FEEL THE DIFFERENCE

THE PROVEN CHOICE. EVERY TIME.

HIGH-PRECISION TOOLS FOR ELECTRONICS DEVICE MANUFACTURING

www.weller-tools.com

Weller®
Erem®

FEEL THE DIFFERENCE

THE PROVEN CHOICE. EVERY TIME.

Manufactured with uncompromising Swiss quality, and **created especially for electronics applications**, Weller Erem® tools are built to last. The signature high-performance cutters set the industry standard by providing over 1 million consistent precise and accurate movements.

With state-of-the-art advanced features like Magic Spring™, High-Precision Screw Joint, and Maximum Opening Stop Technology, Weller Erem Precision Tools provide the longest durability, highest precision and best quality on the planet.

Swiss Made

Weller Erem products are made and manufactured with uncompromising Swiss quality, created to be strong, durable, sharp and precise

Just like a Swiss watch

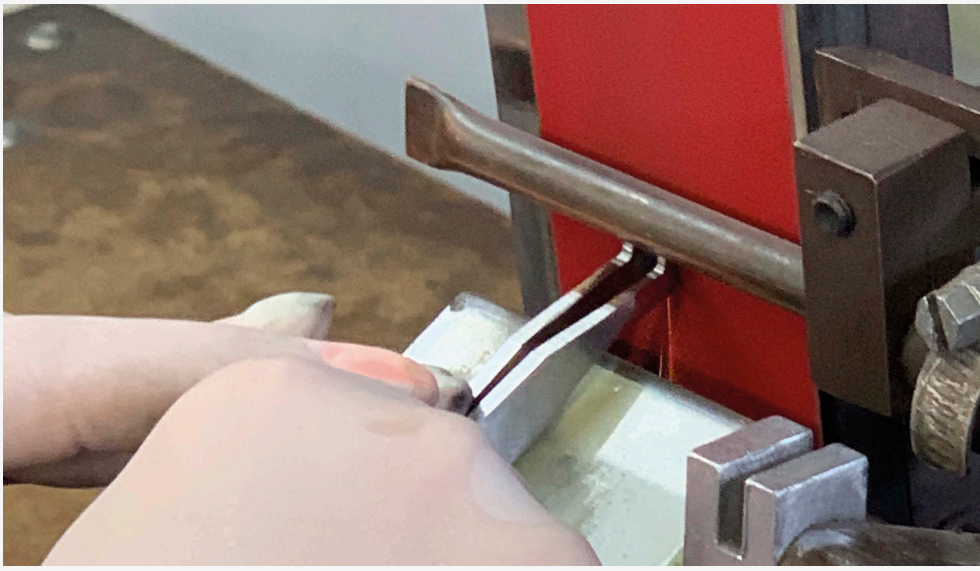
Highest-quality tools and craftsmanship

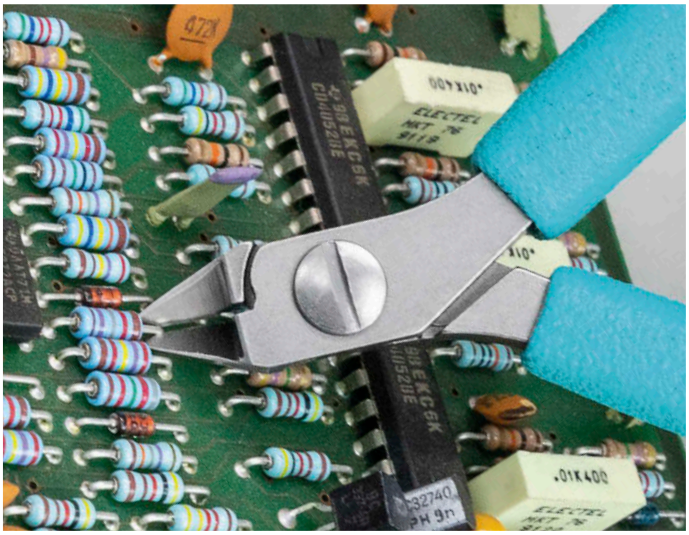
Weller Erem is a leader in the development and production of high-precision, top-quality precision tools (side and tip cutters, pliers and tweezers). Founded in Geneva, Switzerland in 1963, Weller Erem precision tools are the result of ongoing product development and innovation to meet customer demands and the requirements of modern manufacturing techniques.

