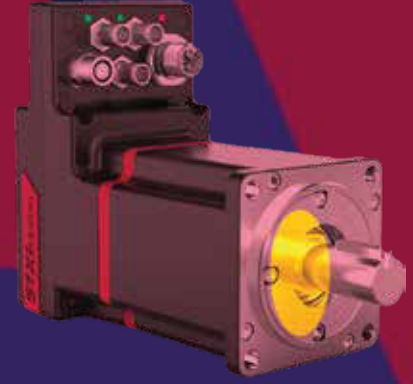
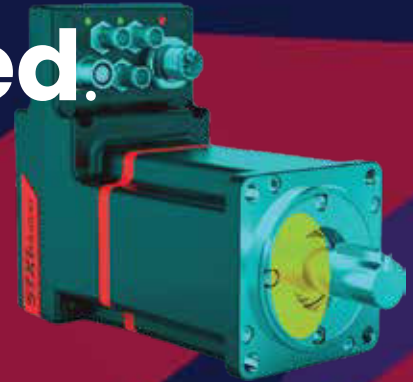
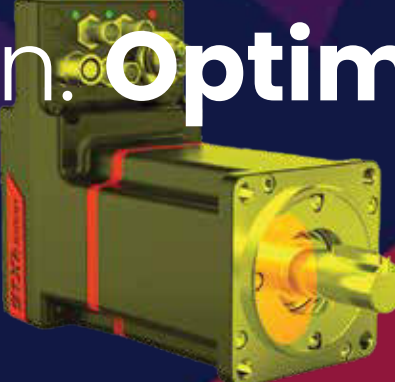
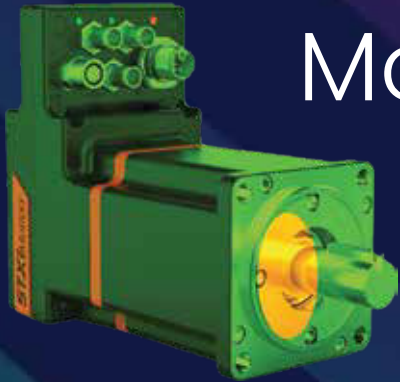


# ***STXi*** Motion

Motion. **Optimized.**



# Our Journey Towards a Motion Powerhouse

Combining unmatched industry knowhow and 35 years of experience with the most innovative and efficient technologies, we offer optimized motion control solutions integrated and connected to your machine. From Controller to Encoder, our portfolio includes smart, flexible, and cost-effective motion solutions, precisely designed for peak performance, seamless integration, and optimal efficiency.

1987

Servotronix Motion Control is founded by Dr. Ilan Cohen and a group of his student.

2010

Following an MBO, Servotronix unveils its own disruptive portfolio - from controller to encoder - and becomes the key motion partner of industry-leading machine builders and OEMs.



1995

Servotronix is a center of excellence for standard and custom electronics, as part of Kollmorgen and Danaher Motion.

2017

Strategic alliance with Midea; Servotronix further enhances its motion and robotic control solutions.

# STXiMotion

2019

STXI Motion is established as an independent global company, rapidly becoming a nerve center for the design and production of optimized motion solutions.

2021

Own production line for integrated drive-motors, ISO-9001-2015 certified.



2020



With COVID-19, new low voltage product lines were initiated in rapid development processes, to suit the exponentially growing segment of Intralogistics and mobile robotics.

2022 >>>>>>

Successful implementation and ramp up of STXI's flagship mobiMS mobile motion system for leading AGV/ AMR manufacturers, along with new product development of low voltage and integrated motion solutions for decentralized machine architecture.

”

Our goal is to allow machine builders and industrial automation providers to focus on their products, minus the headaches.

”



# Complete Motion Systems. Peak Performance.

## MOTION & ROBOT CONTROLLERS

### softMC 301

1 - 6 Interpolated Axes  
CPU: ARM iMX6



### softMC 703

1 - 64 Interpolated Axes  
CPU: Intel® Atom dual-core



## SERVO DRIVES



### Low Voltage Servo Drives

Current (cont./peak): 15/100 A rms  
Voltage: 24-48 VDC



### RAYON

#### Embedded Modules

Current (cont./peak): 12.5/40 A rms  
Voltage: 48 VDC



### RAYON

#### Harsh Environment Drives

Current (cont./peak): 55/750 A rms  
Voltage: 24-48 VDC



### Low Voltage Servo Drives

Current (cont./peak): 3/30 A rms  
Voltage: 20-90 VDC



### Medium/High Voltage Servo Drives

Current (cont./peak): 1.5-138 Arms  
Voltage: 120/240 VAC ; 400/480 VAC



## SERVO MOTORS



### **servPM**

#### Low Voltage Servo Motors

Flange size: 60 mm, 80 mm  
Power: 200-800 W  
Rated torque: 0.64-2.55 Nm  
Peak torque: 1.92-7.6 Nm  
Rated speed: 3,000 rpm  
Max speed: 5,400 rpm  
Voltage: 48 VDC

