



sifco asc

Product Guide

What is the SIFCO Process®?

A Form of Electroplating

That does not require:

Immersion Tanks • Special Fixtures • Extensive Masking

Is Used to Enhance the Performance of OEM Metal Parts

Is Used for Repair and Salvage of Metal Components

That are:

Worn • Damaged • Corroded • Mis-machined

Has a Wide Range of Deposit Characteristics

That provide:

- Low Stress
- Wear Resistance
- Corrosion Resistance
- Low Hydrogen Embrittlement
- Electrical Contact Resistance

It's Portable

- Allows On-site Repairs
- Reduces Turn-around Time
- Eliminates Shipping Delays
- Eliminates Complete Disassembly

It's Fast

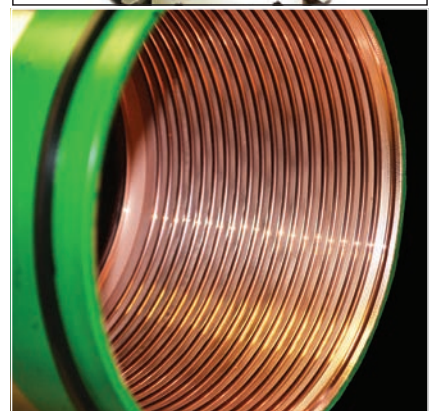
- Permits Plating Only Where Needed
- 60 - 80 Times Faster Than Tank Plating

It's Easy to Learn

- Need Only Basic Math Skills
- Standard and Custom Training Programs
- No Chemical Analysis Needed
- Immediate In-house Plating Capabilities

It's Economical

- Reduces Down Time
- Permits Plating to Specification
- Permits Plating Only Where Needed
- Can Eliminate the Need for Post Machining or Grinding



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Nadcap Chemical Processing Accredited AC7108

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SMITHERS
QUALITY ASSESSMENTS



SMITHERS
QUALITY ASSESSMENTS

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Air Freight Charges

IATA regulations require certain solutions be packed in liter quantities for air shipment. Special packaging charges will be assessed for toxic-designated solutions. Charges will be quoted when order is placed or in formal quotation.

UPS adds a \$40 per box charge for any hazardous material shipping by air plus normal shipping charges. Federal Express adds a \$40 (air inaccessible) or \$80 (air accessible) per box charge, depending upon the hazard class being shipped, for any hazardous material shipping by air plus normal shipping charges. International charges are as follows: Inaccessible by air (flat fee of \$62.50 or \$0.34 per pound); Accessible by air (flat fee of \$127.00 or \$0.69 per pound).

All other air carriers levy their own dangerous goods fees that vary by transportation company. These costs will be passed along to the buyer.

Ground Freight Charges

SIFCO Applied Surface Concepts will make every effort to ship orders by ground freight within three business days of the receipt of an order.

Federal regulations require special containers for ground movement of toxic solutions. This includes UPS, FedEx and motor freight. Poison-pack containers and DOT-approved drums are required and will be quoted when order is placed or in formal quotation.

UPS and FedEx add a \$30.00 per box charge for any hazardous material plus normal shipping charges. These costs will be passed along to the buyer. When placing an order, the buyer should consider the most economical method of transportation, that is, UPS, Fed Ex Ground, or other motor freight.

Rush Orders (same day shipping)

Please note: The shipping of hazardous and/or toxic materials is heavily regulated. The special packaging and labeling that is required for some of these materials is expensive and time consuming. The later the order is placed, the more difficult the ability to secure a suitable carrier and get the order out. Because of these factors, SIFCO requires that certain conditions be met prior to accepting a rush order (for same day shipment).

Rush orders that can be shipped by air, where permitted under regulations, are accepted at our Cleveland facility under the following conditions:

- The order must be placed no later than 2:00 pm EST (no exceptions).
- A minimum expediting fee of \$175.00 may be assessed at the time of the order, based on the requirements of the order.
- Orders for air shipment placed after 2:00 pm EST time will ship on the next working day with no expediting fee.

Rush orders for ground shipments are accepted at our Cleveland facility under the following conditions:

- The order must be placed no later than 12:00 noon EST for truck and 1:00 pm EST for UPS/FedEx ground (no exceptions).
- The ability to ship same day depends on truck availability.
- A minimum expediting fee of \$175.00 will be assessed at the time of the order, based on the requirements of the order.

Freight charges are subject to change without notice unless SIFCO has expressly agreed in writing to price protection for a stated time period.

Abbreviations

C	Cotton, as in Jacket ID-13C
F	Flow, as in a #150 Handle
Ft.	Foot
FT	Flat or Flat Tool as in FT-115
HB	Heavy Build, as in Rhodium HB
ID	Inside Diameter or Internal Diameter tool as in ID-5.
In.	Inch
LHE	Low Hydrogen Embrittlement, as in Cadmium LHE
m	Meter
mm	Millimeter
N.C.	Non-Cyanide, as in Silver N.C.
OD	Outside Diameter or Outside Diameter plating tool, as in OD-50
P	Polyester, as in P Jacket
Pt	Platinum or Platinum clad plating tool: PT-13
XHB	Extra Heavy Build, as in Nickel XHB
µm	Microns

SIFCO Process® Classic Power Packs

Part Number	Model	Amps Output	Volts Output	Weight Lb. (Kg)	Line Amps
90115201	SP-C 15-20-115-1	15	20	20 (9)	4
90115203	SP-C 15-20-230-1	15	20	20 (9)	2
90130201	SP-C 30-20-115-1	30	20	20 (9)	7
90130203	SP-C 30-20-230-1	30	20	20 (9)	4
Dimensions: (15" W x 8" H x 13" D)					
90160201	SP-C 60-20-115-1	60	20	46 (21)	14
90160203	SP-C 60-20-230-1	60	20	44 (20)	7
Dimensions: (15" W x 8" H x 12" D)					

Output leads for power packs must be purchased separately (see page 10)

- 100% constant voltage and current regulation
- Output ripple <1%
- Overload protection
- CE compliant

- Forward/reverse polarity switching
- LED displays for volts, amps, and ampere hours
- Camlock connections for plating leads
- 2-year manufacturer's warranty



Classic Power Pack



Advanced Power Pack (See Page 9)



Output Leads



Handles



Power Pack Lead Adapters

(See Page 10)

SIFCO Process® Advanced DC Switch Mode Power Packs

Part Number	Model	Amps Output	Volts Output	Weight Lb. (Kg)	Line Amps
60115201	SP 15-20-115-1 LW (115 VAC)	15	20	18, (9)	20
60115201	SP 15-20-115-1 LW (115 VAC)	15	20	18, (9)	20
Dimensions: (15" [37 cm] W x 8" [19 cm] H x 12" [30 cm] D)					
61115501	SP 15-50-115-1 (115 VAC)	15	50	55, (25)	9
61115503	SP 15-50-230-1 (230 VAC)	15	50	55, (25)	9
61130201	SP 30-20-115-1 (115 VAC)	30	20	55, (25)	7
61130203	SP 30-20-230-1 (230 VAC)	30	20	55, (25)	4
61130503	SP 30-50-230-1 (230 VAC)	30	50	55, (25)	13.5
61160201	SP 60-20-115-1 (115 VAC)	60	20	55, (25)	14
61160203	SP 60-20-230-1 (230 VAC)	60	20	55, (25)	7
Dimensions: (14" [37 cm] W x 12" [29 cm] H x 15" [38 cm] D)					
61150243	SP 150-24-230-3 (230 VAC)	150	24	66, (30)	12
61150244	SP 150-24-400-3 (400 VAC)	150	24	66, (30)	12
Dimensions: (21.5" [55 cm] W x 6.25" [16 cm] H x 21.25" [54 cm] D)					
61300203	*SP 300-20-230-3 (230VAC)	300	20	220, (100)	20
61300205	*SP 300-20-460-3 (230VAC)	300	20	220, (100)	20
60500183	*SP 500-18-230-3 (230 VAC)	500	18	309, (140)	29
60500185	*SP 500-18-460-3 (460 VAC)	500	18	309, (140)	29
Dimensions: (32" [80 cm] W x 40" [100 cm] H x 16 [40 cm] D)					

*Special order item

- 100% constant voltage and current regulation
- Output ripple <2% at 100% of output current
- Forward/reverse polarity switching
- Audible reverse alarm
- Camlock connections for plating leads
- Polycarbonate keypad and multifunction LCD display
- LCD displays for amperage, voltage, and ampere-hours
- Over-temperature protection
- Program options
- Two-year manufacturer's warranty
- CE compliant



Increase your flexibility with the optional remote control unit for full functionality from up to 60 feet from the power supply!

Part Number	Description
60000110	Remote Control (115 VAC)
60000130	Remote Control (230 VAC)

Output leads for power packs must be purchased separately (see page 10)

Output Leads

Description	Part Number
Lead Positive Red 15 Amp, 3m (9.8 ft.) (includes fork terminal and 75 amp female connector)	60352020
Lead Negative Black 15 Amp, 3m (9.8 ft.) (includes fork terminal and alligator clamp)	60352025
Lead Positive Red 75 Amp, 3m (9.8 ft.) (includes #8 modified ring, twistlock 150 amp plug, and 75 amp female connector)	60352030
Lead Negative Black 75 Amp, 3m (9.8 ft.) (includes #8 modified ring, twistlock 150 amp plug, and alligator clamp)	60352035
Lead Positive Red 150 Amp, 3m (9.8 ft.) (includes twistlock 150 amp plug and 150 amp female connector)	60352050
Lead Negative Black 150Amp, 3m (9.8 ft.) (includes twistlock 150 amp plug, and alligator clamp)	60352055
Lead Positive Red 250 Amp, 3m (9.8 ft.) (includes twistlock 250 amp plug and 250 amp female connector)	60352070
Lead Negative Black 250 Amp, 3m (9.8 ft.) (includes twistlock 250 amp plug and lug terminal)	60352075

Handles

Description	Part Number
#75 Handle (for use up to 75 amps, includes ACM8 Adapter)	12302075
Replacement Cap for #75 Handle	21701060
Replacement Bushing for #75 Handle	21700013
#150 Handle (for use up to 150 amps, with provisions for solution flow, includes plug and 2 flow fittings)	12302150
#250 Handle (for use up to 250 amps)	12302250

Adapters

Description	Part Number
Adapter for 15 Amp Lead to SP Power Pack - RED	20506105
Adapter for 15 Amp Lead to SP Power Pack - BLACK	20506106
AC-M8 Adapter for #75 Handle	12401250
FT adapter 90 degree handle	12401252
ID/PT adapter for 90 degree handle	12401253

Output Leads



Handles



FT & ID/PT 90 Degree Handle Adapters

All graphite anodes are prepared from high-purity graphite having less than 20 ppm iron. Please contact our Technical Service Department for more information at 800-765-4131.

