



Heart & Technology



KOYO :The original solution
for your sofa
Catalogue Rev.5

The KOYO Philosophy

KOYO was established in 1926 and started to manufacture a wide variety of functional components that make the furniture and equipment we use today more user-friendly. Our mission is to blend Heart and Technology to make a contribution to global markets through a corporate focus on human values, developing products of superior quality and safety. We will continue to work hard to win the trust and respect of our customers and our partners all over the world.



Craftsmanship with Heart & Technology



unbreakable
GEAR

SOUND
zero



EL series



P.03-04 JAPAN QUALITY

P.05-06 Product Spec List

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P.13-16 Unbreakable

P.17-20 α Gear

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P.23-26 LS Gear 200N·m

P.27-30 LS Gear 100N·m

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P.49 Joint

JAPAN QUALITY

KOYO has been improving our production efficiency and our quality standard based on our Kaizen, 5S (Seiri, Seiton, Seisou, Seiketsu, Shitsuke) principles. We are to make our best efforts to supply our products throughout the world.



Head Office (Osaka, Japan)

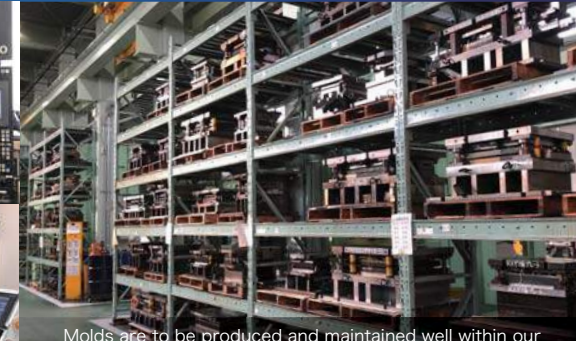
KOYO head factory is located in Sakai City, Osaka, Japan. Sakai is an industrial center of traditional craftsmanship.



Our core planning, development, and evaluation are concentrated at our Japan factory.



KOYO flexible production is endorsed by own made precision molds with our "Made in Japan" equipment.



Molds are to be produced and maintained well within our engineering teams. This is to help support our production in a timely manner.



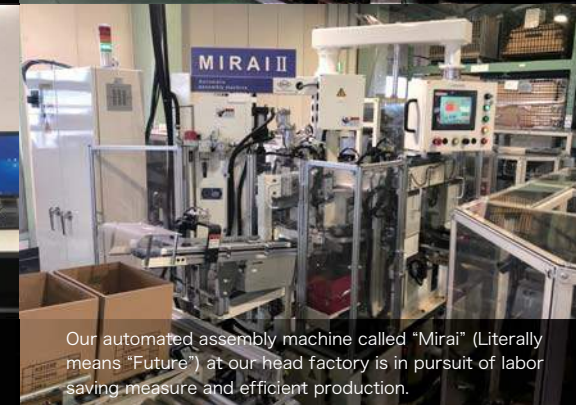
Our products have been made of Japanese selected high tension steel.



Our newest servo-press machines realized the most efficient stamping process.



At our quality department, critical dimensions are to be inspected by ultra-precision machine and 3D image measuring equipment.



Our automated assembly machine called "Mirai" (Literally means "Future") at our head factory is in pursuit of labor saving measure and efficient production.



China Factory (Guangdong)



Vietnam Factory (Hanoi)

The labor oriented assembly process is to be completed at our China and Vietnam factories. Overseas facilities are managed and operated by members of the KOYO head office and established delivery system according to any needs around the world.

(Assembly line at Vietnam Factory)

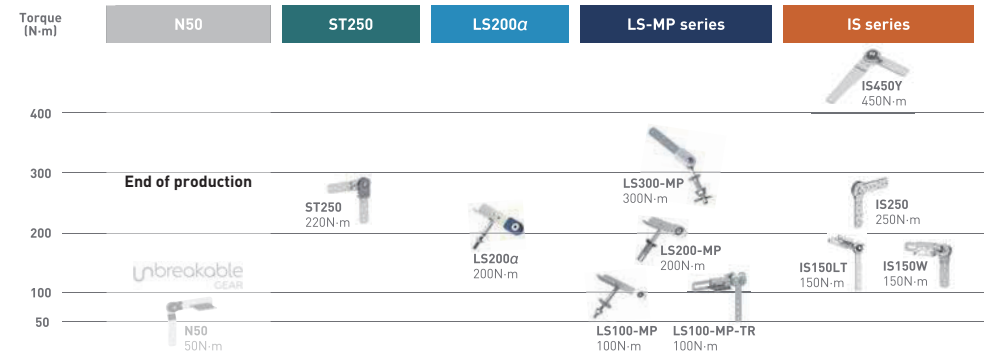


Quality control management system, based on ISO 9001

Product Spec List

Product	Feature	Strength (N·m)	Steps	Pitch	Range of movement	Repetition	Socket	Spring	Stretchable (mm)
 ST250 P.07-12		220	15 60	2°	30° 120°	10,000	○	○	—
 N50 P.13-16	 End of production	—	9 18	—	45° 90°	—	○	—	—
 LS200α P.17-20		200	24 60	2°	48° 120°	50,000	○	—	—
 LS300-MP P.21-22	Micro Pitch +Strong	300	15 60	2°	30° 120°	50,000	○	—	—
 LS200-MP P.23-26	Micro Pitch	200	15 60	2°	30° 120°	50,000	○	○	—
 LS100-MP P.27-30	Micro Pitch +Compact	100	10 40	3°	30° 120°	50,000	○	○	—
 IS450Y P.31-32	Fine Pitch +Strong	450	5 15	6°	30° 90°	10,000	—	○	—
 IS250 P.33-38	Fine Pitch	250	5 15	6°	30° 90°	10,000	○	○	—
 IS150LT P.39	Fine Pitch +80mm Stretch	150	15	6°	90°	10,000	—	○	80
 IS150W P.39	Fine Pitch +50mm Stretch	150	20	6°	120°	10,000	○	○	50

