limoss

PRODUCT CATALOG

ACTUATOR SYSTEMS



PRODUCTIVE TRUSTWORTHY VERSATILE

STRONGER TOGETHER
GERMAN QUALITY,
TURKISH PARTNERSHIP



PREFACE

Shared success begins with shared values and mutual trust.

About limoss

Since our establishment in 2009, limoss has stood for innovative actuator and control solutions, the highest quality standards, and close cooperation with our customers. This customer proximity has shaped our company and remains one of the most important reasons for our international success today.

About the Collaboration with Berrak Malzeme

When looking for a business partner for limoss in the Turkish market, one of the most important points for us was to find a company that shares our values and thinks long-term.

At Berrak Malzeme, We found exactly this partner in Berrak Malzeme. Together, we want to support our customers in Turkey with high-quality actuator and control solutions, solve technical challenges, and build sustainable relationships.we discovered the collaborative vision and trust we sought.

We see great potential in the furniture, medical technology, and outdoor sectors. With our shared expertise and comprehensive product portfolio, we are creating innovative solutions and opening up new market opportunities.

This catalog represents our shared vision: quality, innovation, and cooperation based on partnership – today and in the future.

Michael Kochem
General Manager, limoss

STRONGER TOGETHER
GERMAN QUALITY,
TURKISH PARTNERSHIP



PREFACE

“We create sustainable value together for our customers and business partners.

About Berrak Malzeme

As Berrak Malzeme, we have been providing innovative material and component solutions for the furniture sector for many years, adding value to our customers with quality, reliability, and sustainable service. With our strong supply network, extensive product portfolio, and customer-oriented approach, we aim to meet the needs of furniture manufacturers and provide them with effective solutions while establishing long-term partnerships. With our continuous development and innovative approach, we continue to contribute more to our customers and the sector every day.

Our Collaboration with limoss

Within this scope, we are very pleased to share the excitement of the new chapter that our partnership with limoss has begun. We believe that bringing limoss's high-quality and reliable actuator solutions together with the Turkish market will be an important step forward in our growth journey. We look forward to this collaboration, which will allow us to offer our customers a wider range of innovative solutions, to further expand our success in the future, and to become a part of successful projects together.

Kind Regards

Ali Ekber Yıldırım,
Managing Director

STRONGER TOGETHER
GERMAN QUALITY,
TURKISH PARTNERSHIP



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UPHOLSTERED FURNITURE

Comfort for an Active Lifestyle - Solutions That Fulfill the Highest Standards

Our actuator systems provide unparalleled flexibility and reliability in contemporary and varied furniture designs. From sofas to recliners and multifunctional furniture, we create solutions that fulfill the highest standards of comfort and performance.



Recliner



Sofa



Corner Sofa Systems



Lift Chairs





SINGLE ACTUATOR



HAND CONTROLS



CONTROL UNITS



POWER SUPPLY



BATTERIES



ACCESSORIES

Complete System from a Single Source

All components are perfectly compatible with each other and provide maximum reliability.

SINGLE ACTUATORS

Flexible Actuator Solutions for a Wide Range of Applications

limoss single actuators provide reliable motion solutions for a wide range of applications in furniture, mobility, and healthcare. With different designs, mounting options, and performance levels, they offer flexible adaptation to individual requirements.

Various versions and options are available depending on the application. Together with limoss control units, control elements, and power supplies, they form optimally coordinated actuator systems.



MOUNTING OPTIONS

Flexible Solutions for Every Application

Our actuators can be easily and securely integrated into a wide range of applications thanks to various mounting options.

Push tube-side mounting



Metal end fitting
Mounting hole Ø 6 mm
Cross hole Ø 10 mm



Plastic end fitting
Mounting hole Ø 6 mm
Cross hole Ø 10 mm



Plastic end fitting
Mounting hole without mounting hole
Cross hole Ø 10 mm



Threaded end fitting
Hole Ø 5 mm



Grooved hole
Cross hole Ø 10 mm



Hole
Cross hole Ø 10 mm



Metal threaded hole
Cross hole Ø 8 mm



Sliding block
Double-sided mounting



Sliding block
Single-sided mounting

Motor Side Mounting



Plastic end fitting
Mounting hole Ø 6 mm
Cross hole Ø 10 mm



Plastic end fitting 90°
Mounting hole Ø 6 mm
Cross hole Ø 10 mm



Clip 25 mm



Clip 40 mm



Pin mounting
Locking clip
4 mm hole Ø 4.8 mm



Flat mounting
4 holes Ø 4.8 mm



Metal end fitting
Cross hole Ø 8 mm








	MD102	MD115	MD120	MD121	MD123	MD124
Max. pushing force	1.300 N	3.000 N	7.000 N	6.000 N	1.000 N	600 N
Max. pulling force	1.000 N	3.000 N	6.000 N	6.000 N	1.000 N	600 N
Min. installation length	150 mm + stroke	129 mm + stroke	170 mm + stroke	145 mm + stroke	215 mm + 0.5 x Stroke	213 mm + 0.5 x Stroke
Stroke	17 / 70 mm	min 37 mm max. 300 mm	600 mm	600 mm	600 mm	600 mm
Max. no-load speed	10 mm/s	8,7 mm/s	48 mm/s	48 mm/s	35 mm/s	35 mm/s
Protection class	IP20	IP20	IP20, IP44, IP66	IP20, IP44, IP66	IP20	IP20
Mounting – push tube side	5,6,7	1, 2, 3, 4, 5, 6	1, 2, 5, 6	1, 2, 3, 4, 5, 6	1, 4, 5, 6	5, 6
Mounting – motor side	a	a	a, b, d, e, f	a, c	a	a








