



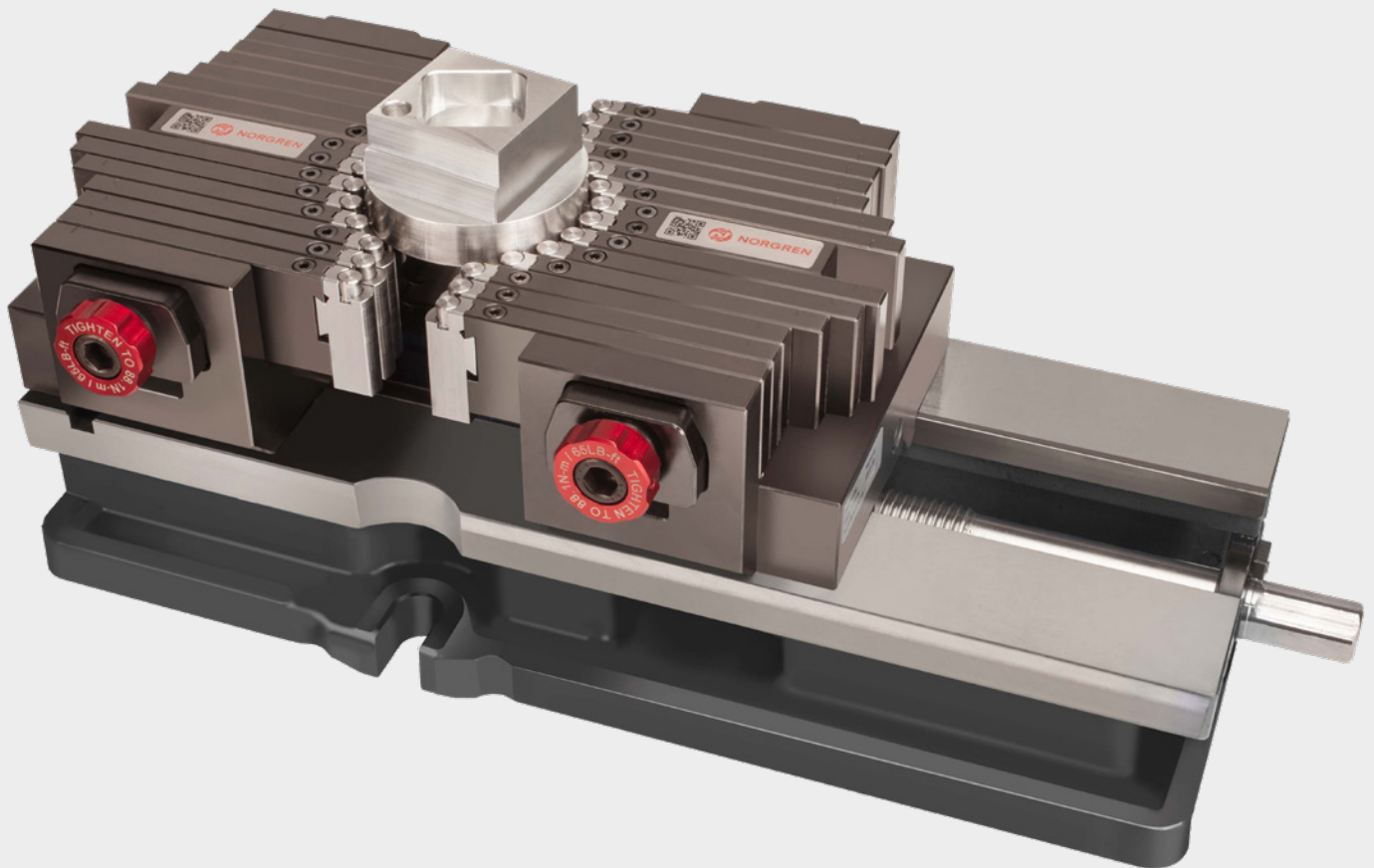
NORGREN

[Workholding]

WHITE PAPER

Adaptix™ Soft Jaw

Save Time. Save Money.
Get a grip on Workholding.



