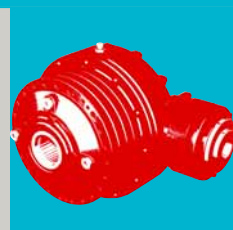
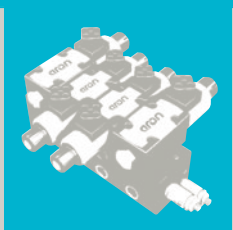




SION > FLUID POWER > POWER TRANSMISSION > FLUID POWER



> **Brevini Group**

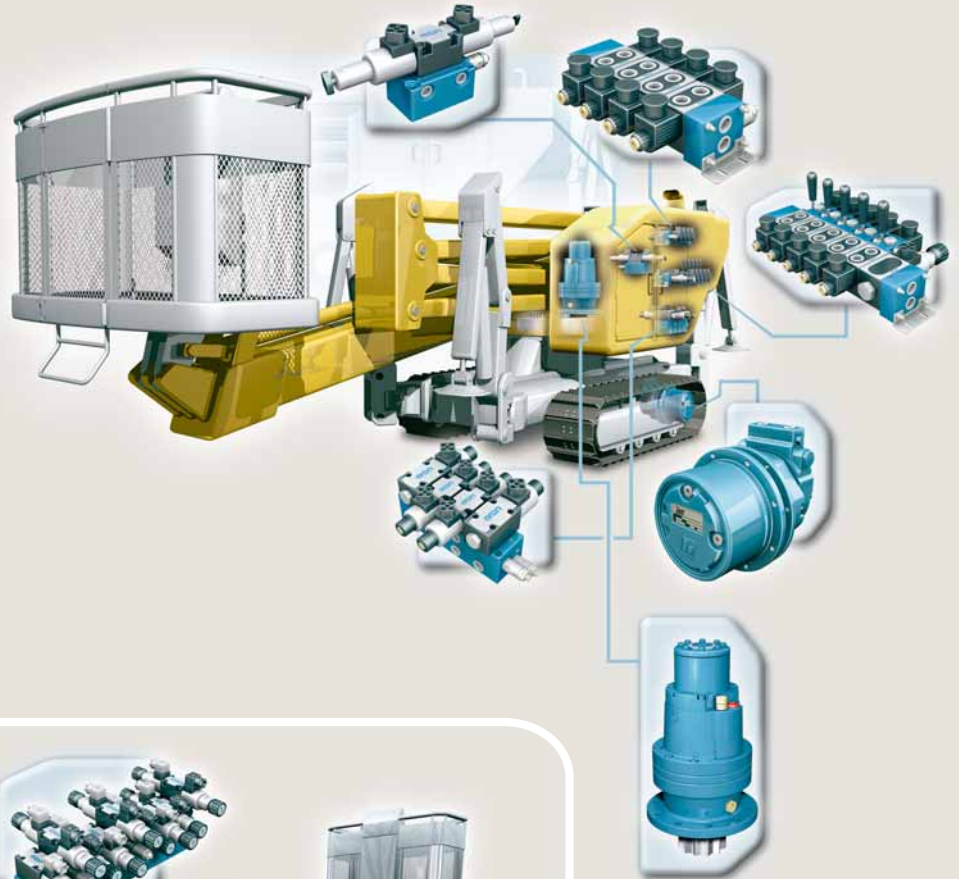
The Brevini industrial Group is a market leader in two strategic business areas: mechanical drives and hydraulic systems.

Operating for 40 years in both sectors, the Brevini Group now has a consolidated turnover of 250 million Euro, with 1,300 employees.

Present with a direct network in the main world markets, the Brevini Group is a global firm whose strong points include: design and after-sales advice, geographic coverage; experience in all possible applications, both on self-propelled machines and on industrial systems. Brevini Group controls more than 30 commercial branches and is formed of 9 important industrial manufacturing concerns: Brevini Riduttori - Brevini Winches - PIV Drives - Hydrapp - Aron - Oleodinamica Reggiana - SamHydraulik - Brevini Hydraulics - VPS Brevini.











Components and integrated systems for aerial platforms

The Brevini industrial group offers mechanical, hydraulic and electrohydraulic solutions for the aerial platform industry. Relying on our expertise in power transmission and in fluid power, we deliver high-performance components and integrated systems to a wide range of applications.

Brevini offers transmission solutions for mobile vehicles, meeting virtually any customer need: planetary gearboxes, hydrostatic pumps and motors, a complete range of orbital hydraulic motors and power steering units, axial pumps and motors for medium and high pressure range, hydraulic and electronic systems such as: directional, pressure and flow controls; modular, cartridge, in line and bankable valves; electronic systems for mobile machinery.

Brevini gear units are used on the wheels that move the platform and rotate the boom in rotating lift platforms. The CWD and RX series for wheeled vehicles and the CTD/CTU series for tracked vehicles are extensively used to move this machinery. The SDU series with hydraulic motor and integrated negative brake is an effective solution for boom rotation.

Lighter and more compact, excellent reduction ratios, an integrated hydraulic motor, the possibility of installation on chassis, wheel rim and toothed wheel: these are the advantages offered by Brevini gear units to drive wheeled and tracked vehicles, especially self-propelled and utility vehicles, aerial platforms. The complete range covers a torque capacity from 1,000 to 38,000 Nm, with a related radial load of up to 200,000 N., which makes it ideal for a wide variety of applications and hydraulic systems, and also for pneumatic and electric power sources.

The most popular wheel drives among aerial platform manufacturers are the RX and CWD series, which offer output torques from 1,000 to 10,000 Nm, and sustained radial loads (from 6,000 to 100,000 N), thanks to the use of taper roller bearings.

To ensure maximum configuration flexibility, RX and CWD series wheel drives, which are compatible with standard wheel rims and available in a vast range of reduction ratios, can mount orbital or axial piston hydraulic motors on their universal input flange.

In aerial platform design, installing a high-speed axial piston motor is an effective solution because it supplies excellent starting torque needed to overcome initial inertia. It also permits smooth and accurate control of the horizontal movement to make it simpler to position the vehicle.

The combination of a planetary gear unit with a high speed hydraulic motor is also more economical compared to large, low speed hydraulic motors, and it also offers substantial advantages in terms of operation. The RX and CWD models also have an optional integrated multidisc failsafe parking brake whose release mechanism is hydraulically controlled to insure maximum safety if the hydraulic pressure is interrupted, which is to protect the vehicles that are often operated when the platform is completely raised. Brevini track drives, which are mounted inside the drive wheels, are planetary gear units with rotating casing and a transmission torque of up to 100,000 Nm, which is obtained thanks to the sturdiness of the parts. The CTD/CTU models have a multidisc parking brake and were designed to permit direct mounting of an axial piston or orbital hydraulic motor (in an integrated or semi-integrated version). The lubrication system, which is shared but the gear unit and brake, is separate from the motor. All Brevini gear units for the moving vehicle sector have a standard mechanical declutching device that allows the vehicle to be towed in an emergency. The SDU series is a complete range of Brevini planetary gear units designed for rotation through a combination of pinion and slewing ring.

Provided with a frame that is able to withstand strong radial loads that are generated in this type of application, these units are composed of a motor, a negative brake, and a planetary gear unit with an inserted or integrated pinion on the output shaft.

The gear unit with axial piston motor always has an incorporated regulator valve system that requires integration in the machine's oil-pressure circuit. The orbital motor configuration, which can also be supplied with regulator valves, was designed for an open hydraulic circuit.

Input multidisc brakes and flanges for mounting hydraulic or electric motors are just some of the accessories that complete this series.





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