### **mobiGM**

#### Low Voltage Gearmotors

Power: 200 W, 400 W, 500 W, 900 W  
Peak torque: Up to 120 Nm  
Voltage: 24-48 VDC  
Wheel size: 150-200 mm



### **PRHDE**

#### Medium/High Voltage Servo Motors

Power: 50 W - 7.5 kW  
Rated torque: 0.2-48 Nm  
Peak torque: 0.56-120 Nm  
Rated speed: 1,500 - 3,000 rpm  
Max speed: 3,000 - 6,000 rpm  
Voltage: 230-400 VAC



## INTEGRATED MOTORS

### **stepIM**

#### Integrated Stepper Motors

Frame size (NEMA): 17, 23, 34  
Holding torque: 0.35-7.70 Nm  
Voltage: 14-75 VDC



### **servIM**

#### Integrated Servo Motors

Frame size: 60 mm, 80 mm  
Rated torque: 0.64-2.55 Nm  
Rated speed: 3,000 rpm  
Voltage: 24-60 VDC



## In Perfect Motion

Through our dominant partnerships, we are committed to creating innovative systems and solutions that are perfectly paired with renowned industry benchmark products of leading motion manufacturers.



# Cabinet-Free Motion.

## Optimal Efficiency.

Our extensive line of integrated drive-motors for decentralized machine architecture enhances machine performance while reducing overall production costs. Designed for maximum efficiency, our integrated stepper and servo motors allow machine builders to gain design flexibility and machine modularity, while also offering shorter build cycles and a reduced footprint.

### 1 Modular Machine Design

Add or remove modules easily.

### 2 Persice Movement Technology

Replacing old technologies (pneumatic, DC).

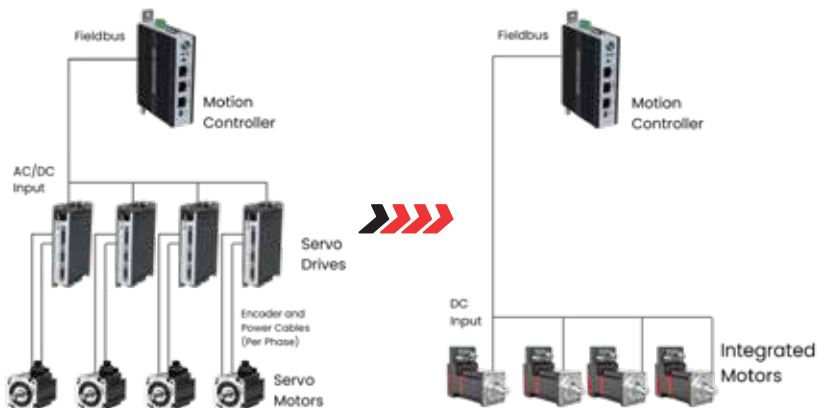
### 3 More Design Freedom

No constraints of a bulky cabinet.

### 4 Cost Effective

Shorter built-time.  
Fewer components.  
Less maintenance.  
Trim overall costs.

## From Centralized to Decentralized Motion



### 5 Immediate Feedback

Closed technology provides constant automatic feedback.



# Solutions that Drive Our Customers Forward

## Edgebanding Machines

stepIM integrated closed-loop steppers replaced DC motors in one of the world's leading manufacturers of edgebanding machines in the woodworking and furniture industry. The edgebanders, deploying 12-30 axes each, now achieve a higher speed at an improved cost-efficiency. The integrated motors were designed to be fully compatible with the existing machine, including a fitted heatsink and connectors design, reducing the build cycle and maintenance.

Higher speed.  
Full compatibility.



Improved accuracy.  
Shorter production time.

## Dynamic Checkweighers

stepIM integrated closed-loop steppers fully removed the control cabinets and reduced the machine's overall size, replacing large asynchronous motors. The client was able to significantly improve the machine's velocity accuracy and overall efficiency while shortening the production time, simplifying the build cycle and minimizing the machine's footprint due to fewer cables and components.



**BIZERBA**

# AGV/AMR Drive System.

Simply Smarter.

Our industry-leading mobile wheel-drive system. Carefully designed all-in-one, ready-to-use solution. Optimized for the requirements of automated guided vehicles and autonomous mobile robots. Includes a brushless servo motor with a planetary gearbox, a spring-loaded brake, an encoder, and the servSD servo drive - all wrapped up in one compact, robust package.