	MD125	MD127	MD128	MD130	MD132	MD140
Max. pushing force	3.000 N	1.300 N	3.000 N	1.000 N	8.000 N	6.500 N
Max. pulling force	3.000 N	1.000 N	3.000 N	1.000 N	4.000 N	6.000 N
Min. installation length	120 mm + stroke	120 mm + stroke	120 mm + stroke	153 mm + stroke	190 mm + stroke	150 or 157 mm
Stroke	400 mm	300 mm	400 mm	300 mm	600 mm	600 mm
Max. no-load speed	48 mm/s	10 mm/s	48 mm/s	29 mm/s	40 mm/s	48 mm/s
Protection class	IP20, IP44, IP66	IP20	IP20	IP20, IP44, IP66	IP20	IP20
Mounting – push tube side	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 4, 5, 6	5, 6, 7	1, 2, 5, 6	8
Mounting – motor side	a	a	a, b, d, e, f	g	a, b	a





	MD141	MD142	MD143	MD144	MD145	MD146
Max. pushing force	2.000 N	2.000 N	3.000 N	1.500 N	3.000 N	3.000 N
Max. pulling force	2.000 N	2.000 N	3.000 N	1.500 N	3.000 N	3.000 N
Min. installation length	150 mm + stroke	111 mm + stroke	110 mm + stroke	100 mm + stroke	114 mm + stroke	140, 150, or 157 mm
Stroke	600 mm	600 mm	400 mm	400 mm	400 mm	400 mm
Max. no-load speed	50 mm/s	50 mm/s	40 mm/s	40 mm/s	21 mm/s	48 mm/s
Protection class	IP20	IP20	IP20	IP20	IP20	IP20
Mounting – push tube side	8, 9	8, 9	8, 9	8, 9	8, 9	8, 9
Mounting – motor side	a	a	a	a	a	a

Stroke








	MD147	MD1127	MD1150	MD1151	MD1200	MD1201
Max. pushing force	1.300 N	3.000 N Stroke	6.000 N	2.000 N	10.000 N	6.000 N
Max. pulling force	1.000 N	2.000 N	4.000 N	2.000 N	8.000 N	6.000 N
Min. installation length	133, 140, 150, or 157 mm + Stroke	190 mm + stroke	157 mm + stroke	179 mm + stroke	180 mm + travel	162 mm + stroke
Stroke	300 mm	400 mm	600 mm	600 mm	600 mm	600 mm
Max. no-load speed	10 mm/s	35 mm/s	24 mm/s	28 mm/s	40 mm/s	24 mm/s
Protection class	IP20	IP20 / IP66	IP20	IP20	IP44	IP44, IP66
Mounting – push tube side	8	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	5, 6, 7	1, 5, 6	1, 2, 3, 4, 5, 6
Mounting – motor side	a		a	a	a	a



Torque	20 Nm
Max. rotational angle	120 °
Adjustable rotational angle	☐
Rotational speed	12° / sn.
Protection class	IP20
Mounting	Screw mounting

limoss mini
Safetyguard

Smart anti-pinch protection.
More safety.



ACTIVE ANTI-PINCH PROTECTION
The actuator automatically stops and initiates a reverse movement when the defined force threshold is reached.

DOUBLE ACTUATOR

Compact Actuator Solution for Adjustable Furniture

limoss dual actuators combine two actuators into one compact unit, providing various motion combinations and synchronized movement. They offer direct integration into the furniture construction, space-saving design, and an efficient system solution.

Together with suitable limoss control elements, power supplies, and accessories, they form an optimally coordinated actuator system.

MD201

Technical Data

- Head section pushing force: 5,000 N / foot section: 4,000 N
- Installation length: 581 mm
- Stroke: 48, 53, 69, 74 or 87 mm
- M cable connection: Ø 25 mm
- Installation height: 114.5 mm
- Duty cycle: Continuous operation max. 2 min. followed by an 18 min. waiting period



OPTIONAL

- Rod connection Ø 34 mm
- Position detection via Hall sensor or additional microswitch
- Emergency lowering with 9 V or 18 V alkaline manganese batteries
- External power supply
- Wireless operation
- Mechanical quick release (MSE)
- External wireless receiver, with or without LED
- Under-bed lighting
- Integrated LED under-bed lighting (LA501) up to 6,000 N
- Metal reinforcement

ADDITIONAL INFORMATION

DC Motors Housing color: black RAL 9005 or light grey RAL 7035. Protection class: IP20 or IP24. Protection class II / III. Mains connection: 100 – 240 V AC. Extremely low standby consumption. Compatible with various Limoss control elements. Connection for up to two additional actuators or functions. End position shutdown via microswitch. Maintenance-free.

