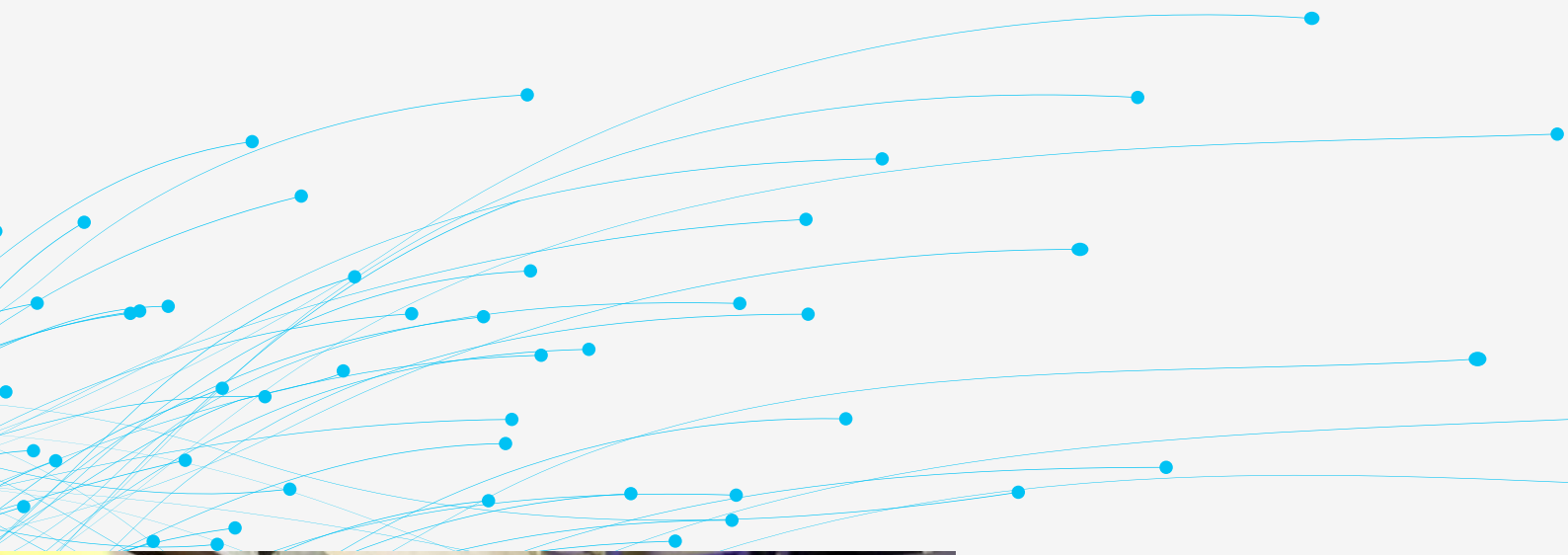


The future of cleaning



Laser Cleaning

Handheld & stationary equipment



Watch the video here

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Inspired
by people.
Designed for
the future.



Netalux explicitly chooses to develop its products user-centric; with ease of use as main objective. This doesn't just mean we focus on a **safe and ergonomic design**, we also strive towards continuous improvement of hard and software.

Besides that, we at Netalux don't like to approach the possibilities as being 'high or low power'. It's not just the power level that's important to be productive, you also need to take into account the pulse characteristics. This means it's important to decide what you want to do with the equipment and choose either a gaussian or top-hat laser.

Laser cleaning is being used in many applications since we started beginning of 2017. As a manufacturer, we want to continue supporting the industry in implementing this technology. The **Netalux Academy** is key in that ambition and we remain active as a contractor with Netalux Experience. This allows us to build the most qualitative and reliable equipment out there.

Allow us to wish you all the best in your path towards a clean, human and environmentally friendly surface treatment technology.



