

EDSYN Customer Service

Dedicated to Suit Your Needs

Our customers are the reason why we are in business. That is why EDSYN is dedicated to providing precise performance technology with old-fashioned customer service. Our customer approach is designed to suit the *customer's* needs first. To do this we offer the following:



Friendly service and a helpful attitude underscores the personalized attention EDSYN customers have come to expect.

Leading edge technical knowledge from the people who engineer and manufacture the technology. The professionals at our Van Nuys, California factory have unsurpassed experience in the development, production and service of the products enclosed in this catalog.

Dedication to the customer by providing service "after the sale" by an experienced network of sales representatives, worldwide distributors, customer service personnel, engineers, technicians and factory support.

Factory warranty on our wide array of hand tools, stations, systems and accessories. We stand behind our word. Our success is derived from the customers' successful use of our tools.



EDSYN mutually compliments the need to succeed with in-flight product demonstrations available through the EDSYN Flight Department. Enjoy red carpet service at altitude, at your place of business or at our Van Nuys, California factory and join EDSYN's elite and growing customer base.

For a demonstration of EDSYN Quality products, please contact:

- Your Local EDSYN Distributor
- Your Local EDSYN Sales Representative

For EDSYN Factory support:

Customer Service
FAX: 818.997.0460

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ACCUMULATOR - A metal insert used inside soldering tips to increase heat storage capacity.

ATMOSCOPE - EDSYN's industrial heavy duty vacuum pump. Also applies to single or multi point hot air soldering tools.

BGA - Ball Grid Array.

CLOSED LOOP TEMPERATURE CONTROL - Temperature regulation by means of sensor feedback. A signal that is sent to the electronic circuitry section where it is compared and power is automatically adjusted to maintain a preset temperature.

CONTACT OR CONDUCTIVE SOLDERING - Method of soldering where heat is directly transferred by touching the component leads with the soldering tip.

CORROSION - An oxidized film which forms on copper, especially at high temperatures. Unless removed by a flux compound, this can cause dewetting and poor solder connection.

DEWETTING - A condition where molten solder will not adhere nor interact with the metal surface because of contamination.

DESOLDER - To remove solder from a surface or connection by vacuum or wicking.

ELECTRONIC TEMPERATURE CONTROL - Ability of a soldering tool to adjust and maintain tip temperature by using an electronic circuit. (See Closed Loop Temperature Control)

DIP - Dual-In-Line Package integrated circuit. This type of device has its leads arranged in two parallel rows.

HUMMERWORKS - EDSYN's Research & Development department.

EROSION - The gradual dissolving of certain metals, such as copper, by molten solder.

ESD-SAFE - Electrostatic Safe Discharge. Materials that distribute electrostatic charge along the part surface and quickly dissipates to the air or a ground. Most EDSYN products are made from ESD-safe materials.

FPT - Fine Pitch Technology.

FRONT LOADING - Method of changing soldering tip without having to remove a retaining collar or sleeve.

FLUX - A compound which exhibits a mild cleansing action on copper and other metals to remove oxidized film corrosion which can cause poor solder wetting.

HEAT TRANSFER - A relative term describing the ability of a soldering tip to transfer heat energy from the heating element to the solder connection.

HOT AIR - Method of using hot air to promote reflow of solder used in connection with SMD rework and assembly.

IC - Integrated Circuit.

HOT AIR OR CONVECTIVE SOLDERING - Method of soldering where air or nitrogen is heated up then blown towards the component leads.

HP - High Performance. Soldering tip configuration that allows direct tip to heater contact and reduces heat loss from heater element to soldering tip.

IDLE-REST - Compact multi-purpose energy saving holders for EDSYN soldering tools. Also functions as a station with cleaning sponge, solder and wick supply.

IN. HG - Inches Mercury. Unit of measurement for vacuum or air pressure.

IRON PLATING - A protective plating for soldering tips to reduce solder erosion and promote long tip life. Iron plating has good solder wettability.

ISO9000 COMPLIANCE - Guidelines set by the International Organization of Standards to achieve a certain level of quality before the European member country may buy or sell goods and services to another member country.

KLATCH - EDSYN's special purpose holding devices such as pliers, tweezers, IC removers and vise grips.

LCC - Leadless Chip Carrier. Usually a square or rectangular SMD.

LEAD - The wire termination which exits a component or connector. Also referred to as pin.

