

# Our Products... Your Advantage

Innovative Solutions From Lenze - AC Tech



- AC Variable Frequency Drives
- Electro Mechanical Drives
- Servo Drives & Motors
- Machine Automation
- Clutches & Brakes

**Lenze**  
**AC Tech**

## Commitment to Value

Price leadership is serious business. It takes continuous life cycle management to make price leadership a sustainable strategy. We are always investigating techniques to improve efficiency and take advantage of the latest microprocessor and power module technology. When we achieve efficiency gains or material cost reductions, we pass those savings on to our customers. This simple philosophy has permitted us to build and maintain a very loyal customer base.

## Commitment to Quality

At Lenze – AC Tech we believe so strongly in the quality of our products, that every Lenze-AC Tech product is backed with a two-year warranty. From the use of superior materials to process improvements through automation, each drive is built to out perform our own strict quality standards. And we support our products with expert training, knowledgeable sales representatives and experienced repair personnel.

## Commitment to Innovation

We pride ourselves on delivering products to the market that are designed to meet specific customer needs. Our broad portfolio of innovative products covers very simple variable speed applications through complex motion control. Each product is positioned so that our customers pay only for the level of technology necessary for their particular application.

## Commitment to Simplicity

One of the cornerstones of our design philosophy is to make our products simple to use. Technology only benefits the user if it can be easily understood and applied. Each product is designed to dramatically simplify installation, commissioning and operation for our customers.

## Commitment to Performance

Each Lenze - AC Tech product is in a class by itself when it comes to performance. We are not satisfied with average performance. Our products do not reach the marketplace unless they outperform our competitors and exceed our strict performance requirements. By using the most innovative components, we are able to provide that performance for a great value.

## Our Promise

At Lenze - AC Tech it is not good enough to deliver part of a promise. Our products deliver the entire package: Price Leadership, Quality, Innovation, Simplicity and Performance.



**Lenze – AC Tech** develops, manufactures, sells and supports a complete range of motion management products. Our portfolio includes general purpose variable frequency drives, an innovative servo amplifier line, sophisticated servo automation systems and robustly engineered gear motors and mechanical components.

**Lenze – AC Tech** is part of the Lenze AG group that has over 60 years of motion management history and employs over 3000 people worldwide. Combining forces has positioned us as leaders in global automation allowing us to influence and direct motion management on a grand scale.



## 24-Hour Worldwide Support

Our 800-217-9100 technical support line connects you with someone who can answer your questions; any day of the week; any time of the day.

## Two Year Warranty

Every Lenze-AC Tech product is backed with a 2-year warranty.

## Custom Products

Getting something custom built is just as easy as ordering off-the-shelf product, and you won't pay an arm and a leg for it.

## Inventory

Our large inventory of most models allows you to get the product you need, same day.

## [www.Lenze-ACTech.com](http://www.Lenze-ACTech.com)

All the information you desire is available on our website. Easily navigate through the site and find training classes, product manuals, software downloads, catalogs and more.



We provide solutions that **improve machine performance.**

Whether you desire a best-in-class component or a complete bundled solution, we specialize in servicing many industries including:

- Packaging
- Material Handling
- Conveyers
- Pumps and Fans
- HVAC
- Robotics
- Printing
- Electronics Manufacturing
- Lab Automation
- Automotive Processes



## VFDs

## Servo Drives and Motors

Best in Class Components

From price to performance, Lenze – AC Tech offers you the broadest range of products for the best value.

*The most comprehensive line of VFDs.*



- Universal Power Input
- V/Hz to Vector Performance
- Industrial Grade Enclosures
- Mainstream Protocols

*Innovative servo drives and motors.*

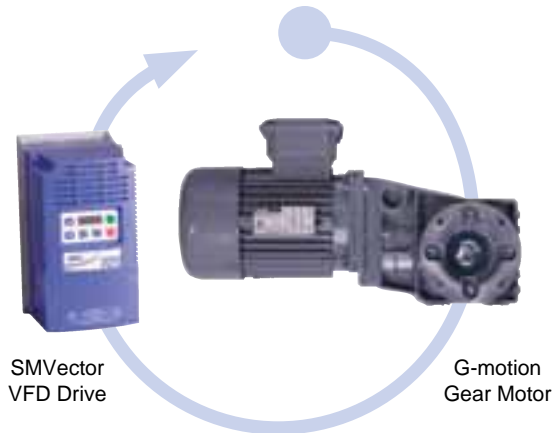


- Universal Power Input
- Torque, Velocity and Position Control
- Multiple Communication Options
- MotionView OnBoard

Bundled Solutions

Take the headache out of putting your components together. Ensure optimum performance when you combine Lenze – AC Tech drives with Lenze – AC Tech motors.