IMI

**[Breakthrough
Engineering]**

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Norgren – Breakthrough Engineering

The challenges and problems the world faces grow ever more complex. Businesses demand fresh thinking and new approaches to successfully tackle fundamental issues such as climate change, rapid population growth, and using technology to improve the quality of lives.

With 150+ years' experience manufacturing over a 100 million parts per year, Breakthrough Engineering is at the heart of Norgren's offering and is an integral element in driving the essential systems we all rely upon.

From improving the speed, productivity, reliability, and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries - Norgren's solutions are designed to help customers pursue progress, achieve new goals, and overcome problems.

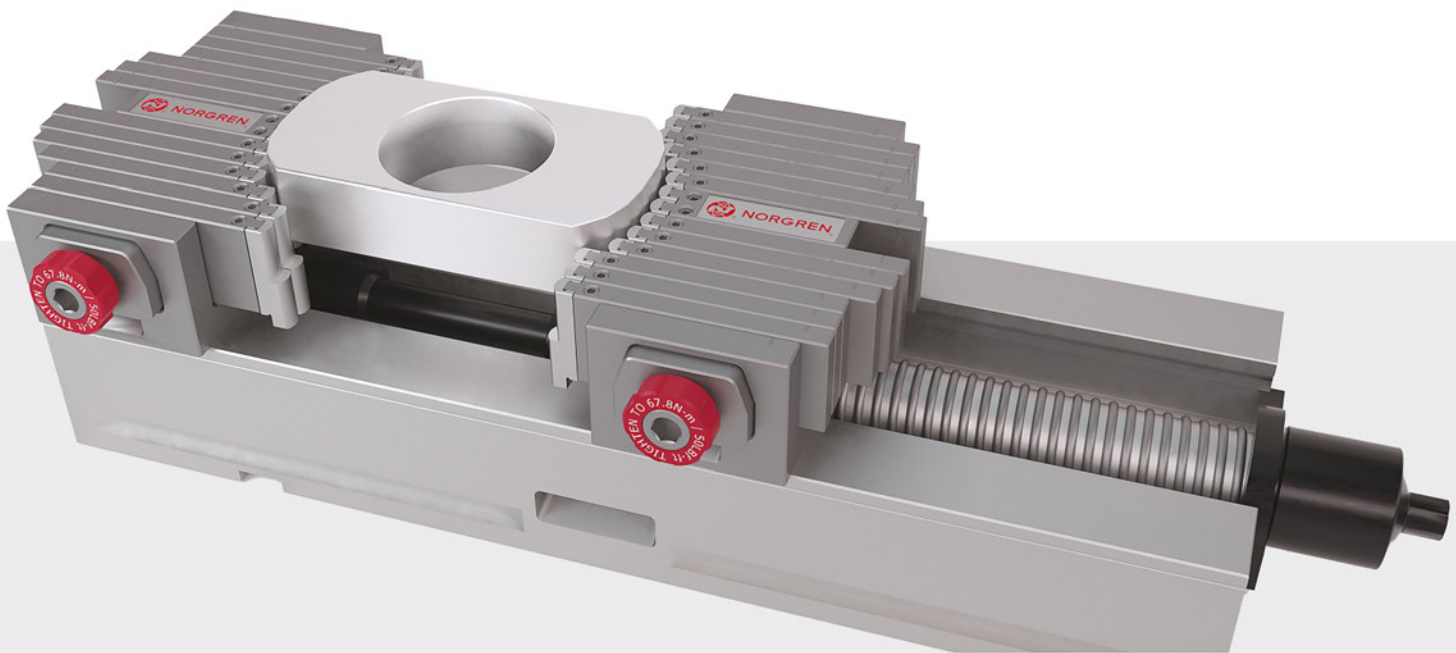
Norgren offers insight, technical excellence, and a true collaborative approach to help organisations forge a brighter future by delivering breakthrough engineering for a better world.

