

Gear Units Application Equipment

Freedom to customize your own positioner solutions with ABB's well-proven standardized gear units in comprehensive packages.



Expanded possibilities

Seven gear unit versions are available as packages complete with motors, gears, cabling, serial measurement boards and safety options. The range incorporates both MTD (for positioning) and MID (for interchange) gear units, opening up the range of design possibilities. Experienced integrators can now create a limitless number of positioner and robot carrier designs, because these gear units enable them to take advantage of multiple external axes.

Standardized parts

ABB's gear units are already used in the company's range of high-quality positioners, so integrators can rest assured that these are tested and proven parts that are pre-engineered to work perfectly in combination with other ABB equipment. And because they are standard, the gear units are cost-efficient and easily available as spare parts.

Easily integrated

All gear units are accompanied by complete documentation and software configuration files. The offer also includes CAD models that allow engineers to easily incorporate the gear units into their kinematic structure designs. Of course, they can use ABB's own easy-to-use RobotStudio software, which can support every aspect of a system (e.g. motion control, application design, execution and communication). By using the RobotWare tool TuneMaster, an integrator building a customized positioner can tune both motor and gear unit parameters in order to achieve an improved motion

performance in less time. In arc welding for example, TuneMaster facilitates tuning of robot and positioner interaction for improved welding results. For optimal motion control, ABB offers an extensive standard positioner program with dynamic models available.

Complete package

With accompanying flexible cables, the gear units are easy to incorporate into positioner designs. Moreover, end customers benefit from the fact that these cables are proven to have much longer life expectancy. The units are also available with serial measurement boards, push buttons for brake release and axis selectors for greater safety and control.

Saving valuable time throughout the entire project

By using ABB's well-proven and documented gear unit solutions, integrators save time on projects, especially during the proposal, simulation, planning, engineering, purchasing, installation, commissioning and documentation phases. Depending on the scope of the project, those time savings could add up to hours, days or even weeks. The unique RemoteService option monitors error messages from the gear units to guarantee the best possible uptime of your system and immediate response in case of an unplanned stop.

Global support

With more than 40 years of experience in robotics, ABB has sales and service organizations in 53 countries.

Gear Units

Specification

Version	Weight (kg)	Max. handling capacity (kg)	Max. continuous torque (Nm)	Max. bending moment (Nm)	Protection
MTD 250	70	300	350	650	IP 65
MTD 500	180	600	650	3 300	IP 65
MTD 750	180	1 000	900	5 000	IP 65
MTD 2000	340	2 000	3 800	15 000	IP 65
MTD 5000	770	5 000	9 000	60 000	IP 65
MID 500	170	1 300	1 400	5 000	IP 42
MID 1000	395	3 300	3 800	15 000	IP 42

MTD



MID