Custom-made

Have a problem? We have the solution with our ability to quickly manufacture the custom tool you need.

With an estimated 2-week turnaround time, Weller Erem will customize any of our precision tools to meet your applications needs.





Cutters for electronics applications

A simple method to remove SMD ICs is to cut each of the individual leads to remove the device and then reflow the joint with a soldering iron and remove the component lead from the board.

The solder left on the board can then be removed with a desoldering tool or desolder braid and a new component fitted. The 670EP and 670EPF have fine pointed tapered and relieved heads that are able to fit between individual leads and cut them without causing damage to the printed circuit.

THE PERFECT CUT

Strong, sharp and precise - every time

Cutter Electronics Applications: Remove Fine Pitch SMD ICs | Light engineering and Dental Applications

Precision

Experience precise cuts from the high-precision screw joint that enables a smooth action with no jaw overlap

Comfort, Security and Grip

Ergonomically-shaped handles provide superior comfort and fatigue-free handling with our Maximum Opening Stop Technology

Hardening Grade

Cutting blades are hardened to Rockwell 63-65 HRc by an induction heating process for exceptionally long service life

1 Million Movements

Magic Spring™ design enables maximum durability with constant spring force movements

ESD Safe

Made from ESD-safe material to prevent damage to sensitive components

Swiss Made

Cut shape

Three blade options, including Weller Erem's exclusive Super Full Flush cut.

Semi-flush

- Leaves a pyramidal tip at the end of the wire
- For standard jobs where the final shape does not play a significant role
- For both soft copper wires and very hard wires, such as stainless steel

Flush

- Leaves a much smaller tip at the end of the wire when compared to a Semi-Flush cut – without reducing the cutting ability
- The cutting edges are finer than on semi-flush cutters
- Effort exerted when cutting is less and the load on the component is reduced
- Flush wire ends reduce the effort needed to fit components on printed-circuit boards

Super Full Flush

- Provides absolutely flush wire ends, only offered from Weller Erem
- No rework is needed
- Cuts are absolutely precision-ground and sharpened
- Effort exerted when cutting is minimal, as is the load on the component caused by the cut
- Soldering tags in soldering-bath procedures are prevented

VS

Weller Erem Competitor

THE PERFECT COMBINATION

Precision, design, symmetry and balance

Tweezer Electronics Applications: Microelectronics, Jewelrymaking and Watchmaking Applications

Wide Range

Weller has a wide range of tweezers made from various material and tips, for the right application

