## SEATING SYSTEMS





Innovative solutions for drive & system technology

## System solutions for Seating applications

Adjustable armchairs with motorized back and foot sections are currently quite popular: Reclining television armchairs and other reclining seating are expected to be very comfortable. Stand-up chairs, which are particularly relevant for seniors, have a motorized adjustable stand-up assistance feature, which helps to promote mobility. Modern motorized armchairs are being configured with more special features, such as Bluetooth or memory functionality, that provide real benefits for their users.

OKIN is a specialist in actuator and system technology for motorized chair and sofa applications, with more than 20 years of experience in the seating industry. We not only manufacture components such as actuators, control units and control keypads, but also design and implement tailor-made customized projects. In the joint planning phase, we custom-design the entire system and program the required functional sequences to match the customer's requirements. Our customers also benefit from our speedy delivery times and global sales network that is able to help them with any service issues.

#### **Compact actuators for adjustable armchairs**

The elegant design of many modern adjustable armchairs leaves little room for electrical components. That is why OKIN actuators have

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a very compact construction. With their minimal installation dimensions, they enable a large lifting stroke even in confined spaces. The actuators operate with a pushing force of up to 6,000 N – thus, despite their compact design, they are suitable for a wide range of applications and heavy-duty tasks. They also feature outstanding reliability and a gentle adjustment mechanism for the height, back or foot section.

#### Control units and control keypads: a wide range of functions for adjustable armchairs

Intelligent control units are essential for implementing customized motion profiles and extended functionality. The CU165 control unit is capable of connecting with up to four OKIN actuators. The patented ripple count technology makes it possible to save customized memory positions for OKIN actuators without Hall sensors. The built-in bi-directional 2.4 GHz radio control enables wireless operations for all functions thanks to our patented, interference-free wireless transmissions. We have a wide selection of matching wireless hand-held transmitters for adjustable armchairs and many optional components (USB chargers, etc.).

The CU165 and many other OKIN control units have built-in Bluetooth so that the motorized armchairs can be operated using mobile devices

# Product overview

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**Relax Chair** 

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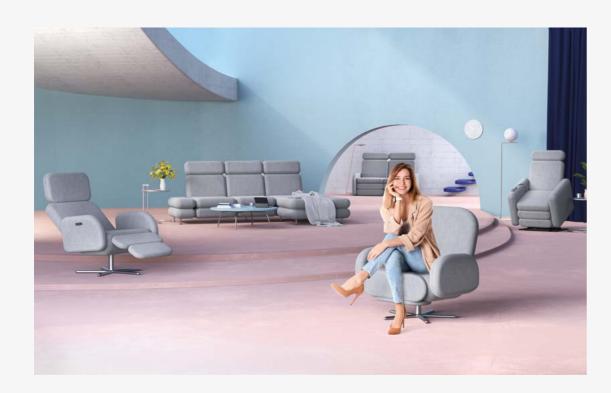


System solutions Product overview

# **Business solutions**

#### Reliable technology for adjustable seating furniture

Electrically adjustable chairs and sofas ensure outstanding comfort in everyday life and turn your own living-room into an oasis of well-being. The key features for this type of seating furniture are the smooth changes in position and the excellent user-friendliness. This is achieved by taking advantage of the intelligent components provided by OKIN. The OKIN brand encompasses a broad portfolio for users – with products that can be used for mid-range and highend applications.



#### **Residential Seating**

Today, adjustable seating furniture is an essential part of a comfortable and at the same time ergonomic interior design. Whether relax armchair, relax sofa or other variants: Comfort furniture is comfortable and versatile seating that,

thanks to modern technology, offers much more than just a comfortable sitting experience. DewertOkin develops for this from the drive up to the hand switch demand-oriented solutions according to all requirements.



#### **Relax chair**

Electrically adjustable armchairs are becoming increasingly popular. OKIN's drive and system technology includes the right components for comfortable seating furniture that invites you to relax and unwind.



