Seattle, WA -- (SBWire) -- 09/20/2019 --Global Brinell hardness tester market was valued at US$ 70.0 Mn in 2018, up from US$ 67.5 Mn in 2017. By 2027, the market is projected to reach US$ 104.3 Mn, exhibiting a CAGR of 4.6% over the forecast period (2019–2027). Brinell hardness tester is used to determine hardness of the material. Most commonly it is used to test materials that have a coarse or rough structure which is hard to be tested by using another test method.

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Other Applications segment held dominant position in the market in 2018

Others segment held the dominant position in the global market and is expected to retain its dominance over the forecast period. The aerospace and automotive sectors are increasingly focused on product development and quality control. Producing fasteners for the aerospace and automotive industries requires high focus on quality and material selection, in order to meet high-performance expectations. Hardness testing is often the best approach to ensure that components perform satisfactorily in their intended applications. In the automotive industry, Brinell hardness tester performs various hardness tests such as metal tensile tests for aluminum, stainless steel, a variety of deep-drawn sheets, and determination of the shear strength of brake linings and rim testing. For instance, Hegewald & Peschke Company offers various hardness testers, which are specifically designed for the automotive sector.

Major market players are involved in various growth strategies such as merger and acquisition, in order to gain the competitive edge in the global market. For instance, in March 2018, Phoenix Testlab GmbH acquired a universal testing machine (UTM) 'Type Inspekt 10kN' from Hegewald & Peschke to equip its test laboratories. This universal testing machine (UTM) offers versatility and can be used for a wide range of tests such as start push-button elements and cable strands (mainly electric switch) on various components that used in automotive industry.

Furthermore, aerospace industry needs equipment and consumables with the highest performance standard, in order to ensure the reproducibility and repeatability of results. This in turn helps the industry to minimize the chances of critical failures while maintaining efficacies in both design and production. These tests include stress rupture, fatigue testing, tensile strength, elongation testing, compression testing, impact testing, bend testing, pressure testing, shear testing, torque testing, fracture toughness testing, abrasion testing, hardness testing, and wear and tear testing. Furthermore, aerospace industry requires materials that can augment the performance of aircrafts. Apart from material innovation, the industry requires robust testing and to ensure the new materials can withstand rough working conditions over an extended period of time. Thus, various companies are involved in innovation of cutting-edge materials to expand their product portfolio. For instance, in May 2017, R-TECH Materials invested in The Zwick Roell Group's latest composites testing technology '250 Zwick Universal
Testing Machine', to aid its rapidly growing aerospace testing business. This machine is expected to assist R-TECH to conduct liquid, humidity or temperature pre-conditioning of samples, which is considered crucial for aerospace industry. These factors are expected to propel growth of global Brinell hardness testers market over the forecast period.

Asia Pacific held the dominant position in the Global Brinell hardness tester market in 2017

Asia Pacific Brinell hardness tester market generated revenue of US$ 25.88 Mn in 2017. By 2027, the market is projected to reach US$ 40.99 Mn with a CAGR of 4.9% over the forecast period. Emerging economies in Asia Pacific such as ASEAN and India are estimated to be the opportune countries with huge market potential during the forecast period. Large scale manufacturing as well as industrial production in China is expected to drive demand for Brinell hardness testers in the country. For instance, as per WMR's analysis, in 2016, China was the largest market in the global industrial output with contribution of around US$ 4,566 Bn. Moreover, vendors recognize the importance of this region, particularly in India, and are working towards penetrating this market by strengthening their sales and distribution networks. According to Worldwide Market Reports, Asia Pacific region is one of the biggest market for Brinell hardness testers and equipment, owing to presence of key players such as Mitutoyo, Zwick Roell Group, FINE Group, Akash Industries, and Struers. Therefore, these factors are expected to aid in growth of the Brinell hardness testers market over the forecast period in the region. Moreover, growing infrastructure development and growing construction industry in emerging economies boost the adoption of hardness testing equipment. LAMEA Brinell hardness tester market is projected to exhibit the second highest CAGR over the forecast period.

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Global Brinell hardness tester Market: Key Players


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