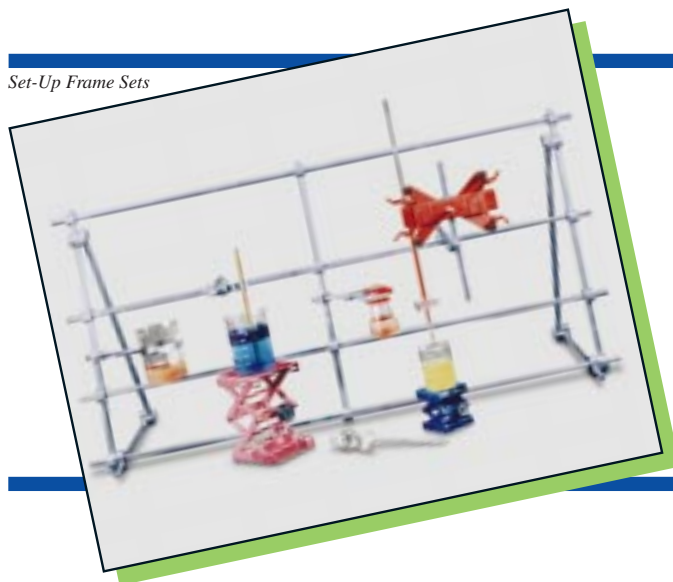


Laboratory Apparatus

SET-UP FRAME SETS

Lab-Line

Set-Up Frame Sets



STRONG AND VERSATILE SUPPORT SYSTEMS!

- — Easy construction in almost any rectangular shape and size
- — Two sizes of frame set-ups
- — Eight sizes of frame rods
- ★ — 24 Month Warranty

PRODUCT DESCRIPTION

- Frame sets come with all components necessary for a complete frame assembly.
- Extruded solid aluminum .5" (1.3 cm) diameter rods.
- Rigid frame supports allow the addition or removal of supports and apparatus without needing to dismantle the entire set-up.

APPLICATIONS

- Wide assortment of rod lengths available, suitable for many laboratory applications.
- Rigid frame supports are especially useful for glassware and apparatus assemblies in chemistry laboratories.

ORDERING INFORMATION

Model #	Description	Dimensions Inches (cm)		US List Price
		H	W	
7090	Includes 4 ea. 7100-1, 2 ea. 7100-3, 8 ea. 7100-4, and 22 ea. 7050-1	24 (61)	24 (61)	\$305.00
7096	Includes 6 ea. 7100-1, 6 ea. 7100-2, 2 ea. 7100-4, 7 ea. 7100-6, 5 ea. 7100-7, 49 ea. 7050-1 and 8 ea. 7051	48 (122)	72 (183)	\$695.00

ACCESSORIES

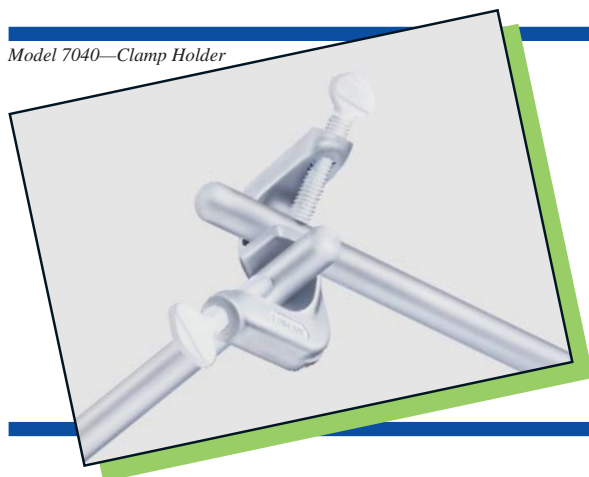
Model #	Description	Length Inches (cm)	US List Price
7100-1	Alumaloy Rods	1.64 (4.1)	\$5.00
7100-2	Alumaloy Rods	12 (30.5)	\$7.00
7100-3	Alumaloy Rods	18 (45.7)	\$8.00
7100-4	Alumaloy Rods	24 (61)	\$12.00
7100-5	Alumaloy Rods	36 (91.4)	\$14.00
7100-6	Alumaloy Rods	48 (122)	\$22.00
7100-7	Alumaloy Rods	72 (182.9)	\$27.00
7100-8	Alumaloy Rods	96 (243.8)	\$31.00
7050-1	Frame Clamp		\$9.00
7051	Frame Foot		\$14.00

Laboratory Apparatus

ALUMALOY® CLAMPS

Lab-Line

Model 7040—Clamp Holder



FIELD TESTED BY THOUSANDS OF SATISFIED USERS!

