Welding Equipment & Consumables

US Industry Study with Forecasts for **2015 & 2020**

Study #2785 | October 2011 | $4900 | 270 pages

www.freedoniagroup.com

The Freedonia Group
767 Beta Drive
Cleveland, OH • 44143-2326 • USA
Toll Free US Tel: 800.927.5900 or +1 440.684.9600
Fax: +1 440.646.0484
E-mail: info@freedoniagroup.com

Table of Contents

Welding Equipment & Consumables

US Industry Study with Forecasts for ***2015 & 2020***

Freedonia®

List of Tables/Charts

EXECUTIVE SUMMARY

MARKET ENVIRONMENT

WELDING TECHNOLOGIES

WELDING EQUIPMENT & CONSUMABLES OVERVIEW

WELDING EQUIPMENT

WELDING CONSUMABLES

WELDING EQUIPMENT & CONSUMABLES MARKETS

INDUSTRY STRUCTURE

Growth will be fueled in part by an increasing number of welding applications, such as ultrasonic welding for joining dissimilar materials or the welding of nonferrous metals in aerospace equipment.

US demand to rise 6.4% annually through 2015

Demand in the US for welding equipment and consumables is forecast to increase 6.4 percent annually to $7.1 billion in 2015. Gains will be driven by continued recovery from the economic recession experienced between late 2007 and 2009 in major manufacturing and construction markets. Growth will also be fueled by the increasing number of applications in which various types of welding can be used, such as ultrasonic welding for joining dissimilar materials or the welding of nonferrous metals in aerospace equipment. Although arc, resistance and oxyfuel welding dominate the market, electron beam, friction-stir, laser, and ultrasonic welding methods have found use in aerospace, electronics and packaging applications. The most popular welding methods are used in mature market segments, and demand for them is subject to the cyclical nature of individual markets, although the diversity and number of markets in which welding is used mitigates the effects of this in the welding industry overall.

Arc & resistance welding systems to remain dominant

The welding equipment segment is dominated by arc and resistance welding systems, which accounted for a combined 70 percent of equipment demand in 2010. These will remain the dominant welding techniques, in part due to their successful integration with modern automation techniques that improve weld deposit rates and alleviate the shortage of skilled welders.

US Welding Equipment & Consumables Demand, 2010
($5.2 billion)

Welding consumables include electrodes, filler metal and industrial welding gases used in oxyfuel welding applications, and shielding gases used primarily in arc welding applications. Consumption of these products is primarily dependent on the amount of arc and oxyfuel welding activity, though arc welding is the dominant market driver. Demand for consumables, which will benefit from both economic recovery and the ubiquity of arc welding processes, will increase 6.3 percent annually and approach $2.2 billion in 2015.

Welding electrodes and filler metal accounted for 73 percent of all consumables in 2010, with oxyfuel and shielding gases accounting for the rest. Solid wire electrodes are the largest product category for electrodes and filler metal in dollar terms. However, emergent consumable products such as flux- and metal-cored electrodes are the most rapidly growing product segment, having gained increased acceptance in the general marketplace. Among the gases, oxygen and acetylene are dominant in metal joining and cutting. Argon is by far the most commonly used shielding gas, followed by carbon dioxide.

Sample Text, Table & Chart

WELDING EQUIPMENT

Welding Equipment Supply & Demand

Demand for welding equipment in the US approached $
in 2010, having increased at a 2.4 percent annual rate from 2
2005, however, demand has remained flat. There were increa
intervening years, but the sharp economic downturn in the U
negated increases in welding equipment demand, which carri
the limited recovery experienced in 2010. Gains in welding
demand will averag bill
They will be suppor tur
construction market om
between 2007 and 2 ner
energy markets. Ex mi
in welding equipmen petit
alternative metalworking and joining processes, as well as th
tion of metals as manufacturing materials, such as the increas
composites or other nonmetallic materials in aircraft constru

SAMPLE TEXT

Arc welding equipment leads demand, having accounte
percent of total welding equipment demand in 2010. Overall
share of arc welding equipment has been climbing based on t
ity of the process across all sectors of the economy that use w
Economic recovery will drive robust growth of 7.3 percent per annum
through 2105, when demand for arc welding equipment will reach $2.1
billion.

