

PRE-PRODUCTION TECHNICAL SPECIFICATIONS 2024 V4

# OmniDiver Xos 42



OmniDiver Xos  
Automatic

# SEL

Tucson, Arizona, U.S.A.

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INTRO



# Xos 42

## **MORE THAN A DOWNSIZED OMNIDIVER MK2.**

In fact, it's the most advanced diver we've ever produced. The OmniDiver Xos 42 is a true third-generation OmniDiver with new innovations for shock resistance, water resistance, and more integrated into a smaller 42mm grade 5 titanium casework. Legacy features like our incredibly strong Mk2 crown, best in the world ball-bearing bezel, and piston indexing, compliment the all new contoured dial and more lume over our original 42mm diver. Simply shrinking the OmniDiver MK2 46 would have been easy, but we're not in the business of easy...

## **WHAT WE DO IS ULTRA PERFORMANCE**

Each OmniDiver represents the pinnacle of our capabilities applied to the pursuit of ultimate performance. For OmniDiver MK1 46 and MK2 46 it was all about extreme deep diving and massive crush resistance in a reasonably sized casework. But, for Xos 42, we focused on a trifecta feature set for extreme environmental protection in the smaller 42mm casework.

## **IMPACT RESISTANCE. WATER RESISTANCE. MAGNETIC RESISTANCE.**



# OUR ETHOS



OmniDiver MK2 46 Automatic

**It can be tempting to choose the easy path...**

The SeL ethos has always been to choose the best path, regardless of the difficulty. The best path best serves our objective of producing higher performing tool watches just as it serves our customer who we hold at the center of everything we do. The SeL path has also meant being disruptive by challenging convention.



OmniDiver MK2 46 Automatic

**"Infused in our history is a willingness to challenge convention and push boundaries to achieve higher standards of absolute performance."**

**We call our approach "function first".**

This design modus shapes every decision we make by requiring us to focus first on maximizing aspects of performance like strength, functionality, comfort, precision, legibility, weight, water resistance, shock mitigation, and of course accuracy, before we focus on the aesthetic aspects of design.