#### **Cinema**

Modern, high-quality cinema seats require equally high-performance mechanisms – OKIN understands the importance of this. In the area of mechanisms technology, we offer a diverse range of products that cover a wide variety of cinema requirements such as drives, controls, operating elements and accessories for adjustable cinema seats.



#### Lifter chair

Senior citizens and people with physical disabilities in particular need help to ensure mobility in every-day life. Drive and mechanism technology from OKIN is ideally suited for electrically adjustable armchairs that have an integrated stand-up aid.

4 Business solutions 5



JLDQ.23



Load capacity (max.)	2,500 N	
Motor voltage	24 – 29 V DC motors	
Fitting dimensions (min.)	100 mm + stroke	
Adjustment speed (max., unloaded)	30 mm/s	
Stroke length (max.)	150 mm	
Features	<ul> <li>Perfect for applications where space is tight</li> <li>Durable and reliable</li> </ul>	

JLDQ.14B



3,000 N		
24 – 29 V DC motors, maintenance-free		
≥ 130 mm + stroke		
35 mm/s		
350 mm (+/– 2 mm)		
<ul> <li>Small and compact design with optimized performance</li> <li>Requires minimal space</li> </ul>		

6 Single drives

#### Microdrive 3



Load capacity (max.)	4,000 N	
Motor voltage	24 – 29 V DC motors, maintenance-free	
Fitting dimensions (min.)	105 mm + stroke	
Adjustment speed (max., unloaded)	35 mm/s	
Stroke length (max.)	350 mm	
Features	<ul><li>All-metal housing</li><li>Adjustable gear clevis (0° and 90°)</li></ul>	

#### Alphadrive 5



Load capacity (max.)	6,000 N	
Motor voltage	24 – 29 V DC motors, maintenance-free	
Fitting dimensions (min.)	130 mm + stroke	
Adjustment speed (max., unloaded)	35 mm/s	
Stroke length (max.)	350 mm	
Features	<ul><li>Compact fitting dimensions</li><li>High load capacity</li></ul>	

#### JLDQ.19



Load capacity (max.)	6,000 N		
Motor voltage	24 – 29 V DC motors, maintenance-free		
Fitting dimensions (min.)	150 mm + stroke		
Adjustment speed (max., unloaded)	42 mm/s		
Stroke length (max.)	500 mm +/- 2 mm		
Features	<ul><li>Compact installation dimensions</li><li>Powerful adjustment forces</li></ul>		

#### JLDQ.19B



Load capacity (max.)	4,000 N	
Motor voltage	24 – 29 V DC motors, maintenance-free	
Fitting dimensions (min.)	150 mm + stroke (+/- 2 mm)	
Adjustment speed (max., unloaded)	56 mm/s	
Stroke length (max.)	500 mm +/- 2 mm	
Features	<ul> <li>Compact installation dimensions</li> <li>Powerful adjustment forces</li> <li>Fast adjustment speed</li> </ul>	

#### JLDQ.18



Load capacity (max.)	3,000 N	
Motor voltage	24 – 29 V DC motors, maintenance-free	
Fitting dimensions (min.)	123 mm + stroke (+/– 2 mm)	
Adjustment speed (max., unloaded)	52 mm/s	
Stroke length (max.)	500 mm +/- 2 mm	
Features	<ul><li>Smallest installation dimension of 123 mm</li><li>Low weight</li></ul>	

JLDQ.27



Load capacity (max.)	6,000 N	
Motor voltage	24 – 29 V DC motors, maintenance-free	
Fitting dimensions (min.)	≥ 130 mm + stroke	
Adjustment speed (max., unloaded)	51 mm/s	
Stroke length (max.)	500 mm	
Features	Hall sensor     Powerful adjustment forces	

#### JLDQ.25



2,000 N		
24 – 29 V DC motors, maintenance-free		
≥ 90 mm + stroke		
10.4 mm/s		
300 mm		
<ul><li>Compact installation and housing dimensions</li><li>Low weight</li></ul>		