### SMV Bundled Solution VFD with Asynchronous Motor



Automation Solutions

A true automation system. As applications become more complex, L-force is the solution that manages all drive and automation functions from one central location.



## Gearmotors

## Clutch Brakes

## Software

*Highest quality of geared motors.*



- Higher Torque, Compact Designs
- Modular Construction
- Highly Efficient Design for Low Noise and Reduced Energy Consumption

*Electromagnetic and spring applied clutches and brakes.*



- Spring Operated Brakes
- Clutches and Brakes
- Multiple Sizes and Voltage Options

*MotionView<sup>®</sup> OnBoard*

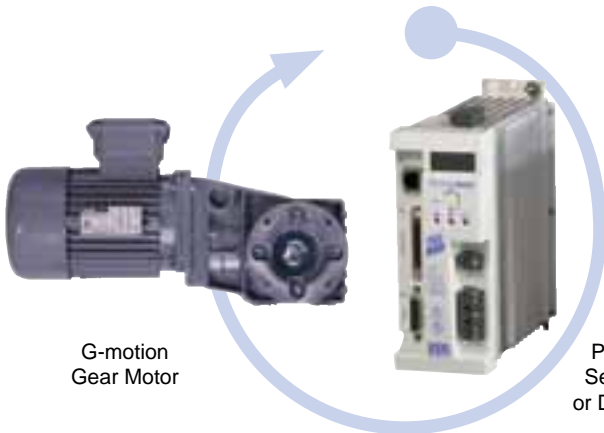


- Innovative embedded software for PositionServo drive
- No need for software CDs or revision control
- The software is always there when you need it

## Servo Bundled Solutions

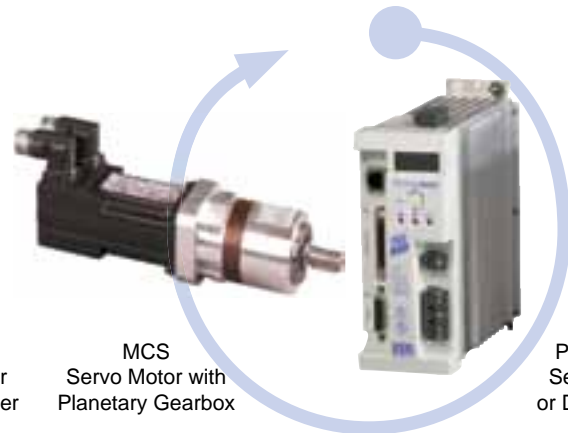
Servo with Asynchronous Motor

Servo with Synchronous Motor



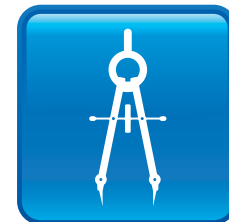
G-motion Gear Motor

PositionServo Servo Amplifier or Drive/controller



MCS Servo Motor with Planetary Gearbox

PositionServo Servo Amplifier or Drive/controller



When looking for a true system solution, our engineers will partner with you every step of the way. Contact Lenze-AC Tech today to start your next project.

# AC Variable Frequency Drives

Variable frequency inverters are used for electronic speed control of AC induction motors. Today frequency inverters are being used in applications ranging from replacing DC motor controls and soft starts to applications requiring sophisticated auto-tuning, fast dynamic torque response and low speed performance.

We offer a broad range of standard products for everything from simple to complex speed control; each being reliable, easy to commission and meeting the highest standards of quality.

## SMVector Series



## Sub Micro Series



## MC (Micro) Series



<b>Operation Modes</b>	V/Hz (constant or variable) Enhanced V/Hz w/auto tuning Open loop flux vector (speed or torque)	V/Hz (constant or variable) Enhanced V/Hz w/auto tuning	V/Hz (constant or variable)
<b>Communication Options</b>	RS-485 (Modbus, Lecom) CANopen DeviceNet PROFIBUS	RS-485 (Modbus) DeviceNet	RS-485 (Modbus) Metasys N2 BACnet Siemens P1 LON Works
<b>Enclosures</b>	NEMA1 (IP31) NEMA 4X (IP65)	IP20	NEMA1 (IP31) NEMA 4/4X (IP65) NEMA 12 (IP54)
<b>Stainless Steel Option</b>	NO	NO	YES
<b>Additional I/O Options</b>	YES	YES	YES
<b>1000 Hz Output Option</b>	YES	YES	YES
<b>PLC Functionality</b>	YES	YES	NO
<b>Keypad Commissioning and Maintenance</b>	YES	YES	YES
<b>Removable Keypad</b>	YES	YES	YES
<b>FREE PC Software for Setup and Maintenance</b>	YES	YES	YES
<b>EPM</b>	YES	YES	NO

