



HIGH-PRECISION
LASER SYSTEMS
MADE BY ASKIAS



WE ARE EXPERTS IN LASER PROCESSING

ASKIAS stands for the latest generation of laser technology. With over 20 years of experience in the field of laser processing, we are industry leaders in high-quality, user-centered laser systems and supply companies from a wide range of industries worldwide.

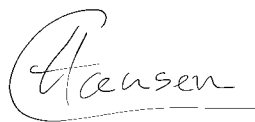
BUILDING TOGETHER, WHAT BELONGS TOGETHER

Engineering is in our blood. We love the machines we build. In fact we love them so much that we use them ourselves every day just like all partner companies of ASKEA Group. Since all our colleagues work with our laser systems on a daily basis, we can ensure that we always provide you with a customer centered, high-quality solution that delivers convincing results.

Our systems are exceptionally flexible, especially due to maximum modularity and 5 CNC-controlled axis, which enable you to process almost all workpieces and materials and switch between them within minutes.

Furthermore, you benefit from many years of experience and highest expertise in both, customer consulting and service.

We are looking forward to your inquiry!



Erik Hansen
Managing Director



Nils Wiedmann
Managing Director



STATIONARY LASER PROCESSING

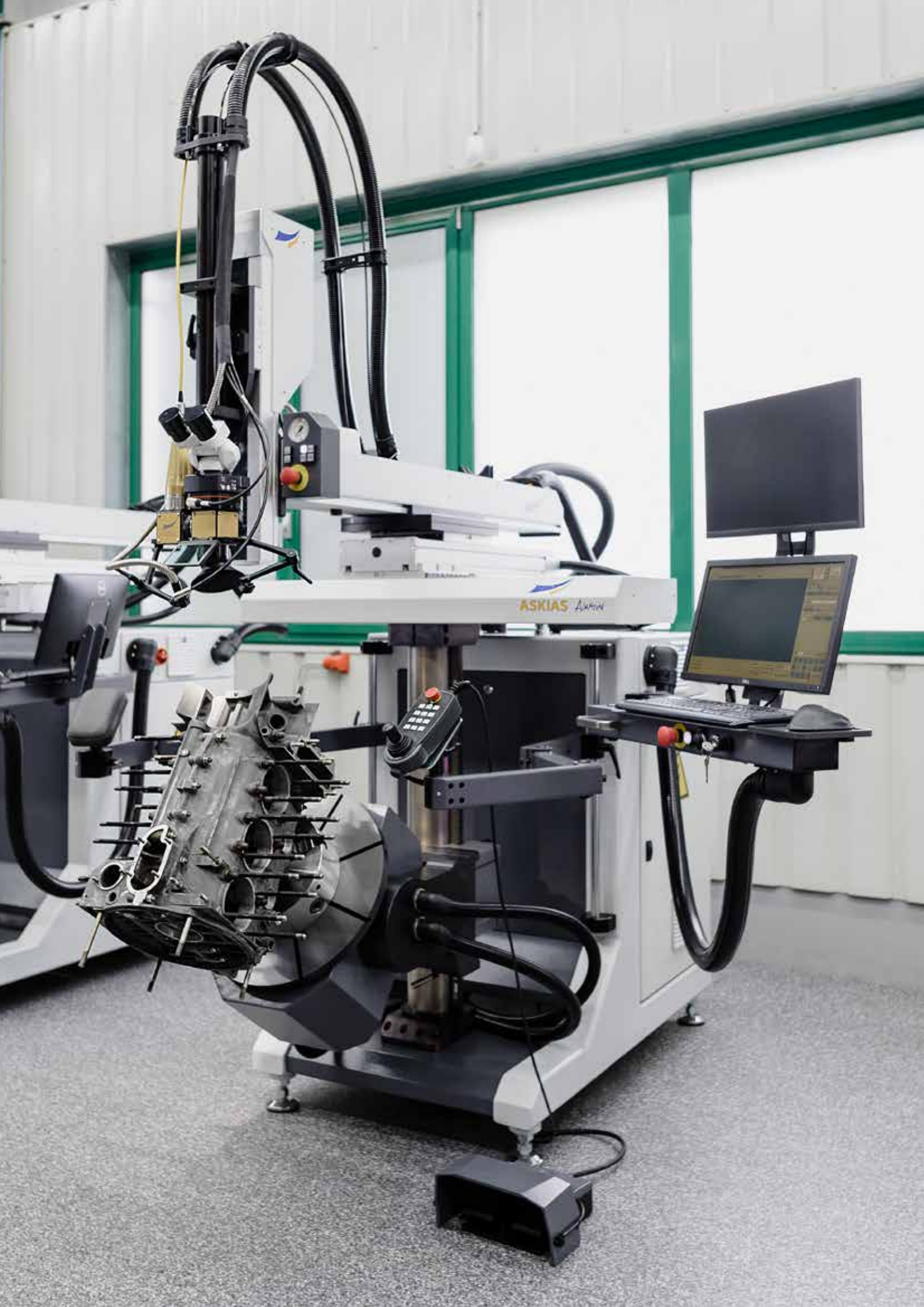
Laser welding, laser soldering, laser hardening and laser cutting: ASKIAS Adaption stands for versatility at the highest level. In all application areas, ASKIAS Adaption meets all accuracy requirements with extreme reliability through the use of high-quality components. Its modular design and precise CNC controls offer high-quality, reproducible results.

