 007
Pair of bushings from 1" to 7/8"	12-E 008

## Extra clamping nuts

Description	Order No.
<b>For 4" backing pads</b>	
3/8"-24	15-D 015
<b>For 4 1/2" and 5" backing pads</b>	
M10 x 1.25	15-D 010
5/8"-11	15-D 014
<b>For 6" and 7" backing pads</b>	
5/8"-11	15-H 014
<b>For 7" Turbo Action backing pad</b>	
5/8"-11	15-M 014
<b>For 4 1/2" and 5" backing pads</b>	
5/8"-11	15-D 024
<b>For 7" backing pads</b>	
5/8"-11	15-H 025



## Spacer washers

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14x2.0 spindle	07-Z 005

## Wire brush adaptors and mandrels

Description	Order No.
<b>Use these threaded adaptors to convert brushes with 5/8"-11 arbor</b>	
To M10 × 1.25 female	13-D 001
To M10 × 1.5 female	13-D 002
To 3/8"-24 female	13-D 003
To 3/8"-16 female	13-D 007
<b>Use these mandrels for double-sided knot-twisted mounted brushes</b>	
To fit with 13-C 303 (3/8" X 1/4")	13-D 008
To fit with 13-C 404 (1/2" X 1/4")	13-D 009



## SPIN-ON performance kit

Description	Order No.
Contains 1 universal clamping nut holder for all types of clamping flanges. Allows quick and easy storage of clamping flange when not in use. Also includes 2 silicone rings.	30-B 024



## Mounting flanges

Description	Order No.
5/8"-11 clamping nut for 6150, 6161, 6170, 6190, 6255, 6260, 6350 and 6360.	30-B 037
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles	30-B 017



## Quick release backing flange

Description	Order No.
For quick and easy removal of wheel	30-B 057
Special heat resistant silicone ring for retention of the back flange to the spindle. Package of 10.	30-B 027
Quick nut 5/8"-11	30-B 020



## Nut holder

Description	Order No.
Thread your clamping nut directly on your grinder when not in use. Prevents losses.	30-B 023



## Flanges for flush mounting wheels

Description	Order No.
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles	30-B 017
<b>Flush mounting set (includes special flange and clamping nut)</b>	
Complete set for a flush fit and minimal spindle exposure beyond the clamping nut, for other brands of grinders with: 5/8"-11 spindles	30-B 021
<b>ErgoFlex mounting set</b>	
5/8"-11 spindle	30-B 030



## Spacer washers

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14×2.0 spindle	07-Z 005



## Pin keys

Description	Order No.
For clamping nuts	48-Z 148



## Side handles

Description	Order No.
4-1/2", 5" and 6", Quick-Step Big Buff and Line-Mate III	30-B 075
7" and 9"	48-M 401
Straight grinder 6145	48-L 555



## Anti-vibration handle

Description	Order No.
MAXI 7" and 9"	32-B 078

## Carrying case

Description	Order No.
Sturdy steel carrying case with protective foam and ample room for accessories. For 6141, 6145, 6150, 6161, 6255, and 6260 grinders.	30-B 010





## Flexible shaft

Description	Order No.
For delicate finishing work with 6141 and 6145. 1/4" collet, 5 ft. long.	30-B 050



## Bench mount

Description	Order No.
For use with flexible shaft, for 6141 and 6145.	30-B 002



## Replacement collets

Size	Order No.
<b>For 6141 and 6145.</b>	
1/4"	30-B 046
1/8"	30-B 047
6 mm	30-B 048



## Special "Top-Up" lubricants

Description	Order No.
For models: 6145, 6150, 6161, 6170, 6190, 6255, 6260, 6265, 6268, 6330, 6350, 6352, 6360 and 6362.	48-Z 392

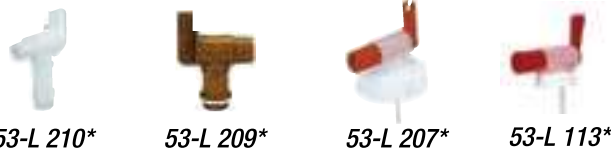


## Carbon brush Diamond brush seating stick

Order No.
48-Z 449



## Spouts



Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113
Spout for 20 L / 5.3 gal square plastic pail	53-L 207
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210

## Walter industrial gloves

Made of 100% black goatskin leather, with neoprene inserts that reduce vibration. The thumb curve is made with Kevlar™.

Size	Order No.
Large	30-B 093
Extra-Large	30-B 095



## Accessories for air grinders

Description	Order No.
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### Use these adaptors to convert accessories with 5/8"-11 arbors

To 3/8"-16 (male)	13-D 004
To 5/16"-24 (male)	13-D 005



### Use these extensions to mount accessories

With 3/8"-24 on spindles with 3/8"-24 thread	08-B 006
With 3/8"-24 on spindles with 7/16"-20 thread	08-B 005
With 5/8"-11 on spindles with 1/2"-13 thread	08-B 008



### Clamping nut for use with above extension 3/8"-24 thread, to mount grinding wheels

With 5/8" arbor	08-B 007
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### Mounting flange to mount 4" type 27 grinding wheels on air grinders

with 3/8"-24 spindle	08-B 004
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## Cutting guard

Size	Order No.
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Designed to make all cutting operations even safer.

3"	30-B 051
7"	30-B 065
9"	30-B 066



## Grinder Grip™ magnet

Strong magnet to fix your grinder to any ferrous metal surface.