HAND CONTROLS

limoss offers a wide range of hand controls for customizing your products.

In addition to classic wired hand controls, many of our hand controls are available in the HC3 series (HC = hand control) as wireless versions or in the HC2 series as corded hand controls.

Various housing colors and surfaces, LED-illuminated buttons in different colors, customer-specific logos, and button symbols are also available as options. To prevent the furniture from being easily activated when not in use and to enable it to be secured against unauthorized use, a key or magnetic lock can be integrated. It is also possible to integrate a locking mechanism for specific functions of the hand control. This is particularly useful for applications in the medical field.

We are also happy to develop customized solutions specifically for you.



HC100



2 - 6 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC104



2 - 8 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- Soft-touch surface

HC105



2 - 10 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC110



2 - 8 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- Soft-touch surface

HC112



2 - 8 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- Soft-touch surface

HC115



2 - 9 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC121



2 Buttons	1 - 4 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting

HC122



2 - 4 Buttons	1 - 2 Motors	IP20 Protection Class

Product features

- Customer logo
- LED backlighting

HC130



2 Buttons	1 Motor	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC135



6 Buttons	3 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook

HC138



2 - 6 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting
- Black anodized aluminum housing
- Finger-friendly surface

HC150



2 - 9 Buttons	1 - 4 Motors	IP66 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook

HC151



2 - 6 Buttons	1 - 3 Motors	IP66 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook

HC155



2 - 6 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook

HC156



2 Buttons	1 Motor	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting

HC160



2 - 10 Buttons	1 - 6 Motors	IP44 Protection Class

Product features

- Customer logo
- Hand control hook

HC165



2 - 8 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook

HC170



1 Button	1 Motor	IP66 Protection Class

Product features

- Flexible mounting option with two-point mounting

HC190



2 - 4 Buttons	1 - 2 Motors	IP66 Protection Class

Product features

- Customer logo

HC1003



2 - 10 Buttons	1 - 4 Motors	IP66 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting

HC1004



4 Buttons	2 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- LED backlighting

HC200



2 - 8 Buttons	1 - 3 Motors	Screw mounting

Product features

- Brushed aluminum surface
- LED backlighting

HC201



2 - 8 Buttons	1 - 3 Motors	Screw mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC205



2 - 4 Buttons	1 - 3 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC206



2 - 4 Buttons	1 - 2 Motors	Clip mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing
- USB charging port

HC207



2 - 7 Buttons	1 - 3 Motors	Screw mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC208



2 Buttons	1 Motor	Clip mounting

Product features

- Customer logo
- Die-cast zinc housing

HC209



2 - 4 Buttons	1 - 2 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port

HC210



2 Buttons	1 Motor	Screw mounting

Product features

Customer logo

HC212



2 - 6 Buttons	1 - 3 Motors	Screw mounting

Product features

- Customer logo
- Die-cast zinc housing

HC220



2 Buttons	1 Motor	Screw mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting
- USB charging port

HC221



2 Buttons	1 Motor	Screw mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC222



2 Buttons	1 Motor	Clip mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC223



2 Buttons	1 Motor	Clip mounting

Product features

- Soft-touch surface
- Customer logo

HC225



2 - 5 Buttons	1 - 2 Motors	Clip mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC226



2 - 4 Buttons	1 - 2 Motors	Screw mounting

Product features

- Soft-touch surface
- Customer logo

HC230



2 Buttons	1 Motor	Spring clip mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting
- USB charging port

HC232



2 Buttons	1 Motor	Screw mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC233



2 Buttons	1 Motor	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC234



2 - 4 Buttons	1 - 2 Motors	Screw mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Die-cast zinc housing

HC235



2 Buttons	1 Motor	Spring clip mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC236



2 - 5 Buttons	1 - 2 Motors	Screw mounting

Product features

- Soft-touch surface
- Customer logo
- USB charging port
- Die-cast zinc housing

HC237



2 Buttons	1 Motor	Spring clip mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC238



2 - 4 Buttons	1 - 2 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Die-cast zinc housing
- Finger-friendly surface

HC239



2 - 5 Buttons	1 - 2 Motors	Screw mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC240



2 - 4 Buttons	1 - 3 Motors	Screw mounting

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC241



2 - 6 Buttons	1 - 3 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Die-cast zinc housing

HC243



2 Buttons	1 Motor	Spring clip mounting

Product features

- Soft-touch surface
- Customer logo
- USB charging port
- Optional clip mounting

HC244



2-6 Buttons	1 - 3 Motors	Clip mounting

Product features

- Soft-touch surface
- Customer logo
- USB charging por

HC246



2 - 6 Buttons	1 - 3 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port

HC248



2 - 8 Buttons	1 - 3 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Finger-friendly glass surface