- + Up to 5 CNC controlled axes and up to 7 manual axes possible
- + High-precision welding of tools and stainless steels, aluminum, copper, and nitinol
- + Use our flexibility to easily switch from micro to macro processing – work on the smallest high-precision workpieces, as well as on large components weighing several tons
- + Effortless teaching of circles, curves, splines in three-dimensional space and equidistantly offset paths
- + In addition to semi-automated control, manual operation is easily possible, e.g. for small batches, using the joystick
- + 180° tiltable binocular with adjustable interpupillary distance for optimal ergonomics with highest precision (1)
- + Additional equipment options such as swivel rotary tables (2 & 3) and the PhosBall magnetic clamping system, with which workpieces can be securely clamped in seconds (4)
- + Products made in Germany, best-in-class service and support by ASKIAS



| | | | |
|--|---------------------------|--------------------------------|-----------------------------|
| Technical data ASKIAS Adaption | CNC controlled X/Y/Z axis | Travel [mm] | 400 (optionally expandable) |
| | Operating head | Swivel angle around X axis [°] | - 45 / + 135 |
| | Y axis manual | Swivel angle around Z axis [°] | - 16 / + 16 |
| | | Travel [mm] | 740 |
| | Z axis manual | Swivel angle around Z axis [°] | - 90 / + 90 |
| | | Travel [mm] | 330 |
| | Machine table | Swivel angle around Z axis [°] | - 90 / + 90 |
| Electrical travel in Z axis [mm] | | 600 | |
| Machine weight (varies depending on equipment) | Mass [kg] | ≤ 1200 | |

| | Type | Special features | Average power | Peak pulse power | Pulse energy |
|-------|----------------------------------|---|---------------|------------------|--------------|
| Laser | Pulsed fiber laser (diodes) | Pulse lengths up to 50 ms, CW, CW modulated | 150 to 600 W | 1,5 to 6 kW | 15 to 60 J |
| | Pulsed Nd:YAG laser (flash lamp) | Pulse lengths up to 200 ms, FDA approval | 220 to 400 W | 7 to 16 kW | 110 J |



FLEXIBLE LASER PROCESSING

With ASKIAS Agilion, our easily transportable and location-independent laser system, you have precision right where you need it. Whether it is internally or externally at your customer's location, Agilion offers you the possibility to work from anywhere. Everything we know about highest precision, flexibility, effortless teaching and semi-automatic controls from our Adaption series we have combined in an easily transportable machine: ASKIAS Agilion.

- + Maximum performance in the smallest space
- + Up to 4 CNC controlled axes and up to 7 manual axes
- + High-precision welding of tools and stainless steels, aluminum, copper, nitinol and mixed joints
- + Teach circles, curves, splines in three-dimensional space and equidistantly offset paths effortlessly
- + Additional equipment options such as rotary table and PhosBall or ball swivel magnet
- + Table frame for a temporary stationary workstation with full mobility and flexibility (1)
- + Base frame for free positioning in the room at ergonomic working height (2)
- + Easy and fast transport and readiness for use due to compact design, use directly from forklift possible (3)
- + LED cold light illumination for optimum illumination and maximum color fidelity at the processing point (4)
- + Products made in Germany, best-in-class service and support by ASKIAS