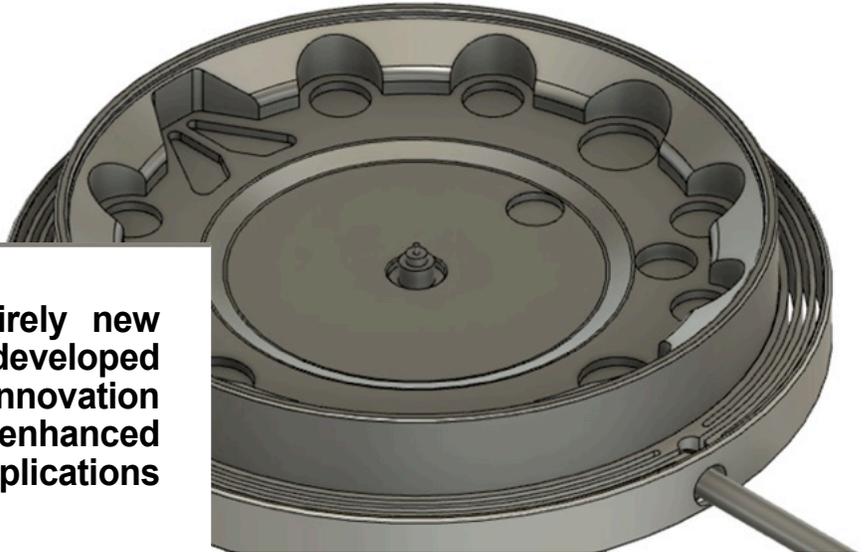




**"We're not in the business  
of easy. What we do, is  
ultra-performance."**

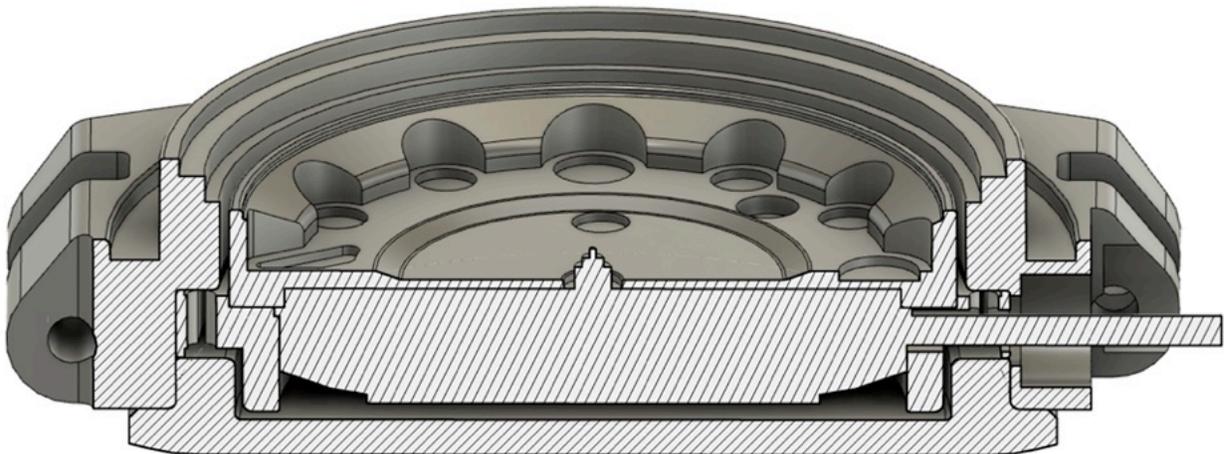
# NEW TECH

**Labyrinth Flux™ is an entirely new shock protection system we developed for OmniDiver Xos 42. The innovation also allows for integration of enhanced magnetic protections in applications where it is desired.**



## IMPACT RESISTANCE

As shown in this simplified cross section, the dialed movement is permitted a range of motion to "float" in three dimensional space within the casework. Notice the gaps that are present between the case and dial and the case back and the lower section of the single piece Labyrinth Flux suspension component? At rest, the movement and dial have no direct contact with the case, case back, or crystal.



A semi-flexible stem interface in the screw-down crown (not shown here) is an important part of the concept. In the event of an impact to the case, the system functions simply by damping that impact force (reducing impulse) by decelerating the mass of the dial/movement more slowly than the case turning some of that force into heat. This works in conjunction with the shock protection of the balance jewels to provide enhanced resistance to impact shock.

# TECH, CONT.

## BEZEL



FREE-FLOATING (NO METAL TO METAL CONTACT WITH CASE) TO PROTECT CASE AND SAPPHIRE CRYSTAL FROM IMPACTS



BALL BEARING WITH TEFLON THRUST BEARING(S)

PISTON (2) CONTROLLED INDEXING - SUBSTANTIALLY STRONGER AND MORE PRECISE THAN INDUSTRY STANDARD THIN STEEL 'CLICK SPRING' TYPE INDEXING.

ZERO BACKLASH/ZERO WOBBLE

## BEZEL INSERT



2X STRONGER ALLOY COMPARED TO PREVIOUS OMNIDIVER MODELS.

SURFACE HARDNESS OF 8,500HV (VICKERS) AND THROUGH HARDNESS OF ROCKWELL C38

## CASE BACK



OPEN SCREWE POCKETS FOR EASIER CLEANING

LARGE RECESSED SCREWS USE COMMON WRENCH SIZES

LARGE AREA FOR CUSTOM ENGRAVING AS AN OPTION

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# DIALS



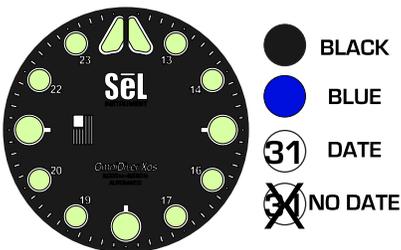
SeL dials are 100% made in-house. Each dial is first machined from a high-strength, ultra-light-weight aerospace alloy (96,000PSI tensile) then hand finished with a textured, non-reflective finish suitable for the high legibility desired in a tool watch.

Xos dials are designed as an integrated part of the Labyrinth Flux enhanced shock isolation system so the dial and rehaut is machined as a single piece. The dial is secured to the Labyrinth Flux with high strength machine screws, not to the movement with dial feet as with more traditional watch construction.