Comfort

Ergonomically-shapped handles provide superior comfort and fatigue-free handling

Precision

Superior symmetrically pointed tips

ESD Safe

Made from ESD-safe material to prevent damage to sensitive components

BUILT TO LAST

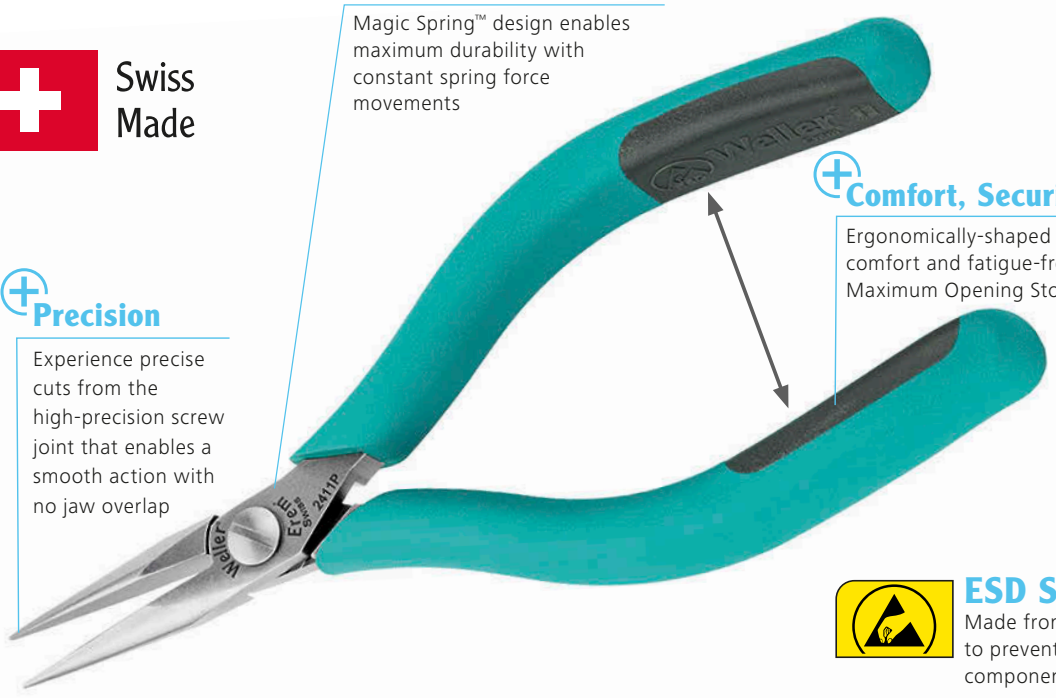
Longest lasting durability on the planet

Pliers Electronics Applications: For Miniature and standard electronics | Forming, Bending, Laying and Feeding in Wires

Swiss Made

1 Million Movements

Magic Spring™ design enables maximum durability with constant spring force movements



Comfort, Security and Grip

Ergonomically-shaped handles provide superior comfort and fatigue-free handling with our Maximum Opening Stop Technology

Precision

Experience precise cuts from the high-precision screw joint that enables a smooth action with no jaw overlap

ESD Safe

Made from ESD-safe material to prevent damage to sensitive components

CUTTERS

Model	Cut	Description	Key Applications	Dimensions A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	Micro-Electronics	SMD	Carbide	Microscope	Head Size
TOP SELLER **776E** 	 **Full Flush**	• Tip cutter – pointed relieved head • This is the narrowest head shape • The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.	General - for all cutting appliations with easy access	0.354 9	0.354 9	0.236 6	0.630 16	✓	✓		✓	SMALL
612N 	 **Semi-Flush**	• Side cutter – oval head • This is the most widely used head shape • Fits for all cutting applications where easy access is given	General - for all cutting appliations with easy access	0.394 10	0.354 9	0.236 6	0.669 17	✓	✓		✓	SMALL
512N 	 **Semi-Flush**	• Side cutter - oval head • This is the most widely used head shape • Fits for all cutting applications where easy access is given • It is robust and offers the highest cutting capacity	General - for all cutting appliations with easy access	0.472 12	0.433 11	0.236 6	0.748 19	✓	✓		✓	MED
2412E 	 **Semi-Flush**	• Side cutter – oval head • This is the most widely used head shape • Fits for all cutting applications where easy access is given • It is robust and offers the highest cutting capacity • The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety	General - for all cutting appliations with easy access	0.472 12	0.433 11	0.236 6	0.748 19	✓	✓		✓	MED
2482E 	 **Flush**	• Side Cutters and Tip Cutters • Tip cutter - angled narrow head • The angled head allows precise cuts at different working angles • Suitable for working on printed-circuit boards, component connections, can be used in both 90° and 180° applications • Ergonomic handle and special materials ensure a soft feel, operating comfort and safety	General - for all cutting appliation with limited access, SMD	0.236 6	0.433 11	0.236 6	1.024 26	✓	✓		✓	MED
2403E 	 **Flush**	• Tip cutter - angled wide robust head Oval shape. 30° • Similar to 503E, but with ergonomic handles • The angled head provides for precise cuts at different working angles • The ergonomic handles and special materials ensure a soft feel, operating comfort and safety	Electronic, Microelectronic, Wires, PCB boards	0.354 9	0.433 11	0.236 6	0.787 20	✓	✓		✓	MED
599T 	 **Semi-Flush**	• Side cutter - oval head - hard metal blades • Fits for all cutting applications where easy access is given • This is the most widely used head shape • It is robust and size for size offers the highest cutting capacity	Carbide, Wire, Boards, Fine & Standard electronic	0.748 19	0.433 11	0.236 6	0.748 19	✓	✓	✓		MED
503ET 	 **Semi-Flush**	• Tip cutter - angled wide head • Tungsten-carbide cutters • The angled head provides for precise cuts at different working angles	Hard and tough wires e.g. piano wire, nickle and diode leads	4.331 9.6	0.433 11	0.236 6	0.795 20.2	✓	✓	✓		MED
1500BSF 		• Pneumatic side cutter and tip cutter. Requires 4 - 6 bar oil-free clean compressed air • Pneumatic cutter • Handy, light and precise • Extremely versatile thanks to a selection of different cutting heads • Easily interchangeable cutting heads • Suitable for cutting conventional components, soft metals or small plastic parts • Pneumatic-cutter housing	Hard and tough wires e.g. piano wire, nickle and diode leads					✓	✓			