## EPM & EPM Programmer - OEM Magic

All SMV, Sub Micro and PositionServo Series products offer OEMs the benefits of the EPM, a unique rugged memory chip that plugs directly into the drive, cutting programming time to minutes. An EPM programmer allows drive parameters to be instantly copied onto the chip. Once plugged into the drive, the EPM ensures the drive is ready to run with virtually no margin of error.

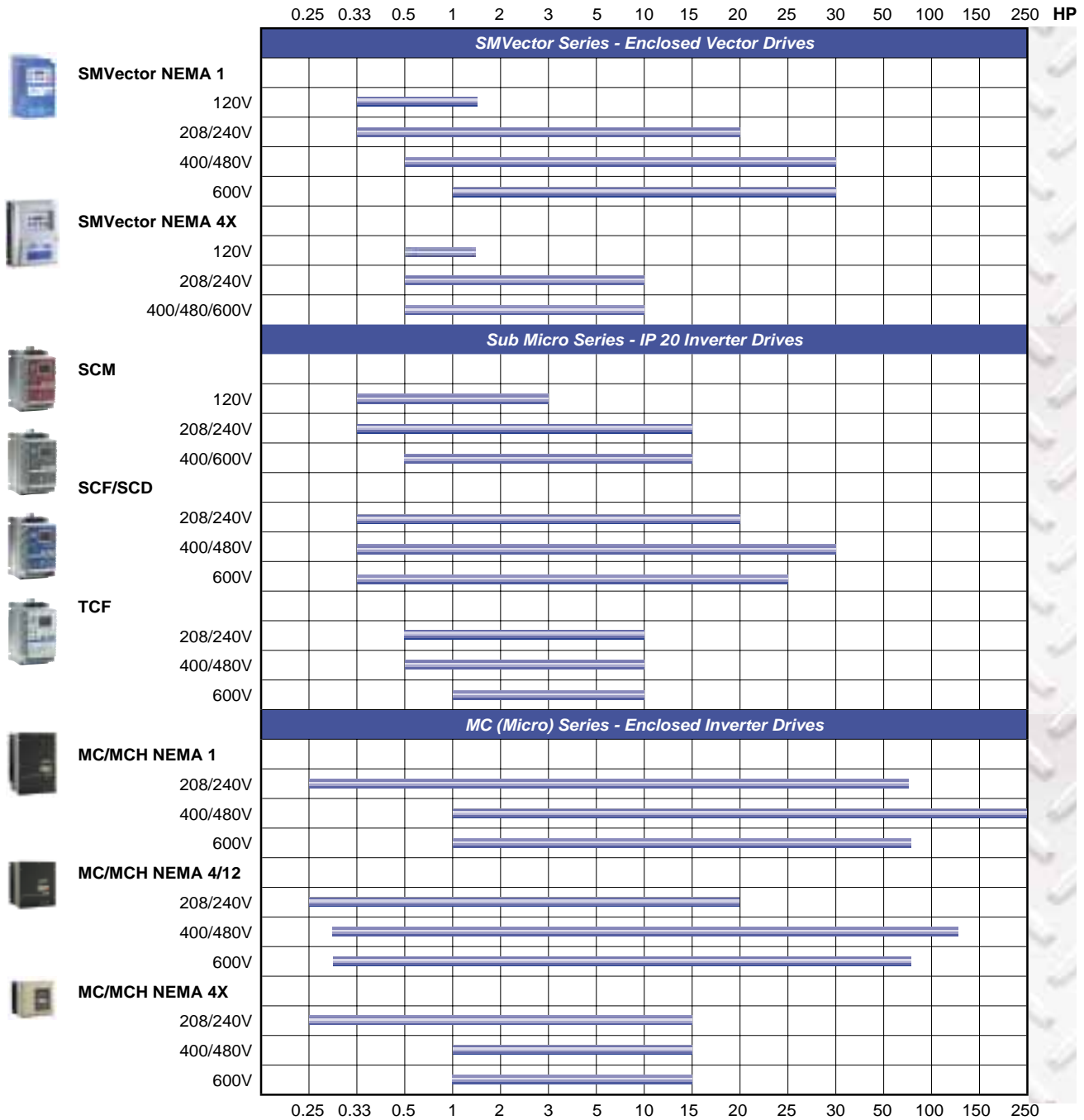


EPM Module



EPM Programmer

## Flexible Power Ranges



## Choosing the Right VFD!

### SMVector

Vector performance at a V/Hz price. SMVector is the right choice when looking for unparalleled performance with an intuitive user interface.