HC289



2 - 5 Buttons	1 - 4 Motors	Screw mounting

Product features

Customer logo

HC2000



2 Buttons	1 Motor	Screw mounting

Product features

- Customer logo
- LED backlighting
- Die-cast zinc housing

HC2001



2 - 5 Buttons	1 - 2 Motors	Screw mounting

Product features

- Customer logo
- LED backlighting
- USB charging port

HC2002



2-6 Buttons	1 - 3 Motors	Screw mounting

Product features

- Customer logo
- Brushed stainless steel surface

HC2011



4 Keys	2 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Finger-friendly glass surface

HC2012



4 Buttons	2 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Finger-friendly glass surface

HC2013



4 Buttons	2 Motors	Spring clip mounting

Product features

- Customer logo
- LED backlighting
- USB charging port
- Finger-friendly glass surface

HC300



2-6 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC305



2 - 10 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC312



2 - 8 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook

HC313



6 Buttons	3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo

HC314



6-8 Buttons	3-4 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC315



2 - 9 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC316



2 - 8 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo

HC317



3 - 9 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC319



2-18 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Customer logo
- Flashlight function
- LED backlighting
- Anodized aluminum housing
- Fingerprint-resistant glass surface

HC320



2-6 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Customer logo
- Flashlight function
- LED backlighting
- Fingerprint-resistant glass surface
- Stainless steel surface

HC330



18 - 22 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC335



10 - 18 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC338



2-6 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC346



2 - 8 Buttons	1 - 3 Motors	IP20 Protection class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC350



6 - 9 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- LED backlighting

HC390



2 - 4 Buttons	1 - 2 Motors	IP20 Protection Class

Product features

- Customer logo

HC3003



2 - 10 Buttons	1 - 3 Motors	IP66 Protection Class

Product features

- Soft-touch surface
- Customer logo
- Hand control hook
- Flashlight function
- LED backlighting

HC3004



4 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- LED backlighting

HC3100



2-6 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Soft-touch surface
- Customer logo
- LED backlighting
- Wireless technology

HC3340



9 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- LED backlighting
- Anodized aluminum housing
- Fingerprint-resistant glass surface

HC3355



12 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- LED backlighting

HC3740



5 Buttons	1 - 4+ Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting

HC3741



5 Buttons	1 - 4+ Motors	IP20 Protection Class

Product features

- Customer logo
- Hand control hook
- LED backlighting

HC518



6-7 Buttons	1 - 3 Motors	IP20 Protection Class

Product features

- Customer logo
- LED backlighting

HC519



2 Buttons	1 Motor	IP20 Protection Class

Product features

- **Customer logo**

GLASS. DESIGN. FUNCTION.

MODERN FURNITURE FOR NON-STANDARD APPLICATIONS

HC2011, HC2012 and HC2013 combine a high-quality glass appearance with intuitive operation. Their design integrates harmoniously into various furniture concepts, creating a simple and elegant look – ideal for functional, high-quality and versatile applications.



POWER SUPPLIES

Reliable Power for Compatible Actuator Systems

limoss power supplies provide safe and reliable power for actuator systems. Available in different power levels and versions, they offer suitable power solutions for various applications and system configurations.
Together with limoss actuators, control units, and control elements, they form an optimally coordinated system solution.










	MC110	MC111	MC115	MC120	MC121	MC122
Input Voltage	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	100– 240VAC	100– 240VAC
Output Voltage	24 V DC / 29 V DC	24 V DC / 29 V DC	24 V DC / 29 V DC / 35 V DC	24 V DC / 29 V DC	29 V DC	29 V DC
Output Current	1,0 - 2,0 A	1,0 - 2,0 A	1,5 - 2,5 A	1,0 - 2,0 A	2,0 A	3,0 A
Safety	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection
Protection Class	IP20	IP20	IP26	IP20	IP20	IP20
Protection Class	II	II	II	II	II	II
Intermittent operation	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.
LED operating status indicator	☐	☐	☐	☐	☐	☐
Ecodesign Directive 2009/125/EC	☐	☐	☐	☐	☐	☐
Secondary-side coupling	☐	☐	☐	☐	☐	☐
other						








	MC125	MC129	MC130	MC140	MC150	MC151
Input Voltage	100 – 240 V AC	100 – 240V AC	100– 240VAC	100– 240 V AC	100– 240VAC	100 – 240 V AC
Output Voltage	24 V DC / 29 V DC / 35 V DC	24 V DC / 29 V DC / 35 V DC	29 V DC	29 V DC	29 V DC	24 V DC / 29 V DC
Output Current	1,5 - 2,5 A	2,0 A	2,0 A	2,0 - 2,5 A	4,0 A	3,5 - 4,0 A
Safety	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection
Protection Class	IP26	IP20	IP20	IP20	IP20	IP20
Protection Class	II	II	II	II	II	II
Intermittent operation	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.
LED operating status indicator	☐	☐	☐	☐	☐	☐
Ecodesign Directive 2009/125/EC	☐	☐	☐	☐	☐	☐
Secondary-side coupling	☐	☐	☐	☐	☐	☐
other						













