

# Global Centric Grippers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Centric Grippers market size is expected to reach \$ 1574 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032). From a functional perspective, the Centric Gripper is a standardized gripping unit that 'makes the geometric center of the workpiece a reference.' Its core value lies in solving the old problems of traditional two-finger parallel grippers, simple pneumatic grippers, and manual fixtures in scenarios such as 'inconsistent workpiece positioning references, asymmetrical gripping force directions, frequent size family switching, and unstable robot/machine tool loading and unloading cycles.' In situations such as loading and unloading of engine cylinder blocks/housings, press-fitting of motor stators and rotors, gear/gear ring handling, and automatic loading and unloading of 3C structural parts and precision turned parts, if manual placement or a self-made V-block + two-finger gripper combination is still relied upon, the gripping center often drifts, the gripping is unreliable, and the repeatability error 'increases' over time. This can affect cycle time and yield, or even cause machine tool collisions, workpieces flying out, or even injuries. Centric grippers, through the synchronous radial movement of three or more jaws at equal intervals, ensure that the clamping force always points towards the geometric center of the workpiece. This removes the 'centering' process from tooling design and on-site experience, transforming it into an optional, calculable standard module. This allows robots, gantry manipulators, and special-purpose machines to quickly change forms and reliably meet positioning accuracy and clamping force requirements when handling various types of round and near-rotary workpieces. It is one of the increasingly indispensable core end effectors in workstations handling 'any round or near-round part + automatic gripping.' In 2025, global sales of centeric grippers were approximately 830k units, with an average price of approximately US\$1,220 per unit and a gross profit margin of approximately 25%-33%. A centeric gripper is a type of mechanical/pneumatic/electric gripper that achieves 'centripetal clamping' through the

radial synchronous motion of three or more jaws. It typically consists of a body housing (aluminum alloy or steel), a wedge or curved cam drive mechanism, a radial slider and gripping jaws, guides and seals, a drive unit (cylinder, spring return, or built-in motor/servo module), position sensing, and mounting interface. Common parameters include: clamping diameter range of 5?150 mm (heavy-duty and special-purpose types can be extended to over 300 mm), single-jaw clamping force from tens of Newtons to thousands of Newtons, repeatability of positioning accuracy of 0.01?0.05 mm, stroke of 2?20 mm, protection rating of IP40?IP67, and a working life designed for 10 million cycles. In terms of typical usage: a typical automotive powertrain machining and assembly line is equipped with 80?250 centric grippers (distributed across machine tool loading/unloading, transfer, inspection, and clamping stations); a typical automatic motor stator/rotor assembly line commonly uses 20?80; and a flexible production line for 3C precision turning parts has a total of 30?60 grippers deployed across gantry robots, articulated robots, and measurement stations. The upstream mainly relies on alloy steel and aluminum alloy bars/forgings, hardened guides and sliders, needle/ball bearings and linear guides, seals and springs, and small cylinders or motor/encoder assemblies; the downstream focuses on robot and gantry robot system integrators, machine tool and automation line OEMs, automotive and motor/reducer manufacturers, and 3C and precision manufacturing companies.

#### Supply Situation

Upstream raw materials and key components mainly include: alloy structural steel, aluminum alloy, and high-strength cast iron billets for the grippers and body; carburized and quenched steel and precision-ground guide rails for wedges, sliders, and guides; high-precision needle/ball bearings and linear bearings; brushless motors, small planetary gearboxes, and magnetic encoders for electric/servo centric grippers; various NBR/FKM seals and wave springs; and proximity switches, travel sensors, and I/O modules for status detection. The combined costs of raw materials, machining/heat treatment/grinding, and assembly typically account for 58%?70% of the cost of a single centric gripper. Among these, the precision grinding of wedges and sliders, the procurement price of needle bearings and linear guides, and the cost of electric components such as motors/encoders have the greatest impact on the overall gross profit margin. Typical upstream suppliers include alloy steel and aluminum suppliers such as Thyssenkrupp and Alcoa, rolling bearing and linear bearing suppliers such as SKF and HIWIN, and proximity switches and sensors such as Omron. Their supply capabilities in materials, guidance, and sensing components directly define the performance boundaries of the centric gripper in terms of lifespan, rigidity, and sensing capability.