Second in market share is resistance welding, which ac
for 29 percent of welding equipment demand in 2010. This
welding method has typically accounted for between 28 and
of welding equipment demand since 2000. Resistance weldi
predominantly in industries where thin sections or layers of
are joined, such as the motor vehicle, aerospace, appliance a
other industries. The process will remain a mainstay in meta

90

TABLE V-1

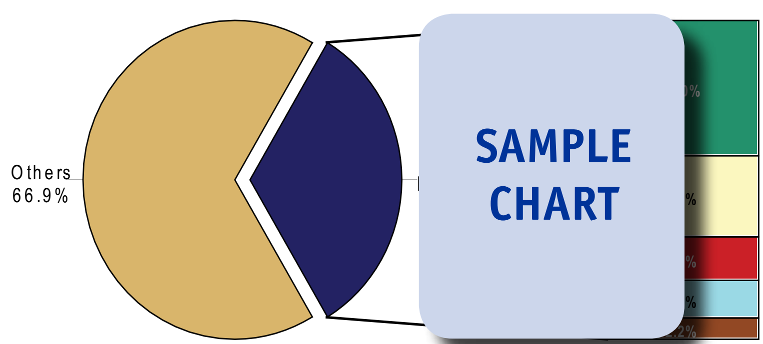
WELDING EQUIPMENT SUPPLY & DEMAND
(million dollars)

Item	2000	2005	2010	2015	2020
Nonresidential Fixed Investment (bil $)					
Durable Goods Shipments (bil $)					
$ equipment/000$ NFI					
$ equipment/000$ durables					
Welding Equipment Demand					
Arc Welding					
Resistance Welding					
Oxyfuel Welding & Cutting					
Laser Beam Welding					
Ultrasonic Welding					
Other Welding					
net exports					
Welding Equipment Shipments					
Arc Welding					
Resistance Welding					
Oxyfuel Welding & Cutting					
Laser Beam Welding					
Ultrasonic Welding					
Other Welding					

SAMPLE TABLE

CHART VIII-1

US WELDING EQUIPMENT MARKET SHARE, 2010
($3.6 billion)



Sample Profile, Table & Forecast

TABLE VI-7

SHIELDING & OXYFUEL GAS DEMAND
(million dollars)

Item	2000	2005	2010	2015	2020
Nonresidential Fixed Investment (bil $)					
Fabricated Metal Product Shipments (bi					
$ gases/000$ NFI					
$ gases/000$ fab metal					
Oxyfuel & Shielding Gas Demand					
Shielding Gases					
Oxyfuel Gases					
% oxyfuel & shielding gases					
Welding Consumables Demand					

SAMPLE TABLE

COMPANY PROFILES

ARCON Welding LLC
2203 Northwood Drive, Building 10
Salisbury, MD 21801
410-572-6000
http://www.arc

Annual Sales:
Employment:

Key Products: anual metal arc, tungsten i other welding applications

SAMPLE PROFILE

ARCON Welding is a producer of welding machines and accessories. The privately held company mainly serves customers operating in rough or harsh environments, including shipyards, mines, offshore oil rigs, construction sites, paper mills, power plants and fertilizer manufacturing facilities.

The Company's welding equipment includes portable machines for manual metal arc (MMA), tungsten inert gas (TIG), flux-cored arc welding (FCAW), metal inert gas (MIG) and other welding applications. In general, ARCON Welding Equipment's welders are made with fiberglass cases and are designed to offer constant power. Certain models incorporate COMMAND ARC, a MIG transfer mode that is used to sense arc voltage. When the arc length reaches 12 volts, COMMAND ARC releases a pulse of current and voltage to expel the molten tip of the wire across the arc onto the work, thereby minimizing spatter and eliminating short-circuiting associated with conventional metal transfer activities.