#### JLDQ.26



Load capacity (max.)	1,500 N		
Motor voltage	24 – 29 V DC motors, maintenance-free		
Fitting dimensions (min.)	≥ 102 mm + stroke		
Adjustment speed (max., unloaded)	⊀Δ mm/s		
Stroke length (max.)	300 mm		
Features	S – Compact installation and housing dimensions – Low weight		

10 Single drives



#### **Wired handsets**

Number of keys

Position LED

Bottom housing section: black
- Top housing section: silver

Blue backlit lighting
- Function LED
- USB Socket

SPline

2 - 7

2 - 7

Housing colour (top/bottom)
black/black

Housing colour (top/bottom)
black/black

- Blue backlit lighting
- Function LED
- Function LED
- Function LED
- Function LED

#### **Wireless handsets**

Optional home button

Compatibility  Combinable with all OKIN seating systems  Option  Bidirectional  Combinable with all OKIN seating systems  Customizable buttons  Customizable buttons  Customer-specific printings  Customer-specific printings		RF Eco+	RF Eco	RF Topline
Connection       RF technology 2.4 GHz Bidirectional         Compatibility       Combinable with all OKIN seating systems       Combinable with all OKIN seating systems       Combinable with all OKIN seating systems         Option       - Customizable buttons - Customer-specific printings       - Customer-specific printings       - Customer-specific printings				
Compatibility   Combinable with all OKIN seating systems   Customizable buttons   Customer-specific printings   Did not compatible with all okin seating systems   Did not combinable with all okin seating systems   Combinable with all okin seating systems   Customizable buttons   Customer-specific printings   Customer-specific printings   Okin seating systems   Ok	Number of keys	2 – 10	2 or 6	7 – 15
OKIN seating systems  - Customizable buttons - Customer-specific - Customer-specific - Customer-specific - Customer-specific - printings - Customer-specific - printings	Connection			RF technology 2.4 GHz Bidirectional
Option – Customer-specific – Customer-specific – Customer-specific printings printings printings	Compatibility			
	Option	<ul> <li>Customer-specific</li> </ul>	<ul> <li>Customer-specific</li> </ul>	
Certification RED RED RED	Certification	RED	RED	RED

12 Handsets



#### **Chair Control Mira**





#### **Chair Control MP**



	Chair Control Mira	Chair Control SeeSaw	Chair Control MP
Control Unit	Direct control	Direct control	Direct control
Color	Black (buttons: metal)	Black	Metal housing
Buttons	2 – 4	4 (2 rocker switches)	2 – 4
Protection type	IP20	IP20	IP20
Built-in USB charger	Yes	Yes	Yes

14 Chair controls



#### **Ridge Family**

#### New switch

**JLDK.55.02.01** With USB

JLDK.55.05.01
With USB & home button

JLDK.55.07.01 With USB & home button & Lumbar







#### **Features and Benefits**

- High quality design with neat apprearance
- Suitable for recliners, headrests and lumbar
- With home button
- The cover is electroplated with wire brush effect

Low Power Consumption on USB plug

Stand-by consumption

#### **Infinite Family**

#### New switch

JLDK.54.05.02 With USB & home button JLDK.54.07.01
With USB & home button





**Backlight option** 

**Backlight option** 

#### **Features and Benefits**

- Suitable for recliners, headrests and lumbar
- With home button
- Separated area for switch buttons and the USB plug
- User-friendly
- The cover is electroplated with wire brush effect

**Low Power Consumption** 

Stand-by consumptio

Ridge & Infinite Family



CU155+



Connection	Integrated 2.4 GHz RF receiver Bidirectional, interference-free Integrated Bluetooth® receiver
No. of actuators	Up to 4 actuators
Mounting options	Mounting plate

Mounting options Mounting plate

Safety Overload current switch-off

Connecting cable Attached supply cable

Can be combined with OKIN Powerpack
 Features - Can be combined with all OKIN wireless handsets