### Sub Micro

The perfect IP20 solution to replace your mechanical variable speed, DC control or eddy-current drives.

### Micro

An intelligent, versatile choice for harsh environments. Specify your next HVAC system (fan and blowers, centrifugal pumps, cooling towers) with confidence.

# Servo Drives and Motors

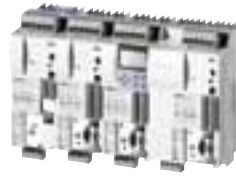
Bridging the gap between ease-of-use and high performance, our servo solutions can provide basic servo control in an easy-to-use package for the novice right on up to sophisticated machine control.

We're here to help you every step of the way from sizing and selection to start-up and programming assistance.

## PositionServo



## ECS Servo



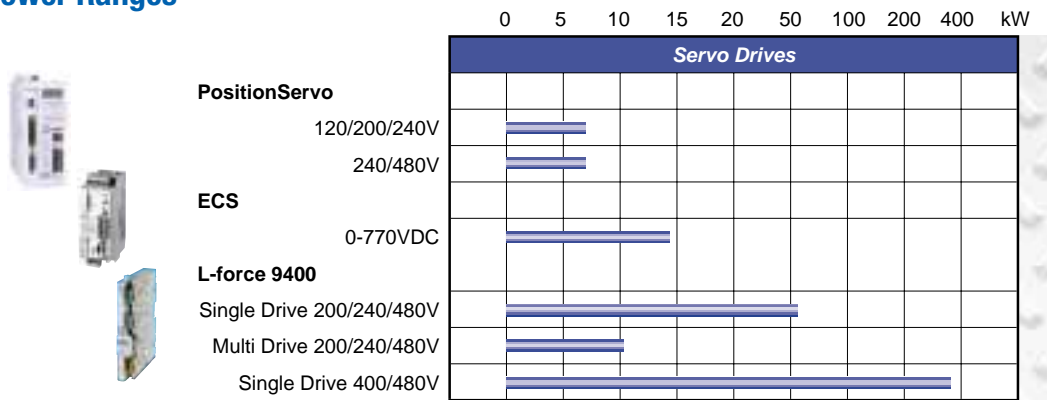
## 9400 L-Force Automation



<b>Control</b>	Velocity Torque Position Control Electronic Gearing	Velocity Torque Position Control Electronic Gearing <b>CAM/Winding</b>	Velocity Torque Position Control Electronic Gearing <b>CAM/Winding</b>
<b>Power</b>	120-480 VAC Input, Up to 7.5 kW Output	0-770 VDC Input, Up to 14 kW Output	200-480 VAC Input, Up to 350 kW Output
<b>Communication Options</b>	<b>Ethernet TCP/IP Modbus Ethernet IP</b> RS-485 Modbus DeviceNet CANopen PROFIBUS DP	DeviceNet CANopen PROFIBUS DP Lecom - A/B (RS232) Interbus <b>Powerlink</b> <b>Lenze Systembus (CAN)</b>	Ethernet TCP/IP <b>EtherCAT</b> PROFIBUS CANopen <b>PowerLink</b> <b>ProfiNet</b> <b>Lenze Systembus (CAN)</b>
<b>Feedback</b>	Encoder Resolver	Encoder Resolver	Encoder Resolver
<b>Inputs/Outputs Onboard</b>	12 Digital Inputs 5 Digital Outputs 2 Analog Inputs 1 Analog Output	4 Digital Inputs 1 Digital Output 1 Analog Input  CAN Network for additional I/O	Stateline/Highline 4/8 Digital Inputs 1/4 Digital Inputs 0/2 Analog Outputs 0/2 Analog Outputs CAN Network for additional I/O
<b>EN954-1 Safety Compliance</b>	YES Category 3	YES Category 3	YES Category 3 and 4
<b>Removable Keypad</b>	NO	YES	YES
<b>EPM</b>	YES	NO	NO
<b>FREE PC Setup and Programming Software</b>	YES MotionView OnBoard	Basic Functionality GDC	Basic Functionality L-force
<b>Application Specific Optimal Software Solutions</b>	NO	YES	YES
<b>FREE Sizing Software</b>	YES MotionMatch	NO	NO

