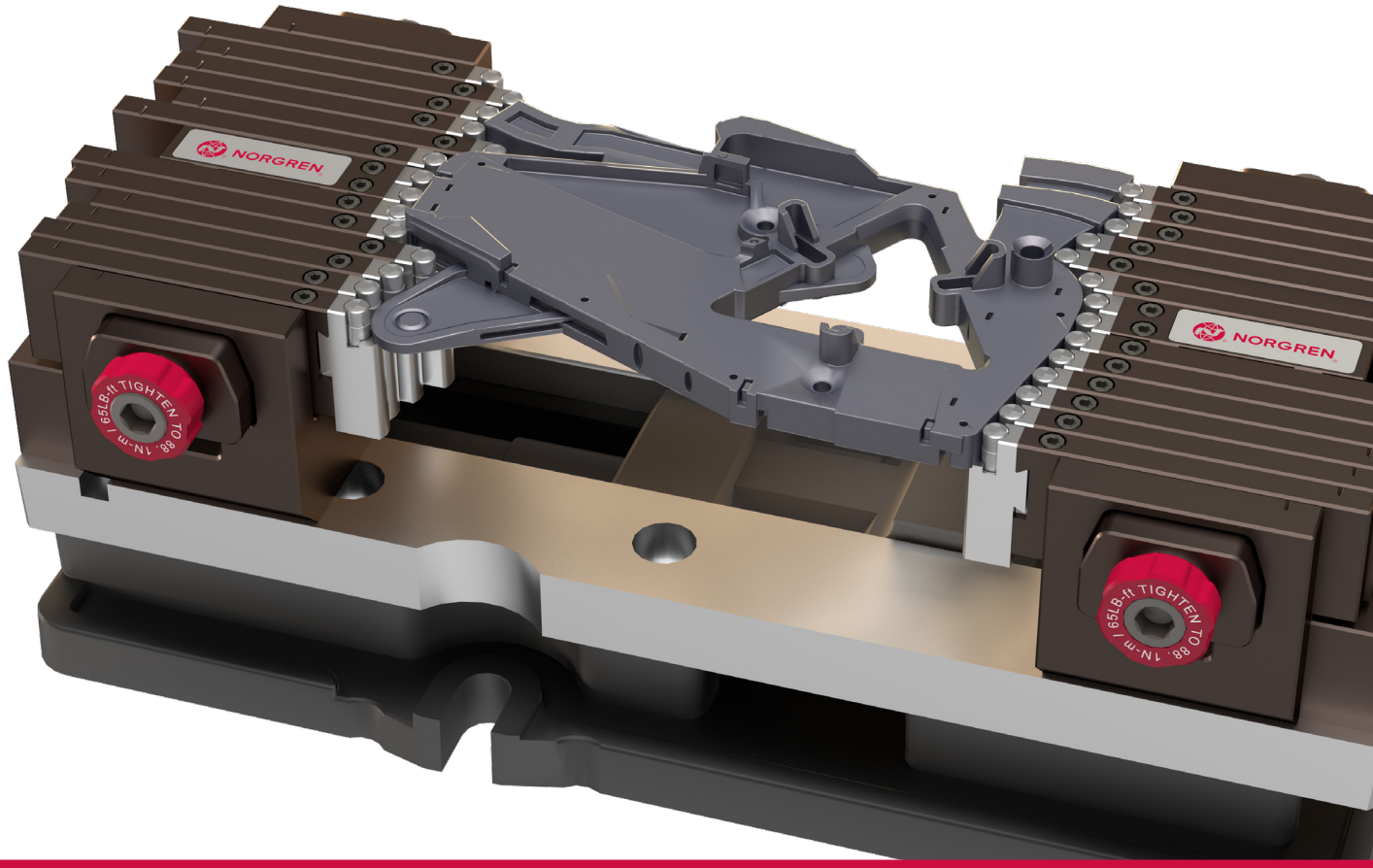
NORGREN®

[Workholding]

Adaptix™
Faster Grip to Chip

Minimize downtime, work setup and material scrap.
Maximize uptime, product mix, and machine capacity.