(2.4 GHz bidirectional)

**CU165** 



Connection Integrated 2.4 GHz RF receiver
Bidirectional, interference-free
Integrated Bluetooth® receiver

No. of actuators
Up to 4 actuators
(with hall sensors and PWM-control)

Mounting options
Mounting plate

Safety Overload current switch-off

Connecting cable Attached supply cable

Features

- Customized programming
- Can be combined with OKIN Powerpack
- Can be combined with all OKIN wireless handsets
(2.4 GHz bidirectional)

18 Control units



PD21/22



Control	SMPS	
Power supply	Wide input voltage range 100 – 240 V/AC	
Output voltage	29 V DC constant voltage output	
Connecting cable	Pluggable	
Indicators	LED operating status indication (green)	
Safety	<ul> <li>NTC temperature sensor</li> <li>Primary fuse</li> <li>Overload protection</li> <li>Overcurrent switch-off</li> <li>Short-circuit-proof output</li> </ul>	

#### PP1800



Control	Power pack (Li-lon)		
Capacity	1800mAh		
Output voltage	29 V DC		
Connecting cable	2 x LSP Socket and Plug		
Indicators	LED operating status indication (orange and green)		
Safety	<ul> <li>Overheating protection</li> <li>Overload protection</li> <li>Overload current switch-off</li> <li>Short-circuit proof</li> <li>Deep-discharge protection</li> <li>Acoustic warning signal</li> </ul>		

20 Accessories 2



#### **Multi-Function Cup Holder**

نے

**Motor Contro** 



**Cooling Cupholde** 



Ambient Light



**USB Chargin** 



Wireless Charging



Phone Holder



#### **CU165**



Connection	Integrated 2.4 GHz RF receiver Bidirectional, interference-free Integrated Bluetooth® receiver	
No. of actuators	Two actuators	
Mounting options	Mounting options Mounting plate	
Safety overload	Current switch-off	
Connecting cable	Attached supply cable	
Features	Mass opener and closer     Connection for two motors	

- Anti-entrapment system

22 Cinema

# Smart technology for adjustable seating furniture

#### One-stop shopping for intelligent furniture

With more than 20 years of experience in the furniture industry, DewertOkin is the world's leading manufacturer of drive and system technology for motorized seating applications. As a supplement to its established product portfolio, DewertOkin develops mechanical systems for adjustable upholstered furniture under the brand name OKIN.

System solutions by DewertOkin guarantee a "one-stop shop" experience with numerous advantages. Whether it's comfort chairs for home furnishings or sophisticated cinema seats – DewertOkin supplies actuators, mechanisms, control units, operating elements and mechanism technology from a single source.

#### Wide range of functions

Mechanical components made by OKIN offer numerous smart functions with a true added value for the user. The anti-entrapment system is a patented feature which will stop the closing movement of the mechanism in case of any dangerous situation and is easily assembled to existing applications. The occupancy sensor uses capacitive technology that determines whether a seat is occupied by a person or not. This information could be used for several applications like automatic activation or deactivation, system wake up or sleep, and any other functions related to any connected device.

The Cinema seating control unit is an all-inclusive solution for the modern cinema working with one and two actuator applications. The cinema seats can be driven intuitively by the end user through a wireless local switch connected to the control unit to reach the desired position. Additionally, wireless remote mass opening and closing of all seats is possible to facilitate the staff's work before and after a show.

#### Mechanical components and drive technology combined

Combined with DewertOkin actuator technology, users receive powerful systems for modern adjustable upholstered furniture that can satisfy the highest demands. OKIN offers a wide product portfolio of single actuators from the very compact MICRODRIVE 3 to the powerful JLDQ.19 with 6,000 newton of push force. DewertOkin is able to implement smooth and fast adjustments for mechanism applications because of its requirements-based coordination of recliner mechanisms and actuators. A wide range of handsets and operating elements ensures convenient operations. The wireless variants feature integrated RF and Bluetooth connectivity, so that upholstered furniture can be adjusted using radio hand transmitters, apps or voice control. Users can operate their furniture conveniently via smartphone or tablet. Our systems can be supplemented by accessories including integrated modular power packs for battery-powered supply.



