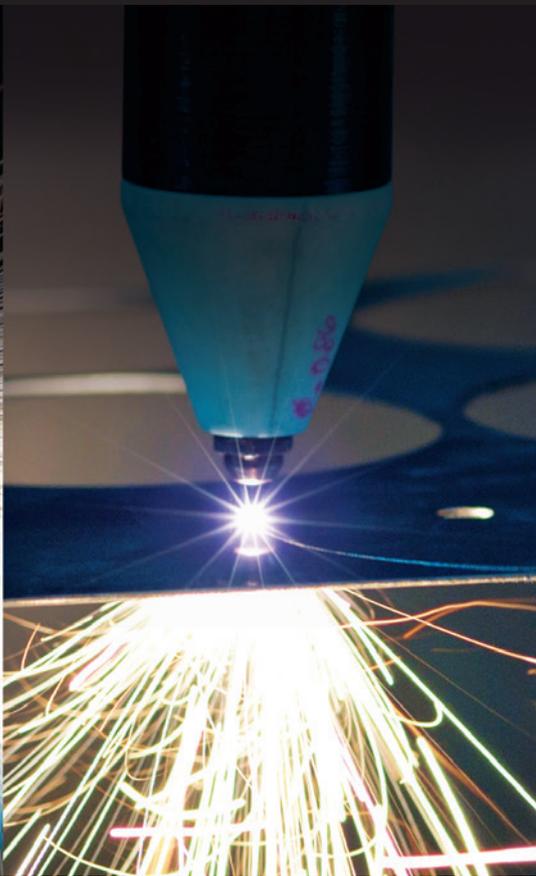




*Aerospace and land based
turbine engine components*



*Precision mechanical components
for automotive and transportation*



Electronic assemblies and housings



LASERDYNE[®] 430

Flexible laser system for a wide range of high precision
2D and 3D cutting, welding, and drilling applications

Laserdyne 430



THE FLEXIBLE LASER MACHINING PLATFORM FOR A WIDE RANGE OF HIGH-PRECISION APPLICATIONS

The LASERDYNE® 430 workstation was designed for precision laser processing for a wide range of metal and non-metal cutting, welding and drilling applications and it's the ideal flexible laser machining platform for a wide range of high-precision applications.

The LASERDYNE 430 is suitable in the aerospace, automotive, medical devices, electronics, industrial and consumer products industries. Designed from a vertical machining center platform, the 430 provides rugged, high-accuracy laser processing that will perform reliably and with excellent process capability.



RELIABLE

Well-suited for the most demanding process validation requirements but also for the toughest factory environments.



ACCURATE

Specific attention to mechanical and optical alignment resulting in 5 axis accuracy and volumetric precision.



NIMBLE

Focusing head designed specifically for intricate inside and outside part cutting, drilling and welding with unique ability for very shallow angle drilling.



ACCESSIBLE

Easy load position and height and easy access from the front and both sides for tooling or automation.



FLEXIBLE

Massive worktable for mounting a wide range of custom workholding for current and future applications.



Application for drilling 0.5 mm diameter holes at shallow angle to the surface of a TBC (engineered ceramic) coating.



The LASERDYNE BeamDirector provides 900 degrees of rotary motion and 300 degrees of tilt motion.



The 430 is used from processing components for fine mechanics, electronics, and medical devices.



LASERDYNE 3D technology for precision process control gives medical device manufacturers assurance of consistent quality.



MACHINE FEATURES

- Massive worktable for mounting a wide range of custom workholding for current and future applications.
- Air conditioned electronics ensures long-life and reliability in any factory environment.
- Dual processor design enables solid machine performance and powerful yet easy to learn user interface.
- With time-proven technology, standard features include highly-flexible welding and cutting performance, nozzle crash protection, and both online and offline programming ability.
- LASERDYNE System S94P console with pendant controller, providing both programmable flexibility and process capability.

Technical specifications

LASERDYNE 430

AXES STROKES	X = 585 mm Y = 408 mm Z = 508 mm
HEAD AXES	BeamDirector® 3 = 900° continuous motion in C axis 300° continuous motion in D axis
POSITION SPEED	X, Y = 15 m/min Z = 15 m/min BeamDirector® 3 = 0 - 90 rpm
RESOLUTION	BeamDirector® 3 = 0.0005°
ACCURACY (*) - according to VDI/DGQ 3441 standards	X, Y, Z = 12.5 µm bi-directional BeamDirector® 3 = ± 6 arcseconds
REPEATABILITY	X, Y, Z = 12.5 µm bi-directional BeamDirector® 3 = within 6 arc-seconds
MINIMUM PROGRAMMABLE INCREMENT	2.5 µm
TABLE LOAD CAPACITY	250 kg