CUTTERS

Model	Cut	Description	Key Applications	Dimensions A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	Micro-Electronics	SMD	Carbide	Microscope	Head Size
T622N 	Full Flush	• Side cutter – oval head • Most widely used head shape • Fits for all cutting applications where easy access is given • It is robust and size for size offers the highest cutting capacity	Micro & Fine electronic	0.394 10	0.354 9	0.236 6	0.669 17	✓	✓		✓	MICRO
530E15A 	Full Flush	• Distance cutter, variable cutting length from 1.2 mm to 6 mm/ 047 to .236 Inch • Special tool steel, ESD-safe, Variable cutting length (= V) • Protective stop screw	Micro electronics, PCB, SMD, for cutting wires to the right length and for fixing components	4.921 125	0.433 11	0.236 6	1.142 29	✓	✓		✓	MED
E147A 	Semi-Flush	• Side cutter with compound action • For cutting hard wires with minimal effort	Guide Wires, Stents, Catheters, Single/ Multiple Fillers, Lateral/ Internal Cuts, Electronic appllications	0.394 10	0.630 16	0.295 7.5	0.630 16	✓	✓	✓		MAXI
886E 	Full Flush	• Side cutter - tapered head • Jaws have straight edges and taper to a point. Head shape allows access to difficult-to-reach areas in comparison to the same size oval head cutter	Hard and tough components	 	0.531 13.5	0.284 7.2	0.827 21	✓	✓			MAXI
2422E 	Full Flush	• Side cutter - oval head • Offers the highest cutting capacity • Most widely used head shape • Fits all cutting applications where easy access is given • The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety	Micro electronics	0.748 12	0.433 11	0.236 6	0.748 19			✓		MED
599FO 	Semi-Flush	• Fibre optic tools • High precision for optical fibres - special tool steel • Side cutter, suitable for cutting Kevlar® silks • Avoid any other application than cutting Kevlar silks to avoid damaging the tool	Stainless Steel Coil Wires, Kevlar®, Vectran™ Braided Wires, Fiber Optics	0.472 12	0.433 11	0.24 6	0.748 19	✓			✓	MED
884EPCM 		• Side cutter flush cut, for PCB separation only • Side cutter, suitable for cutting printed-circuit boards	Micro & Standard electronics	 	 	 	 	✓				MAXI
505C 		• IC and SMD tools for inserting, extracting, straightening and cutting IC and SMD components • Inserting and extracting 14-16 pins • Non-reflecting surface • ESD-safe	Micro & Standard electronics, SMD rework	4.724 120	0.433 11	 	 	✓	✓			MEDIUM

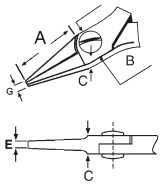
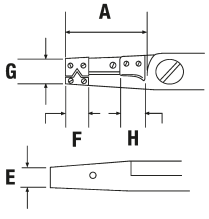
The items listed are the most popular Weller Erem products for the electronic's industry.