Seating furniture













Headrest and Lumbar Option Available

#### **Features and Benefits**

- Wall-away function
- The armrest follows the movement of the seat
- Available in Manual or Power versions
- Available with cable/handle/leaver
- Available in different sizes
- Safe footrest levers with no pinch points

#### **Application**

Single Loveseat Sofa Sectional

26 Metal to Floor 27













#### **Features and Benefits**

- Available in different sizes
- Integrated power headrest and lumbar
- Actuators all mounted at the center of the back for a steady movement

#### **Application**

Single Loveseat Sofa Sectional

**Options** 

28

2528 Headrest & Power lumbar

















#### **Features and Benefits**

- Ingenious design to prevent the deformation
- Large diameter cross tubes and extended life rivet joints
- KD brackets allow easy back removal for handling
- Fits same frame as Rocker/Glider
- Available in different sizes
- Power with Zero Gravity effect

#### **Application**

Single	Loveseat	













#### **Features and Benefits**

- Ingenious design to prevent the deformation
- Large diameter cross tubes and extended life rivet joints
- KD back brackets allow easy back removal for handling
- Available in different sizes

#### **Application**

30

Single	Loveseat	Sofa	Sectional

#### 906 Rocker (manual)











leadrest and Lumbar Option vailable

31

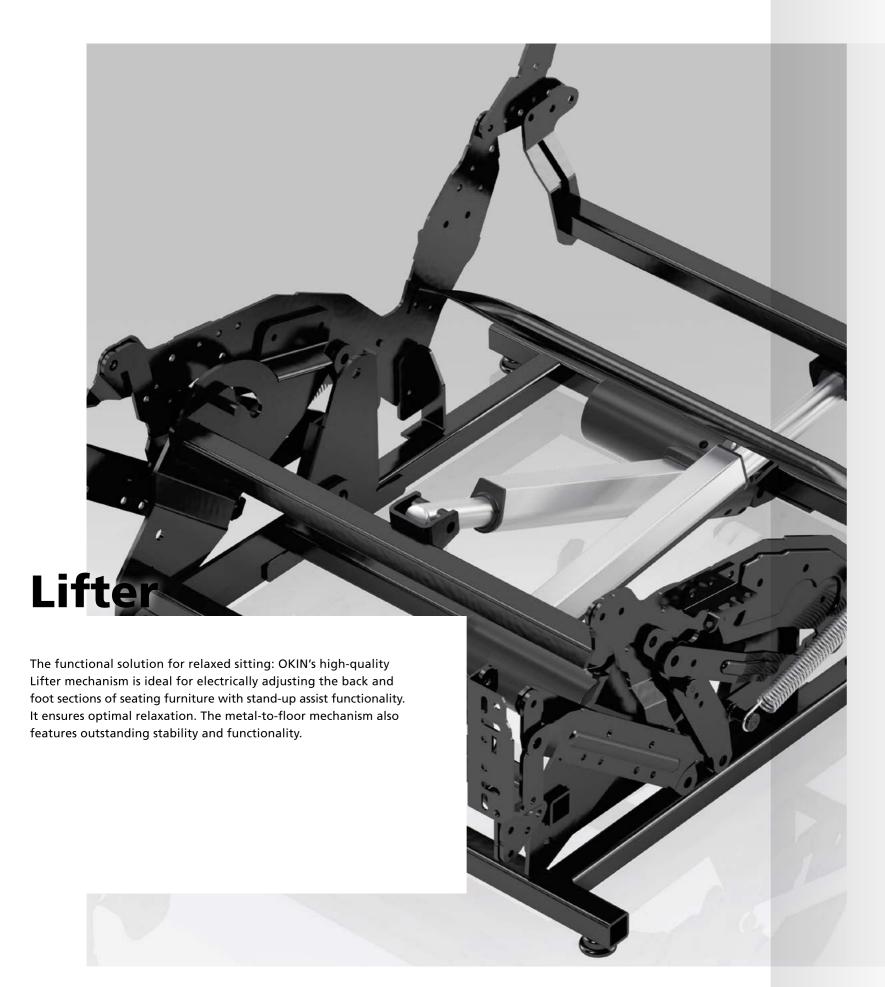
#### **Features and Benefits**

- Large diameter cross tube and extended life rivet joints
- KD back brackets allows easy back removal for handling
- Activating options: Cable release/outside handle/inside handle
- Available in different sizes

#### **Application**

Single	Loveseat	Sofa	Sectional

Metal to Floor



#### 6111D Lifter











Headrest and Lumbar Option Available

#### **Features and Benefits**

- Power lift mechanism
- Ideal for comfortable seating applications using one drive
- Only available as a motorized version
- Stand-up assist functionality
- Available in different sizes

#### **Application**

#### Single



32 Lifter 33

#### 6311D Lifter













#### **Features and Benefits**

- 2 motors drive
- Ingenious design to prevent the deformation
- Large diameter cross tubes and extended life rivet joints
- KD back brackets allow easy back removal for handling
- Available in different sizes