Our standard dial colors (black and blue) are applied with a molecular compound bond rather than a surface coating such as paint to achieve a very durable color that will not flake or crack over time. Additional surface treatments prepare the dial blank after the initial color is bonded to enhance the performance of our proprietary lume. Dial printing, lume application, and heat curing complete our dial making process.



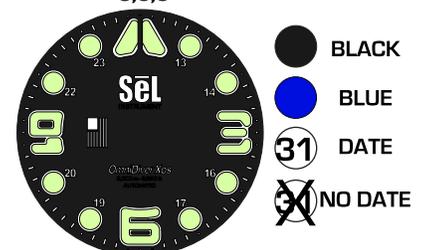
## "LEGACY" (Standard)



## "STEALTH MOD" (Minimalist)

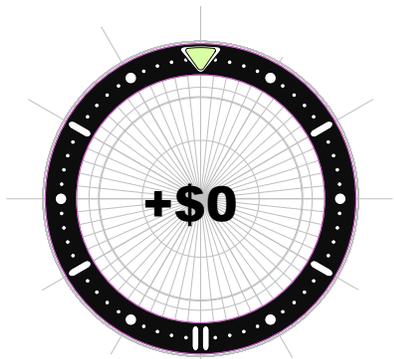


## "3,6,9"

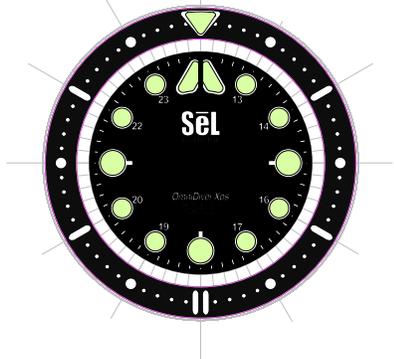




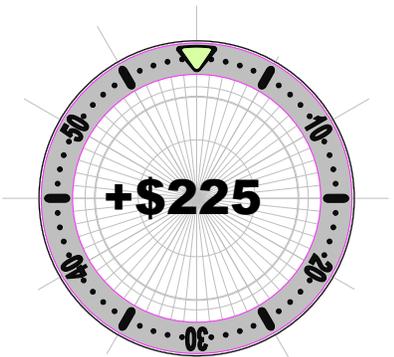
1630 SOUTH RESEARCH LOOP #180/170  
TUCSON, AZ, 85710 UNITED STATES OF AMERICA



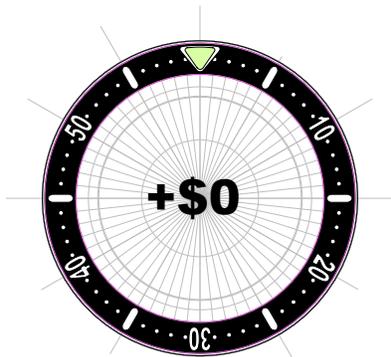
Standard (Index Only)



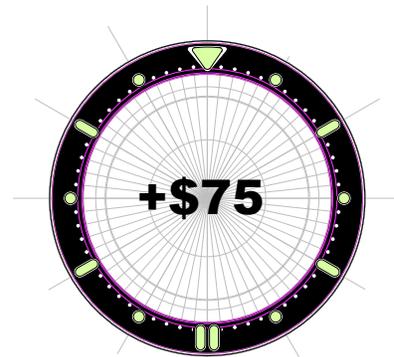
## OmniDiver Xos 42 Bezel & Lume Options



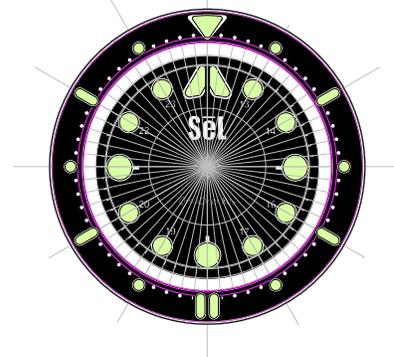
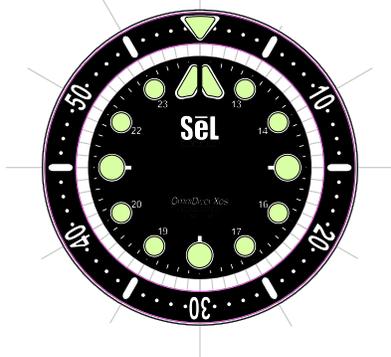
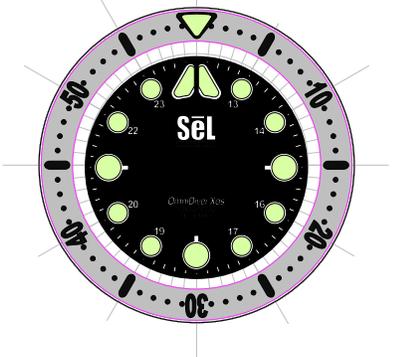
Legacy Brushed  
Titanium (Index Only)