Norgren in Workholding - new, bold, and innovative

In keeping with the philosophy behind Breakthrough Engineering, Norgren is challenging traditional thinking about workholding solutions for CNC machining customers; actively exploring new ways to tackle some of the key operational efficiency issues the sector faces every day.

The innovation at work within Norgren, part of IMI plc, is dramatically reducing the steps traditionally involved; changing the way parts are held and gripped in the CNC and workholding industry forever.

We saw an opportunity to solve several machining problems with just one tool, and so we designed the Adaptix™ Soft Jaw to grip nearly any part with comparable repeatability and clamping force as single-application soft jaws. This singular tweak to the CNC machining workflow can have a huge impact on several pain points in the industry.



Adaptix™ Soft Jaw – the problem solver for workholding issues

The answer is Adaptix™ Soft Jaw - a revolutionary new technology transforming the way workpieces are held and gripped in CNC milling machines.

Designed to have a similar robustness as a normal aluminium soft jaw with regards to high clamping forces, repeatability, and toughness. The Adaptix™ Soft Jaw's adjustable fingers and interchangeable tips are made from a variety of different materials to match the milling needs of a particular part. The fingers easily mold into place to conform to the shape of the target part and then are locked in place. This configuration process takes minutes, instead of hours, on average, with traditional soft jaws.

The soft jaw fits directly onto a vice and is currently compatible with Kurt and Schunk brand vices, with other vice compatibility planned in the near future.



Adaptix™ Soft Jaw – the answer to your workholding challenges

Reduce material and resource costs, reduce storage, reduce waste, reduce machine downtime, optimise efficiencies, and performance – all with a single, transformative workholding answer.

Soft jaw and vice solutions have traditionally been beset by several cost-driven and operational challenges.

These include the ongoing investment and resources needed to design, create, manufacture, or purchase the range of soft jaw solutions required for a multitude of CNC milling machine applications. Together with the unwanted and extensive tooling set up and machine downtime that results whenever changing over to a new workholding soft jaw solution, to the ongoing consumption of costly materials, tooling, labour, and energy, as well as maintaining the expensive and often extensive storage facilities required.

There must be a better way.

There is and it is called Adaptix™ Soft Jaw.

Put simply, Adaptix™ Soft Jaw is a market-leading, highly adaptable CNC milling fixture that mitigates the frustrations, time delays and cost of traditional workholding solutions for the machining market.

Its clear user benefits are based on the implementation of revolutionary new technology that is transformative in its ability to position and secure multiple configurations of parts in milling machines.

The Adaptix™ Soft Jaw solution offers infinite configuration capability from a single source; one that can cater for all future workholding needs and is obtainable through a one-off investment and no further financial outlay, aside from tip replacement.

Using a single jaw to hold hundreds of different parts helps to decrease the time spent preparing for the machining of a part, the amount of raw materials needed to create an individual jaw, and the warehouse space needed to store the soft jaws — ultimately allowing lean in-house manufacturing operations and limiting vulnerability to supply chain disruptions.

The Adaptix™ Soft Jaw uses adjustable fingers and interchangeable tips to grip a wide variety of parts or workpieces during the computer numerical control (CNC) machining process. It was specially engineered to be a one-size-fits-all alternative to standard, single-application aluminum soft jaws.

From a performance perspective, Adaptix™ Soft Jaw exceeds the expectations of the market. Any potential concerns about gripping forces can be allayed as the solution provides the same necessary force to hold a workpiece as a traditional soft jaw.

The availability of exchangeable fingertips adds a level of unique adaptability that can be customised to a specific customer configuration, available in aluminium, steel, plastic, or brass means that different shapes, step profiles and materials can be secured without compromise to the clamping force.