Weller® Erem®

CUTTERS

Model	Cut	Description	Key Applications	Dimensions A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	Micro-Electronics	SMD	Carbide	Microscope	Head Size
TOP SELLER **522N** 	 Full Flush	• Side cutter - oval head • This is the most widely used head shape • Fits for all cutting applications where easy access is given • It is robust and offers the highest cutting capacity	General - for all cutting appliation with easy access	0.472 12	0.433 11	0.236 6	0.748 19	✓	✓		✓	MEDIUM
539EREC 	 Full Flush	• Distance cutter with patented receptacle • Prevents residual wire contamination	Micro & Standard electronics, PCB	0.472 12	0.433 11	0.236 6	0.728 18.5	✓	✓			MEDIUM
2622NB 	 Full Flush	• Side cutter – pointed relieved head • This is the narrowest head shape • The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas	Micro & Standard electronics	0.236 6	0.354 9	0.236 6	0.630 16	✓	✓			SMALL

PLIERS

MODEL	DESCRIPTION	Key Applica-tions	Dimensions A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	E (in / mm)	G (in / mm)	Micro-Electronics	SMD	Carbide	Microscope	Head Size
2443P 	• Round nose pliers with very precise, smooth jaws • Pliers for miniature and standard electronics • Optimized ergonomically shaped handles for increased comfort • Non-reflecting surface, ESD-safe • Suitable for bending wires	Fine and Standard electronic, bending wire	5.748 146	0.433 11	0.236 6	1.594 40.5	0.031 0.8	0.063 1.6	✓	✓			MEDIUM
2442P 	• Flat nose pliers • Pliers for miniature and standard electronics • Optimized ergonomically shaped handles for increased comfort • Non-reflecting surface, ESD-safe • Suitable for gripping flat workpieces • With smooth jaws and precision-machined edges	Miniature and standard electronics	1.307 33.2	0.433 11	0.236 6	1.594 40.5	0.134 3.4	0.047 1.2	✓	✓		✓	MEDIUM
531E 	• Flat nose pliers with replaceable nylon jaws • Non-reflecting surface, ESD-safe, high grade tool steel • Nylon jaws prevent nicking and scratching	Forming and handling components while preventing scratching and nicking for miniature and standard electronics	0.91 23	0.43 11	0.24 6		0.2 5	0.12 3	 A = Jaw length B = Head width C = head thickness E = Width of tips G = Total height of both tips				
552S 	**Wire Stripper:** • Suitable for all types of insulation, Teflon®, Tefzel and optical fibres • Unlimited stripping length thanks to side stripping • Suitable for simple and precise stripping of optical fibres • Non-reflecting surface • Robust, high-precision tools for use in electronics and aeronautical engineering • The required diameter is set by means of screws • Screwdriver and key are included • Interchangeable blades • ESD-safe • Unique precision for damage-free stripping of fine wires	All Types of Insulation, Teflon, Tefzel and optical fibers.					0.433 11	0.354 9	 A = Jaw length B = Width of tips C = Depth of interchangeable blade E = Total height of both tips G = Length of cutting blade				
2411PD 	• Needle nose pliers with very precise and rounded jaws • Non-reflecting surface, ESD-safe • Inside serrated jaws for better grip	For miniature and standard electronics application	1.307 33.2	0.433 11	0.236 6	5.291 150	0.039 1	0.047 1.2	✓	✓		✓	MEDIUM