204

"In 2010, nitrogen demand in welding applications approached 1.3 billion cubic feet valued at $5 million. Growth in demand will be driven by gains in fabricated metal product shipments. Consequently, nitrogen demand will reach 1.4 billion cubic feet valued at $6 million in 2015. Growth by volume will average a relatively slow 1.5 percent per year for this period, reflecting the limited use of nitrogen in welding mixtures."

--Section VI, pg. 141

ORDER INFORMATION

Five Convenient Ways to Order

INDUSTRY MARKET RESEARCH FOR BUSINESS LEADERS, STRATEGISTS, DECISION MAKERS

Freedonia®

ONLINE: www.freedoniagroup.com

MAIL: Print out and complete the order form and send to The Freedonia Group (see address at the bottom of this form)

PHONE: Call toll free, 800.927.5900 (US) or +1 440.684.9600

FAX: +1 440.646.0484 (US)

EMAIL: info@freedoniagroup.com

Free Handling & Shipping

There is NO charge for handling or UPS shipping in the US. Expect delivery in 3 to 5 business days. Outside the US, Freedonia provides free airmail service. Express delivery is available at cost.

Orders Outside of the US

Checks must be made payable in US funds, drawn against a US bank and mailed directly to The Freedonia Group. For wire transfers please contact our customer service department at info@freedoniagroup.com. Credit cards accepted.

Credit Card Orders

For convenience, Freedonia accepts American Express, MasterCard or Visa. Credit card purchases must include account number, expiration date and authorized signature.

Save 15%

If you order three (3) different titles at the same time, you can receive a 15% discount. If your order is accompanied by a check or wire transfer, you may take a 5% cash discount (discounts do not apply to Corporate Use Licenses).

Corporate Use License

Now every decision maker in your organization can act on the key intelligence found in all Freedonia studies. For an additional $2600, companies receive unlimited use of an electronic version (PDF) of the study. Place it on your intranet, e-mail it to coworkers around the world, or print it as many times as you like,

Click here to learn more about the Corporate Use License

ORDER FORM

F-WEB.2785

Welding Equipment & Consumables $4900

☐ Corporate Use License (add to study price) * +$2600

___ Additional Print Copies @ $600 each *

Total (including selected option) $___________

☐ Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds (Ohio residents add 7.75% sales tax)

☐ Bill my company ☐ American Express ☐ MasterCard ☐ Visa

Credit Card # ________________

Expiration Date MM YY

Signature ___________________________

Name ___________________________

Title ___________________________

Company ___________________________

Division ___________________________

Street ___________________________ (No PO Box please)

City/State/Zip ___________________________

Country ___________________________

Phone ______________ Fax ______________

Email ___________________________

* Please check appropriate option and sign below to order an electronic version of the study.

☐ Corporate Use License Agreement

The above captioned study may be stored on the company's intranet or shared directory, available to company employees. Copies of the study may be made, but the undersigned represents that distribution of the study will be limited to employees of the company.

Signature ___________________________

☐ Individual Use License Agreement

The undersigned hereby represents that the above captioned study will be used by only ___ individual(s) who are employees of the company and that the study will not be loaded on a network for multiple users. In the event that usage of the study changes, the Company will promptly notify Freedonia of such change and will pay to Freedonia the appropriate fee based on Freedonia's standard fee schedule then in effect. Note: Entire company corporate use license, add $2600; one additional user, add $600; two additional users, add $1200; three additional users, add $1800.