- — Special die-cast aluminum alloy—more corrosion-resistant than zinc or steel
- — 47,000 psi tensile strength and 1100°F melting point
- — Stainless steel spring for uniform tension
- — Nickel-plated brass pivot pins ensure positive movement without wobbling
- ★ — 24 Month Warranty

CLAMP HOLDERS

Model 7040

- Double “45” Clamp Holder for rods or pipes up to .9” diameter.
- Horizontal or vertical right-angle clamp set up.
- Two 45° angle ribbed thumbscrews included.

Model 7068

- “One-hand” Clamp Holder with both thumbscrews mounted on the same side.
- Clamp sections are at right angles to each other.

FRAME CLAMPS

- Used for apparatus support frame set-up: add a horizontal or vertical rod without having to tear down the existing standard frame.
- Model 7050-1 uses Allen screws (included).
- Model 7050-6 has ribbed thumbscrews—perfect for student use.

EXTENSION CLAMP COUPLINGS

- Used to join support rod lengths or to extend clamps fastened to support rods.
- Allows rods of different diameter to be intermixed.
- Ribbed thumbscrews included.
- Model 7053 provides end-to-end butt coupling.
- Model 7066 provides side-to-side linear coupling, with v-shaped centering groove to guarantee stability.

ORDERING INFORMATION

Model #	Rod Capacity Diameter Inches (cm)	Total Length Inches (cm)	US List Price
7040	up to 0.9 (2.2)	5.5 (14)	\$15.00
7050-1	up to 0.5 (1.3)	1.75 (4.4)	\$9.00
7050-6	up to 0.5 (1.3)	1.75 (4.4)	\$14.00
7053	up to 0.5 (1.3)	3 (7.6)	\$30.00
7066	up to 0.5 (1.3)	1.5 (3.8)	\$36.00
7068	up to 0.5 (1.3)	2 (5.1)	\$14.00

Model 7050-1—Frame Clamp



Model 7050-6—Frame Clamp



Model 7053—Extension Clamp Coupling



Model 7066—Extension Clamp Coupling



48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Laboratory Apparatus

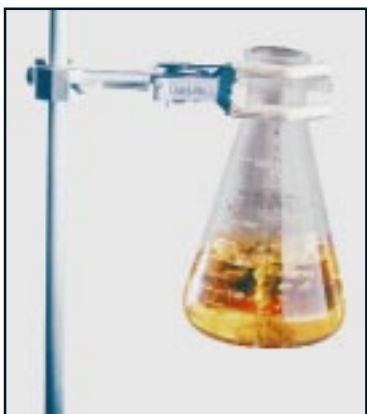
ALUMALOY® CLAMPS

Lab-Line

Model 7004—Tri-Grip “45”
Extension Clamp



Model 7014—Tri-Grip “45”
Combination Utility
and Burette Clamp



Model 7048-1,2,3,4—
Varigrip Clamps



★ — 24 Month Warranty

PRODUCT DESCRIPTION

Tri-Grip “45” Extension Clamps

- Three pronged jaws.
- Three vinyl and three woven fiberglass high temperature sleeves included.
- Sizes to fit every application.

Varigrip Clamps

- Perfect for cylindrical glassware and similar apparatus.
- Adjustable spring collar.
- Stainless steel handle and clamp.
- Available in four sizes.
- Thumbscrews included.

Tri-Grip “45” Combination Utility and Burette Clamp

- Three-pronged jaws.
- Three vinyl and three woven fiberglass high temperature sleeves included.
- 360° rotating 45° angle ribbed thumbscrew clamp holder.

ORDERING INFORMATION

Model #	Description	Extension Rod Diameter Inches (cm)	Jaw Cap. Inches (cm)	Support Rod Adjustable Inches (cm)	Total Length Inches (cm)	US List Price
Tri-Grip Extension Clamps						
7000	Small	.37 (0.9)	1.5 (3.8)	—	9 (22.9)	\$22.00
7004	Large	.44 (1.1)	3.5 (8.9)	—	11 (27.9)	\$24.00
7018	Micro	.25 (0.6)	1 (2.54)	—	6.5 (16.5)	\$22.00

Tri-Grip “45” Combination Utility and Burette Clamp

7010	Small	3/8(0.9)	1.5 (3.8)	3.75 (9.5) x 5.5 (14)	7 (17.8)	\$24.00
7014	Large	.44 (1.1)	3.5 (8.9)	3.75 (9.5) x 5.5 (14)	7 (17.8)	\$26.00
7022	Micro	.25 (0.6)	1 (2.54)	2 (5) x 5.5 (14)	1/4 (0.6)	\$24.00