## 1 **Compact design. Compact cost.**

Integrated design simplifies cabling and leaves more space for other components at a fraction of the price

## 2 **Robust design for mobile applications**

Strong output bearings and a shock and vibration proof servo system

## 3 **Safe Operation**

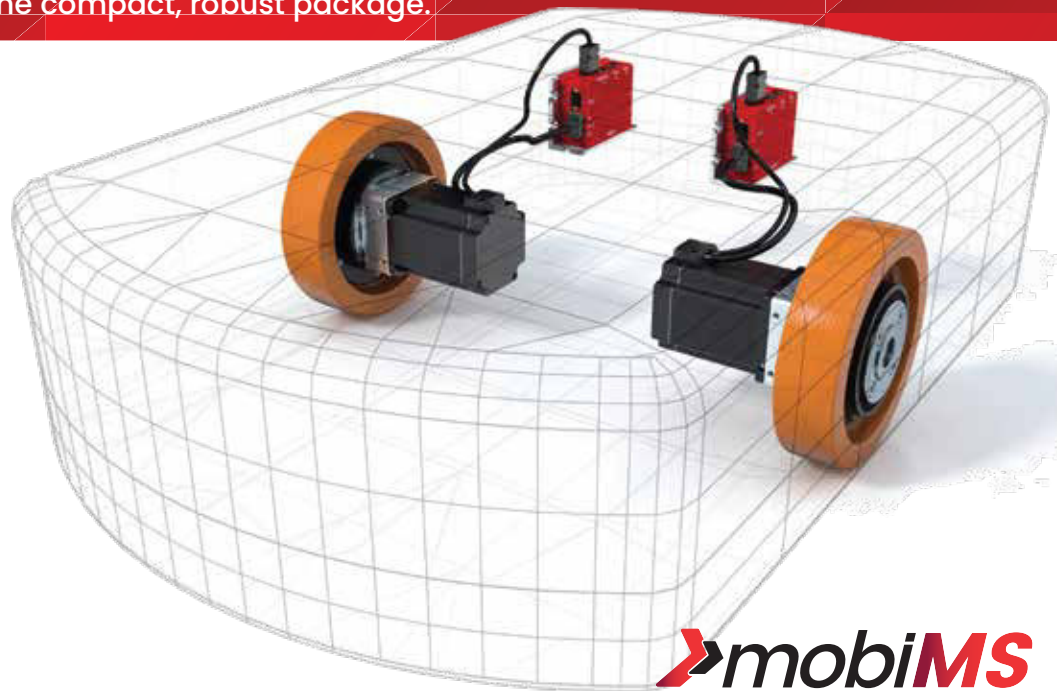
STO function and connectivity to PLC or modular safety controller

## 4 **Smooth Running**

Accurate speed and position control at extremely low/high speed levels

## 5 **Low Energy Consumption**

Low energy consumption minimizes the recharging cycle and increases the mobility range



**mobIMS**



# Solutions that Drive Our Customers Forward

## Goods-to-Person Robots

Decentralized motion solutions for the traction and auxiliary axes of both lift and cart robots, used in goods-to-person order fulfillment. The specific design of the mechanical interfaces facilitated a seamless integration process. In addition, the robust wheel-drive system is tolerant to the high shock and vibration caused when driving over bumps and uneven flooring.



Decentral architecture  
and durability



Compact + robust =  
The perfect match.



SAFELOG

## Mobile Transport Robots

Sturdy wheel-drive motion system with high power density. Suitable for operation in harsh environments and on rough floor surfaces. The optimized servo motor with planetary gear enables a high starting torque and smooth operation over a wide speed range.

# Engineering. Made Better.

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## Actuation Solutions

Integrated motors + gearbox or actuator + brake = the perfect combo.

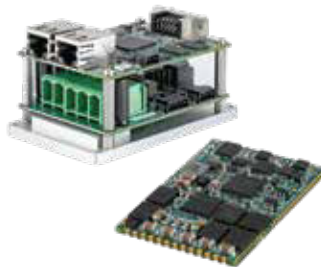
An end-to-end solution, providing a complete integrated axis. One part number, one owner, for a fully functional actuation solution.



## Custom Electronics

Extensive engineering knowhow + field-proven software and hardware building blocks = fast development of the ideal solution for your motion challenges.

From slight modifications to full customization, we will integrate any peripheral functionalities required to simplify and optimize your design.



## Linear Motion Systems

Linear motors and stages + CDHD2 drives + softMC motion controller = complete cartesian system.

A fully integrated plug & play system with performance-matched components and advanced linear control algorithms for optimized throughput and accuracy.





# Your Ideal **Motion Partner.**

01

## Your Partner from Day 1

Supporting our customers in converting their motion needs to optimized product specifications.

02

## Market-Driven Solutions

Product development based on market forecasts, creating segment-optimized solutions.

03

## Industry Know-How

Unmatched industry know-how to simplify and optimize your design.

04

## Extensive Global Network

A deep-rooted global network of partners puts us at the forefront of the global industry.

05

## Sourcing Capabilities

Strategic partnerships with key component providers to ensure alternating resources when needed.

06

## Fast Time to Market

Fast modification and adaptation to our customers' needs based on field-proven software and hardware building blocks.

07

## Built to Scale

Flexible and localized production lines allow our customers to scale with ease.

08

## Product Lifetime Support

Guaranteed lifetime support and production of your product, making sure your machine can be manufactured for decades to come.

Trusted motion partner of



STÄUBLI



Brooks



Universal

BIZERBA

CINCINNATI

SAFELOG

CAJA

KARL MAYER



FABRIC

# ***STXi***Motion

stxim.com

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