	MC172	MC173	PS1100	PS1101	PS1102	PS1103
Input Voltage	100– 240 VAC	100– 240VAC	100– 240VAC	100– 240VAC	200– 240VAC	100– 240VAC
Output Voltage	24V DC	29V DC	35V DC	35V DC	35V DC	35V DC
Output Current	1.0A	0.5A	2.5A	1.7A	1.7A	1.7A
Safety	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection	NTC temperature sensor, primary fuse, surge protection, overcurrent protection, short-circuit protection
Protection Class	IP26	IP26	IP26	IP26	IP26	IP26
Protection Class	II	II	II	II	II	II
Intermittent operation	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.	10% duty cycle, max. continuous operation 2 min.
LED operating status indicator	☐	☐	☐	☐	☐	☐
Ecodesign Directive 2009/125/EC	☐	☐	☐	☐	☐	☐
Secondary-side coupling	☐	☐	☐	☐	☐	☐
other						

BATTERIES

More Independence with Mobile Power

limoss batteries enable actuator systems to operate independently of the mains power supply, providing greater flexibility in applications. Available in different capacities and versions, they offer suitable energy solutions for various applications.
Together with suitable limoss actuators, control units, and charging solutions, they form flexible and reliable system solutions.










	MC160	MC161	MC164	MC166	MC167	MC168
Capacity	1,8 Ah	1,5 Ah	2,2 Ah	1,8 Ah	1,5 Ah	4 Ah / 6 Ah
Protection Class	III	III	III	III	III	III
Protection CLass	IP20	IP20	IP20	IP66	IP20	IP20
Internal charging circuit	☐	☐	☐	☐	☐	☐
Housing color	BLACK RAL 9005	BLACK RAL 9005	BLACK RAL 9005	BLACK RAL 9005 LIGHT GREY RAL 7035	BLACK RAL 9005	BLACK RAL 9005
Overcurrent protection	☐	☐	☐	☐	☐	☐
Short-circuit protection	☐	☐	☐	☐	☐	☐
LED operating status indicator	☐	☐ (GREEN/RED)	☐	☐	☐	☐
other						







	MC169	MC180	PP1001
Capacity	2,2 Ah / 3,95 Ah / 6 Ah	1,5 Ah	0,8 Ah
Protection Class	III	III	III
Protection CLass	IP20	IP20	IP20
Internal charging circuit	☐	☐	☐
Housing color	BLACK RAL 9005	BLACK RAL 9005 LIGHT GREY RAL 7035	BLACK RAL 9005
Overcurrent protection	☐	☐	☐
Short-circuit protection	☐	☐	☐
LED operating status indicator	☐	☐	☐
other	with charger MC174		

ENERGY,

WHERE IT IS NEEDED

limoss battery solutions enable electrical adjustment systems to operate continuously without a constant connection to the mains power supply. They are ideal for applications where freedom of movement and flexible positioning are a priority.

WIRELESS FLEXIBLE RELIABLE

CONTROL UNITS

Intelligent Control for Flexible Actuator Systems

limoss control units connect and coordinate the different components of an actuator system. Depending on the version, they enable the control of one or more actuators as well as the integration of additional functions and components.

Together with limoss actuators, control elements, power supplies, and accessories, they form optimally coordinated system solutions.















	MC210	MC220	MC222	MC224	MC225	MC226
Connection sockets (input / output)	8 pieces	5 pieces	5 pieces	7 pieces	4 pieces	modular
Protection Class	II / III	III	III	III	III	III
IP Protection Class	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP20	IP20
Clip bracket	☐	☐	☐	☐		☐
Actuator Clip Mounting	☐		☐	☐		
Battery compartment	1 piece	1 piece	2 pieces	2 pieces		
Dimensions (W × H × D), without spindle	238,3 x 69,5 x 111,0	161,5 x 45,5 x 79,0	192,5 x 45,5 x 79,0	192,5 x 49,9 x 99,0	72,0 x 44,0 x 68,3	161,5 x 35,2 x 98,5
Dimensions (W × H × D), with spindle	238,3 x 69,5 x 133,0	161,5 x 45,5 x 101,0	192,5 x 45,5 x 101,0	192,5 x 49,9 x 121,0	72,0 x 44,0 x 79,3	161,5 x 35,2 x 120,5
Mounting length / hole spacing		145,5 mm	176,5 mm	176,5 mm		145,5 mm







	MC227	MC230	MC235	MC260	MC2000
Connection sockets (input / output)	6 pieces		3 pieces	9 pieces	6 pieces
Protection Class	III	III	III	III	III
IP Protection Class	IP20	IP20	IP20	IP20, IP44, IP66	IP20
Clip bracket	☐			☐	☐
Clip-on attachment to actuator.				☐	☐
Battery compartment				2 pieces	
Dimensions (W × H × D), without spindle	116,0 x 96,0 x 34,0	84,0 x 29,0 x 39,0	82,0 x 44,0 x 93,1	216,8 x 61,6 x 126,5	155,5 x 65 x 25
Dimensions (W × H × D), with spindle			82,0 x 44,0 x 102,2	216,8 x 61,6 x 148,5	
Mounting length / hole spacing			69,0 mm		148 mm

ACCESSORIES

Versatile Accessories for Individual Systems.

Suitable accessories enable individual systems to be expanded and adapted to different applications and requirements. Our portfolio includes lighting, sensor technology, switches, cables, and various other components that provide additional functionality and flexibility.

For quick orientation, the accessories are divided into clear subcategories. This makes it easy to find the right components for your application.