Breakthrough Engineering for a Better World—With 150+ years of experience manufacturing over 100 million parts per year, Norgren challenged traditional workholding solutions for CNC machining and developed a revolutionary new product which is transforming the way you hold and grip parts in your milling machine.

IMI

[Breakthrough Engineering]

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Breakthrough Engineering for a Better World

Norgren is part of global engineering organization IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on creating tremendous value by solving key industry problems in attractive markets and employing the best.

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Energy, Process Control, Life Science and Commercial Vehicles.

From improving 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 high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Bimba, Buschjost, FAS, Herion, Kloehn and Maxseal. Supplied either individually or combined into powerful customized solutions to meet customer needs.

Breakthrough engineering you can count on.

A More Efficient Workholding System

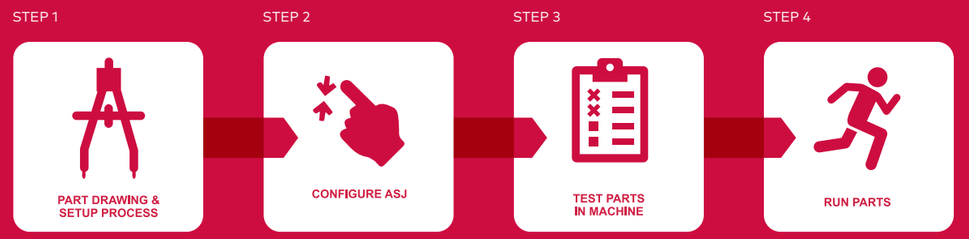
Adaptix rapidly adjusts to powerfully grip the most challenging of pieces. Innovative technology ensures repeatability is maintained throughout the machining process, resulting in more uptime and faster changeovers. Unique shapes can be quickly setup and held for high mix, low volume orders, meaning you'll have more time to quote and win business. Workholding just got easier with Adaptix.

Adaptix Features and Benefits:

» **Rapid Customization**	Unique geometry workholding in about 5 minutes
» **Powerful Hold**	Maximum clamping force of 7,000 lb
» **High Repeatability**	Repeatability of .001"*
» **Simple Setup**	Labour costs to get up and running are less
» **Quick Setup**	Less down time; more time cutting
» **Unique Geometry**	Expand your offering and quote more
» **Compatibility**	Couples directly onto most work vises
» **Corrosion + Chip Resistant**	Proprietary design mitigates chip ingress and prevents corrosion
» **Interchangeable Grip**	Free rotating, round or serrated studs each grab work differently
» **Interchangeable Depth**	Different step heights offer shallow or deep grip
» **Interchangeable Materials**	Hardness of studs can be changed depending on workholding needs

*The overall repeatability will depend on the specification of the vice, please check manufacturers details.