#### **Application**

#### Single



34

#### 6511D Lifter













35

#### **Features and Benefits**

- Dual-motor lift chair mechanism
- The chair can be easily and safley moved thanks to its built-in
   4-wheels roller caster system
- Backrest reclining up to 130 degrees provides multiple comfortable relaxing positions
- Large load bearing capacity

#### **Application**

#### Single



Lifter



#### 5216D Zero Gravity











Headress and Lumbar Option Available

#### **Features and Benefits**

- Power with zero-gravity effect
- Added zero-gravity function to the basis of wood to floor mechanism
- Ingenious design to prevent the deformation
- KD back brackets allow easy back removal for handling
- Available in different sizes

#### **Application**

38

Single	Loveseat	Sofa	Sectional

#### 5816D













39

#### **Features and Benefits**

- Wood to Floor mechanism. Power Only
- Extend footrest with more reclining
- Appliable for High Leg recliners
- Available in different sizes
- Options for matching power headrest
- Safe footrest with no pinchpoints

#### **Application**

Single	Loveseat	Sofa	Sectional



#### 2313

#### **Features and Benefits**

- Perfect for tall backrest
- Fits very thin backrests
- Opening angle: 55°
- Available in various sizes and as a motorized version



#### 2313A

#### **Features and Benefits**

- One-side drive mounting for more free space in the back
- Suitable for larger back widths due to additional crossbar
- U-shape hole that allows wood frame tolerances
- Suitable for thin backrest
- Opening angle: 55°
- Multiple widths available



#### 2314A

#### **Features and Benefits**

- All-in-one center drive
- Springs on both sides as safety feature
- U-shape hole that allows wood frame tolerances
- Suitable for thin backrest
- Opening angle: 57°
- Multiple widths available



40 Headrests 4



#### 2316A

#### **Features and Benefits**

- Fully integrated mechanism. Easy assembly
- Anti-Pinch Function
- Chromed Visible levers
- Fully Opening Height for Headrest: 50°
- Available in different widths
- Suites contemporary designs



#### 2521

#### **Features and Benefits**

- Higly customizable seating position and comfort
- Vertical zero point for traditional tall backs
- Actuator on the side to increase comfort in the backrest
- Opening angle: 55°
- Multiple widths available