MC250

Additional Modules



1 - 2 Connection sockets	III Protection Class	IP20 Protection Class

Product Features

- Flexible integration of additional functions
- Lighting control
- Power-off function
- Heating and ventilation
- RF modules

AC5701

Charging



24–36 V Input voltage	15 W Charging power	Qi Charging standard

Product Features

- Flexible neck
- Automatic device detection
- 360° rotatable

AC5703

Charging



24–36 V Input voltage	20 W Charging power	Qi / USB A / USB C Charging standard

Product Features

- MagSafe
- Flush-mounted design
- Multi-stage safety protection
- USB connection port (18 W USB-A + 20 W USB-C)

AC5704

Charging



24–38 V Input voltage	15 W Charging power	Qi Charging standard

Product Features

- RGB ambient lighting
- Premium glass design
- Multi-stage safety protection
- Suitable for smartphones, smartwatches and other devices

AC5705



12 V Input voltage	25 W Charging power	Qi Charging standard

Product Features

- MagSafe
- 6.5 mm raised charging surface
- Raised charging surface for smartphones with camera protrusion
- Multi-stage safety protection

AC5707

Charging



24–36 V Input voltage	30 W Charging power	Qi / USB Charging standard

Product Features

- Charging station for multiple devices
- MagSafe
- Fast charging: 30 W USB-C + 18 W USB-A
- Smart power distribution

AC5708

Charging



12 V Input voltage	25 W Charging power	Qi Charging standard

Product Features

- Flexible neck
- Adjustable smartphone holder
- MagSafe

AC5709

Charging



12 V Input voltage	10 W Charging power	Qi Charging standard

Product Features

- Rotatable surface
- Smooth-release folding mechanism
- Magnetic docking interface

AC5710

Charging



24–36 V Input voltage	10 W Charging power	Qi / USB A / USB C Charging standard

Product Features

- MagSafe
- Flush-mounted design
- Multi-stage safety protection
- USB connection port (10 W USB-A + 10 W USB-C)

AC5201

Charging Ports



24–35 V Input voltage	15 W Charging power	USB A / USB C Connection

Product Features

- USB-A/USB-C, max. 10 W
- Metal front surface
- Seamless, flush-mounted installation

AC5202

Charging Ports



24–36 V Input voltage	15 W Charging power	USB A / USB C Connection

Product Features

- Multiple devices can be charged simultaneously
- LED ring
- Smart power distribution
- Fast charging: USB-A 18 W, USB-C 30/20 W

AC5203

Charging Ports



24–36 V Input voltage	15 W Charging power	USB A / USB C Connection

Product Features

- Multiple devices can be charged simultaneously
- LED ring
- Smart power distribution
- Fast charging: USB-A 18 W, USB-C 30/20 W

AC5204

Charging Ports



18–35 V Input voltage	Adjustable Charging power	2-pin Connection

Product Features

- Easy and quick installation
- High-quality metal surface
- Integration via external power supply

AC5205

Charging Ports



18–35 V Input voltage	Adjustable Charging power	USB A Connection

Product Features

- Easy and quick installation
- High-quality metal surface
- Integration via external power supply

AC5207

Charging Ports



12–36 V Input voltage	Adjustable Charging power	Magnetic Connection

Product Features

- Magnetic Qi charging
- Plug-and-Play charging
- Robust plastic housing

AC5208

Charging Ports



12–36 V Input voltage	15 W Charging power	USB / Magnetic Connection

Product Features

- USB-C 20 W / USB-A 18 W
- Multifunctional charging base
- Robust metal housing

LA100

Lighting



24–35 V Input voltage	<1.5 W Power	4000–6500 K Light color

Product Features

- Compatible with Bioclimatic systems

LA101

Lighting



24–35 V Input voltage	<1.5 W Power	4000–6500 K Light color

Product Features

- Compatible with Bioclimatic systems
- Motion sensor

LA102

Lighting



24–35 V Input voltage	<1.5 W Power	4000–6500 K Light color

Product Features

- Compatible with Bioclimatic systems
- Motion sensor
- Lighting contro

LA116

Lighting



12 V Input voltage	8 W/m Power	Variable Light color

Product Features

- Customizable length
- Power depends on length
- Connection via wire

LA119

Lighting



12 V Input voltage	0.1 W/m Power	Variable Light color

Product Features

- Customizable length (600–5,000 mm)
- Power depends on length

LA1102

Lighting



12–32 V Input voltage	2 W Power	3000 / 6000 K Light color

Product Features

- Touch control
- Two-color lighting
- CRI 80 daylight
- 355° adjustable lamp
- Fast charging: USB-C 20 W + USB-A 18 W

LA1103

Lighting



12 V Input voltage	2 W Power	3000 K Light color

Product Features

- Ambient light sensor
- Motion sensor
- Automatic switch-off after 30 seconds

AC700

Massage



Air Massage	Back Application Area

Product Features

- Flexible 1–5 air chamber groups
- Single- or double-layer air massage

AC701

Massage



Air massage	Back application area

Product Features

- Natural massage with ergonomic design
- Suitable for smart massage chairs

AC2004

Brackets



Cup holder version	227 × 202 mm dimensions	Screw mounting

Product Features

- MagSafe 15 W wireless charging
- 2 electrical cup holders
- 2.1 Bluetooth sound system
- Music-controlled RGB lighting