PT Anodes

*For ID and Flat Surfaces Using a #75 Handle

Working Dimensions	Part Number
Anode Platinum Clad PT-1 1.2 mm OD x 60 mm L (3/64 in. OD x 2 3/8 in. L)	13250001
Anode Platinum Clad PT-2 2.3 mm OD x 60 mm L (3/32 in. OD x 2 3/8 in. L)	13250002
Anode Platinum Clad PT-5 4.8 mm OD x 61 mm L (3/16 in. OD x 2 3/8 in. L)	13250005
Anode Platinum Clad PT-6 6.4 mm OD x 61 mm L (1/4 in. OD x 2 3/8 in. L)	13250006
Anode Platinum Clad PT-8 7.9 mm OD x 61 mm L (5/16 in. OD x 2 3/8 in. L)	13250008
Anode Platinum Clad PT-10 9.5 mm OD x 83 mm L (3/8 in. OD x 3 1/4 in. L)	13250010
Anode Platinum Clad PT-13 12.7 mm OD x 83 mm L (1/2 in. OD x 3 1/4 in. L)	13250013

*Pt cladding is 50 micro inches thick



PT Anodes

ID Anodes (small)

For ID and Flat Surfaces Using a #75 Handle

Working Dimensions	Part Number
Anode Graphite ID-5 4.8 mm OD x 66 mm L (3/16 in. OD x 2-5/8 in. L)	13001005
Anode Graphite ID-6 6.4 mm OD x 66 mm L (1/4 in. OD x 2-5/8 in. L)	13001006
Anode Graphite ID-8 7.9 mm OD x 66 mm L (5/16 in. OD x 2-5/8 in. L)	13001008
Anode Graphite ID-10 9.5 mm OD x 86 mm L (3/8 in. OD x 3 3/8 in. L)	13001010
Anode Graphite ID-13 12.7 mm OD x 86 mm L (1/2 in. OD x 3 3/8 in. L)	13001013



ID Anodes (small)

ID Anodes (large)

For ID Surfaces Using a #150 Handle with or without Flow

Working Dimensions	Part Number
Anode Graphite ID-19 19 mm OD x 100 mm L (3/4 in. OD x 4 in. L)	13001019
Anode Graphite ID-25 25 mm OD x 100 mm L (1 in. OD x 4 in. L)	13001025
Anode Graphite ID-32 32 mm OD x 100 mm L (1 1/4 in. OD x 4 in. L)	13001032
Anode Graphite ID-38 38 mm OD x 100 mm L (1 1/2 in. OD x 4 in. L)	13001038
Anode Graphite ID-50 50 mm OD x 100 mm L (2 in. OD x 4 in. L)	13001050
Anode Graphite ID-63 63 mm OD x 100 mm L (2 1/2 in. OD x 4 in. L)	13001063
Anode Graphite ID-75 75 mm OD x 100 mm L (3 in. OD x 4 in. L)	13001075
Anode Graphite ID-100 100 mm OD x 100 mm L (4 in. OD x 4 in. L)	13001100

Working Dimensions	Part Number
Anode Graphite ID-19F (flow) 19 mm OD x 100 mm L (3/4 in. OD x 4 in. L)	13002019
Anode Graphite ID-25F (flow) 25 mm OD x 100 mm L (1 in. OD x 4 in. L)	13002025
Anode Graphite ID-32F (flow) 32 mm OD x 100 mm L (1 1/4 in. OD x 4 in. L)	13002032
Anode Graphite ID-38F (flow) 38 mm OD x 100 mm L (1 1/2 in. OD x 4 in. L)	13002038
Anode Graphite ID-50F (flow) 50 mm OD x 100 mm L (2 in. OD x 4 in. L)	13002050
Anode Graphite ID-63F (flow) 63 mm OD x 100 mm L (2 1/2 in. OD x 4 in. L)	13002063
Anode Graphite ID-75F (flow) 75 mm OD x 100 mm L (3 in. OD x 4 in. L)	13002075
Anode Graphite ID-100F (flow) 100 mm OD x 100 mm L (4 in. OD x 4 in. L)	13002100



ID Anodes (large)

FT Anodes

For Flat and OD Surfaces using a #75 Handle

Description	Part Number
Anode Graphite FT-40 40 mm L x 25 mm W x 25 mm H (1 9/16 in. L x 1 in. W x 1 in. H)	13005040
Anode Graphite FT-60 60 mm L x 40 mm W x 25 mm H (2 3/8 in. L x 1 9/16 in. W x 1 in. H)	13005060
Anode Graphite FT-75 75 mm L x 50 mm W x 25 mm H (3 in. L x 2 in. W x 1 in. H)	13005075
Anode Graphite FT-125 125 mm L x 25 mm W x 25 mm H (4 15/16 in. L x 1 in. W x 1 in. H)	13005125

Ft Anodes

For Flat and OD Surfaces using a #150 Handle

Description	Part Number
Anode Graphite FT-65 Anode Graphite FT-65F (flow) 65 mm L x 65 mm W x 25 mm H (2 9/16 in. L x 2 9/16 in. W x 1 in. H)	13005065 13006065
Anode Graphite FT-90 Anode Graphite FT-90F (flow) 90 mm L x 90 mm W x 25 mm H (3 17/32 in. L x 3 17/32 in. W x 1 in. H)	13005090 13006090
Anode Graphite FT-115 Anode Graphite FT-115F (flow) 115 mm L x 115 mm W x 25 mm H (4 17/32 in. L x 4 17/32 in. W x 1 in. H)	13005115 13006115



FT Anodes for #75 Handles



Ft Anodes for #150 Handles

OD Anodes

For OD Surfaces using a #75 Handle

Description	Part Number
Anode Graphite OD-25 25 mm ID x 25 mm L (1 in. ID x 1 in. L)	13003025
Anode Graphite OD-30 30 mm ID x 25 mm L (1 3/16 in. ID x 1 in. L)	13003030
Anode Graphite OD-40 40 mm ID x 25 mm L (1 9/16 in. ID x 1 in. L)	13003040
Anode Graphite OD-50 50 mm ID x 25 mm L (2 in. ID x 1 in. L)	13003050



OD Anodes for #75 Handles

OD Anodes

For OD Surfaces using a #150 Handle

Description	Part Number
Anode Graphite OD-60 60 mm ID x 50 mm L (2 3/8 in. ID x 2 in. L)	13003060
Anode Graphite OD-70 70 mm ID x 50 mm L (2 3/4 in. ID x 2 in. L)	13003070
Anode Graphite OD-80 80 mm ID x 50 mm L (3 5/32 in. ID x 2 in. L)	13003080
Anode Graphite OD-90 90 mm ID x 50 mm L (3 17/32 in. ID x 2 in. L)	13003090
Anode Graphite OD-100 100 mm ID x 50 mm L (3 15/16 in. ID x 2 in. L)	13003100



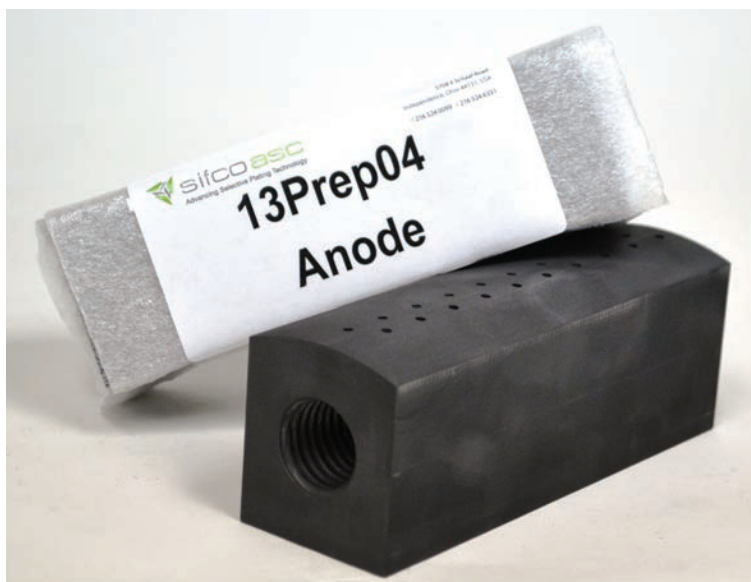
OD Anodes for #150 Handles

Bulk Graphite

Description	Part Number
Graphite Rod 50.8 mm dia. x 305 mm (2 in. dia. x 12 in.)	12900200
Graphite Rod 101.6 mm dia. x 305 mm (4 in. dia. x 12 in.)	12900260
Graphite Rod 152.4 mm dia. x 305 mm (6 in. dia. x 12 in.)	12900300
Graphite Flat 50.8 mm x 254 mm x 305 mm (2 in. x 10 in. x 12 in.)	12900440
Graphite Flat 101.6 mm x 254 mm x 305 mm (4 in. x 10 in. x 12 in.)	12900460

Copper Select Preparatory Anodes

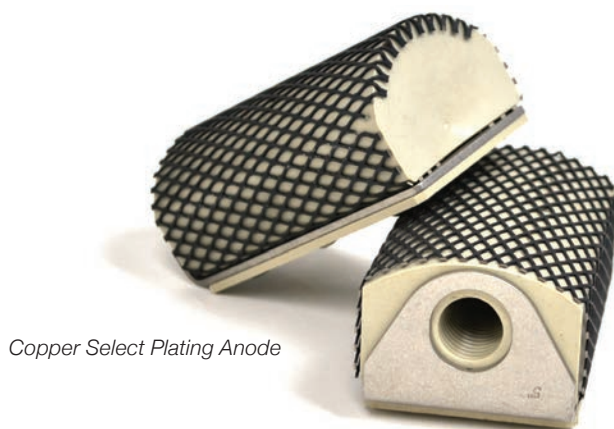
Description	Part Number
Anode Graphite ID-38F - Preparatory Anode for 2 3/8" connector	13002038
Anode Graphite ID-50F - Preparatory Anode for 2 7/8" connector	13002050
Copper Select Preparatory Anode for 3 1/2 & 4" connector	13PREP02
Copper Select Preparatory Anode for 4 1/2 & 5" connector	13PREP03
Copper Select Preparatory Anode for 5 1/2 & 6 5/8" connector	13PREP04
Copper Select Preparatory Anode for 7 & 7 5/8 & 7 3/4" connector	13PREP05
Copper Select Preparatory Anode for 8 5/8 & larger connections	13PREP06



Copper Select Preparatory Anode

Copper Select Plating Anodes

Description	Part Number
Copper Select plating anode for 2 3/8" connector	PLAT2375
Copper Select plating anode for 2 7/8" connector	PLAT2875
Copper Select plating anode for 3 1/2" connector	PLAT3500
Copper Select plating anode for 4" connector	PLAT4000
Copper Select plating anode for 4 1/2" connector	PLAT4500
Copper Select plating anode for 5" connector	PLAT5000
Copper Select plating anode for 5 1/2" connector	PLAT5500
Copper Select plating anode for 6 5/8" connector	PLAT6625
Copper Select plating anode for 7" connector	PLAT7000
Copper Select plating anode for 7 5/8" connector	PLAT7625
Copper Select plating anode for 7 3/4" connector	PLAT7750
Copper Select plating anode for 8 5/8" connector	PLAT8625
Copper Select plating anode for 9 5/8" connector	PLAT9625
Copper Select plating anode for 9 7/8" connector	PLAT9875
Copper Select plating anode for 10 3/4" connector	PLAT10750
Copper Select plating anode for 11 3/4" connector	PLAT11750
Copper Select plating anode for 11 7/8" connector	PLAT11875
Copper Select plating anode for 13 3/8" connector	PLAT13375
Copper Select plating anode for 13 5/8" connector	PLAT13625
Copper Select plating anode for 14" connector	PLAT14000



