

NEWS RELEASE



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2011 ANNUAL FORGING INDUSTRY SALES RELEASED BY FORGING INDUSTRY ASSOCIATION

Orders and shipments improve in most areas

CLEVELAND, OHIO -- Final revised figures showing 2011 sales of metal forgings produced by independent (custom) forging plants in the United States, Canada and Mexico have been released by Forging Industry Association (FIA). Figures are broken out by the three major forging processes.

CUSTOM FORGING INDUSTRY SALES IN NORTH AMERICA ⁽¹⁾ *(encompassing all metals forged in millions of U.S. \$)*

<u>Year</u>	<u>Impression Die</u>	<u>Open Die</u>	<u>Seamless Rings</u>
2011	6371.9	2191.6	1485.0
2010	5287.8	1685.6	1258.4
2009	4832.1	1521.6	1298.2
2008	6084.8	2035.0	1785.8
2007	6149.8	1786.9	1450.1
2006	5870.3	1520.7	1220.1
2005	5641.1	1226.4	861.0
2004	4907.4	901.5	607.4
2003	3901.8	647.1	522.2
2002	4041.2	682.2	532.9
2001	4460.2	763.1	662.6
2000	4694.7	745.1	606.6

CUSTOM IMPRESSION DIE FORGING

Total industry shipments for the custom impression die forging industry at \$6,371,887,000 in 2011, increased to 21% above the \$5,287,811,000 in 2010. Bookings of impression die forging orders during 2011 increased to \$7,082,721,000, 22% above 2010's figure of \$5,805,934,000. The aerospace sector (including engines, aircraft parts, auxiliary equipment and guided missiles and space vehicles) made up the largest percentage of impression die industry sales at 29.9% down from the revised 31.5% in 2010¹. The automotive sector (passenger cars/light trucks/SUV's and parts) with 27.3%, took second place down from the revised 31.0% in 2010 but up from the 21.0% reported in 2009.

CUSTOM OPEN DIE FORGING

Total industry shipments by the custom open die forging industry in 2011 increased to \$2,191,594,000, 30% above 2010's of \$1,685,606,000. Bookings of open die forging orders during 2011 also increased to \$2,483,343,000, 40% above the \$1,777,831,000 in 2010. In 2011 construction, mining, material handling equipment and gas and oil remained the leading open die market segment with 30.3% of total industry sales, up from 22% in 2010. Aircraft & parts and metal forgings and stamping tied for second place with 8.1% of market share. Aircraft stayed same as 2010 while metal forgings and stampings improved from the 5.9% reported in 2010.

CUSTOM SEAMLESS ROLLED RING FORGING

Total 2011 industry shipments for the custom seamless rolled ring forging industry increased to \$1,489,973,000, 18% above 2010's volume of \$1,258,416,000. Bookings of seamless rolled ring forgings for 2011 increased to \$1,643,317,000, 23% above 2010's \$1,331,309,000. Aerospace engines and engine parts accounted for the majority of seamless rolled rings produced, with a market share of 46.3% in 2011 down from the 50.1% in 2010. Oil field machinery and equipment rose to second place, with a 7.9% market share, up from 6.5% in 2010.

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NOTE: FIA's Annual Report of industry sales is based on information compiled from companies believed to have produced an average of 92% of 2011's total custom forging sales. The report is statistically treated to represent 100% of industry shipments in the custom forging industry. Figures quoted in this release do not include forgings produced for captive use or standard catalog products. Components produced via the cold forging process are also excluded from this report.

FORGING INDUSTRY ASSOCIATION, with headquarters in Cleveland, Ohio, is comprised of 115 North American producers of forged metal components, accounting for 206 plants producing 77% of the custom forging volume produced annually. Forged metal parts are pressed, pounded or rolled into countless configurations, and used for critical applications in the aerospace, automotive, construction, materials handling, ordnance, hand tool, agricultural and industrial equipment industries -- to name a few! In addition, over 85 firms supplying equipment, materials, services or supplies to the forging industry are also members of FIA. The Association, with its predecessor organizations, has served the metal forging industry since 1913.

For more information on metal forging processes, the forging industry or FIA member companies, visit the forging industry website at www.forging.org.

¹ 2010 Impression Die annual markets were adjusted to reflect for updated information received after 2010 was published.