1. Stationary outfit
2. Jango Mobile
3. Needle Mobile

Built By Users

At Netalux, we find ease-of-use and productivity of our equipment to be paramount, that's why we've created a single software platform supporting the entire product line. Once you know one of our machines, you're good to go on all the others. Easy!

Software

By developing our own software, we can assure a fast and smooth support, allowing you to focus on the job.

Even our hardware will feel familiar on all products. The biggest difference is to be found between the mobile and stationary laser heads. Mobile Needles and Jangos have additional controls and features, while their stationary counterparts are built to be easily integrated with the most common robotics.

All machines are equipped with necessary connectors for external LED warning lights, additional emergency stops and I/O controls. Our stationary systems communicate over MODBUS/TCP protocols.

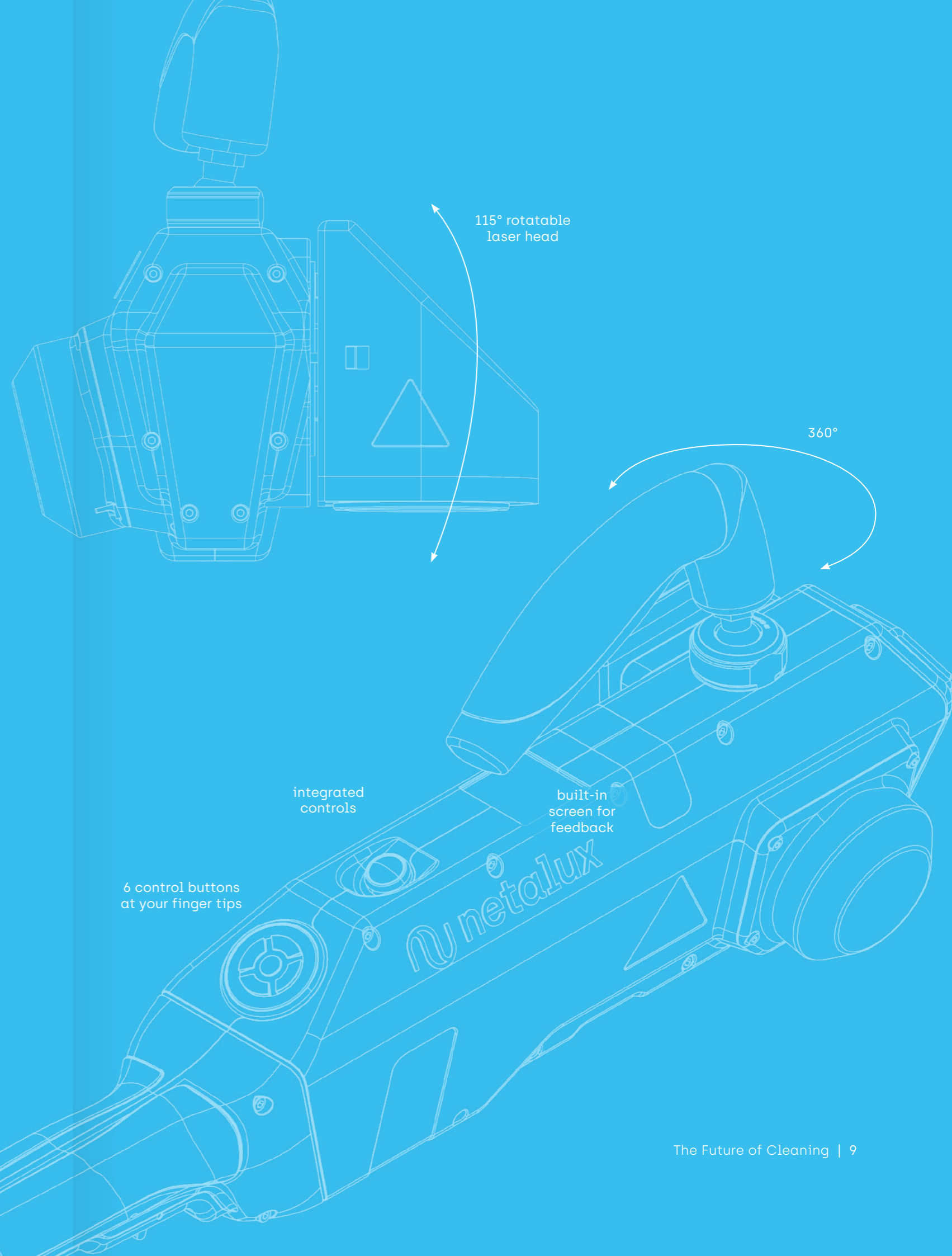
Hardware that supports you

We want you to feel supported by our machines. Reliable, easy to use hardware that looks and feels just right.

All our mobile machines are standard equipped with:

- | a unique, rotatable laser head (115° freedom)
- | integrated LED headlight
- | secondary handle for extra ergonomics
- | integrated controls
- | arm / disarm button for extra safety and comfort
- | unique feature of integrated lenses: 3 in the Jango, 5 in the Needle
- | fully equipped to be lifted
- | equipped with industrial voltage protection

Because we know what it is to work in the field, you can rest assured that we test our equipment thoroughly in the field, using the machines daily at Netalux Experience.



Needle

Industrial cleaning comes in many forms. There is one constant though: most of the time the area to be cleaned is hard to reach or in the middle of other installations. On top of that, there often is a need for extra safety measures to control the atmospheric contamination due to large air movements or secondary waste.

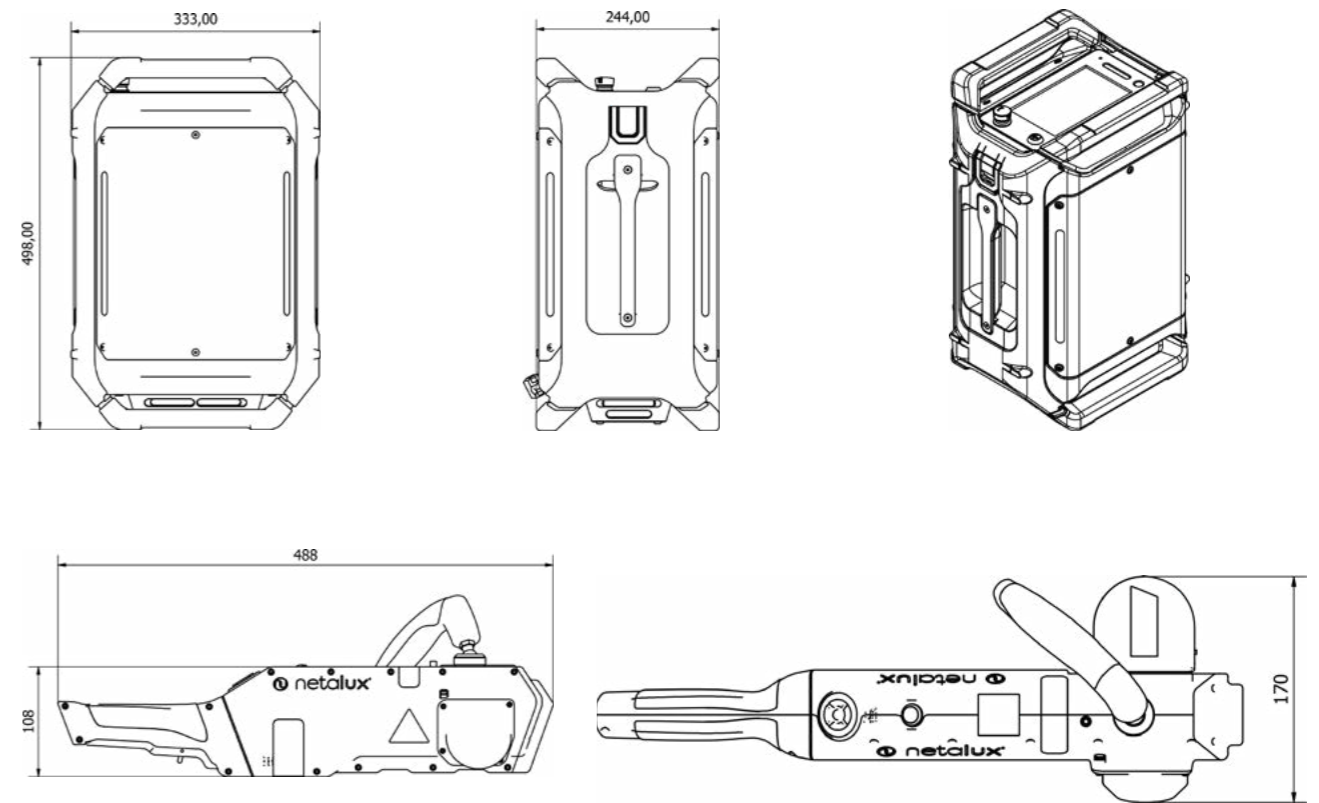
With that operational challenge in mind, Netalux developed its Needle. A small, **lightweight and versatile laser cleaning machine**. It's equipped to be lifted, has additional protection to withstand the most challenging environments and it has just the right size to be taken with you through most man holes.