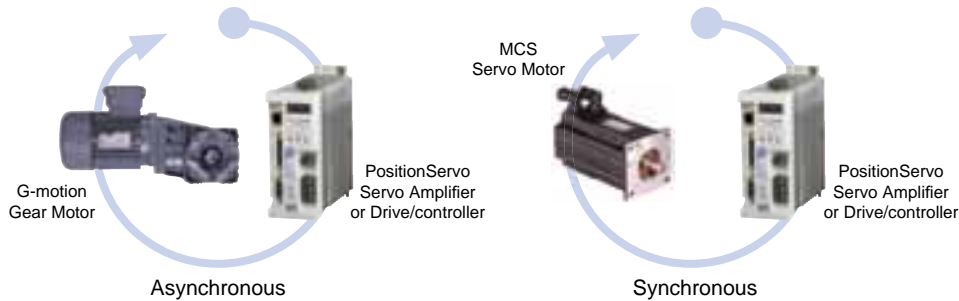


## Flexible Power Ranges



## Bundled Servo Solutions

Asynchronous (Inverter) and Synchronous (Servo)



Take the headache out of putting it all together:  
All of Lenze - AC Tech servos can be easily paired with Lenze - AC Tech servo motors.

## SERVO + CABLE + MOTOR = COMPLETE SOLUTION

### MCS and MAS Servo Motors



#### MCS

- Up to 5 kW
- 240/480 VAC Input
- Resolver or Encoder Feedback
- Up to 8500 RPM
- Intercontec Connectors
- Optional Gearing Available

#### MAS

- Up to 1 kW
- 120/240 VAC Input
- Encoder Feedback
- Up to 4500 RPM
- Economical, Flying Leads

## Choose the Right Servo!

### PositionServo

Simple, yet sophisticated, the PositionServo can tackle most applications with ease. With multiple communication options and the latest Ethernet technology, the PositionServo should solve most applications.

### ECS

When you need to operate with DC voltage or coordinate multiple axes the ECS is the drive for you. It is optimized for highly dynamic multi-axis applications, such as those required in handling devices or packaging machines.

### L-force

Known for innovative modularity and extremely high power, the 9400 can tackle the most difficult machine operations. Many safety standards are built-in to offer total machine control.



## G-Motion Innovative Geared Motors

Rugged and versatile, G-Motion geared motors cover all standard gearbox designs and provide multiple input and output options for maximum user flexibility. The wide range of gearbox ratios makes it possible to obtain even the most exacting of machine specifications.

### G-Motion

- 0.06 – 45kW (0.08 - 60HP) power
- Space-saving designs
- Wide range of speed ratios
- Multiple input and output options
- 2-year warranty

### Gearbox Types:

- Helical gearboxes
- Shaft-mounted helical gearboxes
- Bevel gearboxes
- Helical-bevel gearboxes
- Helical-worm gearboxes
- Servo planetary gearboxes