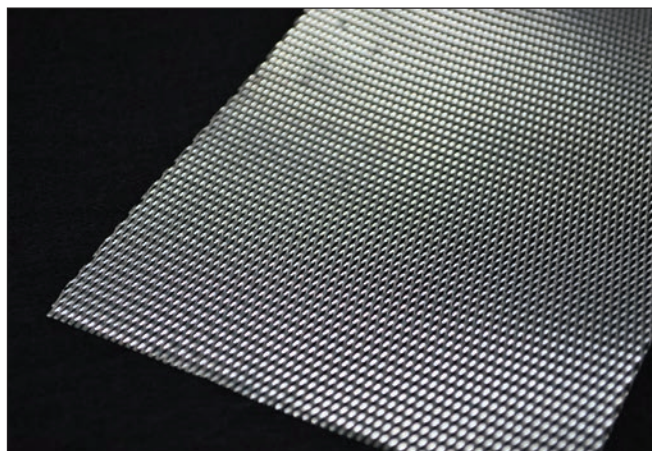
Copper Select Plating Anode

Platinum-Clad Niobium and Dur-A-Form Material

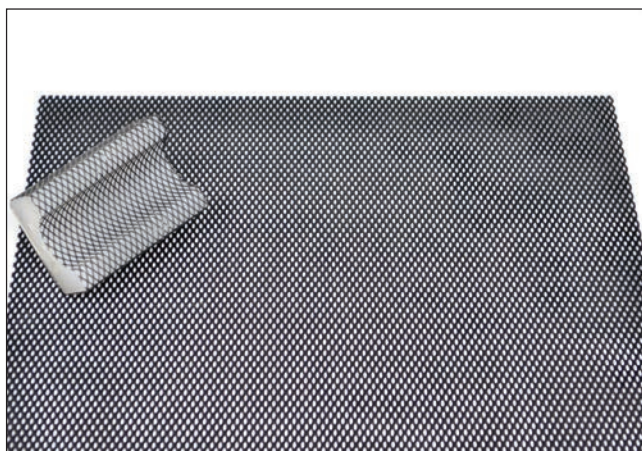
A wide variety of graphite and platinum-clad niobium anodes can be fabricated to meet your needs. Platinum-clad material is available up to 152 mm (6 in.) wide and in any length. Please contact our Technical Service Department for more information at 800-765-4131.

Description	Part Number
Pt-Clad Mesh, 6 μ m, (0.000250 in.), single face	25510100
Pt-Clad Mesh, 6 μ m, (0.000250 in.), double face	25510130
Pt-Clad Sheet, 6 μ m, (0.000250 in.), single face	25510250
Pt-Clad Sheet, 6 μ m, (0.000250 in.), double face	25510300
Dur-A-Form Mesh 0.030" thick, double face (call for availability)	25510350

(Platinum mesh and sheet material is sold by the linear inch and is available only in a 6" width)



PT-Clad Mesh Material

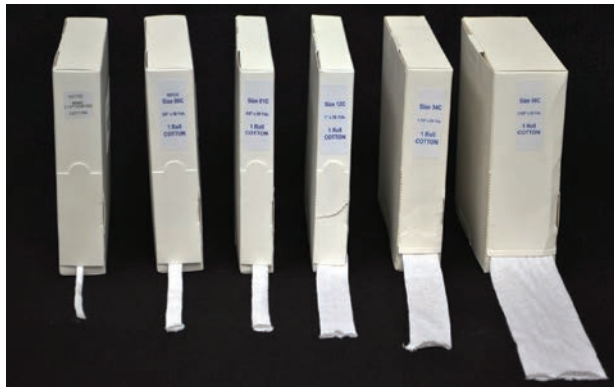


Dur-A-Form Mesh Material

Sleeving

Description	Part Number
Sleeving, Cotton 000C 6.35 mm x 45 m (1/4 in. x 50 yd.)	11800020
Sleeving, Cotton 00C 9.53 mm x 45 m (3/8 in. x 50 yd.)	11800010
Sleeving, Cotton 01C 15.8 mm x 45 m (5/8 in. x 50 yd.)	11800000
Sleeving, Cotton 12C 25.4 mm x 45 m (1 in. x 50 yd.)	11800050
Sleeving, Cotton 34C 38.1 mm x 45 m (1 1/2 in. x 50 yd.)	11800100
Sleeving, Cotton 56C 66.8 mm x 45 m (2 5/8 in. x 50 yd.)	11800150
Sleeving, Polyester 000P 6.35 mm x 45 m (1/4 in. x 50 yd.)	11801020
Sleeving, Polyester 00P 9.53 mm x 45 m (3/8 in. x 50 yd.)	11801010
Sleeving, Polyester 01P 15.8 mm x 45 m (5/8 in. x 50 yd.)	11801000
Sleeving, Polyester 12P 25.4 mm x 45 m (1 in. x 50 yd.)	11801050
Sleeving, Polyester 34P 38.1 mm x 45 m (1 1/2 in. x 50 yd.)	11801100
Sleeving, Polyester 56P 66.8 mm x 45 m (2 5/8 in. x 50 yd.)	11801150

Sleeving (000 C, P)	PT-1, PT-2 Anodes
Sleeving (00 C, P)	PT-5, PT-6, ID-5, ID-6 Anodes
Sleeving (01 C, P)	PT-8, ID-8 Anodes
Sleeving (12 C, P)	PT-10, PT-13, ID-10, ID-13 Anodes
Sleeving (34 C, P)	ID-19, ID-25, ID-32, ID-38, ID-50, OD-25, OD-30, OD-40, OD-50, FT-40, FT-60, FT-65, FT-75, FT-125 Anodes
Sleeving (56 C, P)	ID-63, ID-75, ID-100, OD-60, OD-70, OD-80, OD-90, OD-100, FT-90, FT-115 Anodes



Cotton
Sleeving

Batting and TuffWrap

Description	Part Number
Cotton Batting 30 cm x 2.7 m (12 in. x 9 ft.)	63000000
Polyester Pads 10/pk, 15 cm x 41 cm (6 in. x 16 in.)	12000560
Polyester Batting 58 cm x 76 cm (23 in. x 30 in.)	63000500
PermaWrap® 1.57 mm (1/16 in.) thick, 91 cm x 51 cm (36 in. x 20 in.)	12000400
PermaWrap® 3.18 mm (1/8 in.) thick, 58 cm x 81 cm (23 in. x 32 in.)	12000450
EP PermaWrap® 6.36 mm (1/4 in.) thick	12000460
Jacket Material Cotton 35 cm x 1.3 m (14 in. x 52 in.)	12000150
Jacket Material Polyester 35 cm x 1.3 m (14 in. x 52 in.)	12000200
White TuffWrap® 43 cm x 1.1 m (17 in. x 42.5 in.)	12000260
White TuffWrap® 43 m x 9 m (17 in. x 30 ft.)	12000270
Red TuffWrap® Pads 6/pk, 2 cm x 15 cm (9 in. x 6 in.)	63000306
Red TuffWrap® 46 cm x 3 m (18 in. x 10 ft.)	63000300
Canoe Clips (100/pk) to secure cover material to anodes (Requires 3.5 mm drill)	62602200



Cotton Batting



PermaWrap®



Canoe Clips



Red TuffWrap®

Jackets

PT Series anodes require ID Series jackets.

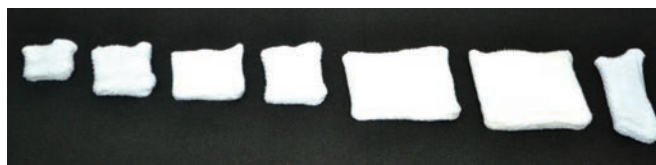
Cotton Jackets	Part Number
Jacket ID-13C (Cotton) 5/pk	11903013
Jacket ID-19C (Cotton) 5/pk	11903019
Jacket ID-25C (Cotton) 5/pk	11903025
Jacket ID-32C (Cotton) 5/pk	11903032
Jacket ID-38C (Cotton) 5/pk	11903038
Jacket ID-50C (Cotton) 5/pk	11903050
Jacket ID-63C (Cotton) 5/pk	11903063
Jacket ID-75C (Cotton) 5/pk	11903075
Jacket ID-100C (Cotton) 5/pk	11903100
Jacket FT-40C (Cotton) 5/pk	11905040
Jacket FT-60C (Cotton) 5/pk	11905060
Jacket FT-65C (Cotton) 5/pk	11905065
Jacket FT-75C (Cotton) 5/pk	11905075
Jacket FT-90C (Cotton) 5/pk	11905090
Jacket FT-115C (Cotton) 5/pk	11905115
Jacket FT-125C (Cotton) 5/pk	11905125



FT Cotton Jackets

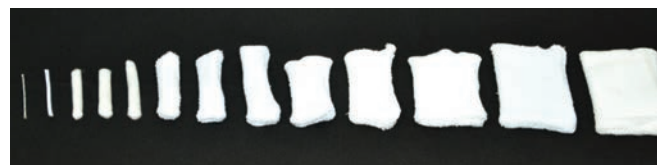


ID Cotton Jackets



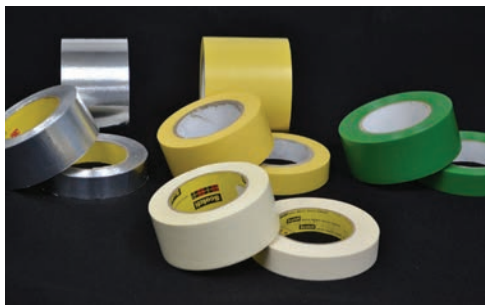
FT Polyester Jackets

Polyester Jackets	Part Number
Jacket ID-1P (Polyester) 5/pk (for PT-1 anode only)	11904001
Jacket ID-2P (Polyester) 5/pk (for PT-2 anode only)	11904002
Jacket ID-5P (Polyester) 5/pk	11904005
Jacket ID-6P (Polyester) 5/pk	11904006
Jacket ID-8P (Polyester) 5/pk	11904008
Jacket ID-10P (Polyester) 5/pk	11904010
Jacket ID-13P (Polyester) 5/pk	11904013
Jacket ID-19P (Polyester) 5/pk	11904019
Jacket ID-25P (Polyester) 5/pk	11904025
Jacket ID-32P (Polyester) 5/pk	11904032
Jacket ID-38P (Polyester) 5/pk	11904038
Jacket ID-50P (Polyester) 5/pk	11904050
Jacket ID-63P (Polyester) 5/pk	11904063
Jacket ID-75P (Polyester) 5/pk	11904075
Jacket ID-100P (Polyester) 5/pk	11904100
Jacket FT-40P (Polyester) 5/pk	11906040
Jacket FT-60P (Polyester) 5/pk	11906060
Jacket FT-65P (Polyester) 5/pk	11906065
Jacket FT-75P (Polyester) 5/pk	11906075
Jacket FT-90P (Polyester) 5/pk	11906090
Jacket FT-115P (Polyester) 5/pk	11906115
Jacket FT-125P (Polyester) 5/pk	11906125