THE ADAPTIX™ WAY

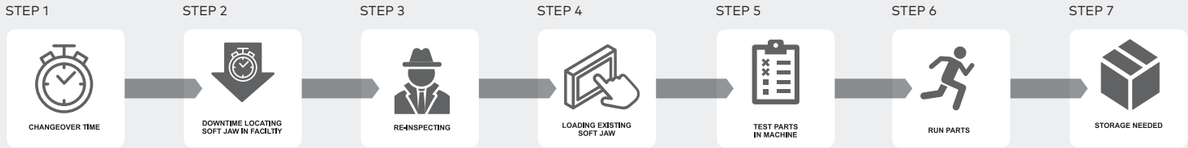


OR

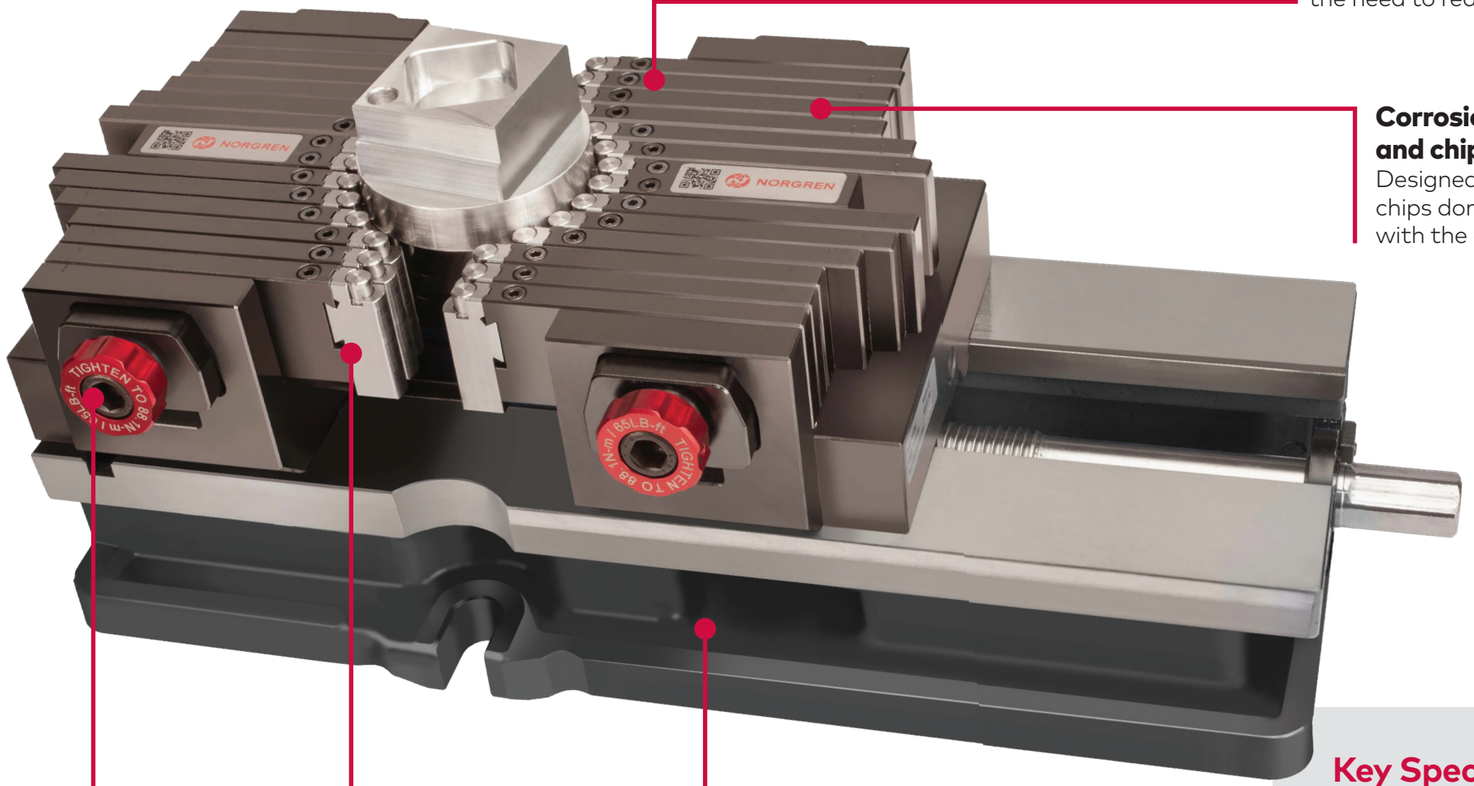
THE OLD WAY

CREATE NEW SOFT JAW

USE EXISTING SOFT JAW



Welcome to the Future of CNC Workholding



Lockable fingers
Allows for repeat part manufacturing by opening/ closing vise jaws without the need to readjust.

Corrosion-resistant and chip deflection
Designed so fluids and chips don't interfere with the operation.

Superior accuracy and repeatability
Adjustable fingers lock in place, providing a rigid work-hold with the same necessary force as a traditional soft jaw.