We didn't choose the name 'Needle' by accident. It refers to the gaussian pulse profile it has, being small and rather sharp.

Because of this sharp profile, it's the perfect tool to clean welds, eliminating the need for passivation.

Besides cleaning welds, this compact machine has many possible applications. From removing coating for spot repair, to cleaning moulds.

Needle is available in 100, 150, 200 and 300 Watt.



Technical specifications

Laser type
Class IV Pulsed Ytterbium fiber laser

Wavelength
1064 nm

Available power levels
50, 100, 150, 200 and 300 Watt

Pulse characteristics
Gaussian, max 1 mJ

Power supply
1P + PE | 110V-240V | 50-60Hz | 450W
Standard EU plug, others upon request

Cooling
Air

Weight
≈ 20 kg [handset ≈ 2,3 kg]

Dimensions [l x w x h]
333 x 244 x 498

Fiber length
4,5 m

Transport
IP68 case on wheels

Maintenance contract possible?
Yes.

Available as stationary?
Yes.

Jango

Jango is Needles big brother with the biggest difference being a top hat profile. It has an impressive 50 metres fiber length, making it **the perfect tool for larger jobs** like tank cleaning or coating removal.

This water cooled laser cleaning machine is available as a mobile machine, but can just as well be integrated. Although it's bigger, we've stayed true to our vision and ensured all necessary features to be easily used in all kinds of places.

This means we've created some extra storage room for peripheral tools like suction or compressed air. No need for extra power lines, you can connect extra tools on the unit itself.