ID Polyester Jackets

Description	Part Number
Tape Aluminum 12.7 mm x 54.8 m (1/2 in. x 60 yds.)	63600050
Tape Aluminum 25.4 mm x 54.8 m (1 in. x 60 yds.)	11600000
Tape Aluminum 50.8 mm x 54.8 m (2 in. x 60 yds.)	11600050
Tape Aluminum 76.2 mm x 54.8 m (3 in. x 60 yds.)	11600100
Tape Vinyl - Yellow 25.4 mm x 33 m (1 in. x 36 yds.)	11601000
Tape Vinyl - Yellow 50.8 mm x 33 m (2 in. x 36 yds.)	11601050
Tape Vinyl - Yellow 102 mm x 33 m (4 in. x 36 yds.)	11601100
Tape Vinyl - Tan 25.4 mm x 33 m (1 in. x 36 yds.)	63601100
Tape Vinyl - Tan 50.8 mm x 33 m (2 in. x 36 yds.)	63601200
Tape AeroNikl® - Green 25.4 mm x 54.8 m (1 in. x 60 yds.)	11601300
Tape AeroNikl® - Green 50.8 mm x 54.8 m (2 in. x 60 yds.)	11601350
Tape White Kapton® - 50.8mm x 45.72m (2" x 50 yds)	63602200
Tape Adhesion Test - 25.4 mm x 54.8 m (1 in. x 60 yds.)	11603050
TuffMask, Green (Quart)	11700070
Thinner for TuffMask, Toluol (Quart)	11700060
PVC Sheet Material .031" thick (sold 4' x 4')	25700050
PVC Sheet Material .062" thick (sold 4' x 4')	25700100
Closed Cell Neoprene 1" thick (sold by sq. ft.)	12004580



Tapes



Thinner and TuffMask



Closed Cell Neoprene

The SIFCO Process® Instruction Manual is a comprehensive, illustrated instruction manual covering the SIFCO Process® of Selective Electroplating and use of equipment, supplies, accessories, and plating solutions. Step-by-step procedures are provided for each solution and each base metal combination. Guidelines are given on the steps necessary to set up a job, evaluate the deposits, and troubleshoot.

Instruction Manuals

Description	Part Number
*SIFCO Process® Brush Plating Instruction Manual	50410190
*SIFCO Process® Anodizing Instruction Manual	50410140
*SIFCO Process® Surface Defect Repair Manual	50410105

*The SIFCO Process® Instruction Manual is available electronically in PDF format at no charge, but can be provided in printed form upon special request.

Miscellaneous Accessories

Description	Part Number
Disposable Gloves 100/pk	62801100
Nitrile Gloves	12800090
Scissors, 8" Stainless (RH)	12600010
Scissors, 8" Stainless (LH)	12600020
Hydrometer for AeroNikl & 2080 Nickel Solutions (with range of 1.2 – 1.4)	12701002
Graduated Cylinder for Hydrometer	11402250
Container For Used Solution, (DOT-34) 57 l (15 gal.)	40104000
Container For Used Solution, (DOT-17H) 208 l (55 gal.)	40104010
Gray Abrasive Pad (20" x 35")	12000310

Copper Select Measuring Equipment

Description	Part Number
Deltascope FMP 10	FMP 10
FGAB1.3 Probe	FGAB1.3
FGABI 1.3 - 150 Probe	FGABI1.3-150



*Deltascope
with Probes*

Flow Systems

Description	Part Number
AeroNikl Flow System, Model 75, 6 liter (1.5 gal) 115 VAC, 1Ø, 50/60 Hz, 9.0 amp	10905000
AeroNikl Flow System, Model 75, 6 liter (1.5 gal) 230 VAC, 1Ø, 50/60 Hz, 5.3 amp	10905020
AeroNikl Flow System, Model 150, 11 liter (3.0 gal) 115 VAC, 1Ø, 50/60 Hz, 13.5 amp	10905500
AeroNikl Flow System, Model 150, 11 liter (3.0 gal) 230 VAC, 1Ø, 50/60 Hz, 8.5 amp	10905520
AeroNikl Flow System, Model 250, 40 liter (10 gal) 230 VAC, 1Ø, 50/60 Hz, 8.5 amp	10906000

Operating Parameters	Model 75	Model 150	Model 250
Quantity of solution required to operate	4 to 6 liters	8 to 11 liters	23 to 38 liters
Recommended amperage range	Up to 75 amps	Up to 150 amps	Up to 500 amps
Filter provisions	One 254 mm (10 in.)	One 254 mm (10 in.)	Two 254 mm (10 in.)
Collection Trays with one 2.13 m (7 ft.) return line	One 279 mm x 356 mm (11 in. x 14 in.) Tray with corner drain 19mm dia. (¾ in) return line One 356mm x 432 mm (14in. x 17 in.) Tray	One 279 mm x 356 mm (11 in. x 14 in.) Tray with corner drain 19mm dia. (¾ in) return line One 356 mm x 432 mm (14 in. x 17 in.) Tray	One 356 mm x 432 mm (14 in. x 17 in.) Tray with corner drain 19mm dia. (¾ in) return line One 508 mm x 610 mm (20 in. x 24 in.) Tray with corner drain 19mm dia. (¾ in) return line
Heater capacity	850 Watts	1.25 KW	3.0 KW
Temperature control	Digital indicating ±3°C (5°F)	Digital indicating ±3°C (5°F)	Digital indicating ±3°C (5°F)
Pump output LPH (GPH) at head without filter:	1552 @ 1.8 M (410 @ 6ft.)	2517 @ 1.8 M (665 @ 6 ft.)	4126 @ 1.8 M (1090 @ 6 ft.)



AeroNikl Flow System
Model 75



AeroNikl Flow System
Model 250

Replacement Parts

Model 75 Flow Systems	Part Number
Heater/Pump Control Cover Model 75 (115V)	12701700
Heater/Pump Control Cover Model 75 (230V)	20701720
Flow Fittings Set Polypropylene	10905220
Clamp Set	10900260
Hose Set	10905240
Filter Elements (4 ea) 254mm (10 in.)	10901040
Filter Gaskets (2 ea)	10901140
Valve Union Gasket Set M-75	10905560
Thermal Fuse (Model 75 only)	20709060

Model 150 Flow Systems	Part Number
Heater/Pump Control Cover Model 150 (115V)	12701750
Heater/Pump Control Cover Model 150 (230V)	20701770
Flow Fittings Set Polypropylene	10905720
Filter Elements (4 ea) 254mm (10 in.)	10901040
Filter Gaskets (2 ea)	10901140
Valve/Union Gasket Set M-150	10905760
Thermal Switch (Model 150 only)	20709120

Model 75 / Model 150 Flow Systems	Part Number
Hydrometer only (with range of 1.2 – 1.4)	12701002
Graduated Cylinder for Hydrometer	11402250

Submersible Pump Model 1U-MD

A small submersible pump with totally encapsulated motor, magnetically coupled to a centrifugal pump with inlet screen. Delivering up to 613 LPH at 30 cm head (162 GPH at 1 foot head). The unit includes fittings and 1.82m (6ft.) of 6.35mm (0.25in.) internal diameter, clear vinyl tubing. Electrical specifications: 0.4 amp, 19 Watt, 1/200 hp motor. Maximum recommended plating amperage is 60 amp.



Pump Model LC-2CP-MD

The large pump has a totally encapsulated motor, magnetically coupled to a centrifugal pump delivering up to 1136 LPH at 30 cm head (300 GPH at 1 foot head). Unit includes fittings and 1.8m (6ft.) of both 6.35mm (0.25in.) and 12.7 mm (0.50in.) ID, clear vinyl tubing. It also includes a bracket for mounting on the edge of a pump pan. Electrical specifications: 1.0 amp, 60 Watt, 1/35 hp motor. Maximum recommended plating amperage is 150 amp.



Peristaltic Pump

A self-priming, positive displacement pump with variable speed drive of 30-600 RPM. Delivering up to 136 LPH (36GPH) for special extended service applications, with one pump head. The unit includes 1.8m (6ft.) of 6.35mm (0.25in.) internal diameter, clear vinyl tubing and 610 mm (24 in.) of pump head tubing. Electrical specifications: 1.5 amp. Maximum recommended plating amperage is 30 amp.



Description	Part Number
Pump Submersible, Model 1U-MD, 115 VAC, 1Ø, 50/60 Hz	11000000
Pump Submersible, Model 1U-MD, 230 VAC, 1Ø, 50/60 Hz	11002000
Pump Large, Model LC-2CP-MD, 115 VAC, 1Ø, 50/60 Hz	11000300
Pump Large, Model LC-2CP-MD, 230 VAC, 1Ø, 50/60 Hz	11002300
Pump Peristaltic, Uniflex, 115 VAC, 1Ø, 50/60 Hz	11001100
Pump Peristaltic, Uniflex, 230 VAC, 1Ø, 50/60 Hz	11002200

Accessories for Peristaltic Pump

Description	Part Number
Peristaltic Replacement Head	61005100
Peristaltic Head Mounting Hardware	61005200
Gear Kit	21001150
In-line Pump Filter Cartridges	61005520
Replacement Pump Head Tubing 8 mm ID x 11 mm OD (0.313 x 0.439 in.) A minimum of two (2) feet should be purchased.	21100050
Gear only	61005120

Containers

Description	Part Number
Solution Caddy (Holds 6 500 ml Beakers, 83 mm diameter x 95 mm deep)	11300500
Replacement Beaker for Solution Caddy 500 ml w/lids	21602050
Wash Bottle 1000 ml	11500100
Beaker-Heavywall 1000 ml	11200200

