Brake System Market by Application (PC, LCV, HCV, Off-Highway, Wagon, Locomotive, and RTV), Type (Disc and Drum), Technology (ABS, TCS, ESC, and EBD), Rolling Stock and Locomotive (Air, EP, ECP, and others), and Region - Global Forecast to 2020

Description: With the evolution in automotive industry, brake system has also witnessed a significant change, not only in the automotive industry but also in off-highway vehicles, locomotives, and rolling stocks. One of the key aspects attributing to the evolution of these systems is the introduction of safety regulations, especially pertaining to stopping or braking distance. Increasing accidents and fatalities have prompted governments to enforce stringent safety regulations as well as reduced stopping distances.

This, in turn, has triggered the brake manufacturers to bring about technical advancements to meet these norms. In response to this, automotive brake manufacturers have introduced advanced braking system such as ABS, ESC, TCS, EBD, brake-by-wire, and regenerative braking among others. Brake manufacturers in the locomotive & rolling stock industry have come up with electro-pneumatic brakes or electronically controlled pneumatic brakes with several advantages over air brakes.

These advanced braking systems not only comply with safety regulations but also offer better braking performance. The future of automotive brake industry can be defined by two gen-next technologies: regenerative braking and brake-by-wire. The first technology helps in increasing fuel efficiency by re-using the energy generated during brake friction and the latter eliminates the necessity for all the mechanical components and linkages. Asia-Oceania is estimated to dominate brake system market for automotive, which is the largest vehicle manufacturing region.

Among the types of brakes, the disc brake segment is estimated to lead the market given its lightweight, quick response, and better performance. In the brake system market for locomotive & rolling stock, the electro-pneumatic brakes segment is estimated to account for a major market share, whereas electronically controlled pneumatic brake system segment is in the growing phase. Agricultural tractors are projected to lead the global brake system market for off-highway followed by construction equipment in 2015.

The brake system market comprises large number of global as well as local players, which has intensified competition at the global level. Market players have adopted several strategies such as new product development and launches, regional expansions, acquisitions, mergers, partnerships, and collaborations to grow in the market. Some of the key players dominating the brake market include ZF TRW Automotive Holdings Corp. (U.S.), Continental AG (Germany), Aisin Seiki Co. Ltd. (Japan), Mando Corporation (South Korea), Knorr-Bremse (Germany), and Akebono Brake Industry Co. Ltd. (Japan) among others.

Scope of the Report

The brake system market has been broadly categorized into the following segments and subsegments:

- Automotive Brake System Market, By Type
  - Disc Brake
  - Drum Brake
- Automotive EAB Systems Market, By Type
  - ABS
  - ESC
  - TCS
  - EBD
- Automotive Brake System Market, By Vehicle Type
  - Passenger cars
  - LCVs
  - HCVs
- Locomotive & Rolling Stock Brake System Market
  - By Application
  -- Locomotive
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