LEAD PATTERN - The arrangement of the component wire terminations usually in parallel rows. Some multi-pin IC's have their leads arranged in circular pattern.

LONER - EDSYN's temperature controlled soldering instruments.

LOW STATIC POTENTIAL - A term which describes various desoldering hand tools which exhibit negligible static charge build-up on their surface. ESD-safe desoldering tools are recommended when working with sensitive SMD's.

MULTI-TASKING - The ability to simultaneously perform different soldering applications from a single workstation.

PLCC - Plastic Leadless Chip Carrier.

PSI - Pounds Per Square Inch. Unit of measurement for air pressure.

PREHEATER - Device used to bring up the initial temperature of the component leads before desoldering occurs.

POD - A unique heat retaining holder which holds the soldering tool during interim use. It provides a protective environment for the heating element and tip, which promotes longer tip life.

QFP - Quad Flatpack.

QUICK CHANGE - Action taken to remove and replace tips quickly.

REFLOW - Heating of solder, either in paste or solid form, to make a solder connection.

SMD - Surface Mounted Device.

SMT - Surface Mounted Technology.

SOIC - Small Outline Integrated Circuit.

SOLDAPULLT AUTOVAC - EDSYN's continuous vacuum desoldering tool for repetitive production line solder removal.

SOLDAPULLT - EDSYN's desoldering hand tool.

SOLDAPULLT III - EDSYN's medium capacity desoldering tool for general purpose repair work and R & D.

SOLDAPULLT SUCCESSOR - EDSYN's rugged medium capacity desoldering tool for assembly line and professional desoldering needs.

SOLDAPULLT UNIVERSAL - EDSYN's light to medium duty desoldering tool for routine assembly line rework and for the traveling service technician.

SOLDAVAC - EDSYN's medium duty desoldering tool for industrial applications, hobby and kit building specialties.

STD - Abbreviation for Standard.

TEMPERATURE CONTROLLED - The unique design feature of EDSYN's LONER soldering instruments which compares and self-regulates tip temperature to a preset standard.

TEMPERATURE RANGE - Temperature attainment between a low and high dial setting.

THERMAL REGULATION - The difference between the high and low temperature cycle of a soldering tip with respect to its desired temperature at idle (no load). Unregulated soldering tools have relatively poor thermal regulation at the tip. The EDSYN LONER temperature controlled soldering instruments have excellent thermal regulation which exceed the requirements of MIL-S-45743E; (less than 10°F high cycle above the control temperature when in idling or stand-by mode).

VACUUM PULSE - Amount of air pulled into a chamber at a certain velocity.

WETTING ACTION - The ability of molten solder to combine readily with the metals in the solder connection. Clean metal surfaces which have been fluxed properly promote excellent solder wetting. Dirt, grease and oxidation inhibit the natural solvent action of molten solder. This is characterized by bare spots or balling up of solder on the connection.

WIGAPRY - EDSYN's soldering and desoldering tool aids.

ZERO CROSSING CIRCUITRY - Circuit designed to switch on the instant the AC supply voltage passes through zero, minimizing radio frequency interference generated at switch closure.

ZD - Zero Defect.

UNIT CONVERSION FORMULAS

°C =	5/9 (°F-32)	cm ³ =	in ³ ÷ 0.061
°F =	9/5 (°C) + 32	bar =	psi ÷ 14.50377
mm =	inch x 25.4	pascal =	psi x 6894.757
kg =	pound ÷ 2.2046	watt =	btu/hr x 0.293
gm =	ounce x 28.35		

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 Artist: Kathy Christian
 Photography: Michael Chiabauda



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EDSYN Hummerworks

Research & Development Dedicated to Suit Your Needs



Insightful engineering and innovative design. The ability to manufacture quality products, time and time again. Dedication to refine and improve the end result. Commitment to precise performance.



These are the reasons why EDSYN tools launched an industry revolution in soldering and desoldering technology nearly 40 years ago. It is the reason why EDSYN continues to research and develop technology dedicated to suit the needs of the electronics industry.



Our approach to engineering excellence is evident in the wide array of hand tools, stations, systems and accessories used in the assembly, rework and repair of all types of electronic assemblies, particularly those incorporating the use of Surface Mount Technology (SMT) and mixed technology applications.



At EDSYN, research & development is our passion and the driving force behind the EDSYN name: **Engineering Dedicated to Suit Your Needs.**

What's your need? Call Hummerworks.

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