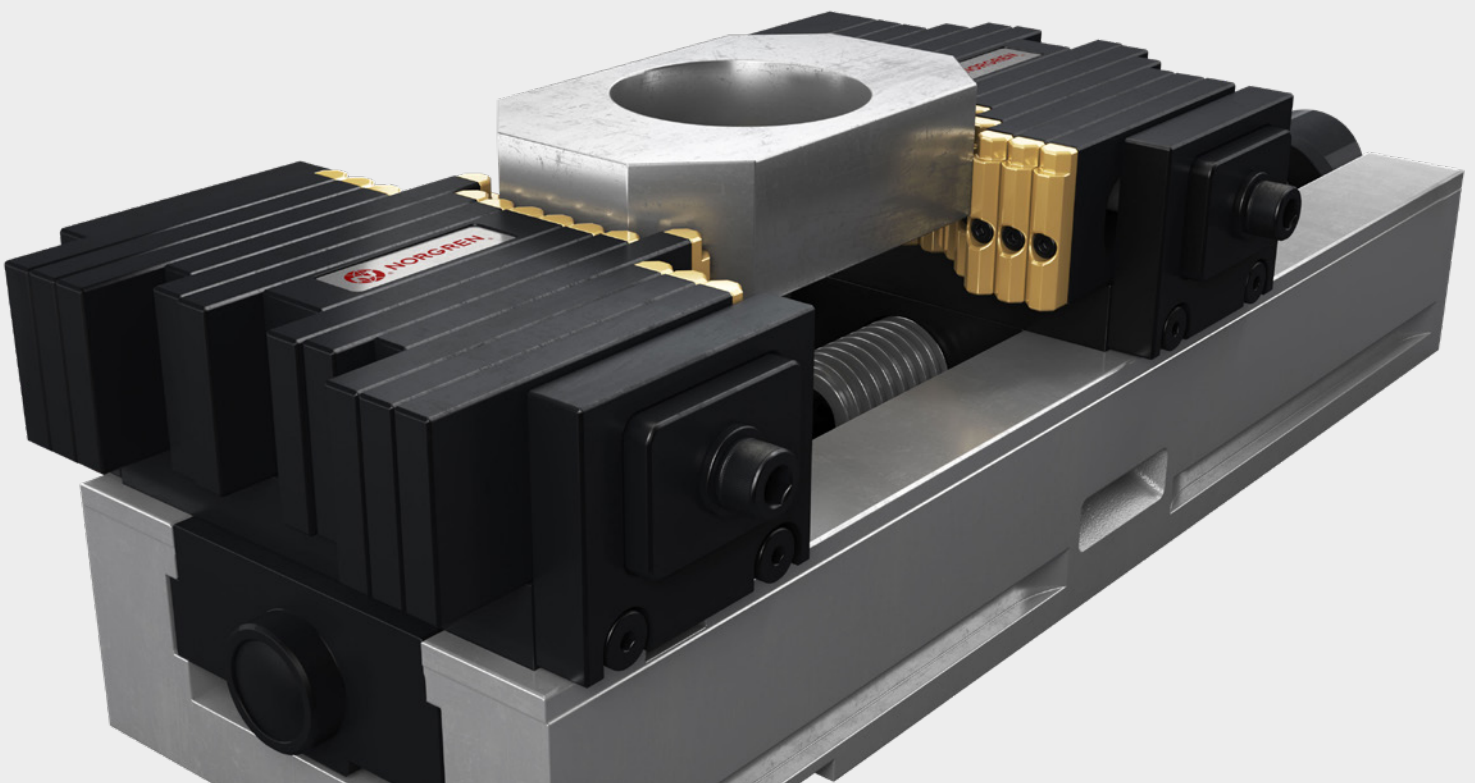
Finally, pinpoint accuracy for part-to-part repeatability ensures optimised production that will significantly decrease waste material levels.

For the first time, Adaptix™ Soft Jaw enables CNC customers to:

- » Create a soft jaw in less than 60 seconds
- » Eliminate the need for an extensive soft jaw inventory
- » Cut shelf and storage space requirements by up to 90%
- » Reduce workholding resourcing and expertise costs through a simple 'plug in and play' design
- » Significantly reduce changeover time and create lean in-house manufacturing operations
- » Create infinite workholding configurations via a one-off investment
- » Tackle waste levels and with it optimise valuable resources

Adaptix™ Soft Jaw is the workholding solution the market never knew it needed.