Trays

Description	Part Number
Tray 127 mm x 178 mm x 32 mm H (5 in. x 7 in. x 1 ¼ in. H) White	11400000
Tray 203 mm x 254 mm x 52 mm H (8 in. x 10 in. x 2 in. H) White	11400050
Tray 356 mm x 432 mm x 89 mm H (14 in. x 17 in. x 3 ½ in. H) White	11400150
Tray 508 mm x 610 mm x 92 mm H (20 in. x 24 in. x 3 5/8 in. H) White	11400200
Tray With Corner Drain 203 mm x 254 mm x 52 mm H (8 in. x 10 in. x 2 in. H) White with 2 m (7 ft.) return line spiraduct tubing 1.9 mm (¾ in. dia.)	11400060
Tray With Corner Drain 279 mm x 356 mm x 70 mm H (11 in. x 14 in. x 2 ¾ in. H) White with 2 m (7 ft.) return line spiraduct tubing 1.9 mm (¾ in. dia.)	11400110
Tray With Corner Drain 356 mm x 432 mm x 89 mm H (14 in. x 17 in. x 3 ½ in. H) White with 2 m (7 ft.) return line spiraduct tubing 19 mm (¾ in. dia.)	11400160
Tray With Corner Drain 356 mm x 432 mm x 89 mm H (14 in. x 17 in. x 3 ½ in. H) White with 2 m (7 ft.) return line spiraduct tubing 25.4 mm (1 in. dia.)	11400170
Tray With Corner Drain 508 mm x 610 mm x 92 mm H (20 in. x 24 in. x 3 5/8 in. H) White with 2 m (7 ft.) return line spiraduct tubing 25.4 mm (1 in. dia.)	11400210
Submersible Pump Pan, Small 371 mm x 318 mm x 140 mm H (12 ½ in. x 14 5/8 in. x 5 ½ in. H)	11401000
Splash Guard Netting (per sq. ft.)	26000050



Catch Trays



Tray with Spiraduct Tubing

Tubing

Description	Part Number
Spiraduct Tubing 19 mm dia. (3/4 in.) Black PVC	21103050
Spiraduct Tubing 25.4 mm dia. (1 in.) Black PVC	21103070
Spiraduct Straight Fitting 19 mm dia (3/4 in.) Black PVC	21406160
Spiraduct Straight Fitting 25.4 mm dia. (1 in.) Black PVC	21406170
Spiraduct Elbow 90° Fitting 25.4 mm dia. (1 in.)	21406180
Hosecock Clamps 12.7 mm (1/2 in.)	21500010
Vinyl Tubing 3.18 mm ID x 6.35 mm OD (0.125 in. x 0.250 in.)	21101050
Vinyl Tubing 6.35 mm ID x 9.52 mm OD (0.250 in. x 0.375 in.)	21101100
Vinyl Tubing 9.52 mm ID x 14.22 mm OD (0.375 in. x 0.560 in.)	21101150
Vinyl Tubing 12.7 mm ID x 19 mm OD (0.500 in. x 0.750 in.)	21101200
Hose Clamps, For Vinyl Tubing 6.35 mm ID (0.250 in.) (6/pk)	22265206
Hose Clamps, For Vinyl Tubing 9.52 mm ID (0.375 in.) (6/pk)	22265211
Hose Clamps, For Vinyl Tubing 12.7 mm ID (0.500 in.) (6/pk)	22265216

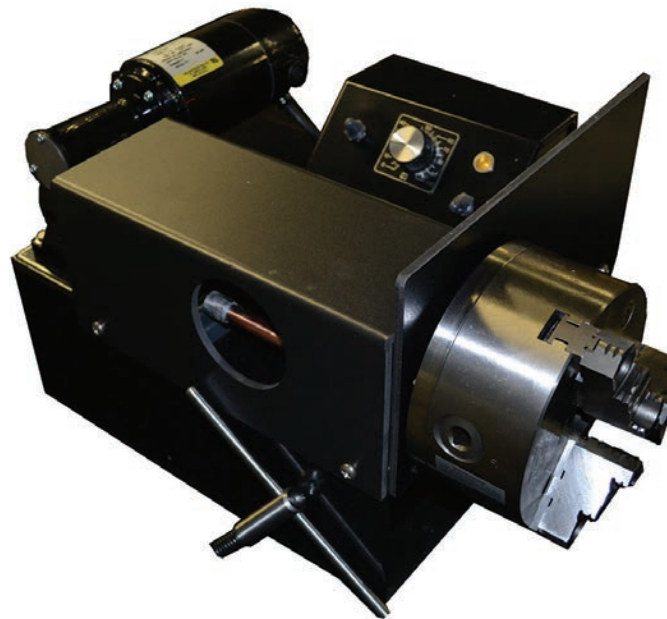
Fittings

Description	Part Number
Flow Fitting (Straight), 3/pk 1/8 in. MPT x 6.4 mm (fits OD 25-50 anodes, uses 1/4 in. ID tubing)	21401004
Flow Fitting (90 degree elbow), 3/pk 1/8 in. MPT x 6.4 mm	21400110
Flow Fitting (Straight), 3/pk 1/8 in. MPT x 9.5 mm (for #150 Handles and OD 60-100 Anodes, uses 3/8 in. ID tubing)	21401005
Flow Fitting (Straight), 3/pk 3/8 in. MPT x 9.5 mm (uses 3/8 in. ID tubing)	21401008
Flow Fitting (90 degree elbow), 3/pk 3/8 in. MPT x 9.5 mm (uses 3/8 in. ID tubing)	21400121
Flow Fitting (Straight), 3/pk 1/2 in. MPT x 12.7 mm (uses 1/2 in. ID tubing)	21401033
Flow Fitting (90 degree elbow), 3/pk 1/2 in. MPT x 12.7 mm (uses 1/2 in. ID tubing)	21400130
Flow Fitting (Tee — Compression), 3/pk 3/8 in. MPT x 9.5mm (for I.D. Plater, uses 1/4 in. ID tubing)	21404030
Flow Fitting (Compression; 90 degree elbow), 3/pk 1/4 in. FPT x 9.5 mm (for S and L Submersible Pumps, uses 1/4 in. ID tubing)	21400230

Turning Head Model N

The SIFCO Process® Model N Turning Head will provide years of trouble-free service as a light- to medium-duty rotating device. The turning head consists of a heavy-duty steel base, supporting a speed control and gear motor assembly with a drive bearing-mounted shaft, grounding bar, and chuck. The right angle gearbox is coupled to a shaft supported by two sealed, heavy-duty, self-aligning pillow block type bearings. A quality steel chuck is attached to a stainless steel backplate mounted on the shaft. This 3 jaw chuck comes complete with internal and external jaws, and a chuck wrench.

Description	Part Number
Turning Head Model N, 115 VAC, 50/60 Hz	10503000
Turning Head Model N, 230 VAC, 50/60 Hz	10503050
Drive Unit	1/3 hp permanent magnet DC gearmotor with reversible, variable speed control box
Chuck Capacity	152 mm (6 in.) maximum diameter, with 610 mm (24 in.) maximum length. Internal and external jaws, for parts up to 23 kg (50 pounds)
Rotating Speed	Adjustable from 0 to 500 rpm
Power Requirements	115 VAC, 1Ø, 50/60 Hz, 6 amp 230 VAC, 1Ø, 50/60 Hz, 3 amp



Turning Head Model N

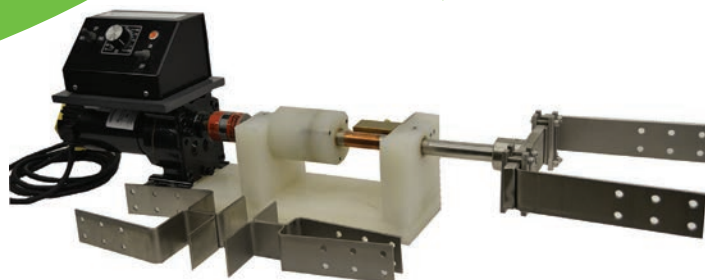
Traversing Arm

The SIFCO Process® Traversing Arm provides mechanical oscillation or traversing motion for an otherwise manually-moved plating handle. Use of the SIFCO Process® Traversing Arm eliminates the need to have an operator move a plating tool, decreasing operator fatigue and freeing him or her to perform other tasks. The mechanical motion control supplied by the Traversing Arm will improve the efficiency of any plating or anodizing operation, help to decrease plating cycle time, maximize deposit quality, and improve uniformity. The Traversing Arm will accommodate all standard SIFCO Process® plating tool handles, providing motion to virtually any size anode which can be attached to the plating tool handle. Speed control and effective length of movement are both easily adjustable for this unit.

Description	Part Number	
Traversing Arm, 115 VAC 50/60 Hz	61003120	
Traversing Arm, 230 VAC 50/60 Hz	61003200	
Drive Unit	248 watt (1/3 hp) permanent magnet dc gearmotor, with variable speed control	
Rotating Speed	Infinitely adjustable, 0-100 percent of motor speed (approximately 0 to 350 oscillations per minute [or rpm])	
Linear Speed (Tee Nut set at 25.4 mm (1 inch) radius)	10 m/min at 100 rpm 18 m/min at 175 rpm	33.3 ft/min at 100 rpm 58.3 ft/min at 175 rpm
Oscillating Speed Tee Nut set at 25.4 mm (1 inch) radius Link Arm length 559 mm (22 inch) overall	28 m/min at 100 rpm 49 m/min at 175 rpm	91.6 ft/min at 100 rpm 160.4 ft/min at 175 rpm
Linear Speed Tee Nut set at 50.8 mm (2 inch) radius	20 m/min at 100 rpm 36 m/min at 175 rpm	66.67 ft/min at 100 rpm 116.67 ft/min at 175 rpm
Oscillating Speed Tee Nut set at 50.8 mm (2 inch radius) Link Arm length 559 mm (22 inch) overall	56 m/min at 100 rpm 98 m/min at 175 rpm	183.3 ft/min at 100 rpm 320.7 ft/min at 175 rpm
Power Requirements	115 VAC, 1Ø, 50/60 Hz, 3 amp 230 VAC, 1Ø, 50/60 Hz, 3 amp	



Traversing Arm



ID Plater

The SIFCO Process® Variable Speed ID Plater consists of a variable speed drive unit attached to a non-rotating, insulated, corrosion-resistant polypropylene base and flow chamber assembly. The flow chamber contains a high-quality mechanical solution seal which is made from corrosion-resistant stainless steel, graphite and ceramic. A hollow stainless steel shaft is used to rotate the plating tools, with a copper-graphite brush contact to conduct a plating current up to 150 amp. Plating solution is conveyed to the tools with vinyl tubing and nylon fittings. The plating anodes are secured to the shaft by using the hub and one of the three sets of included titanium leaf springs. Twenty four stainless steel mounting screws are provided to mount the anode to the spring arms. Optionally, small-sized anodes may be secured by using an IDP Adapter (not included) to rotate tools such as the SIFCO ID Series anodes. A custom hub assembly or extension can be used to plate larger bore sizes.