#### Manufacturer Features

SCHUNK, leveraging its long-standing expertise in robotic gripping and workpiece

clamping, maintains a high-end market share in the automotive and machine tool loading and unloading markets. Its three-jaw centric gripper series has almost become synonymous with a 'standard selection guide.' Festo, with its complete pneumatic and electric actuator platforms, enhances bonding strength in general factory automation and assembly line projects through integrated solutions combining grippers, cylinders/electric cylinders, and pneumatic/bus modules. ZIMMER GROUP possesses differentiated advantages in heavy-duty gripping and high-rigidity scenarios (such as machine tool loading and unloading, and forging/casting part handling). Its centric grippers with mechanical locking and monitoring modules have a high penetration rate in high-end equipment projects in Europe.

#### Example

In 2024, a European luxury brand's OEM, in its newly built electric drive powertrain plant's flexible machining and assembly line, had specific requirements for the end effector grippers used for loading and unloading motor housings, gear rings, and shaft-type parts. These grippers needed to cover a gripping diameter of 20-180 mm, a single-jaw static gripping force of no less than 1,500 N, a repeatability of  $\pm 0.03$  mm, resistance to oil and cutting fluid splashes, a design life of 15 million cycles, and reserved pneumatic/electrical interfaces to support workpiece arrival and misalignment detection. Some workstations required mechanical locking functions to prevent workpieces from falling in the event of robot power failure or air pressure drops. Ultimately, SHUNK provided heavy-duty centric grippers with mechanical holding capabilities for machine tool loading/unloading and intermediate transfer stations; ZIMMER GROUP provided several high-rigidity centric gripping modules for transport before and after roughing/finishing processes. The entire production line used over 180 Centric Grippers, with several models incorporated into the automaker's subsequent global electric drive factory platform standards.

#### Applications

Centric grippers are widely used in machining and assembly lines for automotive powertrain and chassis components (gripping round parts such as crankshafts, gears, housings, and flanges); loading and unloading of turning/grinding machine tools and flexible tooling in the general machinery and machine tool industries; automated assembly of shaft-type parts and rotating components in the 3C and small appliance industries; handling of bearings and motors/reducers; and gripping of round containers and workpieces requiring 'rapid centering' in warehousing/logistics and inspection stations. It is one of the most common standard end-effector modules in scenarios requiring 'rotating or near-rotating bodies + automatic gripping + repeatable positioning.' Typical downstream customers can be summarized across several dimensions: automotive and powertrain manufacturers (such as BMW), robotics and system integrators (such as ABB and KUKA), machine tool and flexible production line suppliers

(such as DMG MORI's automation division), leading 3C/electronics manufacturers (such as Foxconn), and comprehensive automation solution providers (such as Bosch Rexroth). These companies typically establish several series of center grippers as 'default options' in their enterprise-level standard parts libraries by signing platform-based supply agreements with gripper manufacturers and system integrators.

#### Breakthrough Direction

For centric gripper manufacturers, the breakthrough lies not in continuing the infighting over 'rated clamping force, stroke, and price,' but in focusing on three key areas: 'scenario, perception, and platform.' First, for core scenarios such as automotive electric drives, precision reducers, bearings, and high-end machine tool loading and unloading, centric grippers should be developed into 'workpiece family solutions' with standard jaw libraries, positioning blocks, and quick-change jaw systems. This single platform should cover an entire family of parts, significantly reducing the workload for OEMs and integrators in tooling and debugging. Second, differentiation should be achieved in perception and diagnostics. Through built-in/external sensors and torque models, information such as 'whether it's clamped, how much force it's clamped, and whether there's eccentricity' can be visualized. This, combined with PLC/robot controllers, creates preventative maintenance clamping nodes, convincing owners that 'one less machine tool collision and part drop equals the return on investment for several sets of high-end grippers.' Third, deep platform compatibility with mainstream robot/machine tool interface standards is crucial?through unified flange interfaces, integrated pneumatic and electrical quick-connect and signal modules, and standardized... CAD/simulation models and application templates allow integrators to lock in specific brands of centric grippers from their 'standard unit library,' shifting from selling individual hardware components to binding entire automated production line lifecycles.