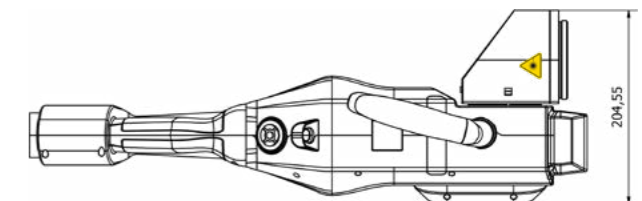
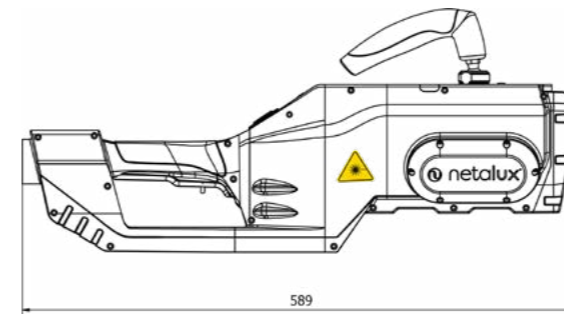
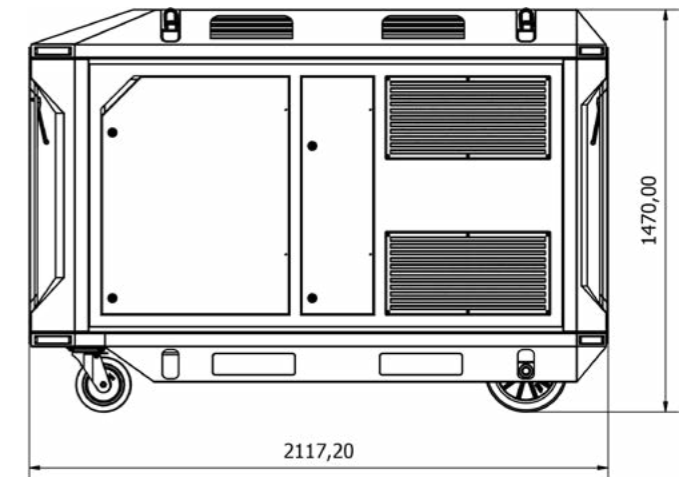
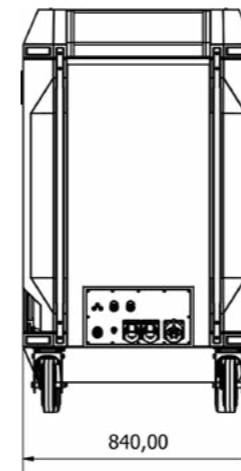
All of our Jangos are equipped with four hoisting points and can be lifted with a forklift.

Once on site, you'll be surprised how smoothly this big boy is rolled to the job site. Its brakes are integrated in the front handles, making them easy and safe to use.

Finally, Jango's handset and software systems are the same as Needle's; making it easy to use and familiar.



Watch the video here



Technical specifications

Laser type
Class IV Pulsed Ytterbium Fiber Laser

Wavelength
1064 nm

Available power levels
500 or 1000 Watt

Pulse characteristics
Top hat, max 100 mJ

Power supply
3P+N+PE | 380V-440V | 50-60Hz | 7,5kW
Industrial plug, others upon request

Cooling (integrated)
Water

Weight
≈ 750 kg [handset ≈ 4 kg]

