



Per Löwgren, Product Manager

Motor and Gear units

Easy and cost-efficient integration for customized solutions

Motor and Gear units

A complete offer of well-proven components



- **5 gear units for positioning**
(MTD 250/500/750/2000/5000)
- **2 gear units for interchange**
(MID 500/1000)
- **4 motor units**
(MU 100/200/300/400)
- **SMB box**
- **Cables**
- **Controlled by IRC5 Controller or Drive Module**

Motor and Gear units

Overview of main features



- Power-operated and function as external axes
- Designed for optimal performance and to facilitate installation and application

External axis integration

In many applications

- Arc welding systems
- Picking systems with indexing conveyors
- Spot welding lines
- Other applications where external axis are needed

Motor units, MU

Key data



	MU 100	MU 200	MU 300	MU 400
Speed (rpm)	3300	5000	4500	4700
Max dynamic torque (Nm)	4.3	14	35	50
Weight (kg)	4.4	9.3	15	27
IP Class	IP67	IP67	IP67	IP67

Gear units, MTD

Key data



	MTD 250	MTD 500	MTD 750	MTD 2000	MTD 5000
Max handling capacity (kg)	300	600	1000	2000	5000
Max torque (Nm)	350	650	900	3800	9000
Max bending moment (Nm)	650	3300	5000	15000	60000
Max rotation (deg/s)	180	150	150	90	39
Weight (kg)	70	180	180	340	770
IP Class	IP65	IP65	IP65	IP65	IP65

Gear units, MID

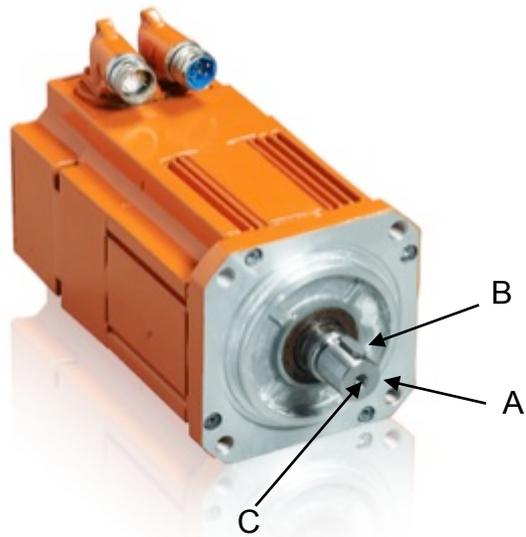
Key data



	MID 500	MID 1000
Max handling capacity (kg)	1300	3300
Max torque (Nm)	1400	3800
Max bending moment (Nm)	5000	15000
Max rotation (deg/s)	90	90
Weight (kg)	170	395
IP Class	IP65	IP65

Motor units, MU

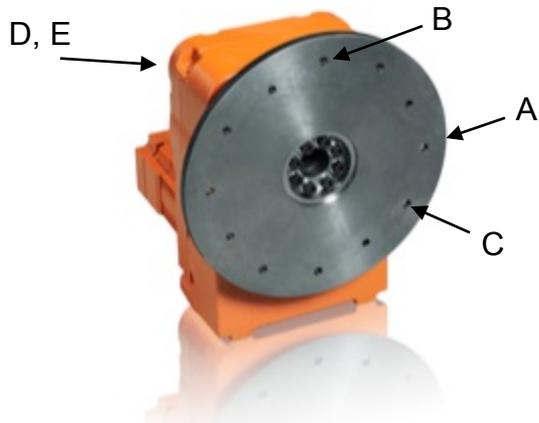
Mechanical mounting interface



	MU 100	MU 200	MU 300	MU 400
A, shaft diameter (mm)	Ø 14 j6	Ø 24 j6	Ø 24 j6	Ø 32 k6
B, wedge (mm)	5 h7 x 15	8 h9 x 20	8 h9 x 20	10 h9 x 25
C, hole	-	M6	M6	M6

Gear units, MTD

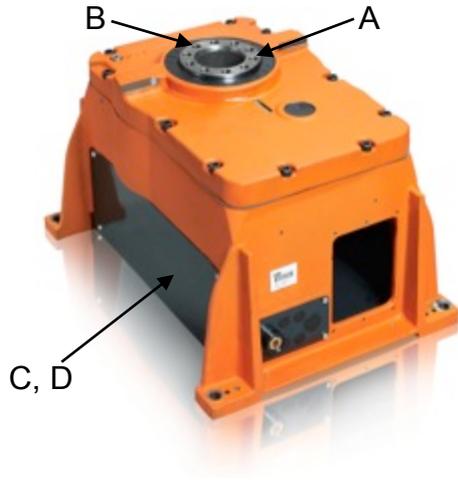
Mechanical mounting interface



	MTD 250	MTD 500/750	MTD 2000	MTD 5000
A, disc diameter (mm)	Ø 350	Ø 450	Ø 550	Ø 800
B, guide hole (mm)	Ø 10 H8 (4x)	Ø 10 H8 (4x)	Ø 10 H8 (4x)	Ø 20 H8 (4x)
C, mounting hole (mm)	Ø 11 (8x)	Ø 17 (8x)	Ø 21 (8x)	Ø 25 (8x)
D, outgoing shaft	M6 (4x)	M6 (4x)	M8 (4x)	M10 (4x)
E, on frame	M6 (2x)	M6 (2x)	M6 (2x)	M6 (6x)

Gear units, MID

Mechanical mounting interface



	MID 500	MID 1000
A, shaft diameter (mm)	Ø 140 h7	Ø 180 h7
B, mounting hole (mm)	M16 (10x)	M20 (12x)
C, outgoing shaft (mm)	Ø 115 h8	Not accessible
D, mounting hole (mm)	M6 (4x)	-

Motor units and Gear units

Summary of key benefits



- Wide range of cost-efficient, well-proven and standardized packages.
- Simplified engineering, installation and commissioning of customized positioners, tracks and gantries. Save time throughout the entire project.
- TuneMaster tool for simplified tuning, achieving higher performance in less time.
- Increased safety with optional axis selector.
- Flexible cables for longer life expectancy.
- CAD models in RobotStudio for easy simulation and optimization.
- Global service organization for local support. RemoteService as option.

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for a better world™

