

Welcome to TEK4

Choose your language
Choisir votre langue
Sprache wählen



HOME FHD EDM Systems LASER Systems STEM System Automation Capillary Drilling TEK4 Technology Brochure Videos Contact Us About TEK4

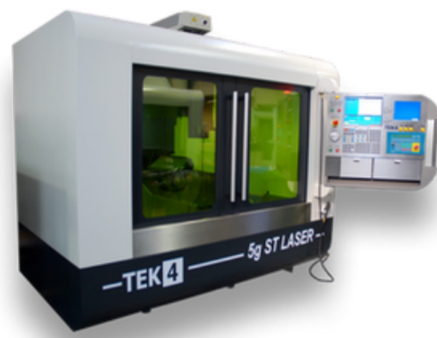
LASER Systems

TEK4s latest generation of LASER systems provides exceptional performance, rugged stability, and straightforward user-friendly approach. Each machine features a single beam delivery mirror for ease and stability of beam alignment.

All machines are fitted with a measuring touch probe for machine calibration and component location and compensation. All our machines are able to drill, cut and weld in one set-up, giving you great capabilities in a compact machine.

Simply click on a machine image below to find out more about the machines and features.

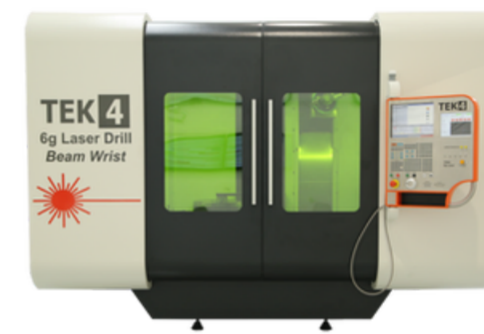
5g ST Laser



5g XL Laser



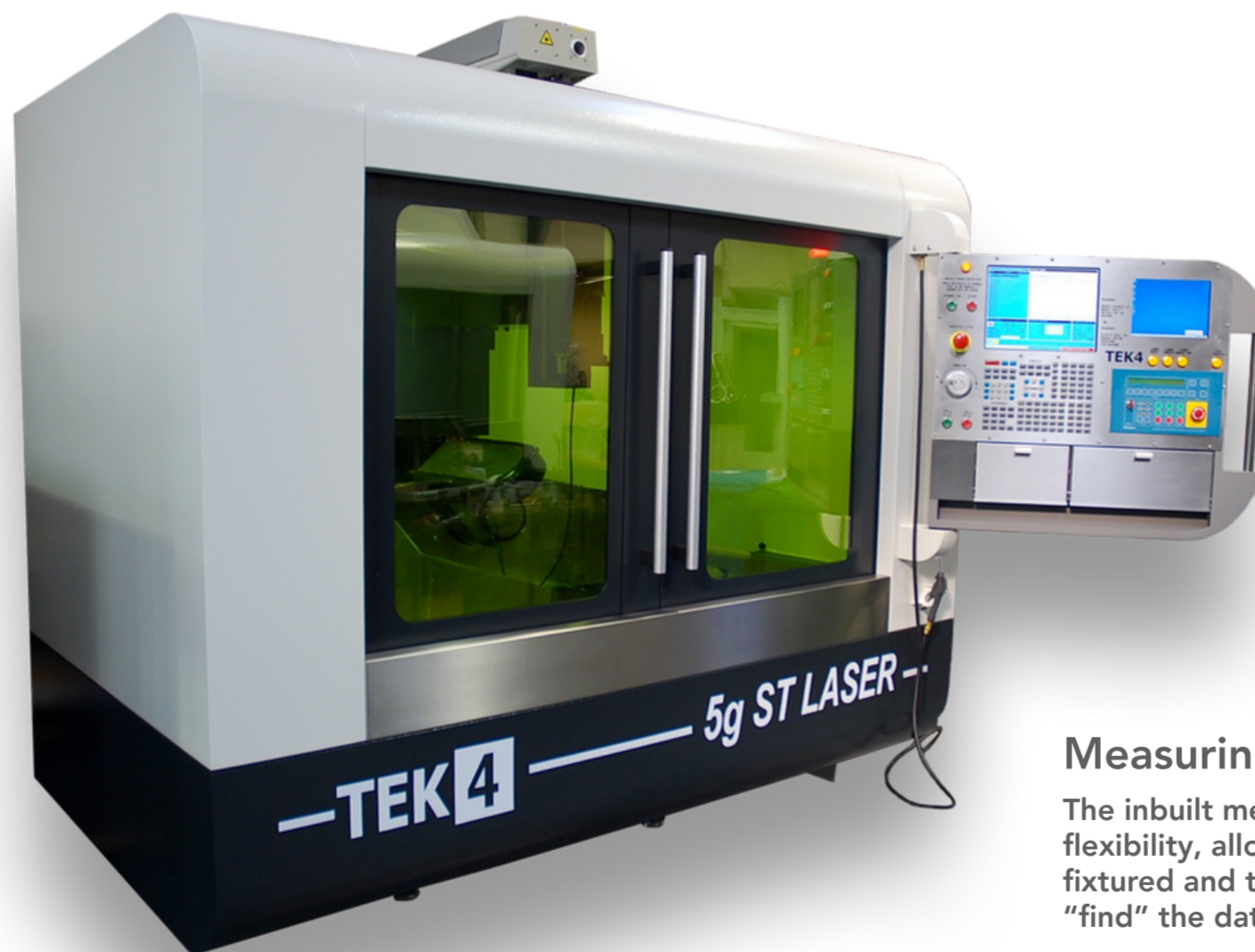
6g GX Laser



Key Features

- Auto calibration
- In-build probe system
- Erowa chuck fixture location
- Cassette optics
- Large capacity + compact machine
- Pendant operator control
- Class-leading performance
- Drills Cut and Weld in one set-up
- User-friendly control
- Simple beam alignment
- Auto beam calibration
- Auto machine axis calibration

TEK4 laser drilling machines let features include optional Laser drill head, auto calibration, large capacity, compact machine, user-friendly control. Our laser drilling systems provide exceptional performance and rugged stability.

