



LEITZ SIRIO Xi

Optimum Process Control in Series Production





LEITZ SIRIO Xi

HEXAGON
METROLOGY

REDUCE TO THE MAXiMUM

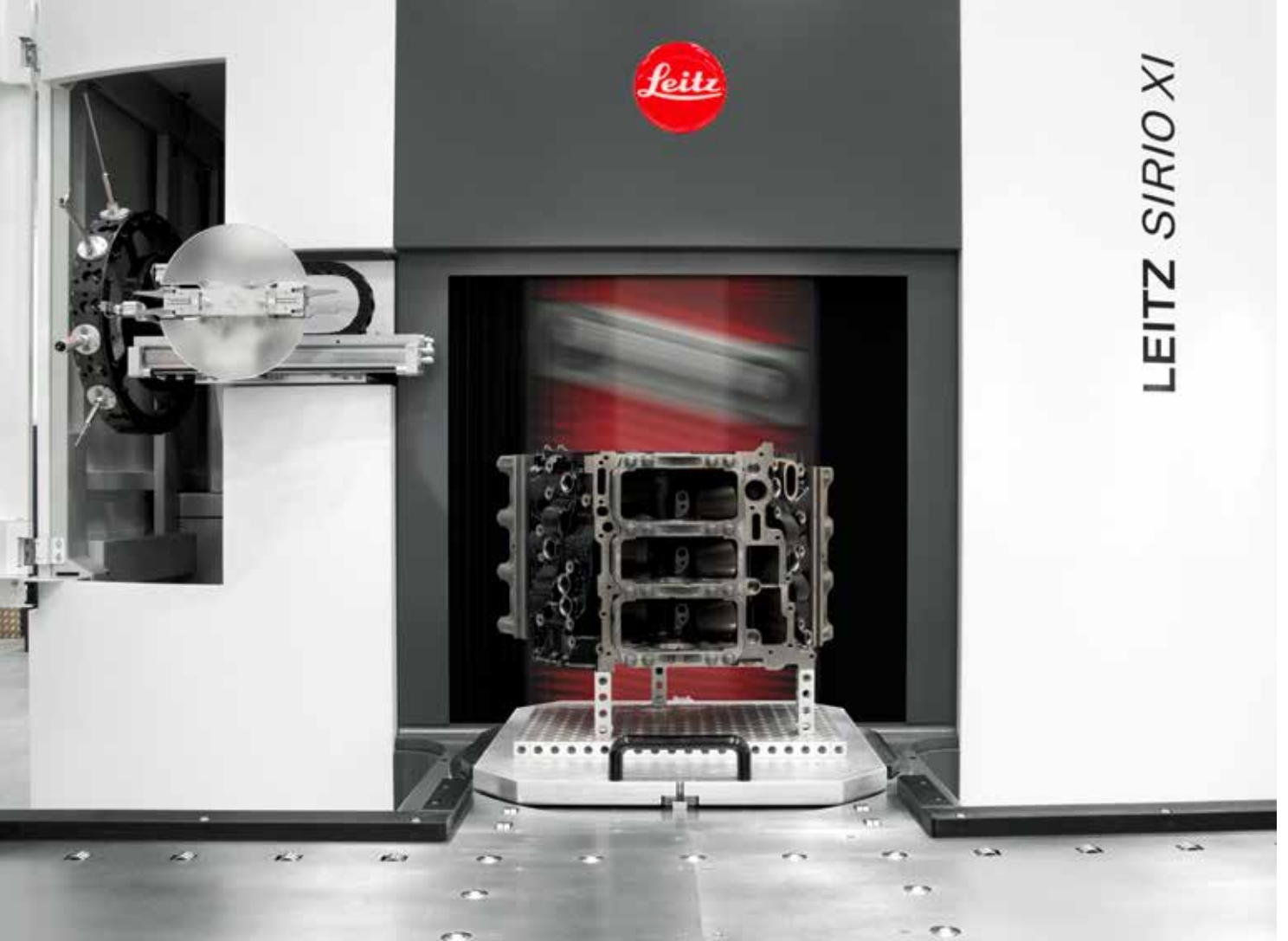
Leitz SIRIO coordinate measuring machines have a long tradition of high-end technology in production metrology. The genes inherited by the youngest member of the SIRIO family have all the ingredients for a special mission: to raise metrology in the manufacturing environment to a new level.