Model #	O.D. Accommodation Inches (cm)	Extension Shaft Diameter Inches (cm)		Total Length Inches (cm)	US List Price
		L	D		
Varigrip Clamps					
7048-1	2.5 (6.4)-3.5 (8.9)	7.25 (18.4)	0.43 (1.1)	12 (30.5)	\$27.00
7048-2	3.75 (9.5)-4.5 (11.4)	7.25 (18.4)	0.43 (1.1)	12 (30.5)	\$27.00
7048-3	4.75 (12)-5.5 (14)	7.25 (18.4)	0.43 (1.1)	12 (30.5)	\$27.00
7048-4	5.5 (14)-6.5 (16.5)	7.25 (18.4)	0.43 (1.1)	12 (30.5)	\$27.00

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Laboratory Apparatus

ALUMALOY® CLAMPS

Lab-Line

Model 7049—Chain Clamp



Model 7051—Frame Foot



Model 7057—Double Support Base & Rod



CHAIN CLAMP

- 13" chain locks over a hook on the adjustable portion of the collar.
- Accommodates beakers with outside diameter of 2.5" to 6.5."
- Stainless steel shaft is 7.25" L x 0.43" dia. (18.4 x 1.6 cm).
- Total length 11.5" (29.2 cm).

FRAME FOOT

- Designed to support frame set-ups.
- Accepts .5" (1.3 cm) diameter rods.
- Three countersunk screw holes in foot.
- Allen set screws included.
- Overall diameter 2" (5 cm).

DOUBLE SUPPORT BASE AND ROD

- White glazed porcelain base measures 13" x 17" (33 x 17.8 cm).
- Base features a drip trough around the rim to prevent lab bench spills.
- Solid aluminum rod is threaded at one end, measures 23"H x .5" dia. (58.4 x 1.3 cm).
- Model 7058 includes the Double Burette Holder (Model 7086) with the Double Support Base and Rod (Model 7057).

"ERM" DOUBLE BURETTE HOLDER

- Quickly and securely supports two burettes—from micro size to 100 ml.
- Built-in meniscus reader.
- Holder will not obscure graduation lines and numbers.
- Sturdy, corrosion-resistant Lexglas® construction.
- Overall dimensions 9.5" W x 5" H (24.1 x 12.7), weighs only 6 oz.

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

★ — 24 Month Warranty

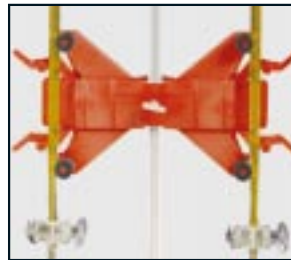
ORDERING INFORMATION

Model #	Jaw Capacity Inches (cm)	Rod Capacity Inches (cm)	Total Length Inches (cm)	US List Price
7049	2.5 - 6.5	up to 0.5 (1.3)	11.5 (29.2)	\$30.00
7051	2.5 - 6.5	up to 0.5 (1.3)	11.5 (29.2)	\$14.00
7057	2.5 - 6.5	up to 0.5 (1.3)	11.5 (29.2)	\$63.00
7058	2.5 - 6.5	up to 0.5 (1.3)	11.5 (29.2)	\$84.00
7078	1 (2.54)	up to 0.5 (1.3)	3.5 (8.9)	\$23.00
7079	0.5 (1.3)	up to 0.5 (1.3)	3.5 (8.9)	\$16.00
7086	0.5 (1.3)	up to 0.5 (1.3)	3.5 (8.9)	\$28.00

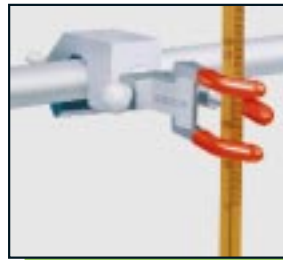
WATER BATH CLAMPS

- Support thermometers and other similar apparatus over water baths.
- Alumaloy construction with three-prong, vinyl-covered jaws.
- Model 7078 has a large clamp with rotating jaws, 1" (2.54) jaw capacity.
- Model 7079 has a small clamp with .5" (1.3 cm) jaw capacity, jaws do not rotate.
- 2.5" (6.35 cm) from apparatus center to center of support.