OmniDiver MILSPEC  
Legacy (Index Only)



Full Lume



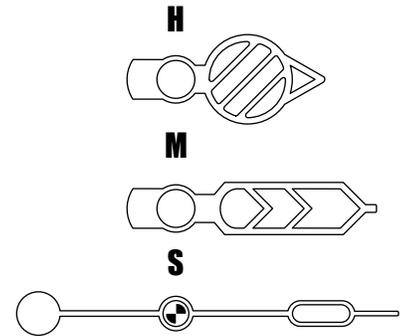
ALL THREE OPTIONS SHOWS WITH STANDARD MIL-SPEC DIAL

[www.selinstrument.com](http://www.selinstrument.com)

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# HANDS

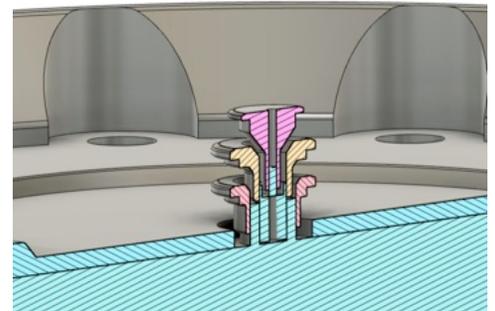


Seconds hands are precisely balanced to eliminate almost all unbalance which contributes to better shock resistance of the movement and better timekeeping accuracy.

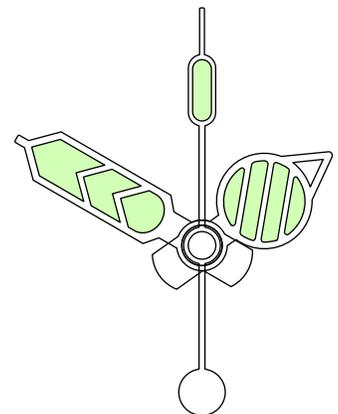
Each of the hand colors offered for OmniDiver Xos 42 are based directly on our legacy colors for OmniDiver Mk2 46. SeL hands are 100% made in house including application of our heat cured enamels. We select the brightest pigments available and blend to achieve these unique final colors. Typically we use only flat enamels which although more course in finish, have much better legibility than gloss enamels which reflect light.

-  **INFERNO (ORANGE)**
-  **FROZEN TUNDRA (WHITE)**
-  **FLY (FLUORESCENT LIME YELLOW)**
-  **UNICORN (HOT PINK)**
-  **STRAIGHT GRAIN (BARE)**

Our hands are secured to the movement with a set of hubs (shown at right) made from high strength alloy. These hubs add strength and stability to the setting while increasing the space between the hands for a beautifully aesthetic deep display to compliment the deep dial of Xos.