The Leitz SIRIO Xi is the ideal standard solution for the shop floor, combining maximum throughput with the high precision you expect of a Leitz product. It features outstanding efficiency and process speed plus a future-oriented technological configuration as part of the German Industry 4.0 initiative.

In brief: the Leitz SIRIO Xi concentrates on the essentials to give you the best possible support for process control in series production.

And if you already own a Leitz SIRIO, you'll have no problem combining your existing fixtures, pallet systems and measuring software with the new generation machine.





LEITZ SIRIO XI

MAXiMUM SPEED

Time is money – an unwritten law that particularly applies in series manufacturing. Literally, every minute counts when machines are running: downtimes in shop floor quality control mean a drop in productivity. With the Leitz SIRIO Xi you save both time and money. Designed as a hook-lift machine, it is easy to install and set up and can therefore be put into operation without delay.

More over the Leitz SIRIO Xi integrates PrimeScan technology for high measurement speed: the new control unit ensures ultra-high flexibility and excellent reproducibility in process control. The machine captures and evaluates 1,000 points per second in scanning mode. The styli changer unit accepts up to 24 styli and can exchange them within a few seconds.

MAXiMUM THROUGHPUT

To meet the special requirements of customers in large-scale production, we designed the performance features of the Leitz SIRIO Xi for maximum throughput.

The Leitz SIRIO Xi is a true four-axis measuring machine with a vertical arm and infinitely positionable rotary table. With simple styli configurations and few styli changes you can even measure hard-to-reach component features, saving set-up and measurement time.

The SIRIO Xi is precise and reliable. Its high dynamics the machine masters an acceleration of 3,400 mm/s². The Leitz Pathfinder Technology with its scanning features such as variable high-speed scanning completes dynamics to maximize throughput – measurement for measurement – day after day.

MAXiMUM EFFICIENCY

The key performance features of the new Leitz SIRIO Xi, its robust design and high reliability were devised in close cooperation with our customers – with the aim of providing even better support in series production.

The robust design translates into short maintenance times and long maintenance intervals. Due to its precision ball screw drives, the SIRIO Xi is insensitive to vibrations. The Leitz SIRIO Xi is unperturbed by dirt and temperature fluctuations, too, thanks to its built-in vibration damping. An anti-collision system protects the machine and the probe head from collision damage.

The machine is also optimized and easy access for servicing. The side covers can be easily unlocked and effortlessly opened without having to remove the pallet systems.

As a result, you benefit from high uptimes and low life-cycle costs. The Leitz SIRIO Xi is not only technically efficient, but makes good economic sense, too: your investment will pay off within an extremely short time if you use the machine extensively.



MAXiMUM PRECISION

You naturally expect a Leitz measuring machine to deliver the greatest possible precision for quality control tasks. And that's exactly where the Leitz SIRIO Xi scores.

The newly developed dynamic PrimeScan LSP-S10 probe head is designed for the most demanding measuring jobs, accepting styli up to 500g in weight and 250mm in length.

The Leitz SIRIO Xi compensates local or temporary temperature fluctuations in real time. Besides outstanding measurement results, this gives you a constantly high level of process stability at ambient temperatures of up to 40°C.





MAXiMUM EXPERTISE

The new Leitz SIRIO Xi is packed with 30 years of experience in product measurement technology. The new PrimeScan LSP-S10 probe head developed at the Leitz company has evolved from this experience and the valuable feedback of our customers. The same applies to the infinitely positionable Leitz rotary table with patented “self-adjusting dynamics” technology, which enables recognition of the moment of inertia and workpiece weight as well as allowing its properties to be matched to these parameters.