TWEEZERS

Model	Shape	Description	Key Applications	Length (in/ mm)	Weight (oz/g)	Micro-Electronics	SMD	Microscope	Various Electronic	Material	Head Size
3SA 	**Straight**	• Suitable for delicate standard applications and precision work on small components or wires • Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant	General purpose use in microelectronics, medical and laboratories	4.724 120	0.49 14		✓		✓	Stainless Steel	Fine Point
102ACAX 	**Angled**	• SMD tweezers, angled 45°, with pointed tips for vertical application, and reverse clamping action for easy holding	SMD with different designs (chip, MELFs, mini MELFs)	0.010 0.25	0.49 14	✓	✓	✓	✓	Stainless Steel	Fine Point
2ASASL 		• Precision tweezers with flat rounded tips for gripping, small components. Tip width 2 mm/.078 Inch • Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant	Standard gripping applications and assembly jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries	4.843 123	0.564 16	✓	✓	✓	✓	Stainless Steel	
E3CSA 		• Ergonomic precision tweezers with long, straight and pointed tips, e.g. for assembly jobs on printed-circuit boards • Thermally insulated, soft foam handles, ESD-safe	Standard gripping applications and assembly jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries	4.724 120	0.582 17	✓	✓	✓	✓	Stainless Steel	
024C 		• Extraction tweezers for Sub-D connectors.	Suitable for extracting contacts from the rear of a plug connector	4.724 120	0.53 15	✓	✓	✓	✓	Stainless Steel	
258SA 		• Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling • Volume resistance 16 Ω/cm. Heat-resistant up to 250°C (480°F) • Resistant to acids and molten soldering tin. Water-repellent	Microscope, applications with acids and molten soldering tin.	4.724 120	0.53 15			✓	✓	Stainless Steel	
141SAP 		• Wafer tweezers with polyester tips for protecting Si, GaAs or Ti wafers against damage. For 4" – 6" wafers.	All Wafer applications	5.906 150	1.05 30					Stainless Steel	
OOSA 	**Straight**	• Precision tweezers with pointed tips. Very robust. Suitable for standard applications, e.g. for assembly in electronics • Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant	General purpose use in microelectronics, medical and laboratories Suitable for delicate standard applications and precision work on small components or wires	4.724 120	0.71 30		✓		✓	Stainless Steel	Fine Point
15AGW 	**Narrow Oblique Head**	• Cutting tweezers with narrow oblique head • Hardened cutting edges for long service life • Suitable for cutting fine, soft wires and small components	Designed for cutting fine soft wires up to dia. 0.25 mm/.010 in. and small components	4.528 115	0.74 21		✓		✓	Carbon Steel	0.216 narrowed to a pt
51SA 		• Precision tweezers, curved 30°, relieved • Very pointed tips • Relieved shape at front of handle provide excellent visibility of the area to be worked on	Applications in biology, medicine, laboratory technology and microelectronics	4.528 115	0.42 12	✓	✓	✓	✓	Stainless Steel	
7SA 	**Curved**	• Precision tweezers, curved, relieved, with pointed tips • Bent shape facilitates access to confined spaces • Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant	For applications in biology, medicine, laboratory technology and microelectronics	4.724 120	0.53 15		✓		✓	Stainless Steel	Very Fine
249CER 	**Straight**	• Precision tweezers with ceramic tips and serrated finger grips for secure handling. Volume resistance 16 Ω/cm. Heat-resistant up to 900°C (1500°F). Resistant to acids and molten soldering tin. Water-repellent	General purpose use in microelectronics, medical and laboratories	5.118 130	0.84 24	✓	✓	✓	✓	Stainless Steel	Very Fine
B15AGS 	**Cutting**	• Black cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.010 Inch • Hardened cutting edges for long service life	Cutting fine, soft wires and small components	4.528 115	0.741 21	✓	✓	✓	✓	Carbon Steel	
29W30 	**Stripping**	• Stripping tweezers with synthetic fibre handle. For wires of dia. 0.25 – 0.3 mm/.010 – .011 Inch (AWG 30 – 28). • For standard and Teflon® insulation	Stripping fine wires with PVC or Teflon® insulation	4.724 120	0.99 28				✓	Stainless Steel	

The items listed are the most popular Weller Erem products for the electronic's industry.

Weller® Erem®

The Original.

Weller guarantees you the latest and best technology in the soldering market

Industrial Soldering Equipment

Professionalism makes no compromises.

Weller soldering technology that is packed with precision, innovation and quality.

Filtration

Take a deep breath. Providing clean air for your workplace.

Weller filtration systems for continuous use in industrial working environments filters fumes, adhesives and particles and recirculates back clean air while keeping noise pollution to a minimum.

Precision Tools

Feel the difference. The proven choice. Every time.

Manufactured with uncompromising Swiss quality, Precision Tools are designed to be strong, durable, sharp and have the highest precision available. Weller Erem tools are built to last.

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