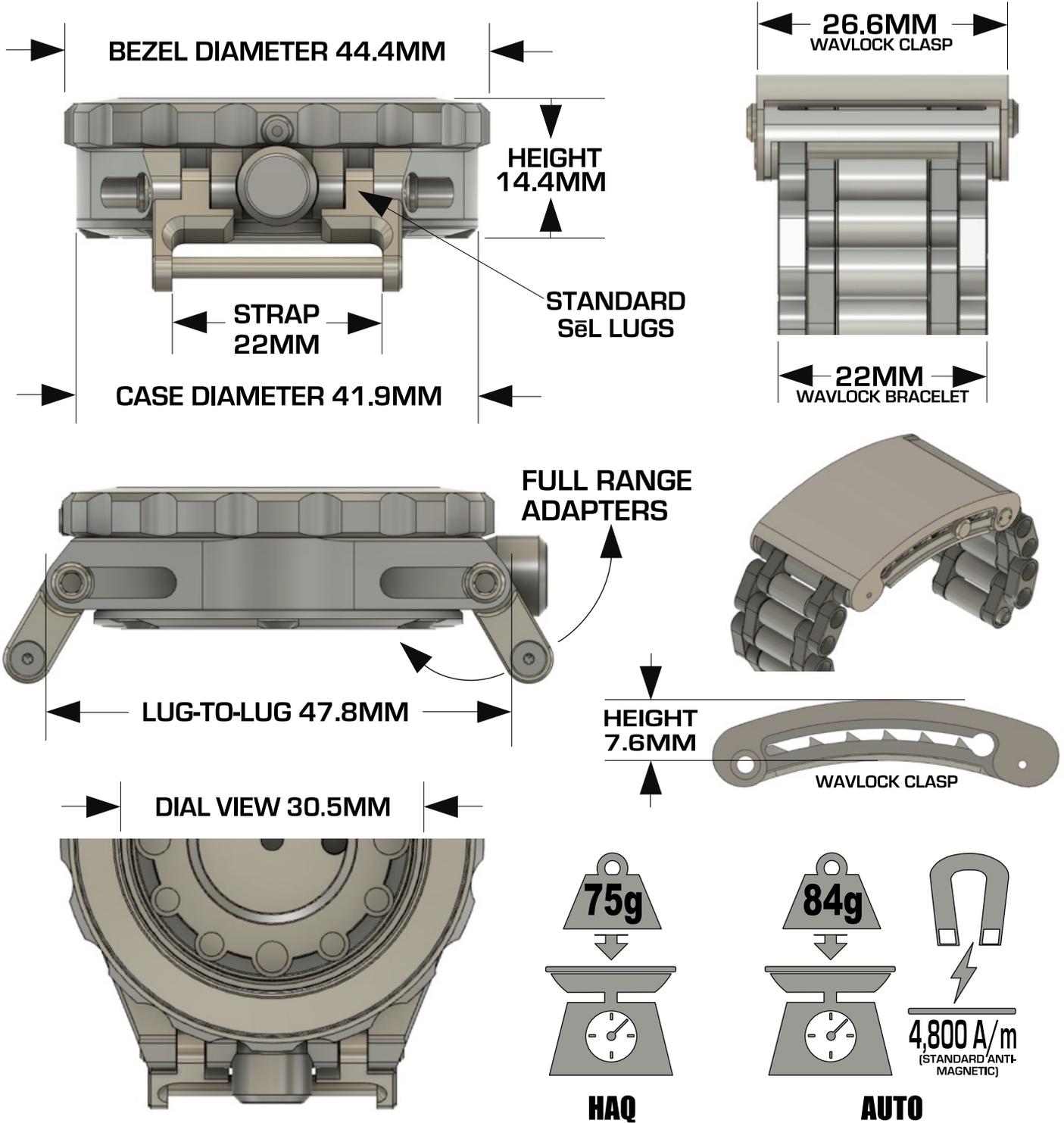


Our lume is made in house from the best raw materials in the world resulting in extremely fast charging, bright, and persistent glow characteristics. More course in appearance than other popular brands of lume, as always we prioritize performance. Widely regarded as the best in the world by those who have experienced it.