Replaceable studs
Available in multiple materials (aluminum, steel, plastic, brass, etc.), step profiles, shapes and edges to provide gripping flexibility.

Couples directly to the vise
Replaces existing vise jaws and integrates directly onto the vise to ensure maximum performance and accuracy.

It's about Time Savings...

	Soft Jaw	Adaptix
Order blanks & design soft jaw:	40 mins	0 mins
Program CNC:	15 mins	0 mins
Remove and store jaw:	10 mins	0 mins
Setup / cut / configure:	30 mins	5 mins
Inspect, Q&A soft jaw:	10 mins	5 mins
Test parts in machine (run 1st part):	10 mins	10 mins
TOTAL AVERAGE TIME SPENT	**1 HR 55 mins**	**20 MINUTES**

Average Time
Saved with Adaptix
per setup:
1 HOUR 35 MIN

Key Specifications

Repeatability
0.001"

Max Clamping Force
7000 lbs.

Max Finger Stroke
1"

Dimensions & Weight
Kurt version
Height: 3.07"
Width: 8.27"
Length: 4.02"
Weight: 18 lbs per jaw

Fingers
Height: 1.57"
Thickness: 0.39"
Stroke: 0.98"

Materials & Options
Housing: Machined AISI 4000 Alloy Steel
Fingers: Machined AISI 4000 Alloy Steel
AISI 4000 components use Nitride Coating

Features

Instant Setup
Configure in minutes and reset in seconds

Eliminate Storage
Gone is the need for soft jaw or fixture storage

Interchangeable Pin Tips
Select ideal pin tip material, step profile and shape based on what's being gripped

Vise Compatibility
Works with common vise manufacturers

Field Repairable
Easily replace pins/studs on your own

Durable Construction
Withstands harsh conditions of machine tool interiors

Dedicated Support
Experts available to answer any questions at a moment's notice

Replaceable Fingertips.

A World Of Options.

With a wide variety of materials, step profiles and shapes, our state-of-the art fingertips provide endless gripping flexibility for any part geometry.

Don't see a solution that you need? Contact us today:
workholding@norgren.com

1

Step 1: Choose Parallel/Step Height

- 3mm
- 6mm
- 10mm
- 12mm (future)
- 18mm (future)

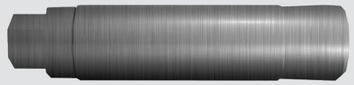
Our fingertips replace existing parallels. Users can continue to use their own parallel, if desired.

2

Step 2: Choose Stud Material

Aluminum
- If very concerned about marking the inserted part
- Use for clamping soft materials
- Shortest lifespan

Alloy (Soft) Steel
- General purpose clamping material
- Medium lifespan



Hard Steel
- Use for hardest or tool steel materials
- Longest lifespan

Brass (future)

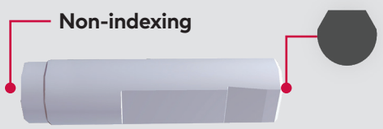
Plastic (future)

Stainless Steel (future)

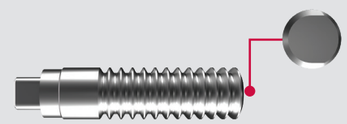
3

Step 3: Choose Stud Profile

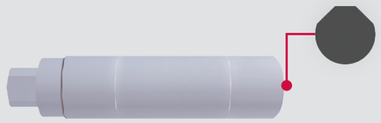
Round
- Full round profile
- Single point of contact with part



Free Rotating
- Free rotation to contact part



Serrated (future)
- High hold, bites into part
- Ideal for castings or rough surfaces



Multi-flat (future)
- Flat profile and +/- 45°
- Conforms to flat surfaces on part at multiple part angles

Default stud will likely be round, hard steel, 6mm step. Undercut resists rejection.

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.

For information on all Norgren companies visit

www.norgren.com

Supported by distributors worldwide.

For further information, scan this QR code or visit
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