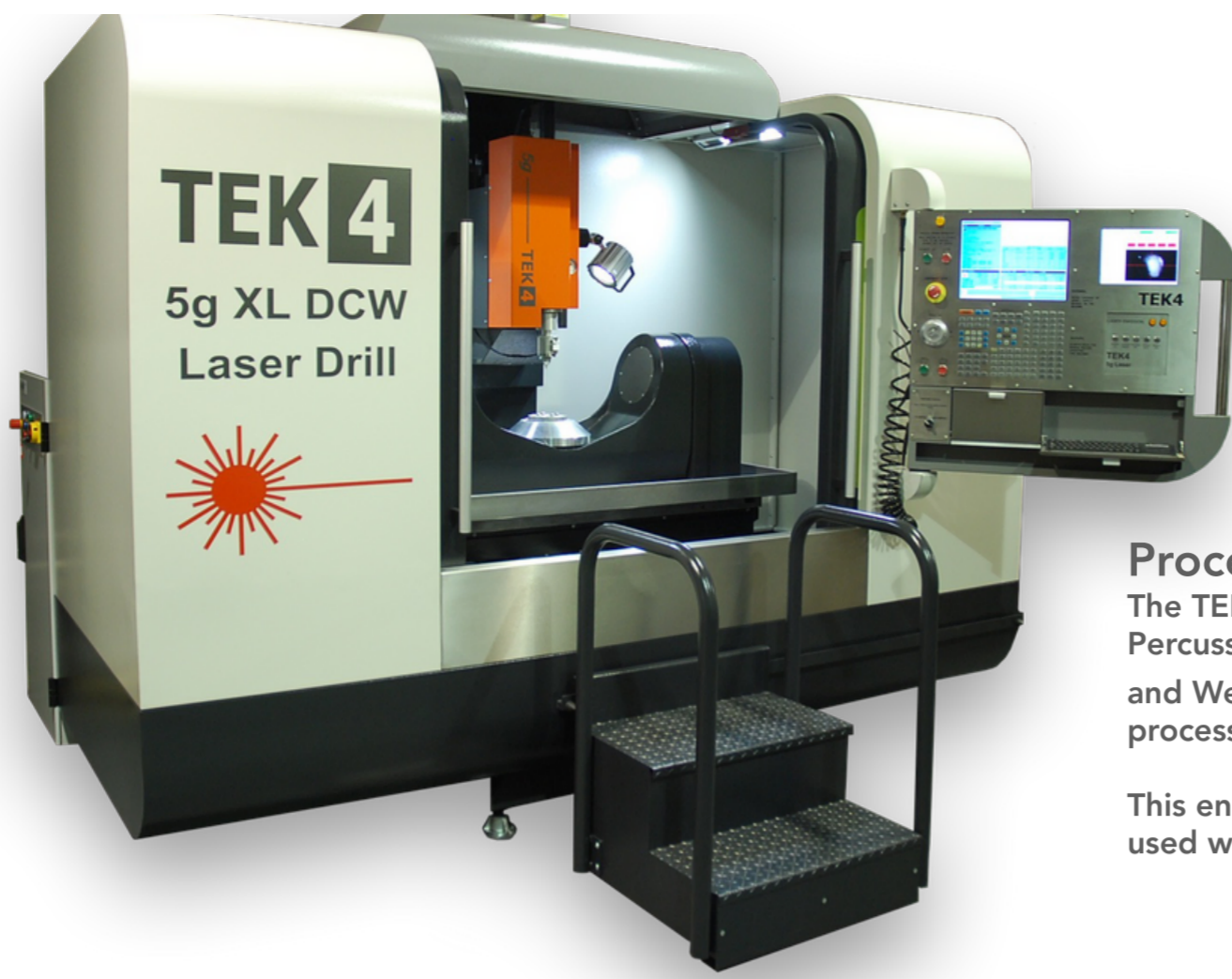


Measuring System

The inbuilt measuring system gives huge flexibility, allowing parts to be simply fixtured and then letting the machine "find" the datum points.

This enables compensation to be made for part variation, ensuring components are loaded correctly before machining and so reducing scrap.

| Machine type | X axis mm | Y axis mm | Z axis mm | A axis ° | B axis ° | Max part weight kg | Max part diameter mm |
|------------------------|-----------|-----------|-----------|--------------|----------|--------------------|----------------------|
| 5g ST Laser | 700 | 300 | 400 | 360 (+/-180) | 360 | 20 | 400 |
| 5g XL Laser | 1000 | 500 | 500 | 361 (+/-180) | 360 | 100 | 600 |
| 5g GX Laser Beam Wrist | 1000 | 1000 | 1000 | 363 (+/-180) | 360 | 100 | 1200 |



Process Flexibility

The TEK4 5g Laser systems are able to Percussion Drill, Trepan Drill, Cut, Drill and Weld all in one set-up, by switching processes using program parameters.

This enables several processes to be used within a single automatic cycle.

"The 6g GX Laser is class leading"



Laser Systems Key Features

- Auto calibration
- Inbuilt probe system
- Erowa chuck fixture location
- Cassette optics
- Large capacity + compact machine
- Pendant operator control
- Class-leading performance
- Drill, Cut, Weld in one set-up
- User-friendly control
- Simple beam alignment
- Auto-beam calibration
- Auto-machine axis calibration
- Camera repair technology

Outstanding Flexibility

The 5g Laser systems are designed specifically for machining turbine components.

The machine configuration enables larger than expected components to be machined in a single set-up.



TEK4 Systems

TEK4 Technology

TEK4 Features

About TEK4



FHD EDM Systems

LASER Systems

Multi-Hole System

STEM Systems

Automation

3 Steps to Accuracy - EDM

3 Steps to Accuracy - LASER

Advanced Optics

Advanced Shaped Hole

Automatic Breakthrough Detection

Class-Leading EDM Performance

Data Collection

Laser Ablation

Powerful Control System

Pre-Breakthrough Detection

Process Flexibility

Advanced Tooling

Control System

Laser Ablation (DAC)

About Us

Brochure 2022

Contact Us

Videos