Dimensions [l x w x h]
2117 x 840 x 1470

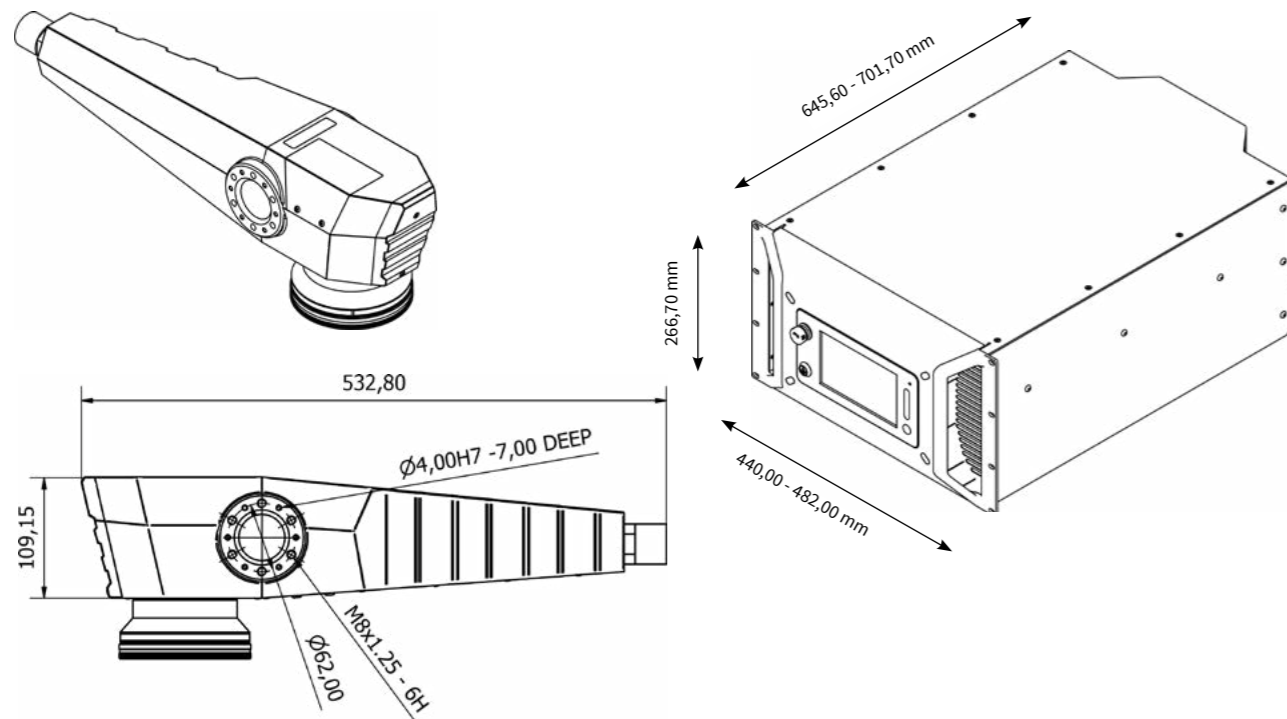
Fiber length
50 m

Maintenance contract possible?
Yes.

Available as stationary?
Yes.



Stationary solutions



Technical specifications

Laser type

Class IV Pulsed Ytterbium Fiber Laser

Wavelength

1064 nm

Available power levels

50, 100, 150, 200, 300, 500 and 1000 Watt

Pulse characteristics

Gaussisch or top hat

Power supply

See Jango or Needle

Cooling

50-300 Watt: air cooled
500 and 1000: water cooled

Weight

≈ 30 kg (head ≈ 3 kg)

Dimensions [l x w x h]

333 x 244 x 498 [19" rack]

Fiber length

See Needle or Jango

Optics

F-Theta lens

Communication

Modbus TCP or IO interface

Maintenance contract possible?

Yes.

Outstanding precision, exceptionally clean

The integration of our equipment in your production line, partially or fully automated, allows for an unprecedented cleaning precision.

Thanks to the software, we can upload CAD drawings to be as precise as possible and win valuable programming time.

The operational cost of laser cleaning is very low. Our machines only use a limited amount of power and can be sure of an exceptional longevity thanks to the high quality components we carefully selected. The laser sources can last up to 80.000 hours!

Attaching the laser head is easy. We've prepared the head with multiple screw holes and designed it to be a **robust, dust-free system** thanks to which the optics and electronics are safely protected, even with **long and intense use**.

Programming and integrating the machine will feel familiar, as we use the **MODBUS/TCP protocol** to seamlessly connect to your new or existing installations. Our people are on standby should you need extra support during the implementation of the system. All of this will bring your installation up and running. You can rest assured your installation is productive from day one.

We know as no other that time is of the essence. That's why you can sign up for a **maintenance contract** and be sure we keep all key components reserved especially for you. Should something go wrong, you can count on us to be on site as quickly as possible to get you back on line.





academy

Acquire in-depth knowledge and become a laser cleaning expert thanks to our Netalux Academy.