www.askias.de/agilion



| | | | |
|--|---------------------------|--------------------------------|-----------------------------|
| Technical data ASKIAS Agilion | CNC controlled X/Y/Z axis | Travel [mm] | 200 (optionally expandable) |
| | Operating head | Swivel angle around X-axis [°] | - 45 / + 135 |
| | Y axis manual | Swivel angle around Z-axis [°] | - 16 / + 16 |
| | | Travel [mm] | 450 |
| | Z axis manual | Swivel angle around Z-axis [°] | - 90 / + 90 |
| | | Travel [mm] | 340 |
| Machine weight (varies depending on equipment) | Mass [kg] | ≤ 200 | |

| | Type | Special features | Average power | Peak pulse power | Pulse energy |
|-------|-----------------------------|---|---------------|------------------|--------------|
| Laser | Pulsed fiber laser (diodes) | Pulse lengths up to 50 ms, CW, CW modulated | 150 to 600 W | 1,5 to 6 kW | 15 to 60 J |



ASKIAS *Precision*

LASER PROCESSING CENTER

The high-precision laser processing center for all laser applications: Whether it is laser drilling, cutting, welding, soldering, structuring or marking of metals, ceramics and other materials - ASKIAS Precision combines all functions in one laser center. Depending on your requirements, we will advise you individually on the selection of suitable laser sources and operating heads.

- + Full flexibility, highest quality
- + Versatile use thanks to interchangeable operating heads with 7 different processing modes
- + Modular laser technology, which can be completely controlled in own terminal and can therefore be upgraded and changed at any time
- + Precision: CNC-controlled 5-axle simultaneous processing with modern fiber lasers
- + Simplicity: Multistep-processing of complex components without additional accessories in one machine
- + Full customization of every machine to perfectly fit your business needs
- + Customized interface and universal controller for easy operation of the ASKIAS Precision (1)
- + Laser sources (2) and operating heads (3 & 4) with measurement and control intelligence developed and manufactured by our sister company AUXXOS, the first choice for high-performance laser technology
- + Products made in Germany, best-in-class service and support by ASKIAS



| | | |
|--------------------------------------|---------------------------------------|---|
| Performance data ASKIAS Precision | Operating mode | Manual, Automatic |
| | Stroke | X-axis stroke: 700 mm Y-axis stroke: 400 mm Z-axis stroke: 330 mm |
| | Feed | Rapid traverse (X,Y,Z) 54,000 mm/min Work feed rate 1 to 30,000 mm/min |
| | Maximum permissible load of the table | 250 kg (evenly distributed) |
| | Positioning accuracy | 0.006 mm / 30 mm |
| | Repeatability | ± 0,002 mm |

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|----------------|----------------------|--------------------|
| Technical data | Control | Fanuc 31i-B5 |
| | Weight | approx. 2800 kg |
| | Dimensions W x H x D | 2250 x 2400 x 2170 |

The logo for ASKIAS Precision, featuring a stylized blue and orange wave above the word "ASKIAS" in orange and "Precision" in a blue script font below it.





ASKIAS AND KIMLA: A EUROPEAN PARTNERSHIP FOR THE LASER INDUSTRY

After 25 years, the Polish CNC system manufacturer KIMLA has conquered markets on all continents of the world with its machines. The company located near Katowice has sold a total of around 3,600 machines. In addition to laser cutting solutions, the product range also includes systems for water cutting and other CNC machines.

Even before we started our partnership, we were convinced about the quality of KIMLA laser cutting systems and operate a KIMLA PowerCut ourselves. Our motto as a medium-sized company in southern Germany „everything from a single source“ also applies to KIMLA systems: transport, installation, training as well as application support all come as part of an all-round carefree package. With KIMLA, we also share the uncompromising focus on the benefit of our customers: We offer high-value, high-performance solutions that put quality first.

From the most compact all-rounder on the market to the processing of metal sheets with a length of 12 meters: KIMLA machines have the right machine for every application. The degree of automation and the scope of the processes supported are specifically geared to the wishes and needs of the customer.

All information can be found at www.askias.de/kimla.





PERSONAL ON-SITE SERVICE

We are happy to advise you before you buy a laser cutting machine. Should you decide to buy a machine from KIMLA, your first contact for questions regarding maintenance, repair and service is ASKIAS at the location in Lauffen am Neckar, where we ourselves operate a KIMLA PowerCut.

ASKIAS
LASERSYSTEME



Are you interested in a cooperation or need additional information? Feel free to call us, send us an e-mail or visit us online.

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