

Stromag High Performance Brake (HPB) sets the future standard for dynamic performance for all types of application

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Original equipment manufacturers (OEMs) in the crane and winch markets can now benefit from the highly modular Stromag electromagnetic spring applied HPB motor brake. This innovative solution sets new standards for dynamic performance, compactness, and flexibility in all applications. As safety requirements in the sector become ever more complex, the future orientated capabilities of the HPB place it at the forefront of motor brake innovation.

Offered in eight different sizes with three different friction linings, ingenious design allows each HPB variant to be offered in either two or four-face configurations without a large variance in brake size. As a result, a multitude of torque values can be generated from 80 Nm up to 6,400 Nm using the same basic architecture, making the brake highly suitable for use in marine, agricultural, construction, and machinery applications.

To exceed modern application standards and deliver a high safety margin, the development focus for the HPB centered on dynamic braking performance rather than simply end holding torque. Consequently, the HPB offers exceptional response times, heat dissipation, and time to stop across a wide speed range. Ideal for working, holding, and sudden stops, every HPB produced gets a run-in procedure followed by static torque test by Stromag in-house before delivery to provide quality

assurance and ensure optimal operation at different speeds. Dynamic testing is also possible as an option.

Additionally, the increased braking performance of the HPB allows motors to be operated at a higher speed, improving operational efficiency. This can be a particular benefit for agricultural equipment working to demanding schedules during harvest, or ships loading and unloading cargo and equipment at port. In all cases, the HPB enables faster processes.

Flexibility of specification is another distinct advantage of the HPB. Every brake size can be fully customized to OEM requirement, but a standardized approach to spare parts means that a bespoke specification can be achieved with less components. This ensures a highly cost competitive, single source solution that actively reduces parts inventory, eases procurement, and streamlines maintenance.

One area of customization is the wide variety of connections, hubs, end caps, and flanges which can be modified to exactly fit an OEM's motors. This enables accelerated assembly on the production line and straightforward retrofits into existing equipment designs. Other options include tachometer mounting, terminal boxes, anti-condensation heaters, and inductive proximity switches to monitor switching states or provide wear indication.

A brand of Regal Rexnord, Stromag has built an unrivalled reputation in heavy-duty braking solutions, and the robustness of the HPB illustrates why. An IP67 ingress protection rating, surface protection, and suitability for use across a wide temperature range ensures it is well equipped for outdoor operations, whether on-site, in the fields, or out at sea.

Ultimately, the HPB is a universal electromagnetic motor brake solution that can meet the needs of almost any crane or winch application. Inherent flexibility and ease of customization are combined with superior braking performance and high safety margin. Now, OEMs have access to a truly dynamic brake that can meet the future requirements of the most demanding applications.

Image captions:

Image 1: The HPB allows a multitude of torque values to be generated using the same basic brake architecture, ideal for applications such as marine cranes.



Image 2: IP67 ingress protection and a wide temperature range make the HPB ideal for outdoor construction, agriculture, machinery, and marine applications.

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Following the acquisition of Altra, and commencing with its 1Q 2023 earnings release, Regal Rexnord will report under four operating segments: Industrial Powertrain Solutions, Power Efficiency Solutions, Automation & Motion Control and Industrial Systems. Regal Rexnord is headquartered in Beloit, Wisconsin and has manufacturing, sales, and service facilities worldwide.

For more information, visit [RegalRexnord.com](https://www.RegalRexnord.com)

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