AC2005

Brackets



Cup holder version	117 × 98 mm dimensions	Screw mounting

Product Features

- RGB ambient lighting (7 colors)
- Fast charging: USB-C 30 W + USB-A
- Bluetooth 2.0 headphone control
- Waterproof connection cover

AC6200

Temperature



24 V input voltage	Max. 65 °C temperature range	39 W power

Product Features

- Suitable for panel heating
- Integrated ventilation and heating pad
- Adjustable fan speed

MC307

Wireless Plug-in Modules



RF wireless technology	8 m range	Cable connection

Product Features

- Suitable for all limoss actuators and control units with wireless plug-in solutions
- 1–2 actuator solution
- 2.4 GHz wireless frequency
- Easy installation

MC309

Wireless Plug-in Modules



RF wireless technology	8 m range	Direct connection

Product Features

- Cable solution for MD201 actuators
- Integrated under-bed LED lighting
- For 1–2 actuator systems
- 2.4 GHz wireless frequency

MC310

Wireless Plug-in Modules



RF wireless technology	8 m range	Direct connection

Product Features

- Compact wireless extension
- Max. 2-actuator systems
- Wireless charging
- For roller shutter applications only
- 2.4 GHz wireless frequency

MAINTENANCE

Reliable Motion Solutions for Care and Medical Applications

limoss actuator systems provide precise, safe, and comfortable adjustment solutions for care and medical applications. From care beds and hospital beds to patient lifting systems, we offer coordinated solutions for a wide range of system requirements.



Care beds



Hospital beds



Patient lifting systems



Our Solutions - Our Advanteges



SINGLE ACTUATORS



HAND CONTROLS



CONTROL UNITS



POWER SUPPLIES



BATTERIES



ACCESSORIES

Complete System from a Single Source
All components are optimally compatible with each other and provide maximum reliability.

SINGLE ACTUATORS

Flexible Actuator Solutions for a Wide Range of Applications

limoss single actuators provide reliable motion solutions for a wide range of applications in furniture, mobility, and industrial applications. With different designs, mounting options, and performance levels, they offer flexible adaptation to individual requirements.

Various versions and options are available depending on the application. Together with limoss control units, control elements, and power supplies, they form optimally coordinated actuator systems.










	MD120	MD121	MD125	MD130	MD1200	MD1201
Max. pushing force	7.000 N	6.000 N	3.000 N	1.000 N	10.000 N	6.000 N
Max. pulling force	6.000 N	6.000 N	3.000 N	1.000 N	8.000 N	6.000 N
Min. installation length	170 mm + Strok	145 mm + Strok	120 mm + Strok	153 mm + Strok	180 mm + Strok	162 mm + Strok
Strok	600 mm	600 mm	400 mm	300 mm	600 mm	600 mm
Max. no-load speed	48 mm/s	48 mm/s	48 mm/s	29 mm/s	40 mm/s	24 mm/s
Protection class	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP44	IP44, IP66
Mounting – push tube side	1, 2, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	5, 6, 7	1, 5, 6	1, 2, 3, 4, 5, 6
Mounting – motor side	a, b, d, e, f	a, c	a	g	a	a

DUAL ACTUATORS

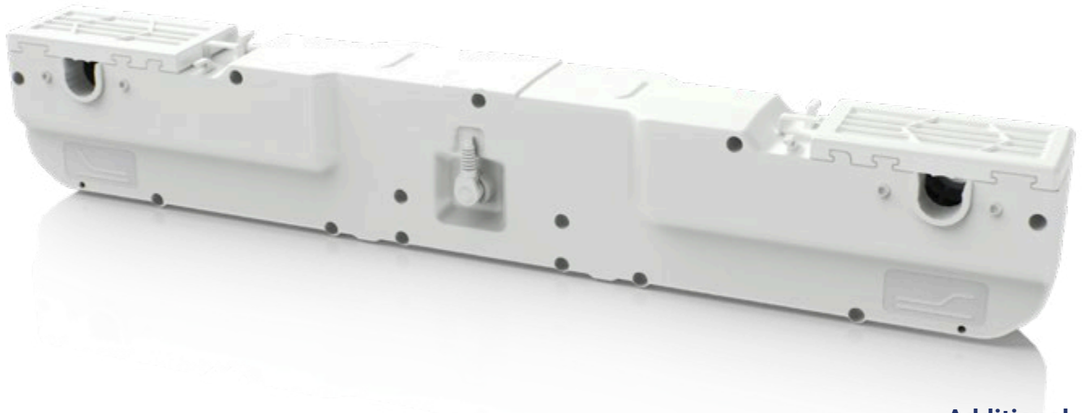
Compact Actuator Solution for Adjustable Furniture

limoss dual actuators combine two actuators into one compact unit and allow different motion areas to be adjusted independently. They offer direct integration into the furniture construction, space-saving design, and an efficient system solution.
Together with suitable limoss control elements, power supplies, and accessories, they form an optimally coordinated actuator system.