Description	Part Number	
ID Plater Variable Speed, 115 VAC or 230 VAC, 50/60 Hz	10600200	
IDP Adapter (ID Plater to ID Anode)	12401600	
Drive Unit	1/8 hp variable speed, 9 to 94 rpm, full load torque 77 lb-in.	95 watt variable speed, 3 to 122 rpm, full load torque 5.2 N*m
Leaf Springs (total of six)	Set 1 - For 4 to 7 in. ID (Designated "S") Set 2 - For 7 to 10 in. ID (Designated "M") Set 3 - For 9 to 12 in. ID (Designated "L")	Set 1 - For 102 to 178 mm ID (Designated "S") Set 2 - For 178 to 254 mm ID (Designated "M") Set 3 - For 229 to 305 mm ID (Designated "L")
Flow Chamber Inlet Fitting	1/2 in. MPT x 1/2 in. tubing	1/2 in. NPT x 12.7 mm tubing
Shaft Outlet	3/8 in. FPT threaded	3/8 in. NPT threaded
Bore Sizes Range	From approximately 4 in. to 12 in. (With optional adapters, sizes from 1.5 in. to 3 ft)	From approximately 102 to 305 mm (With optional adapters, sizes from 40 mm to 914 mm)
Recommended plating amperage range	Up to 150 amp	
Power requirements	115 VAC, 1Ø, 50/60 Hz, 5 amp 230 VAC, 1Ø, 50/60 Hz, 3.15 amp	

Rotary Tool

The SIFCO Process® Rotary Tool has been designed to mechanize plating operations and decrease the process time when plating blind holes and small diameters ranging in size from approximately 1.5 mm to 38 mm (0.06 in. to 1.5 in). This system reduces the operator fatigue when a plating tool must be moved by hand. The SIFCO Process® Rotary Tool has been designed specifically for small-sized plating jobs requiring 30 amp or less of plating current.



Rotary Tool 115 VAC Unit		Part Number	
Rotary Tool Complete Unit, 115 VAC or 230 VAC 50/60 Hz		10700200*	
Rotary Tool Handle Assembly (Anode Holders, Adapters and Caps)		10700160*	
Drive Cable Assembly (Flexible Shaft, Casing, and Shaft Connector)		61001040*	
Drive unit		1/10 hp DC gear motor 0 to 900 rpm nominal (reduction gear output) 0 to 9000 rpm nominal (direct drive output)	
Bore size range for plating tool		From approximately 0.06 in. to 1.5 in.	From approximately 1.5 mm to 38 mm
Flexible cable		Separate sheath and shaft, 3 ft length	Separate sheath and shaft, 0.9 m length
Plating amperage range		Up to 30 amp	
Power requirements		115 VAC, 1Ø, 50/60 Hz, 3 amp 230 VAC, 1Ø, 50/60 Hz, 3 amp	

Portable Ventilation Unit

The SIFCO Process® Portable Ventilation System has been designed to capture and filter airborne contaminants. This Portable Fume Extractor is suitable for use with all non-cyanide SIFCO Process® solutions.

Description	Part Number
Portable Ventilation System, Model 300, 50/60 Hz Includes one HEPA + one 10 lb Acid/Gas/Ammonia filter	110 VAC - 10907552 220 VAC - 10907553
Model 300 HEPA Filter – Up to 99.97% efficient on particles down to .3 microns in size	10900120
Model 300 Heavy Duty 10 lb Blended filter – Acid, Gas and Ammonia	10900121
Hour Counter - Displays total hours of operation for ventilation unit	10907002
Magnehelic Gauge - To maintain the capacity of the HEPA filter	10907003
Power Requirements	115 VAC, 1Ø, 50/60 Hz, 2 amp 220 VAC, 1Ø, 50 Hz

Specifications

Cabinet Dimensions:	15.5"L x 13"W x 16.5"H
Arm Dimensions:	5" Round x 68" Long fire retardant flex hose
Weight:	40 lbs.
Cabinet Material:	16 ga. carbon steel w/ polyester epoxy coating on all surfaces
Motor:	Fractional Horsepower
Available Filter Efficiencies:	HEPA Filter - Up to 99.97% efficient on particles 0.3 microns and larger. ASHRAE Filter - Up to 95% efficient on particles 0.5 microns and larger. ULPA Filter - Up to 99.9995% efficient on particles 0.12 microns and larger. Activated Carbon & Specialty-Blended Filters - Efficiency varies per chemical.
Air Volume:	Variable Speed Control Standard on 115V 350 CFM High, Down to 50 CFM Low <i>On/Off Toggle Switch Standard on 220V</i>
Electrical:	115/1/60, 2 amps 220/1/50, .75 amps
Sound Level:	61 to 66 dba (Blower Speed: Low to High)
Warranty:	Limited two-year manufacturer's warranty from date of shipment on defects due to materials or workmanship.



Hard Coat Solution Cooler

The Hard Coat Solution Cooler has been developed to cool and then maintain the SIFCO Process® SHC Hard Coat Code 5025 Solution at the proper refrigerated operating temperature. The unit has a refrigeration capacity of 2,000 watts (Model 100) at 32°F. Therefore, it has ample cooling capability for any hard coating job that can be done with an SP 15-50 Power Pack.

The Hard Coat Solution Cooler consists of a refrigeration cabinet, a stainless steel immersion cooling probe, and a stainless steel immersion temperature sensor. The immersion-cooling probe is made from ½ in. diameter, stainless steel tubing formed to make a helical coil.

A small submersible pump pan to contain the hard coat solution and the immersion-cooling probe is also included. Two gallons of solution are required to cover the entire probe when it is in the tank.

Description	Part Number
Hard Coat Solution Cooler Model 100 (2,000 watts) Maxi Cool Recirculating Chillers have a temperature range of -15° to +35°C	10931101



Maxi Cool Recirculating Chiller

Sifco Workstation Product 10902000

The SIFCO Process® Workstation is constructed of a heavy duty, chemical resistant material. Designed with operator and application flexibility in mind, the unit has convenient eye level shelves for a power pack, pumps, and other accessories. The main work surface will accommodate SIFCO Process® auxiliary equipment, including: Turning Head, Traversing Arm, and ID Plater (sold separately).

Accessories

Ventilation: An articulated vent provides maximum coverage for the work area and will connect to your facilities' exhaust system, or our optional ventilation system (not included).

Electrical Outlets: Outlets are conveniently located for use with the power pack and auxiliary equipment.

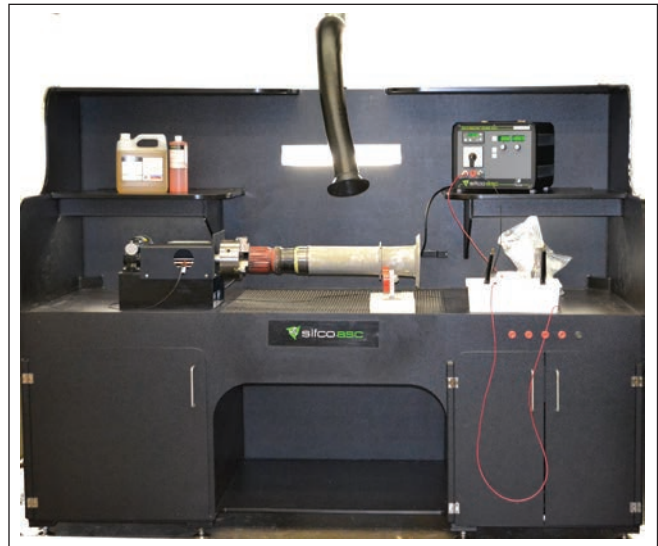
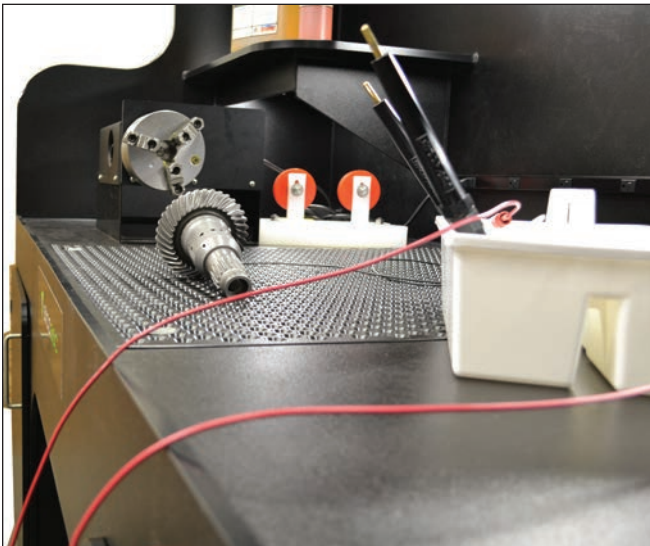
Sink with Commercial Faucet: Supplies hot and cold water from its gooseneck faucet and retractable spray hose.

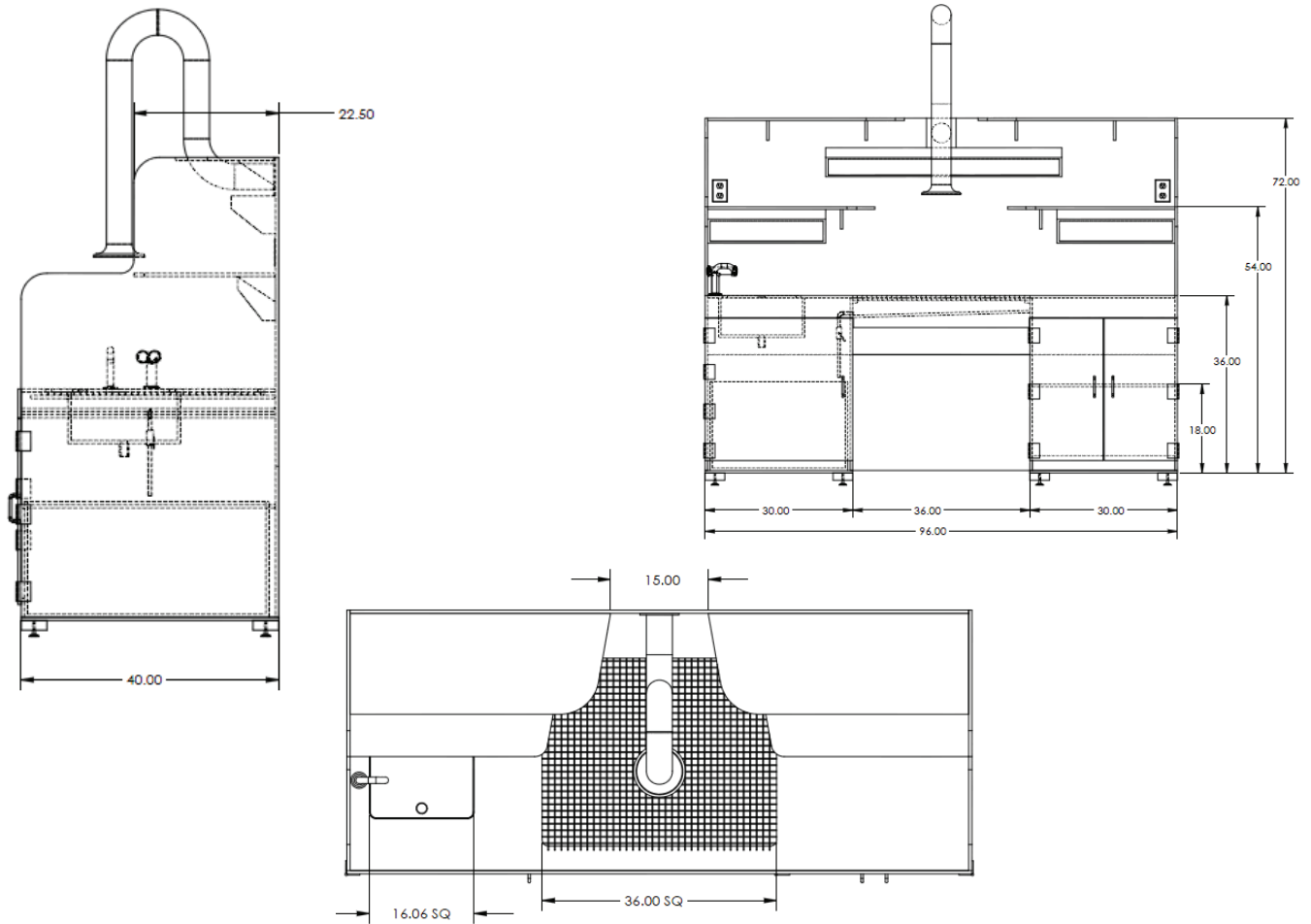
Small Parts Processing Fixture: Enables the operator to elevate and secure smaller parts for ease of processing.

