
Jun. 2014
STUDY GOAL AND OBJECTIVES
This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES
◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.

◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.

◆ To complement the organizations’ internal competitor information gathering efforts with strategic analysis, data interpretation and insight.

◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.

◆ To help company to succeed in a competitive market, and

METHODOLOGY
Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES
The primary information sources include Company Reports, and National Bureau of Statistics of China etc.
Abstract

Speed reducer is one of three core parts of industrial robot, along with two others (drive and control device, servomotor), accounting for about 36% of the industrial robot's total cost.

China has made much progress in industrial robot in recent years, with sales volume for 2008-2013 registering a CAGR of 35.9%, well above the global average growth rate of 9.6%. Driven by the growing demand for industrial robot, China's total demand (including new demand and stock demand) for industrial robot speed reducer amounted to about 244,000 sets in 2013, and is estimated to reach 461,000 sets by 2016.

In spite of robust demand for industrial robot speed reducer in China, the production capacity here lags far behind that of Japan, the United State and Europe.

China now has no manufacturers that can provide mass-produced and reliable industrial robot speed reducers, and the market is almost completely dominated by international giants like Nabantesco, Harmonic Drive and Sumitomo Heavy Industries, of which Nabantesco is the world's largest robot RV reducer manufacturer with a market share of around 60%, and Harmonic Drive is the largest robot harmonic reducer producer in the world, holding a market share of 16%.

To satisfy the growing domestic demand and improve localization level of industrial robot speed reducer, a number of local Chinese companies have engaged in R&D, trial production and small scale production of industrial robot in recent years, such as Shaanxi Qinchuan Machinery Development Co., Ltd., Nantong Zhenkang Machinery Co., Ltd., Leader Harmonious Drive Systems Co., Ltd. and Shuaier Machinery Manufacturing Co., Ltd.

Shaanxi Qinchuan Machinery Development Co., Ltd.: In 2013, the company invested RMB 194 million to carry out 90,000 sets (Phase I) industrial robot joint reducer “technological upgrading” project construction, which is expected to reach designed capacity in 2015. The company has established robot joint reducer branch and concentrated its superior resources on implementation of the project.
Nantong Zhenkang Imp.& Exp. Co., Ltd.: In April 2012, the company’s robot ZKRV precision reducer passed the appraisal of Technological Achievement Evaluation Commission (experts from Xi’an Micromotor Research Institute, Beijing University of Technology, Xi’an Jiaotong University, Hangzhou Kaierda Robot Technology Co., Ltd., etc). The company has developed production capacity of 5000 sets of ZKRV reducer series (including five specifications, namely, 20, 40, 80, 110 and 160E) in early 2014.

Zhejiang Hengfengtai Reducer MFG. Co., Ltd.: The company began research on robot speed reducer in 2006, and had developed three categories and seven models of prototype reducers applicable to 165kg spot welding robot and 300kg conveying robot by the end of 2013.

Leader Harmonious Drive Systems Co., Ltd.: The company participated in compiling national standards - Robot Harmonic Gear Reducer, and harmonic gear reducer manufactured by the company has been adopted by SIASUN Robot & Automation Co., Ltd. and other companies. In April 2014, the company received investment from Principle Capital to advance the development of robot business.

Global and China Industrial Robot Speed Reducer Industry Report, 2013-2016 by ResearchInChina focuses on the following:
※ Supply & demand and major companies in global and China industrial robot market;
※ Status quo of global industrial robot speed reducer market and relevant manufacturers;
※ Supply & demand, major companies and development trend of China industrial robot market;
※ Operation and industrial robot speed reducer business of 5 global and 9 Chinese major companies.
Competitive Advantage of Major Industrial Robot Speed Reducer Manufacturers in China, 2013

- **Beijing CTKM Harmonic Drive**
  A leading harmonic drive reducer manufacturer in China, whose products have been used in aerospace (including “Shenzhou” spacecraft) and robots, etc.