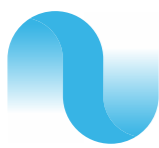
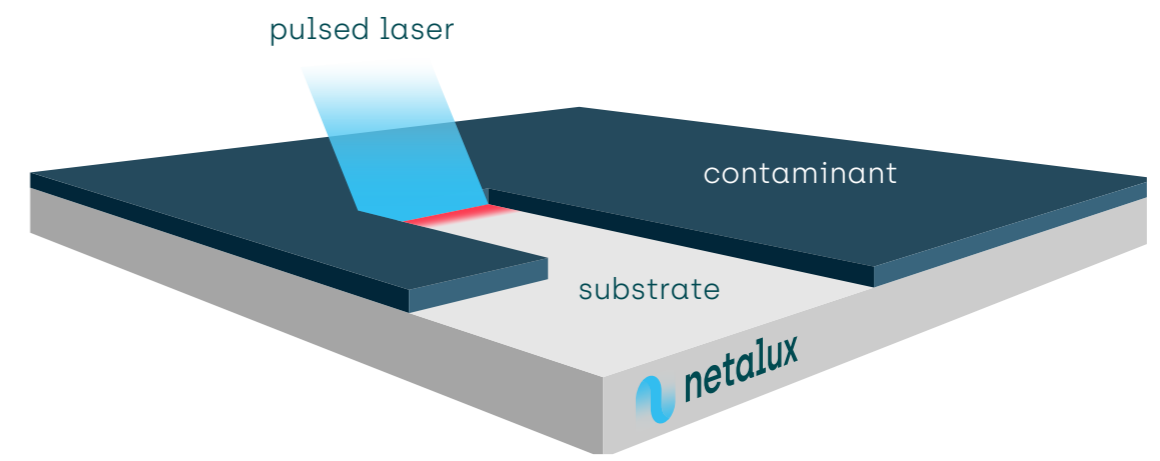
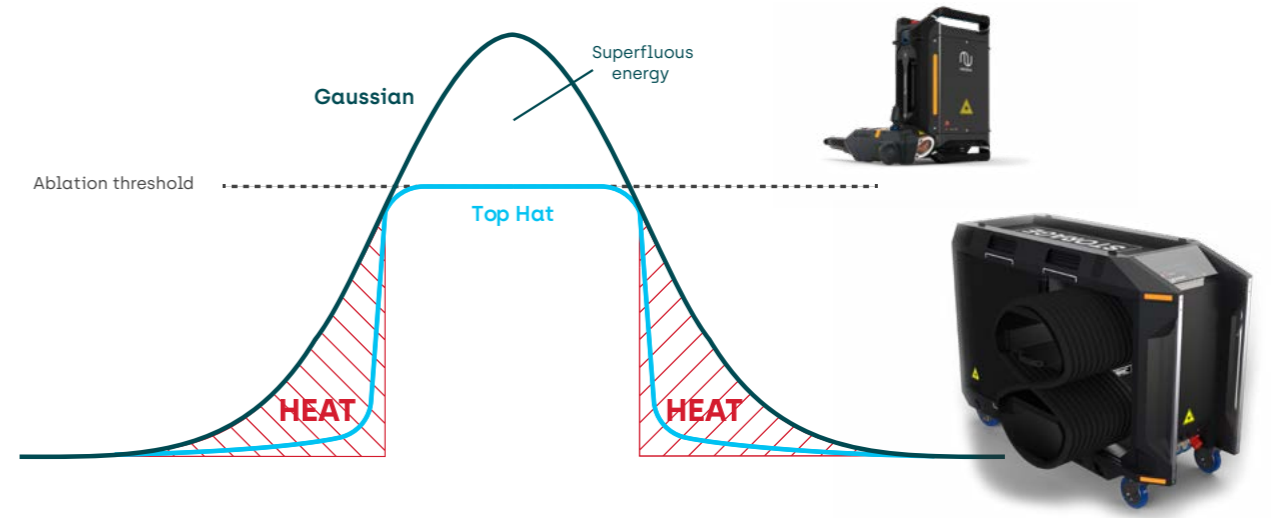
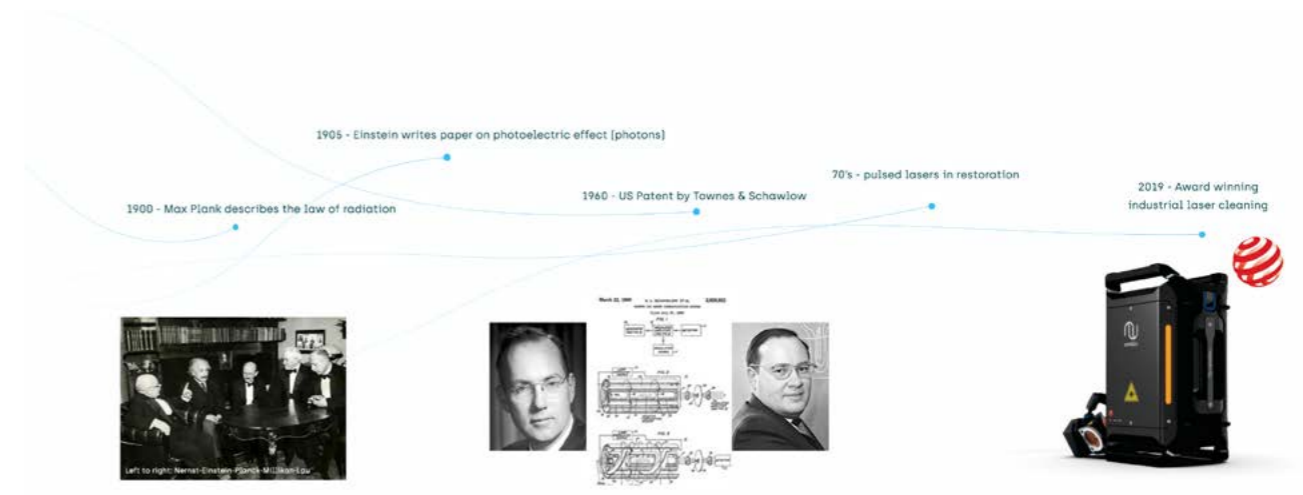
We offer several modules allowing you to get going with the technology safely and productively. Our experience of the past few years, and still being active with Netalux Experience as a contractor, put us in the right position to teach you all we know about laser cleaning and its possibilities. Our modules:

- | Laser Cleaning Fundamentals
- | LCF Rental
- | LCF Operations
- | LCF Sales
- | Distributors Training
- | Rental user training

The world of laser cleaning is one with a rich history, having its basis in the development of laser technology itself.

Netalux has been founded with the main goal of lowering the threshold towards this human and environmentally friendly technology. We want to support the industry to adopt and implement it successfully and we're convinced laser cleaning deserves a place in every toolbox.

Don't miss out on our **FREE webinars** on various topics and **subscribe to our newsletter** to stay up to date!



Meet the future of cleaning

Netalux was founded in 2017 as the world's first dedicated laser cleaning contractor.

The first two years of our existence, we've literally spent it on site holding this device in our hands day in day out on different sites and in the most challenging of circumstances. That has allowed us to discover the possibilities of laser cleaning, but also get to know its limits.

Soon enough we understood the important potential for this human and

environmentally friendly technology, but there was room for improvement. One of the most important improvements was of course the equipment itself. That's why we decided to start from scratch; resulting in our first product: the Needle 100. It immediately won a Red Dot Award for its smart and distinctive industrial design.

A second important improvement was spreading of knowledge. The world was missing a Laser Cleaning Academy, so we founded it. This

allows people to truly understand laser cleaning and get a better insight in its possibilities and how to successfully implement it.

As a company, we find it important to continuously improve our offerings. Having a strong relationship with our customers therefore is paramount. We also feel it's our responsibility as a manufacturer to take the lead in research and development and deepen our own knowledge about the technology and its side effects.

Contact us





We're
here for
you



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