# DIMENSIONS

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# SPECIFICATIONS

## MOVEMENTS

**AUTO MVMT:** SWISS TOP GRADE, SW200-1

**HAQ MVMT:** E64.111-1-PD TEMP. COMP. QUARTZ, 8 JEWELS

## FUNCTIONS

**BEZEL:** BALL BEARING (24) + THRUST BEARING

**BEZEL INDEXING:** UNIDIRECTIONAL, DUAL PISTON, 120 CLICKS

**CROWN:** SCREW DOWN, TRIPLE SEALED, 6H POSITION

## MATERIALS

**CASEWORK:** GRADE 5 (Ti-6AL-4V) TITANIUM ALLOY, US PRODUCED

**CRYSTAL:** SAPPHIRE, KYROPOULOS

**BEARINGS:** CERAMIC, TEFLON

**HARDWARE/SCREWS:** 316L STAINLESS STEEL

## ENVIRONMENTAL

**WATER RESISTANCE:** 2,000M

**ENHANCED IMPACT RATING:** TESTING UNDERWAY - TBA

**MAGNETIC RESISTANCE, AUTOMATIC, STANDARD:** 4,800 A/m

**MAGNETIC RESISTANCE, HAQ, STANDARD:** 1,650 A/m

**MAGNETIC RESISTANCE, AUTOMATIC, ENHANCED:** TBA

## WRIST RETENTION

**BRACELET:** WAVLOCK (GRADE 5 TITANIUM) WITH RAPID MICRO SIZING

**STRAP:** 22MM, ON OUR FULL MOTION LUG ADAPTERS

## DIMENSIONS

**WEIGHT, HEAD:** 75g (HAQ) / 84g (AUTO)

**WEIGHT, WITH STRAP:** 110g (HAQ) / 119g (AUTO)

**WEIGHT, WITH STRAP:** 145g (HAQ) / 154g (AUTO)

**HEIGHT OVERALL:** 13.7MM

**CASE DIAMETER:** 41.9MM

**BEZEL DIAMETER:** 44.4MM

**LUG-TO-LUG:** 47.8MM



# PRICING



## OMNIDIVER XOS 42

STARTING AT:

**\$4,479.00\***

**GRADE 5 TITANIUM  
22MM STRAP ADAPTERS**

\*Additional options affect pricing. Pricing WILL increase after pre-production allocations are closed.

**TCXO HIGH ACCURACY QUARTZ OPTION**      **+\$0.00**  
SWISS, 8 JEWELS, STANDARD ANTI-MAGNETIC

**AUTOMATIC OPTION**      **+\$412.00**  
SWISS, TOP GRADE, STANDARD ANTI-MAGNETIC

**WAVLOCK BRACELET**      **+\$1,865.00**  
GRADE 5 TITANIUM, MICRO ADJUST

Additional options include Black DLC coating, custom artwork engraving, case finishing, etc. Please visit our website for more information on pricing for additional options.

# BRIEF HISTORY

**2024** OmniDiver Xos 42 concept becomes reality through design, engineering, prototyping, pilot production and launch. New Website launch. OmniDiver Mk2 46 first production group [extended] sells out. New high-speed CNC machines including 4 axis VMC purchased to increase production capacity by up to 10X. Development projects continue on new engineering and innovations, several new watches, and collaborations.



Andrew McLean  
Founder & CEO

**2020**

Production & sales of OmniDiver MK1 Continue. Additional manufacturing equipment for finishing and cleaning is purchased. Introduction and production of the D42-T Diver. Announcement of our intent develop an evolution of the OmniDiver - the MK2.

**2023** OmniDiver MK2 assembly and shipping. CNC EDM machine added to the production floor. We celebrate a culmination of everything we have learned since manufacturing our first prototype in 2016 by achieving new levels of quality and precision with the Mk2.

**2022** SeL moves into a new larger facility in Tucson, AZ, USA with over five times more space than our previous workshop. Our focus is production of the new OmniDiver MK2 46.

**2021** The 42mm FTX Field watch is designed, manufactured, and shipped. MK2 Development begins in the background.

**2019** Production & sales of OmniDiver MK1 continue. CNC lathe and 4 axis CNC mill is added to the machine shop. Introduction and production of the OPTx

**2018**

The First OmniDiver watches begin shipping.

**2017** SeL Instrument Watch Corp. is incorporated in Arizona, USA becoming a challenger to the tool watch market. Our first instagram post shows the world a new light weight deep diver called the OmniDiver MK1 46 and an entirely new type of adjustable clasp called the WavLock. Purchase of our first CNC machine - a 3 axis mill - manual lathes and mills, and construction of our 20,000 PSI hydrostatic test chamber, along with development of dozens of in-house processes to make dials, hands, etc.

**2013**

**2016** The first complete prototype of the OmniDiver MK1 46 HAQ and WavLock bracelet is machined and assembled in Connecticut, USA.

Motivated by a vision of higher performance, hand sketches begin exploring concepts and innovations. The philosophy that drove the early concepts for SeL began by asking: "for the ultimate dive watch, what if each individual element of the tool diver from the display to the interactive functions like crown and bezel and clasp could be reimagined and reengineered to achieve new levels of precision, adjustability, feel, strength, performance? And, what if we put all of those concepts into a single watch?"