- **SHKE**
  The company's core components of 6-DOF industrial robot and the technology of manufacturing harmonic reducers have taken the lead in China.

- **Tianjin Speed Reducer**
  The company has now completed the application and R&D of RV reducer in cooperation with SIASUN Robot.

- **绿的谐波**
  In April 2013, the company made an additional investment of RMB20 million to become a shareholder of Nabtesco, in an attempt to develop industrial robot reducer business.

- **恒丰泰**
  By independently developing the new-generation CORT gear reducers, the company has succeeded in domestic production of the "joints" of industrial robots.

- **泰川发展**
  The company has begun to produce robot reducers and has gained orders from overseas, with the annual output expected to reach 10,000 sets by 2014.

Source: Global and China Industrial Robot Speed Reducer Industry Report, 2013-2016, ResearchInChina
1. Overview of Industrial Robot Speed Reducer
   1.1 Definition and Classification
   1.2 Application
   1.3 Significance

2. Status Quo of Global and China Industrial Robot Industry
   2.1 Global Market
      2.1.1 Market Size
      2.1.2 Market Structure
      2.1.3 Application
      2.1.4 Major Companies
   2.2 Chinese Market
      2.2.1 Supply
      2.2.2 Demand
      2.2.3 Market Pattern
      2.2.4 Major Companies

3. Development of Global Industrial Robot Speed Reducer
   3.1 Market Status Quo
      3.1.1 Supply
      3.1.2 Demand
   3.2 Status Quo of Companies

4. Development of China Industrial Robot Speed Reducer
   4.1 Policy Environment
   4.2 Supply and Demand
      4.2.1 Supply
      4.2.2 Demand
   4.3 Status Quo of Companies

4.4 Influencing Factors and Development Trend

5. Major Global Industrial Robot Speed Reducer Companies
   5.1 Nabtesco
      5.1.1 Profile
      5.1.2 Operation
      5.1.3 Industrial Robot Speed Reducer Business
   5.2 Harmonic Drive
      5.2.1 Profile
      5.2.2 Operation
      5.2.3 Industrial Robot Speed Reducer Business
   5.3 Sumitomo Heavy Industries
      5.3.1 Profile
      5.3.2 Operation
      5.3.3 Industrial Robot Speed Reducer Business
   5.4 Spinea
      5.4.1 Profile
      5.4.2 Industrial Robot Speed Reducer Business
   5.5 SEJIN-iGB
      5.5.1 Profile
      5.5.2 Industrial Robot Speed Reducer Business

6. Major Chinese Industrial Robot Speed Reducer Companies
   6.1 Shaanxi Qinchuan Machinery Development Co., Ltd.
      6.1.1 Profile
      6.1.2 Operation
      6.1.3 Industrial Robot Speed Reducer Business
   6.2 Shanghai Mechanical & Electrical Industry Co., Ltd.

6.2.1 Profile
6.2.2 Operation
6.2.3 Industrial Robot Speed Reducer Business
6.3 Zhejiang Hengfengtai Reducer MFG. Co., Ltd.
   6.3.1 Profile
   6.3.2 Operation
   6.3.3 Industrial Robot Speed Reducer Business
   6.4 Nantong Zhenkang Imp.& Exp. Co., Ltd.
      6.4.1 Profile
      6.4.2 Operation
      6.4.3 Industrial Robot Speed Reducer Business
   6.5 Shuaikai Machinery Manufacturing Co., Ltd.
      6.5.1 Profile
      6.5.2 Operation
      6.5.3 Industrial Robot Speed Reducer Business
   6.6 Others
      6.6.1 Beijing Harmonic Drive Technology Institute
      6.6.2 Leader Harmonious Drive Systems Co., Ltd.
      6.6.3 Beijing CTKM Harmonic Drive Co., Ltd.
      6.6.4 Tianjin Speed Reducer Co., Ltd.