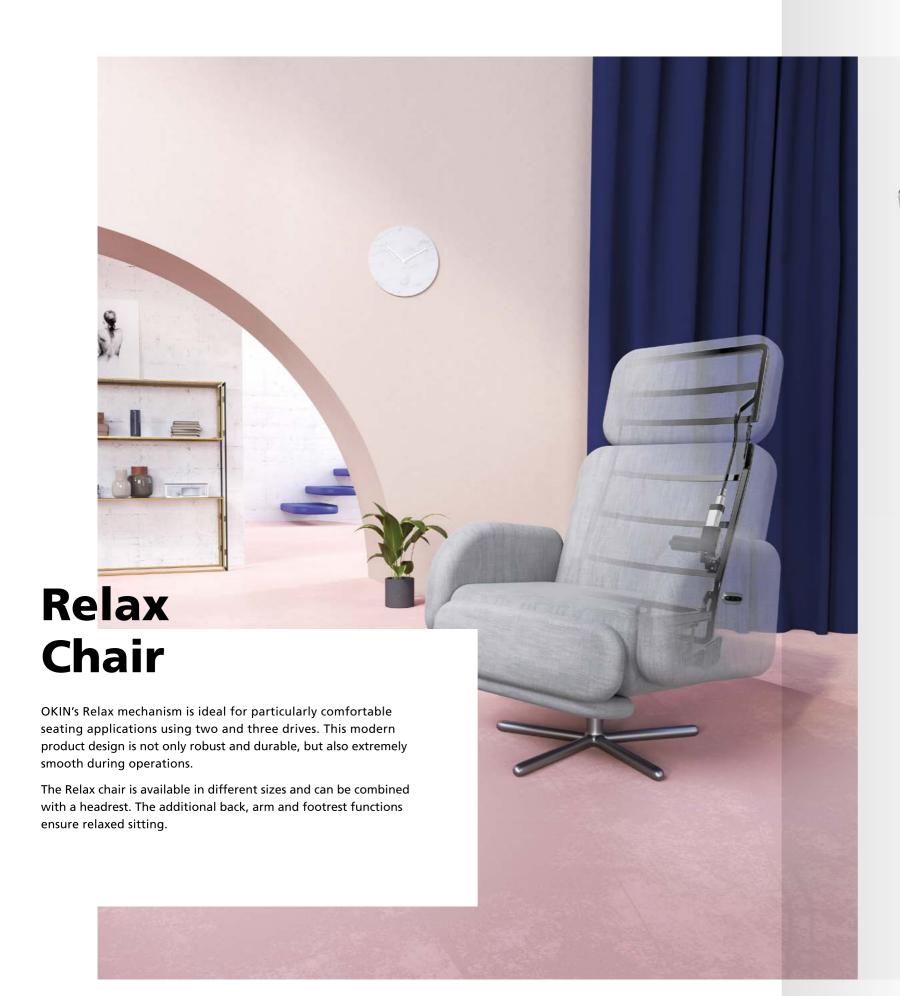
#### 2813

#### **Features and Benefits**

- Highly customizable support and comfort
- Perfect for traditional tall backs
- Multiple widths available



42 Headrests 43



3021 & 3031 Relax Chair









- Relax Chair 2 and 3 motors
- Footrest and backrest with 2 motors drive
- Higher and longer leg support
- Support back, arm and base options
- Modern design
- Optional with motorized neckrest (3031)















#### **Features and Benefits**

- Relax Chair with a 2-motor-system
- Independent movement of foot and backrest
- 360° swivel movement
- Specially designed to remove the gap between seat and back
- Modern design

Relax Chair

### DewertOkin Technology Group Co., Ltd.





DewertOkin GmbH is an internationally recognized manufacturer of drive, system and mechanism technology.

Our company is part of the DewertOkin Technology Group headquartered in JiaXing Zhejiang, China. We maintain the brands OKIN and Dewert for the linear drives. They are widely used in smart furniture (such as motion upholstery, massage chairs, theatre seating, recliners and adjustable beds), medical applications (such as medical and nursing beds) and adjustable office desk control systems. We are a main partner for several major furniture factories. Our goal is to provide complete smart furniture solutions worldwide.

46 About us



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