Model 7086—
EMR Double Burette Holder



Model 7078—Water Bath Clamp



Laboratory Apparatus

ALUMALOY® CLAMPS

Lab-Line

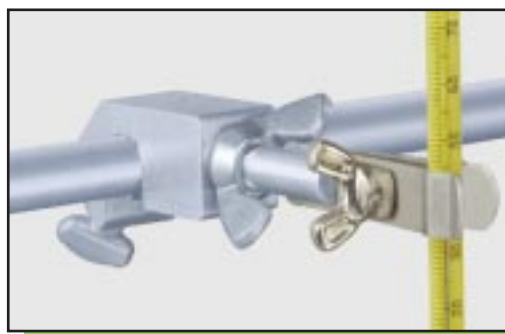
Model 7054—Duo-Clamp



Model 7064—All Angle Swivel Clamp



Model 7077—Thermometer Clamp



DUO-CLAMP

- Add attachments to support framework without disturbing previous set-up.
- Joins two rods in a "T" connection at any angle within a 360° arc.
- Alumatoy construction.
- Allen set screws and bead wrench included.
- 1.1" (2.8 cm) overall diameter.

ALL-ANGLE SWIVEL CLAMP

- Connect rods, extension clamps, frames or other apparatus up to .5" diameter at any angle.
- Two 45° angle ribbed thumbscrews rotate on a connecting rod.
- Total length 3" (7.62 cm).

THERMOMETER CLAMP

- Support thermometers, glass tubes or similar apparatus up to .5" diameter.
- Stainless steel clamping jaws have .5" (1.3 cm) adjustable extension and rotate 360°.
- * 3.75" (9.5 cm) from thermometer to center of support; total length 5.5."

★ — 24 Month Warranty

ORDERING INFORMATION

Model #	Rod Capacity Inches (cm)	US List Price
7054	up to 0.5 (1.3)	\$73.00
7064	up to 0.5 (1.3)	\$25.00
7077	up to 0.5 (1.3)	\$18.00

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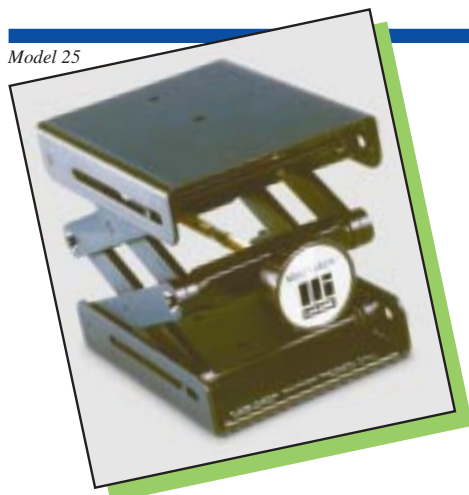
*see inside front cover for details

Laboratory Apparatus

LABORATORY JACKS AND SAF-T-SHIELDS

Lab-Line

Model 25



WHEN LAB EQUIPMENT NEEDS A LIFT!

- — Stable in all positions
- — Available in three sizes
- — Sturdy, corrosion-resistant anodized aluminum construction
- ★ — 24 Month Warranty

ORDERING INFORMATION

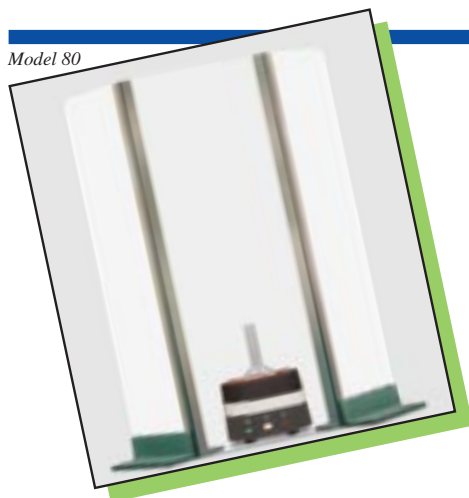
Model #	Size of Plate Inches (cm)		Adjustable From-To Inches (cm)	Max. Load At Middle Lb. (kg)	Shipping Weight Lb. (kg)	US List Price
	W	L				
24	4.7 (12)	5.5 (14)	2.4 (6) to 9.6 (24.3)	110 (50)	1.86 (0.85)	\$147.00
25	4.8 (12.2)	5.9 (15)	3.1 (8) to 10.8 (27.8)	176 (80)	2.60 (1.18)	\$200.00
26*	7.9 (20.0)	7.9 (20)	3.1 (8) to 10.9 (27.8)	176 (80)	4 (1.82)	\$275.00

*Includes two (7.9" x 7.9") Platforms

MULTI-JACKS®

- Provides easy raising and lowering of many different types of instruments or apparatus, such as heaters, hot plates, water baths or glassware.
- Accurate, slippage-free vertical adjustment.
- Stable in all positions.
- Stepless screw-type control smoothly raises or lowers loading platform.
- Supports various types and sizes of glassware, apparatus and instrumentation at specific heights as required to accommodate experimental set-ups.