Signature ___________________________

The Freedonia Group, Inc. 767 Beta Drive • Cleveland, OH • 44143-2326 • USA • Web site: www.freedoniagroup.com
Tel US: 800.927.5900 or +1 440.684.9600 • Fax: +1 440.646.0484 • e-mail: info@freedoniagroup.com

Other Studies

World Construction Machinery

World demand for construction machinery is projected to expand 6.5 percent annually through 2015. Over half of all additional demand will come from the Asia/Pacific region, although the rate of growth will slow from the pace of the 2005-2010 period. Cranes, loaders and excavators will expand at above-average rates. This study analyzes the $125 billion world construction machinery industry, with forecasts for 2015 and 2020 by product, world region and for 36 countries. The study also evaluates company market share and profiles industry players.

#2776 .... August 2011 .... $6100

Machine Tools in China

Machine tool demand in China will rise 14.2 percent annually through 2014, bolstering the country's position as the largest machine tool consumer and producer. The dominant metal cutting machine segment will slightly outpace metal forming types. The transportation equipment market will grow the fastest. This study analyzes the 200 billion yuan machine tool industry in China, with forecasts for 2014 and 2019 by product, market and region. The study also evaluates company market share and profiles industry participants.

#2757 .... August 2011 .... $5400

World Machine Tools

World demand for machine tool products is projected to increase 9.4 percent annually through 2014. The best prospects will be found in the developing world, especially China and India. The industrial sector will remain the largest market, but the transportation sector will post the strongest gains coming off a weak 2009. This study analyzes the $77 billion world machine tool industry, with forecasts for 2014 and 2019 by type, market, world region and for 19 countries. The study also evaluates company market share and profiles industry competitors.

#2739 .... April 2011 .... $5900

Abrasives

Demand for abrasives in the US will rise four percent annually through 2014. Durable goods manufacturing will remain the dominant market, with the motor vehicle segment growing the fastest. Nonmetallic coated and bonded abrasives and loose grains and powders will outperform metallic abrasives. This study analyzes the $4.7 billion US abrasives industry, with forecasts for 2014 and 2019 by raw material, product and market. It also evaluates company market share and profiles industry players.

#2696 .... October 2010 .... $4800

World Industrial Gases

Global demand for industrial gases will increase 8 percent yearly through 2014. The Asia/Pacific region will remain the fastest growing based on its ever expanding manufacturing base. The Africa/Mideast region will also exceed average growth rates, driven in part by its large oil reserves and refining industry. This study analyzes the $35.7 billion world industrial gas industry, with forecasts for 2014 and 2019 by market, type, world region and for 27 countries. It also evaluates company market share and profiles industry participants.

#2659 .... August 2010 .... $5900

About The Freedonia Group

The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States, the emerging China market, and other world markets. Industries analyzed by Freedonia include:

• Chemicals • Plastics • Life Sciences • Packaging • Building Materials • Security & Electronics • Industrial Components & Equipment • Automotive & Transportation Equipment • Household Goods • Energy/Power Equipment

Click here to learn more about Freedonia

Freedonia Custom Research

Freedonia Custom Research delivers the same high quality, thorough and unbiased assessment of an industry or market as an industry study. Since the research initiative is based upon a company's specific needs, companies harness Freedonia's research capabilities and resources to answer unique questions. When you leverage the results of a Freedonia Custom Research engagement, you are able to obtain important answers to specific questions and issues associated with: mergers and acquisitions, new product launches/development, geographic expansion, entry into new markets, strategic business planning, and investment and funding decisions.

Freedonia Custom Research is ideal for companies seeking to make a strategic difference in the status quo and focus on future business growth. Working side by side with clients, Freedonia's team is able to define a research project that is custom-tailored to answer specific questions and provide the basis from which a company can make informed business decisions.

Click here to learn more about Custom Research

Click here for complete title list

Click here to visit freedoniagroup.com

The Freedonia Group, Inc. 767 Beta Drive • Cleveland, OH • 44143-2326 • USA • Web site: www.freedoniagroup.com
Tel US: 800.927.5900 or +1 440.684.9600 • Fax: +1 440.646.0484 • e-mail: info@freedoniagroup.com