By understanding the issues that CNC and machining customers face every day, Adaptix™ Soft Jaw is the innovative response that will change how workholding solutions are viewed in the future.



Adaptix™ Soft Jaw – innovation from Norgren's Growth Hub

Adaptix™ Soft Jaw is the latest product solution emerging from Norgren's commitment to investing in breakthrough engineering. Delivering innovative solutions that solve the cost and operational problems customers face daily.

The revolutionary customer-focussed solution was identified, developed, and built because of the collaboration that underpins Norgren's Growth Hub programme. It is a prime example of how the ingenuity of Growth Hub is helping to accelerate the discovery and implementation of problem-solving solutions that industry needs.

Growth Hub brings together a range of Norgren experts and customers to confront the financial and practical issues that impact customers activities. The team co-operates to create a solution that overcomes the customer pain points through a combination of innovative thinking and committing to a diverse path and fresh approach.

Adaptix™ Soft Jaw was created through this process.

First as a solution that Norgren implemented to support its own internal manufacturing requirements, and then to be made available to the market as a cost effective, results-driven, workholding solution ready to support the future of the CNC and machining marketplace.



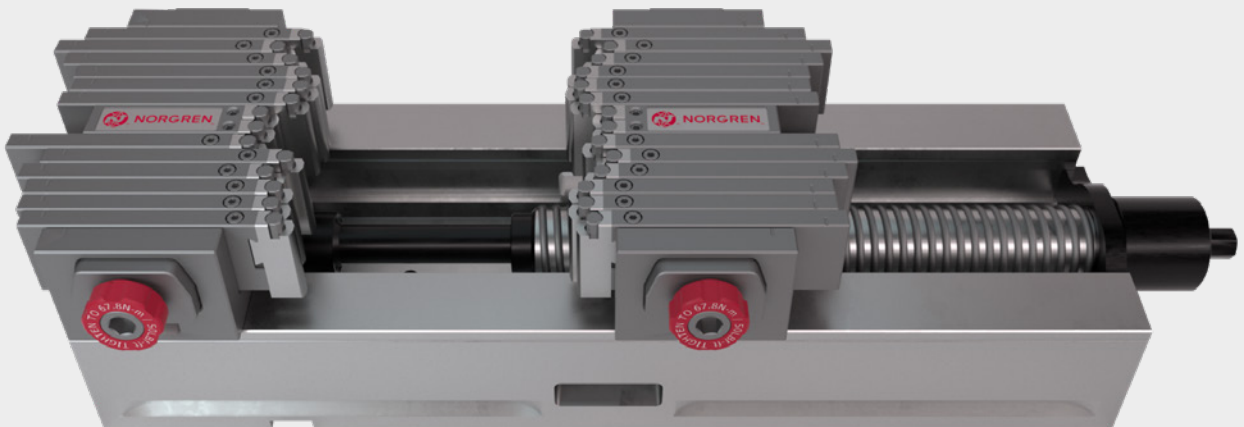


Adaptix™ Soft Jaw – the workholding solution of choice

To assess the tangible impact Adaptix™ Soft Jaw can have on your business, Norgren has created an easy-to-use return-on-investment calculator.

Available at www.norgrenworkholding.com/en/savings-calculator, customers can input some basic information, including typical change

over times and labour costs. Using this data, the calculator tool can then demonstrate how the adoption of Adaptix™ Soft Jaw as a workholding solution of choice will deliver long-term cost, time, material, and labour savings both in the immediate and long term future.



For further information about Norgren and Adaptix™ Soft Jaw please visit www.norgrenworkholding.com or contact workholding@norgren.com

Norgren operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, Czech Republic, Germany, India, Mexico, UK and the USA.

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Incorporating



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