You can, of course, load the Leitz SIRIO Xi manually. However, your throughput will be far higher if you optimally integrate your CMM into your production environment by using semi- or fully automatic pallet systems. That’s why we cater for all your essential needs surrounding the new SIRIO Xi, too. We’ll be happy to supply the matching accessories – from pallet systems and fixtures to the programming of your measurement routines. The hardware and software come from the same supplier and can be perfectly coordinated to your measurement tasks.

As a full-service provider, we naturally don’t just drop off your CMM on the doorstep. We see to the turnkey installation of the machine, controls and software, besides helping you get started and providing maintenance. Whenever you want – and wherever you need your Leitz SIRIO Xi.

MAXiMUM 4.0

Individualization and flexibilization of the shop floor by networking – these are the challenges and opportunities of the fourth and latest industrial revolution. For many manufacturing companies, Industry 4.0 is still a long way off. With the Leitz SIRIO Xi you can have the future today.

The Leitz SIRIO Xi provides ideal support for process control in the highly flexibilized manufacturing environment. This is mainly due to the state-of-the-art control and the probe head change system with 24 magazine slots. The intelligent self-adjusting dynamics technology of the rotary stage recognizes the weight and inertia of the component and regulates the rotation speed automatically.

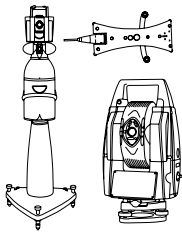
In combination with the excellent QUINDOS software, the SIRIO Xi is able to perform measurement tasks and routines in a networked production system. The communication with relational databases, programmable logic controllers, statistic analysis facilities and statistical process control output perfect the integration of process control in the shop floor.



QUINDOS

QUINDOS is the perfect analysis tool for the Leitz SIRIO Xi – whether you're measuring simple components or complex special geometries. QUINDOS offers more than 50 customized options for solving your measurement problems. For quality control, this means more efficient operation, measurement and programming.

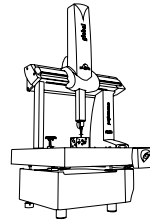
Utilizing all the information supplied by a CAD model, users can write measurement programs or modify existing programs within a short time. In offline mode, this can even be done without interrupting the production flow: in the I++ Simulator, even the travel paths of the CMM can be simulated and collisions avoided.



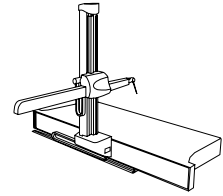
LASER TRACKERS & STATIONS



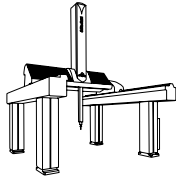
PORTABLE MEASURING ARMS



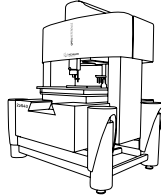
BRIDGE CMMS



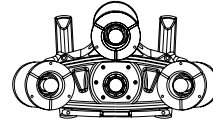
HORIZONTAL ARM CMMS



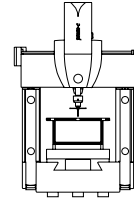
GANTRY CMMS



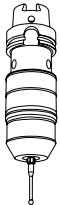
MULTISENSOR & OPTICAL SYSTEMS



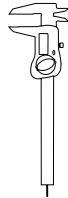
WHITE LIGHT SCANNERS



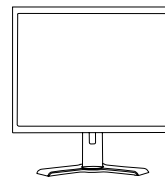
ULTRA HIGH ACCURACY CMMS



SENSORS



PRECISION MEASURING INSTRUMENTS



SOFTWARE SOLUTIONS



HEXAGON METROLOGY

Hexagon Metrology offers a comprehensive range of products and services for all industrial metrology applications in sectors such as automotive, aerospace, energy and medical. We support our customers with actionable measurement information along the complete life cycle of a product – from development and design to production, assembly and final inspection.

With more than 20 production facilities and 70 Precision Centers for service and demonstrations, and a network of over 100 distribution partners on five continents, we empower our customers to fully control their manufacturing processes, enhancing the quality of products and increasing efficiency in manufacturing plants around the world.

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