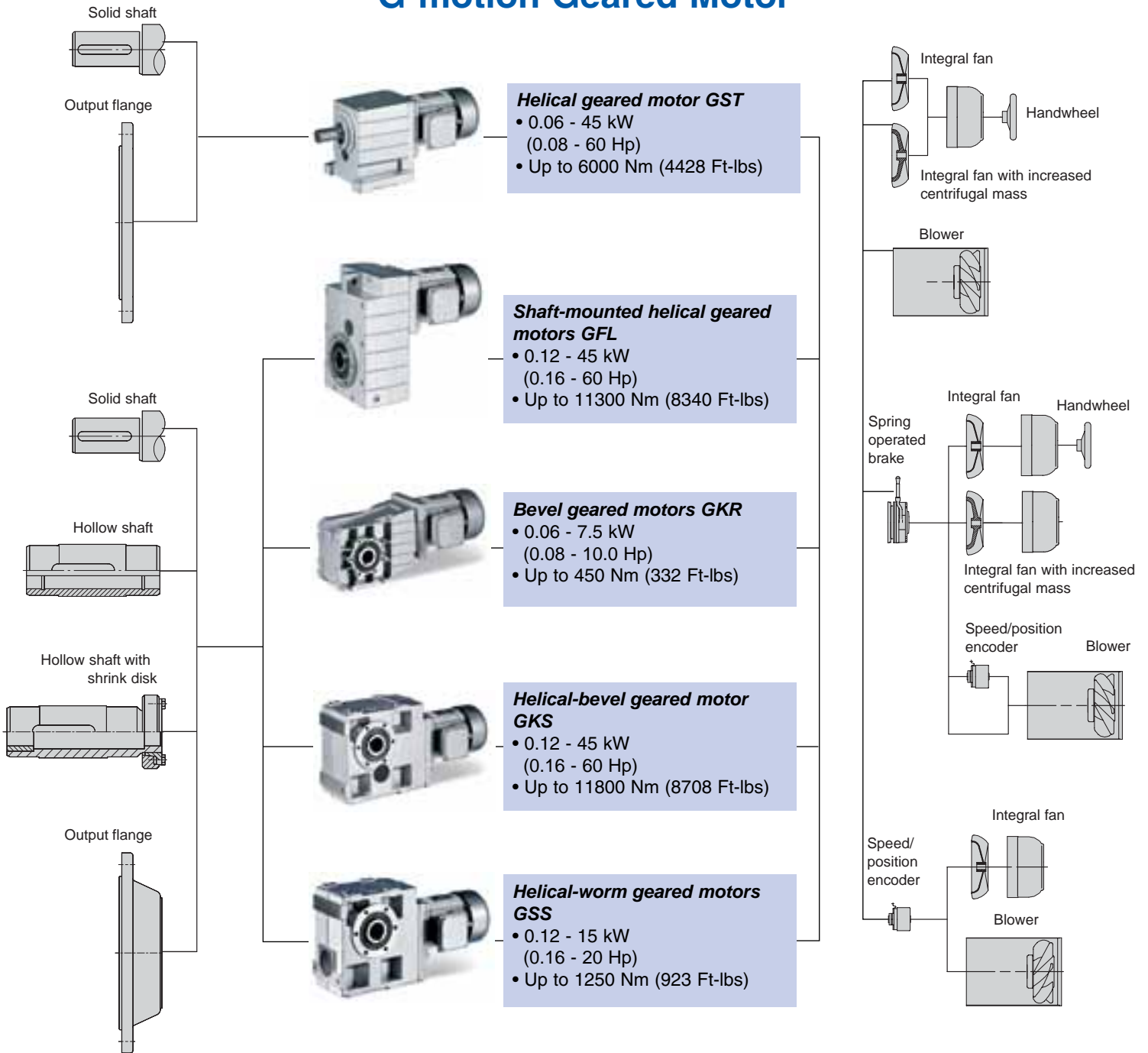
## A System Solution

Pair your G-Motion geared motor with any of the Lenze-AC Tech Servo or VFD drives for the ultimate in system dynamic performance, positioning accuracy and robustness.

## Output Options

## G-motion Geared Motor

## Input Options



## G-Motion Construction

**MODULAR:** You will scarcely notice a G-Motion gear motor in operation. Whether in a construction crane or home elevator system – the unparalleled ability of our gears to adapt to the machine parameters produces impressively little noise output. This is made possible by a modular gearbox system.

**SPACE SAVING:** Virtually everything you could want in a gearbox system, G-Motion's space-saving designs offer optimized profiles of the gear teeth and ground gears providing low noise operation and low backlash.

**EFFICIENT:** Standard G-motion motors are designed to conform to IP55 and satisfy the requirements for efficiency class EFF 2. Insulation to thermal class F (usage in accordance with class B) and the integral temperature sensors mean the motors are ideally suited to frequency inverter operation.

**SUPERIOR:** G-motion geared motors renowned for their high quality standards, benefit your machines and systems throughout their entire life cycle.

# Worldwide Coverage | We're everywhere you are



*Positioning our Customers for Success. We take our Customer's requirements seriously. A new application is an opportunity to test, prove and expand our drive's capabilities while solving our Customer's motion control needs."*

*Customer Service has always been and will always be our number one commitment. Our success depends on it.*



*Driving design technology forward means we never stop thinking about process improvements. Did we deliver a quality product to market that meets the Customer's needs? That is the key.*



*Innovation takes art and skill to combine what's new and what's proven to produce a product with exceptional form, fit and function.*

**Industrial Drives and Controls... That's All We Do!**

**Lenze**  
**AC Tech**

**A Global Drives Company**

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