7. Summary and Forecast
   7.1 Market
   7.2 Companies
Selected Charts

- Industrial Robot RV Reducer
- Industrial Robot Harmonic Reducer
- Application of Speed Reducer in Industrial Robot
- Core Parts and Cost Structure of Industrial Robot
- Global Industrial Robot Sales Volume, 2008-2016E
- Global Industrial Robot Sales Volume by Region/Country, 2009-2013
- Global Industrial Robot Sales Volume by Application, 2010-2013
- Sales Volume of Industrial Robot in China, 2005-2013
- Cumulative Installations of Industrial Robot in China, 2005-2013
- Industrial Robot Density in Major Countries, 2012
- New Installations and Sales Volume of Industrial Robot in China, 2014-2016E
- Sales Volume Structure of Industrial Robot in China by Application, 2011-2014
- Sales Volume Structure of Industrial Robot in China by Product, 2012 & 2014
- Market Share of Main Manufacturers in China Industrial Robot Market, 2013
- Supporting Conditions of Major Global Industrial Robot Speed Reducer Manufacturers
- Global New and Cumulative Installations of Industrial Robot, 2010-2016E
- Global New Demands for Industrial Robot Speed Reducer, 2010-2016E
- Major Global Industrial Robot Speed Reducer Manufacturers and Market Share, 2013
- Policies Concerning Industrial Robot and Its Parts in China, 2010-2013
- Robot Speed Reducer Projects Proposed and Under Construction in China, 2014
- China’s New Installations of Industrial Robot, 2005-2016E
- New Demand for Industrial Robot Speed Reducer in China, 2005-2016E
- Demand for Speed Reducer from Industrial Robot Stocks, 2013-2016E
- Demand Structure of Industrial Robot Speed Reducer, 2014-2016E
- Cost Comparison between Homemade and Imported Industrial Robots
- Net Sales and Net Income of Nabtesco, FY2010-FY2014
- Net Sales of Nabtesco by Business, FY2011-FY2014
Selected Charts

- Nabtesco’s Global Network, 2013
- Net Sales of Nabtesco by Region, FY2011-FY2013
- Nabtesco’s Robot Speed Reducer Products
- Technical Parameters of Nabtesco's RV Reducer
- Net Sales and Net Income of Harmonic Drive, FY2009-FY2013
- Net Sales of Harmonic Drive by Application, FY2011-FY2014
- Orders and Net Sales of Harmonic Drive’s Reducer by Region, FY2013
- Harmonic Drive’s Global Business
- Net Sales and % of Harmonic Drive by Region, FY2013
- Harmonic Drive’s Speed Reducers and Their Applications
- Orders of Sumitomo Heavy Industries by Business, FY2012-FY2013
- Sales of Sumitomo Heavy Industries by Business, FY2012-FY2013
- Speed Reducers of Sumitomo Heavy Industries
- Speed Reducer Plants and Business of Sumitomo Heavy Industries in China
- Spinea’s Speed Reducers
- Major Distributors and Agents of Spinea’s Speed Reducer by Region
- SEJIN’s Speed Reducers
- Revenue and Net Income of Shaanxi Qinchuan Machinery Development, 2008-2013
- Operating Revenue and YoY Growth Rate of Shaanxi Qinchuan Machinery Development by Business, 2012-2013
- Revenue and Net Income of Shanghai Mechanical and Electrical Industry, 2008-2013
- Hengfengtai’s 165kg Robot Speed Reducer
- Nantong Zhenkang’s ZKRV Speed Reducers
- Industrial Robot Speed Reducers of Shuaikie Machinery Manufacturing
- Comparison between Robot Speed Reducer of Leader Harmonious Drive Systems and Japan’s Like Products
- Performance Comparison of Robot Harmonic Reducer of Beijing CTKM Harmonic Drive and Harmonic Drive
- Total Demand for Industrial Robot Speed Reducer in China, 2013-2018E
- Major Robot Speed Reducer (by Product) Manufacturers and Competitive Edge in China
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