Portable Ventilation: The stand-alone unit will connect to the vent arm and can be located behind or beside the workstation.

Workstation Advantages

- In-house use.
- Operator safety and comfort.
- Durable and corrosion resistant.
- Operational efficiency.
- Custom built.





Cadmium LHE Touch-Up Plating Kits

Description	Part Number
Cadmium 2023 Touch-Up Kit (115V) — Power Pack SP-C 15-20-115-1 (115V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80202381
Cadmium 2023 Touch-Up Kit (230V) — Power Pack SP-C 15-20-230-1 (230V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80202382
Cadmium 5070 Touch-Up Kit (115V) — Power Pack SP-C 15-20-115-1 (115V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80507081
Cadmium 5070 Touch-Up Kit (230V) — Power Pack SP-C 15-20-230-1 (230V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80507082

Zinc-Nickel LHE Touch-Up Plating Kits

Description	Part Number
Zinc-Nickel 4018 Touch-Up Kit (115 V) — Power Pack SP-C 15-20-115-1 (115V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80401881
Zinc-Nickel 4018 Touch-Up Kit (230 V) — Power Pack SP-C 15-20-230-1 (230V), Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80401882

Non-Cyanide Silver Touch-Up Plating Kits

Description	Part Number
Silver Non-Cyanide Code 3084 Repair Travel Kit (115V) — Power Pack SP-C 30-20-115-1, Lead Positive Red 75, Amp, 3m (9.8 ft.), Lead Negative Black 75 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite FT-60, Sleeving Cotton 34C (1 in. x 50 yd.), Beaker Heavy-Wall 400 ml., Cotton Batting (12 in. x 9 ft.), Tray (8 in. x 10 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 2 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Red Tuffwrap pads 6/pk (9 in. x 6 in.)	80308481
Silver Non-Cyanide Code 3084 Repair Travel Kit (230V) — Power Pack SP-C 30-20-230-1, Lead Positive Red 15 Amp, 3m (9.8 ft.), Lead Negative Black 15 Amp, 3m (9.8 ft.), Handle 75 Amp molded, Anode Graphite ID-13 (1/2 in. OD x 3 3/8 in. L), Sleeving Cotton 12C (1 in. x 50 yd.), Beaker Heavy-Wall 1000 ml., Cotton Batting (12 in. x 9 ft.), Tray (5 in. x 7 in.), Wash Bottle 1000 ml., Tape Aluminum 1 in. x 60 yd., Tape Vinyl 1 in. x 36 yd., Adhesion Test Tape 1 in. x 60 yd., Disposable Gloves 100/pk, Empty bottles (500 ml size) includes solution labels, Product Labels, Hazard Labels, Orientation Labels, ID/PT adapter for 90 degree handle	80308482
Aluminum Bus Option For Non-Cyanide Bus Repair Kit Travel Case (31 in. L x 23 in. W x 19 in. H), Model 75 AeroNikl® Flow System, 3 Handles - 75 Amp molded, 3 Anodes - Graphite FT-60, Solution Caddy, Empty bottles (500 ml size) includes solution labels	80308490



Travel Kit

Preparatory Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
Electrocleaning ^Đ	1010/4100	80101015✕	80101020✕	80101035✕	80101040	80101050
No. 1 Etching & Activating ^Đ	1021/4200	80102115✕	80102120✕	80102135✕	80102140	80102150
No. 2 Etching ^Đ	1022/4300	80102215✕	80102220✕	80102235✕	80102240	80102250
No. 3 Etching & Desmutting (Clear)	1023	80102315✕	80102320✕	80102335✕	80102340✕	80102350
No. 3 Etching & Desmutting (Blue)	4350	80435015✕	80435020✕	80435035✕	80435040✕	80435050
No. 4 Etching & Activating ^Đ	1024/4250	80102415✕	80102420✕	80102435✕	80102440	80102450
No. 6 Etching ^Đ	1026/4260	80102615✕Δ	80102620			
No. 10 Activating ^Đ	1031/4450	80103115✕	80103120	80103135✕	80103140	80103150
Aluminum Activator & Preplate No. 1 ^Đ	1078/4460	80107815✕	80107820	80107835✕		



Electrocleaning Code 1010/4100



Etching & Activating Code 1021/4200



Etching Code 1022/4300



No. 10 Activating Code 1031/4450

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Plating Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
AeroNikl® 250 (Sulfamate Nickel) [Ⓓ]	7280/5725	80728015✕	80728020✕	80728035✕	80728040	80728050
AeroNikl® 400 (Sulfamate Nickel) [Ⓓ]	7281/5726	80728115✕	80728120✕			
AeroNikl® 575 (Sulfamate Nickel) [Ⓓ]	7282/5727	80728215✕	80728220✕			
Cadmium (Acid) [Ⓓ]	2020/5050	80202015✕ ^Δ	80202020			
Cadmium, LHE ^{ⒹⒹ}	5070	80507015✕ ^Δ	80507020	80507035✕	80507040	80507050
Cadmium No Bake ^{ⒹⒹ}	2023	80202315✕ ^Δ	80202320	80202335✕	80202340	80202350
Chromium (Dense Trivalent)	2030	80203015✕	80203020✕			
Cobalt [Ⓓ]	5200	80520015✕	80520020✕	80520035✕	80520040✕	
Cobalt, (Semi-Bright, Heavy-Build) [Ⓓ]	5204	80520415✕	80520420✕			
Cobalt (Heavy Build)	2043	80204315✕	80204320✕	80204335✕	80204340✕	80204350



AeroNikl® 250 Code 7280



Cadmium LHE® Code 5070



Cadmium (No Bake) Code 2023

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Plating Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
Copper (Acid) [Ⓓ]	2050/5250	80205015✕	80205020	80205035✕	80205040✕	80205050
Copper (Hi-Speed, Acid) [Ⓓ]	2055	80205515✕	80205520✕	80205535✕		
Copper, (High Speed, Acid) [Ⓓ]	5260	80526015✕	80526020✕	80526035✕	80526040✕	80526050
Copper (Hi-Speed, Alkaline) [Ⓓ]	2056	80205615	80205620	80205635✕		
Copper, (Heavy Build, Alkaline) [Ⓓ]	5280	80528015✕	80528020✕	80528035✕	80528040✕	80528050
Copper XHB [Ⓓ]	5305	80530515✕	80530520	80530535✕		
Indium	5451	80545115✕				
Iron ^{*Ⓓ}	2062/5502	80206215✕	80206220✕	80206235✕		
Nickel (Acid) [Ⓓ]	2080/5600	80208015✕	80208020✕	80208035✕	80208040✕	80208050
Nickel (Black) ^{Ⓓ*}	2082/5670	80208215✕	80208220✕	80208235✕		
Nickel (High Speed)	2085	80208515✕	80208520✕	80208535✕	80208540✕	80208550
Nickel (Ductile) [Ⓓ]	2086	80208615✕	80208620✕	80208635✕		
Nickel (Ductile) [Ⓓ]	2088	80208815✕	80208820✕			
Nickel (High Temperature) ^{*Ⓓ}	5610	80561015✕	80561020✕			
Nickel (Special) [Ⓓ]	5630	80563015✕	80563020	80563035✕	80563040✕	80563050



Copper (Acid) Code 2050/5250



Nickel (High Speed) Code 2085

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Plating Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
Nickel (Semi-Bright, High Leveling) [Ⓟ]	5642	80564215✕	80564220✕	80564235✕		
Nickel (High Speed) [Ⓟ]	5644	80564415✕	80564420✕	80564435✕	80564440✕	80564450
Nickel XHB [Ⓟ]	5646	80564615✕	80564620✕	80564635✕	80564640✕	80564650
Nickel (Neutral) [Ⓟ]	5650	80565015✕	80565020✕	80565035✕		
Tin (Alkaline)	2090	80209015✕	80209020✕	80209035✕	80209040✕	80209050
Tin (Alkaline)	2092	80209215✕	80209220✕	80209235✕	80209240✕	80209250
Tin (Acid) [Ⓟ]	5900	80590015✕	80590020	80590035✕		
Tin (Alkaline B) [Ⓟ]	5951	80595115✕	80595120	80595135✕		
Tin (High Speed) [Ⓟ]	2093	80209315✕	80209320	80209335✕		
Zinc (Alkaline) [Ⓟ]	2100/5980	80210015✕	80210020	80210035✕		
Zinc (Heavy Build)	2103	80210315✕	80210320✕	80210335✕	80210340✕	80210350

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Alloy Plating Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
Babbitt* [Ⓓ]	5925	80592515✕	80592520✕	80592535✕	80592540✕	80592550
Babbitt-Navy Grade 2* [Ⓓ]	4011	80401115✕	80401120✕			
Brass, Decorative [Ⓓ]	5942	80594215✕	80594220			
Bronze [Ⓓ]	5945	80594515✕	80594520✕			
Cobalt-Nickel [Ⓓ]	5708	80570815✕	80570820✕	80570835✕	80570840✕	
Cobalt-Tungsten*	5230	80523015✕	80523020✕			
Cobalt-Chromium Carbide (AeroShield [®])	4025	Please consult with our Sales Department				
Cobalt-Nickel	5705	80570515✕	80570520✕			
Nickel-Phosphorous [Ⓓ]	5709	80570915✕	80570920✕			
Nickel-Tungsten D [Ⓓ]	5710	80571015✕	80571020✕			
Nickel-Tungsten	5711	80571115✕	80571120✕			
Cobalt-Nickel, Semi-Bright (90/10) [Ⓓ]	5720	80572015✕	80572020✕			
Tin-Antimony*	5930	80593015✕	80593020✕			
Tin-Lead (60-40)*	4016	80401615✕	80401620✕			
Tin-Lead (60/40)* [Ⓓ]	5935	80593515✕	80593520✕			
Tin-Zinc (80/20)I (LHE [®])	4019	80401915✕	80401920✕			
Tin-Zinc (90/10)*	5936	80593615✕	80593620✕			
Zinc-Nickel (LHE [®])	4018/5970	80401815✕	80401820✕			
Zinc-Nickel	4021	80402115✕	80502120✕			