Description	Order No.
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**Compatible with DEWALT grinder models:** DWE402, DW831, DWE43066, DWE43113, DWE43114, DWE43840, DCG413B, D28065, D28402, and others

**Compatible with MAKITA grinder models:** 9005B, GA5020, 9558, GA5010, GA5043, GA6010, GA6020, 9566 and others

**Compatible with MILWAUKEE grinder models:** 6121, 6124, 6130, 2780, 6143, 6116, 6117, 6142, 2680, 2981, 2783 and others

**Compatible with HILTI grinder models:** AG500-A22, AG600-A36, AG450-7, AG500-12, AG500-7, AG500-11 and others

## Refillable trigger sprayers

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, GHS information and directions for use.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
SPATTER BLOCK	500 ml	16.9 oz	53-L 321	1
E-WELD 3	500 ml	16.9 oz	53-L 320	1
E-WELD 4	500 ml	16.9 oz	53-L 338	1



## Bio-Circle® POWERCLOTH™

- ▷ Ideal for streak free clean-ups
- ▷ Non-abrasive, won't scratch mirror finish, paint or clear coat



Description	Order No.	Std. Pkg.
Bag	57-M 001	10

## REFILLABLE TRIGGER SPRAYERS

Practical and sturdy, all bottles are clearly identified with product specific labels showing product features, hazard information and directions for use. High-quality, resistant trigger for longest life. Transparent bottle allows you to see product level. Can be refilled hundreds of times.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
UNO S F dilution	950 ml	32.1 oz	53-L 158	1
UNO S F	500 ml	16.9 oz	53-L 315	1
POWER CLEANER 100	500 ml	16.9 oz	53-L 309	1
SC 400	500 ml	16.9 oz	53-L 313	1
OMNI	500 ml	16.9 oz	53-L 314	1
UNO S	500 ml	16.9 oz	53-L 335	1
E-NOX SHINE	500 ml	16.9 oz	53-L 316	1
FT 100	500 ml	16.9 oz	53-L 323	1
FT 200	500 ml	16.9 oz	53-L 322	1
E-NOX CLEAN	500 ml	16.9 oz	53-L 337	1
PRO CLEAN	500 ml	16.9 oz	53-L 341	1
SLAP SHOT	500 ml	16.9 oz	53-L 311	1
HANG-ON	500 ml	16.9 oz	53-L 331	1
COOLCUT	500 ml	16.9 oz	53-L 330	1
BOLT-OUT	500 ml	16.9 oz	53-L 332	1
CB 100	500 ml	16.9 oz	53-L 342	1
CB 100 ALU	500 ml	16.9 oz	53-L 343	1

## INDUSTRIAL PUMP SPRAYERS

Rugged and convenient sprayers designed to effectively dispense a variety of Bio-Circle® cleaners and lubricants.

The spray pattern can easily be adjusted from a pin pointjet for accurate product dispensing to a wide fan for fast surface coverage. Viton gaskets and corrosion-proofspring for optimal chemical resistance. These thick walled polyethylene bottles feature a wide neck for easy filling hundreds of times.



Description	Size		Order No.	Std. Pkg.	Std. Pkg.
	Metric	US Gal			
For SC 400, PRO CLEAN, CB 100, AF-PL, FT 100, FT 200, OMNI, ALL SEASONS	900 ml	30 oz	53-L 120	1	1

ACCESSORIES	Order No.
Replacement Viton gasket set	53-L 100
Replacement spray nozzle (without gaskets)	53-L 104
Replacement swirl piece (without gaskets)	53-L 114

# BIO-CIRCLE® PARTS CLEANING SYSTEM ACCESSORIES

## Parts washing basket

- 9" dia x 8 1/4" high
  - 1/4" holes
- 55-B 004



## Filter cartridge

- Reusable 350 micron 55-B 011
- Reusable 200 micron 55-B 038
- Reusable 100 micron 55-B 036
- Disposable 100 micron 55-B 012
- Disposable 200 micron 55-B 021



## Bio-Circle® scraper

55-B 063



## Angled flow through brush

55-B 007



## Disposable filter bags for Bio-Circle® machines

- 50 micron 55-B 041
- 100 micron 55-B 042
- 200 micron 55-B 043



## Bio-Circle® Air Drying Gun

55-B 085



## Sink lid

- For MAXI
- 55-B 047



## Filter housing spanner

- For MAXI
- 55-B 035



## Replacement flow-through brush

55-B 005



## Small industrial parts washing basket

55-B 087



## CleanBox® Dip

55-D 010

Order no. for dolly: 55-B 083

## Stainless steel sink insert

- For MAXI
- 55-B 048



## Casters

- For MAXI
- 55-B 049



# SPOUTS

**Tech tip!**  
When transferring flammable liquids, always ensure containers are grounded and follow normal safety rules.

Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113 *
Spout for 20 L / 5.3 gal square plastic pail	53-L 207 *
Spout for 20 L / 5.3 gal round metal pail and 200 L / 55 gal metal drum, (metal spout), 3/4" NPT	53-L 208 *
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210 *

\* Allows to fill 500 ml trigger sprayer bottles or any other larger container directly.



## Metal drum pump

For use with lubricants or viscous liquids



Description	Order No.
Delivers 12 oz per stroke.	53-L 115

## Chrome plated drum pump

For use with aqueous or solvent based cleaners



Description	Order No.
Delivers 8 oz per stroke	53-L 116

## Hand pump

For effective fluid transfer



Description	Order No.
Use with Bio-Circle®	55-B 051