#### Market Influencing Factors

The growth of the centric gripper market is directly driven by two factors. First, it is directly influenced by the global upgrade of manufacturing automation and the increase in robot installations. This includes new rounds of investment in powertrain and reducer production lines driven by automotive electrification, the construction of 'lights-out factories' in the 3C and precision component industries, and the continued promotion of retrofitting older machine tools with gantry/robot systems in Europe, Japan, and North America, all of which contribute to the robust demand for 'automatic loading/unloading + standard gripping modules.' Second, the penetration of collaborative robots and lightweight automation in SMEs is causing centric grippers, previously only seen in large OEMs, to begin appearing in more small and medium-sized processing plants and regional factories. In terms of cost and competition, price fluctuations in steel, aluminum, and high-precision guide components will periodically squeeze the gross profit of small and medium-sized manufacturers. Meanwhile, leading companies like

SCHUNK and ZIMMER GROUP, which control wedge assembly, life testing, and global distribution channels, can reduce costs and stabilize pricing for high-end projects through platform-based clamping systems and global service networks. At the same time, emerging suppliers from China and South Korea are rapidly penetrating the low-to-mid-end and regional markets with their cost-effectiveness and delivery time advantages, putting price pressure on traditional European and American brands. Overall, the centric gripper is at the intersection of three drivers: flexible automation of robots, machine tool loading and unloading upgrades, and the expansion of collaborative robots. In the medium to long term, it will maintain a medium-to-high-speed growth pattern. The high-end market will concentrate on a few brands that possess system simulation, clamping technology, and intelligent monitoring capabilities, while the low-to-mid-end and regional markets will see a long-term tug-of-war over cost, delivery, and supporting services.

This report studies the global Centric Grippers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Centric Grippers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Centric Grippers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Centric Grippers total production and demand, 2021-2032, (K Units)

Global Centric Grippers total production value, 2021-2032, (USD Million)

Global Centric Grippers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Centric Grippers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Centric Grippers domestic production, consumption, key domestic manufacturers and share

Global Centric Grippers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Centric Grippers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Centric Grippers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Centric Grippers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SCHUNK (Germany), Festo (Germany), ZIMMER

GROUP (Rheinau, Germany), DH-Robotics (Shenzhen, China), R?HM (Germany), IPR Robotics (Schwaigern, Germany), SMC (Japan), OnRobot (Odense, Denmark), Asutec (N?rtingen, Germany), Jookang Robotech (South Korea), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Centric Grippers market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Centric Grippers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Centric Grippers Market, Segmentation by Type:

3-Finger Centric Gripper

4-Finger Centric Gripper

### Global Centric Grippers Market, Segmentation by Stroke Per Jaw:

2.5 mm

4 mm

6 mm

8 mm

Others

### Global Centric Grippers Market, Segmentation by Gripping Force:

335 N

500 N

1000 N

Others

### Global Centric Grippers Market, Segmentation by Application:

Automotive Assembly

Robot Integration

Home Appliance Manufacturing

Others

### **Companies Profiled:**

SCHUNK (Germany)

Festo (Germany)

ZIMMER GROUP (Rheinau, Germany)

DH-Robotics (Shenzhen, China)

R?HM (Germany)

IPR Robotics (Schwaigern, Germany)

SMC (Japan)

OnRobot (Odense, Denmark)

Asutec (N?rtingen, Germany)

Jookang Robotech (South Korea)

PHD Inc. (USA)

Robotiq (Quebec, Canada)

Effecto (Italy)

Mindman (Taiwan)

IAI America (Los Angeles, USA)

HITBOT (Shenzhen, China)

Aotto Automation (Jinan, China)

### **Key Questions Answered:**

1. How big is the global Centric Grippers market?
2. What is the demand of the global Centric Grippers market?
3. What is the year over year growth of the global Centric Grippers market?
4. What is the production and production value of the global Centric Grippers market?
5. Who are the key producers in the global Centric Grippers market?

6. What are the growth factors driving the market demand?

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