

PRESS RELEASE

PI 012/20
2020-07-20

Transparent with a perfect flow

Increasing the productivity of recycling applications through flow-optimized manifolds with condition monitoring

- ▶ Efficient: flow-optimized with 3D sand core printing
- ▶ Tailored: geometry, functions and connections
- ▶ Integrative: compact and up to 30 percent lighter
- ▶ High availability thanks to condition monitoring



Energy-efficient and transparent with optimized functions: the new manifolds from Bosch Rexroth with condition monitoring. (Image source: Bosch Rexroth AG)

Produced using 3D sand core printing, the new hydraulic manifold for channel balers features a complementary condition monitoring concept. The inner geometry, which was optimized via simulation, helps system end-users to achieve an entirely new level of productivity, while the additive manufacturing of manifolds opens up new opportunities for manufacturers when integrating machines and functions. The individual manifolds complement Bosch Rexroth's conventional range of products for channel balers, scrap shears and scrap presses.

With the help of additive manufacturing, Bosch Rexroth produces manifolds with individual inner geometries and without right-angled deflections resulting in optimum flow conditions. Consequently, pressure losses, cavitation and

Contact for Journalists:
Bosch Rexroth AG
Manuela Kessler
97816 Lohr a. Main
Tel.: +49 9352 18-4145
manuela.kessler@boschrexroth.de

PRESS RELEASE

PI 012/20
2020-07-20

noise emissions can be reduced to a minimum. The weight reduction of up to 30 percent and the resulting smaller footprint allow a more compact machine design because the manifold fits optimally into the available space.

At the same time, the wider geometric options allow previously external components to be integrated even in tight spaces. Having the entire hydraulic system in the form of a single assembly reduces the outlay for installation, piping and service.

Condition monitoring for manifolds

The new condition monitoring concept for manifolds brings extra productivity for the user. The software module works with control systems from various manufacturers and visualizes not only the circuit diagram but also the status of valves. Operators of channel balers and other hydraulic applications are therefore able to monitor the relevant machine function, analyze errors immediately and restore availability more quickly.

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, roughly 31,000 associates generated sales revenue of roughly 6.2 billion euros in 2019.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,000 associates worldwide (as of December 31, 2019). The company generated sales of 77.7 billion euros in 2019. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to

Contact for Journalists:
Bosch Rexroth AG
Manuela Kessler
97816 Lohr a. Main
Tel.: +49 9352 18-4145
manuela.kessler@boschrexroth.de

PRESS RELEASE

PI 012/20
2020-07-20

offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. Bosch employs some 72,600 associates in research and development at 126 locations across the globe, as well as roughly 30,000 software engineers.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).

Contact for Journalists:
Bosch Rexroth AG
Manuela Kessler
97816 Lohr a. Main
Tel.: +49 9352 18-4145
manuela.kessler@boschrexroth.de