MD201

Technical Data

- Head section pushing force: 5,000 N / foot section: 4,000 N
- Installation length: 581 mm
- Stroke: 48, 53, 69, 74 or 87 mm
- M cable connection: Ø 25 mm
- Installation height: 114.5 mm
- Duty cycle: Continuous operation max. 2 min., followed by an 18 min. waiting period



OPTIONAL

- Rod connection Ø 34 mm
- Position detection via Hall sensor or additional microswitch
- Emergency lowering with 9 V or 18 V alkaline manganese batteries
- External power supply
- Wireless operation
- Mechanical quick release (MSE)
- External wireless receiver, with or without LED
- Under-bed lighting
- Integrated LED under-bed lighting (LA501) up to 6,000 N
- Metal reinforcement

Additional Information

- DC motors
- Housing color: black RAL 9005 or light grey RAL 7035
- Protection class IP20 or IP24
- Protection class II / III
- Mains connection: 100–240 V AC
- Very low standby power consumption
- Compatible with various limoss control elements
- Connection for max. 2 additional actuators or additional functions
- End-position detection via microswitch
- Maintenance-free

HAND CONTROLS

limoss offers a wide range of hand controls for customizing your products.

In addition to classic wired hand controls, many of our hand controls are available in the HC3 series (HC = hand control) as wireless versions or in the HC2 series as built-in hand controls.

Various housing colors and surfaces, LED-illuminated buttons in different colors, customer-specific logos, and button symbols are also available as options. For most of our hand controls, a hook or magnetic plate can be added to allow the hand control to be easily attached to the furniture when not in use or to prevent unauthorized access. Depending on the application, a locking mechanism can also be integrated for specific functions of the hand control. This is particularly useful and important in the care sector.

We are also happy to develop customized solutions specifically for you.



HC140



2 - 8 Buttons	1 - 4 Motors	IP66 Protection Class

Product Features

- oft-touch surface
- Customer logo
- Hand control hook
- Mechanical locking switch
- First-fault safety

HC145



2 - 12 Buttons	1 - 6 Motors	IP44 Protection Class

Product Features

- Customer logo
- Hand control hook
- Mechanical locking switch
- First-fault safety

HC146



2 - 12 Buttons	1 - 4 Motors	IP66 Protection Class

Product Features

- Hand control hook
- LED backlighting
- Mechanical locking switch
- First-fault safety

HC147



2 - 8 Buttons	1 - 4 Motors	IP66 Protection Class

Product Features

- Customer logo
- Hand control hook
- Mechanical locking switch
- First-fault safety

HC148



2 - 8 Buttons	1 - 4 Motors	IP44 Protection Class

Product Features

- Customer logo
- Hand control hook
- Mechanical locking switch
- First-fault safety

HC149



2 - 4 Buttons	1 - 2 Motors	IP44 Protection Class

Product Features

- Customer logo
- Hand control hook
- Mechanical locking switch
- First-fault safety

HC280



2 - 25 Buttons	1-4+ Motors	Screw mounting

Product Features

- Customer logo
- Hand control hook
- LED backlighting

HC3280



19 Buttons	1 - 3 Motors	IP20 Protection Class

Product Features

- Customer logo
- LED backlighting

CONTROL UNITS

Intelligent Control for Flexible Actuator Systems

limoss control units connect and coordinate the different components of an actuator system. Depending on the version, they enable the control of one or more actuators as well as the integration of additional functions and components.

Together with limoss actuators, control elements, power supplies, and accessories, they form optimally coordinated system solutions.










	MC210	MC220	MC222	MC224	MC260	MC2202
Connection sockets (Input / Output)	8 pieces	5 pieces	5 pieces	7 pieces	9 pieces	10 pieces
Protection class	II / III	III	III	III	III	III
Protection rating	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP20, IP44, IP66	IP66
Clip bracket	☐	☐	☐	☐	☐	☐
Actuator clip mounting	☐		☐	☐	☐	☐
Battery compartment housing	1 piece	1 piece	2 pieces	2 pieces	2 pieces	
Dimensions (W × H × D) – without clip	238,3 x 69,5 x 111,0	161,5 x 45,5 x 79,0	192,5 x 45,5 x 79,0	192,5 x 49,9 x 99,0	216,8 x 61,6 x 126,5	166 x 135,5 x 47,6
Dimensions (W × H × D) – with clip	238,3 x 69,5 x 133,0	161,5 x 45,5 x 101,0	192,5 x 45,5 x 101,0	192,5 x 49,9 x 121,0	216,8 x 61,6 x 148,5	
Mounting length – hole spacing		145,5 mm	176,5 mm	176,5 mm		50 mm

Ready For Your Next Motion Solution

limoss actuator systems combine the highest quality, innovative technology, and reliable engineering. Together with our partners, we look forward to developing solutions that bring motion to life.

- **German Quality**
  Engineered in Germany
- **Fast Delivery**
  Reliable and on time
- **Custom Solutions**
  Developed for your specific requirements
- **Expert Support**
  We are by your side with our expert team
- **Long-Standing Experience**
  Proven systems trusted by customers worldwide



limoss

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TOGETHER, WE CREATE SUSTAINABLE VALUE



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