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Special Purpose Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 5 Gal.	Part No. 15 Gal.	Part No. 55 Gal.
Bright Nickel*	9281	80928115✕	80928120✕			
Copper (Cyanide) Strike [ⓓ]	9250/5240	80925015✕ ^Δ	80925020			
Chromate Conversion Coating for Cadmium [ⓓ]	5005	80500515✕	80500520✕			
Chromic Conversion For Cadmium [ⓓ]	3002	80300215✕	80300220✕	80300235	80300240	80300250
Trivalent Chromium Conversion Coating [ⓓ]	3007	80300715✕	80300720			
Electropolish [ⓓ]	9001	80900115✕	80900120			
Electropolish for Copper* [ⓓ]	9002	80900215✕	80900220✕			
NI Bond [ⓓ]	5605	80560515✕	80560520✕			
Olive Drab Chromate Conversion* [ⓓ]	5026	80502615✕				
Zinc-Nickel Chromate Conversion [ⓓ]	5030/3004	80503015✕	80503020			

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Precious Metal Solutions

Description Solution	Code	Metal Content (g/l)	Part No. 1/8 Liter	Part No. 1/4 Liter	Part No. 1/2 Liter	Part No. 1 Liter	Part No. 4 Liter
Gold Alkaline [ⓓ]	3020	100	80302000✕ ^Δ	80302005✕ ^Δ	80302010✕ ^Δ	80302015✕ ^Δ	
Gold Neutral ^{*ⓓ}	3021	98	80302100✕ ^Δ	80302105✕ ^Δ	80302110✕ ^Δ	80302115✕ ^Δ	
Gold Acid [ⓓ]	3022	90	80302200✕ ^Δ	80302205✕ ^Δ	80302210✕ ^Δ	80302215✕ ^Δ	
Gold	5350	100	80535000✕ ^Δ	80535005✕ ^Δ	80535010✕ ^Δ	80535015✕ ^Δ	
Gold Alkaline [ⓓ]	3023	25	80302300✕ ^Δ	80302305✕ ^Δ	80302310✕ ^Δ	80302315✕ ^Δ	
Gold Alkaline [ⓓ]	3024	50	80302400✕ ^Δ	80302405✕ ^Δ	80302410✕ ^Δ	80302415✕ ^Δ	
Gold N.C. (Non-Cyanide)	5355	31	80535500✕	80535505✕	80535510✕	80535515✕	
Gold [ⓓ]	5360	25	80536000✕ ^Δ	80536005✕ ^Δ	80536010✕ ^Δ	80536015✕ ^Δ	
Gold (Hard Alloy) ^{*ⓓ}	5370	100	80537000✕ ^Δ	80537005✕ ^Δ	80537010✕ ^Δ	80537015✕ ^Δ	
Gold Production [ⓓ]	5391	50	80539100✕ ^Δ	80539105✕ ^Δ	80539110✕ ^Δ	80539115✕ ^Δ	
Palladium	3040/5730	30				80304015✕	
Palladium E.G.*	5735	15	80573500✕	80573505✕	80573510✕	80573515✕	
Palladium Strike	9340	10				80934115✕	
Palladium Strike L	9341/5736	6				80934115✕	80934120✕
Platinum [ⓓ]	3052/5750	50	80305200✕	80305205✕	80305210✕	80305215✕	
Rhodium [ⓓ]	5800	20	80580000✕	80580005✕	80580010✕	80580015✕	
Rhodium (HB) ^{*ⓓ}	5805	10	80580500✕	80580505✕	80580510✕	80580515✕	
Rhodium (Low Stress) ^{*ⓓ}	5810	50	80581000✕	80581005✕	80581010✕	80581015✕	
Silver (Heavy Build) [ⓓ]	5860	61			80586010✕ ^Δ	80586015✕ ^Δ	
Silver (Hard Heavy Build)	3083	100			80308310✕ ^Δ	80308315✕ ^Δ	
Silver (Non-Cyanide) [ⓓ]	3084/5870	100			80308410✕	80308415✕	
Silver (Production Non-Cyanide) [ⓓ]	5871	50				80587115✕	80587120✕
Silver Strike [ⓓ]	9150/5856					80915015✕ ^Δ	
Silver Tank Plating Solution [ⓓ]	9385	30				80938515✕ ^Δ	80938520

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Anodizing Solutions

Description Solution	Code	Part No. 1 Liter	Part No. 4 Liter	Part No. 2 Gal.
Anodizing Type I (Chromic) [Ⓟ]	5010	80502715	80502720	80501030✈
Anodizing Type I (Chromic) Gel [Ⓟ]	5027	80502715✈		
Anodizing Type II Sulfuric [Ⓟ]	5011	80501115✈	80501120	
Anodizing Type III (SHC Hard Coat) [Ⓟ]	5025	80502515✈	80502520	
Hard Coat Anodizing (Type III)	4730	80473015✈	80473020	
Anodizing (Phosphoric) [Ⓟ]	5023	80502315✈	80502320✈	
Anodizing (Phosphoric) Gel [Ⓟ]	5024	80502415✈		
Anodizing (Boric-Sulfuric) [Ⓟ]	5031	80503115✈	80503120	
Anodizing (Boric-Sulfuric) Gel [Ⓟ]	5032	80503215✈		
Chromic/Sulfuric Anodizing [Ⓟ]	4710	80471015✈	80471020✈	80471030✈
Alorode [Ⓟ]	4750	80475015✈	80475020	
Trivalent Chromium Post-Treatment Anodizing Seal	5020	80502015✈	80502020	
Anodizing Seal No. 1 [Ⓟ]	5021	80502115✈	80502120	
Anodizing Seal No. 2	5022	80502215✈	80502220✈	
Dichromate Seal	3003	80300315✈	80300320✈	
Anodize and Hard Coat Stripping [Ⓟ]	1046	80104615✈	80104620	
Black Anodized Coating Dye	5101	80510115✈		

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Contract Plating Services

Whether you have an occasional need for engineered coatings or your operation involves a high volume of parts that require localized plating, SIFCO ASC provides flexible alternatives for your metal finishing needs around the world. Certified technicians can do the work at your facility or at one of our full-service locations worldwide. They are available to meet unexpected problems, responding to your need with fast and expert service.

The portability of the SIFCO Process® enables Contract Service Technicians to be on site and working within a short period of time. SIFCO technicians are adept at improvising tooling and fixturing to suit unusual conditions. In addition, they have mechanical, metallurgical and chemical skills that form an unrivaled team approach.

Custom tailored service plans are designed to fit your needs. Depending upon volume and requirements, SIFCO's plating service options include turnkey production plating and job shop services.

To investigate these customized programs, review the applicability, and estimate the cost of a production application or a potential plating service job contact your nearest SIFCO facility via telephone or fax.

If part volumes and economics warrant, SIFCO ASC can also design plating systems for in-line production operations. These systems are ideal for use within today's lean manufacturing environments. To find out more, contact our Technical Support Group by calling SIFCO Applied Surface Concepts headquarters at 216-524-0099.

**FAA Repair Station #SOXR680K (Independence, OH), #SOX3680K (East Windsor, CT)
Nadcap, AC7108 Chemical Processing
(Independence, OH and East Windsor, CT)**

Training

The SIFCO Process® is an advanced electroplating technology. A formal, structured study of the process and equipment to be used is essential for success. SIFCO Applied Surface Concepts has created a series of training programs designed to meet specific customer needs. Effective training provides the knowledge and instills the confidence required by all operators. The prospective operator should be able to thoroughly carry out instructions, complete simple formulas, and have the

desire to learn new techniques. Experience in evaluating electroplated deposits' quality and adhesion are a plus.

Hands-on experience under the guidance of a SIFCO Certified Instructor will prove to be invaluable when returning to the workplace. The operator will be able to recognize the signals of potential problems and learn the necessary actions to correct them. In each training class, operators will have the opportunity to discuss company specific applications and exchange information with fellow classmates.

SIFCO Process training is beneficial for operators, engineers, machinists, mechanics, welders and supervisory staff. Technicians and machinists typically have the attributes for becoming a successful SIFCO Process operator. Supervisors taking the course will develop a working knowledge of the process and will be able to manage operators and assist as necessary. Additionally, engineers will benefit from the technical aspects of the course. Training programs are offered throughout the year at our headquarters in Independence, Ohio, USA. SIFCO Certified Instructors are also available for on-site training programs. To find out more, contact our Training Department at 216-524-0099.

Environmental Support Services

The SIFCO Process® of Selective Electroplating provides superior electroplated deposits and anodized coatings with minimal waste. Utilization of the SIFCO Process® enables companies to meet or exceed most industrial requirements while remaining sensitive to environmental regulations.

There is no question that environmental regulatory enforcement is significantly different today than years ago. The terminology alone can be baffling until studied and understood. SIFCO ASC has a thorough knowledge of the regulations which are mainly promulgated by OSHA and the EPA. Our Environmental Services Department is charged with staying current with environmental regulations and assisting our staff and customers. These environmental support services are available to all SIFCO Process customers by calling SIFCO Applied Surface Concepts headquarters at 216-524-0099.

Quality Control

When you use the SIFCO Process® you can be assured of quality at every step. Great care is taken in the manufacture of products used in the SIFCO Process®. From the receipt of raw materials to the packaging of final products, a comprehensive quality assurance program is utilized. SIFCO Applied Surface Concept's Quality Management System is registered to:



Adapters	10	Peristal Pump	25
Alloy Plating Solutions	41	Plating Kits	36
Anodes	11	Plating Solutions	38-40
Anodizing Solutions	44	Platinum-Clad Niobium Material	17
Auxiliary Equipment	28	Portable Ventilation Unit	32
Batting and TuffWrap	19	Power Packs	8-9
Bulk Graphite	15	Precious Metal Solutions	43
Cadmium LHE Touch-Up Plating Kits	36	Preparatory and Stripping Solutions	37
Contract Plating Services	45	PT Anodes	11
Copper Select Measuring Equipment	22	Pump Model LC-2CP-MD	25
Copper Select Plating Anodes	16	Pumps	25
Copper Select Preparatory Anodes	15	Quality Control	46
Environmental Support Services	45	Rotary Tool	31
Flow Systems	23-24	SIFCO Process®	2
Freight Information	6	SIFCO Process® Advanced DC Switch Mode Power Packs	9
FT Anodes	13	SIFCO Process® Classic Power Packs	8
Handles	10	SIFCO Process Solutions	37
Hard Coat Solution Cooler	33	Sleeving	18
ID Anodes (large)	12	Solution Containers and Trays	26
ID Anodes (small)	11	Special Purpose Solutions	42
ID Plater	30	SIFCO Process Solutions	37
Instruction Manuals	22	Submersible Pump Model 1U-MD	25
Jackets	20	Training	45
List of Abbreviations	7	Traversing Arm	29
Masking Materials	21	Tubing and Fittings	27
Miscellaneous Accessories	22	Turning Head Model N	28
Non-Cyanide Silver Touch-Up Plating Kits	36	Workstations	34-35
OD Anodes	14	Zinc-Nickel LHE Touch-Up Plating Kits	36
Output Leads	10		



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