Model 80



ACCIDENT PREVENTION!

- — Impact resistant shield protects lab workers
- — Weighted base prevents tip over
- — For potentially dangerous chemical reactions

ORDERING INFORMATION

Model #	W	Dimensions Fully Extended Inches (cm)		Shipping Weight Lb. (kg)	US List Price
		H			
80	32(81.3)	36(91.4)		37(16.8)	\$615.00

SAF-T-SHIELD

- 20" (.5 cm) thick Lexan® shield provides clear visibility and protection.
- Protects lab workers or students from the initial force of an explosion, sheet of flame, flying glass or chemical spill.
- Shield is 36" (91.4 cm) high, adjusts from 14" to 32" (35.6 to 81.2 cm) wide.
- Can fully enclose most lab set-ups such as boiling flasks, distillation or reflux apparatus—use anywhere there's a risk of a reaction getting out of hand.

Lexan® is a registered trademark of GE Plastics

Laboratory Apparatus

KWIK-SET® LAB-CHRON® TIMERS

Lab-Line

Model 1405



EASY-TO-USE TIMER!

- — Push-button reset for ease of use
- — Angled display for ease of viewing
- — Precision motor provides accurate timing
- ★ — 24 Month Warranty

KWIK-SET® LAB-CHRON® TIMERS

- Large illuminated start-stop switch facilitates sequential timing.
- Five-digit sealed counter with large, easy-to-read numbers.
- High torque synchronous motor for instant starts.
- Timing is accurate— independent of voltage fluctuations or electrical line load.
- Electric brake for instantaneous stops without overshoot.
- Compact, lightweight and portable.
- Non-skid rubber feet.
- Heavy duty line cord.

APPLICATIONS

- Ideal for timing growth processes, rates of chemical reactions, flow of liquids and gases and histological preparations.
- Can be used in viscosity testing and a wide range of other industrial applications.

PRODUCT SPECIFICATIONS

Type	Time Range (Increments)	W	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
			H	D	
1405	0.1 to 9999.9 sec. (0.1 sec.)	7.37 (18.7)	4.37 (11.1)	4 (10.2)	5 (2.3)

ORDERING INFORMATION

Model #	Volts	Electrical		US List Price
		Hz		
1405	120	60		\$276.00

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Laboratory Apparatus

SAMPLERS

Lab-Line

Model 4196



ACCURATE SAMPLING!

- — Three sizes
- — Autoclavable
- — For sampling trace metals
- ★ — 24 Month Warranty

POLYPRO WATER SAMPLER

- Three sizes—filling capacity of 60 ml, 1400 ml or 2000 ml.
- Designed for water sampling and B.O.D. testing applications.
- Polypropylene construction allows accurate sampling for trace metals.
- Polypropylene inlet and outlet opening plugs connected with adjustable nylon cord.
- All metal parts are plated or stainless steel.
- Built-in weighted base provides stability when unit is submerged.
- Bayonet fitting and foam ring hold top on securely.
- Reliable gravity-activated “spring catch” opening system.
- Model 4196 can fit into a 2” (5 cm) pipe.

ORDERING INFORMATION

Model #	Capacity (ml)	Overall Size Inches (cm)		Construction	Shipping Weight Lb. (kg)	US List Price
		H	D			
4196	600	17 (17.8)	1.87 (4.8)	Polypropylene	1.5 (0.7)	\$78.00
4197	1400	14 (35.6)	4.5 (11.9)	Polypropylene	9.5 (4.3)	\$426.00
4198	2000	18 (45.7)	4.5 (11.9)	Polypropylene	11.5 (5.2)	\$468.00

Model 4199



IDEALLY DESIGNED!

- — Virtually indestructible
- — Air-tight, water-tight closure
- — Accommodates different sample bottles
- ★ — 24 Month Warranty

SEWAGE SAMPLER

- Nickel-plated bronze and brass construction is resistant to corrosive agents.
- Cover and body are precisely machined to provide air-tight, water-tight closure.
- Ratio of volume between the sampler and bottle complies with three-fold displacement requirement.
- Cover is connected to the body by a 10” (25 cm) brass chain.
- Sample bottle (up to 300 ml) is automatically positioned by built-in platform and filling tube.
- Design accommodates ordinary variation between different sample bottles.
- Designed for manual sampling for B.O.D., sludge, turbidity and dissolved oxygen determinations in accordance with A.P.H.A. Method Requirements and a variety of EPA applications.

ORDERING INFORMATION

Model #	Capacity (ml)	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)	US List Price
		H	D		
4199	up to 300	17 (43.2)	4 (10.2)	15 (6.8)	\$952.00