Product	Feature	Strength (N·m)	Steps	Pitch	Range of movement	Repetition	Socket	Spring	Stretchable (mm)
 LS100-MP-TR P.40	Micro Pitch +Stretch	100	40	3°	120°	50,000	—	○	50
 EL-02H P.41-42	Motorized +Stretch for headrest	—	Free	—	116°	—	—	—	80
 MA-02H P.43-44	Manual +Stretch for headrest	100×2Pcs	30	—	100°	50,000	—	—	76
 EL-03H P.45	Motor lift +Angle adjustment for headrest	—	Selective	Selective	Selective	—	—	—	—
 MA-03H P.46	Manual lift +Angle adjustment for headrest	—	Selective	Selective	Selective	—	—	—	—
 AL P.47-48	Pushing bulb End of production	—	—	—	—	—	—	—	—
 MS-2 P.49	Detachable	—	—	—	—	—	—	—	—



SOUND zero

ST250

Packing Spec

Pcs / Carton	50
Weight / Pc	0.29kg
Weight / Carton	15kg
L×W×H/Carton(mm)	250×330×150

Model Name **ST250-90-90**

Series Movable Range Zero Position

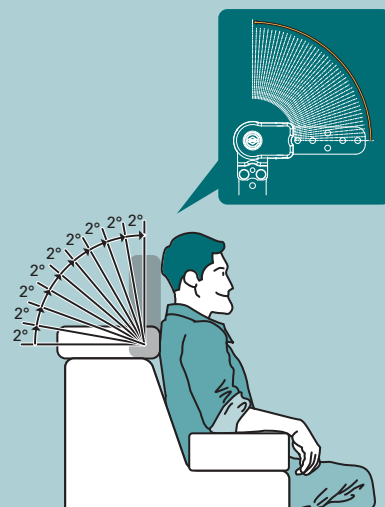


“Silent Gear”



Angle adjustment is possible without operational noise.

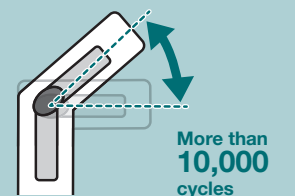
Micro Pitch of 2° per Step.



Durability

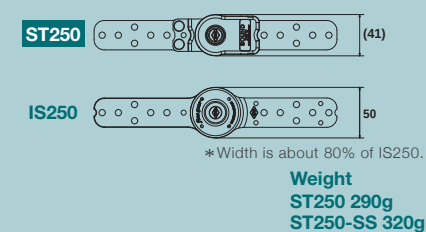


Repetition



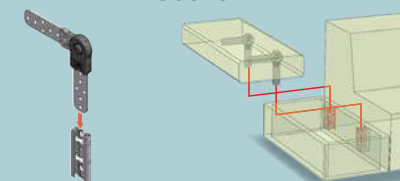
*Durability equivalent to IS250.

Design



*Width is about 80% of IS250.

Socket



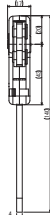
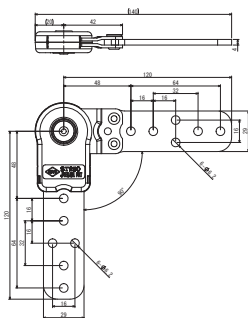
- 1.Easy to fix
- 2.Improving efficiency of assembly
- 3.Expansion of design patterns

Specification

ST250-90-90



Finish : Unichrome plating

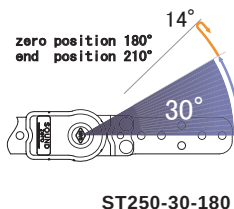
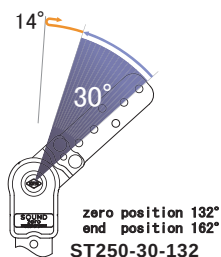
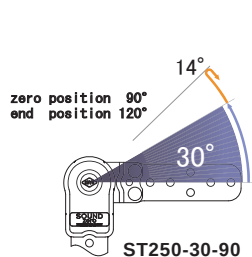


Packing Spec

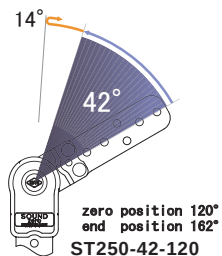
Pcs / Carton	50
Weight / Pc	0.29kg
Weight / Carton	15kg
LxWxH(Carton)(mm)	250x330x150

Movable Range with Gear Steps

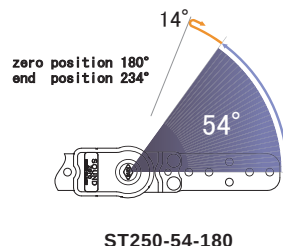
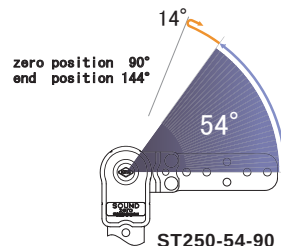
30° (15 steps)



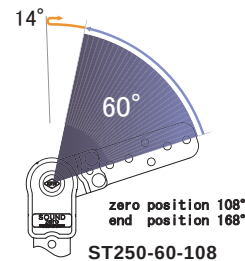
42° (12 steps)



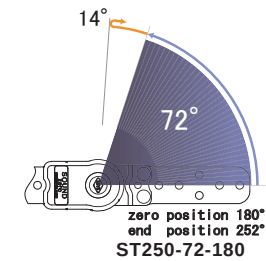
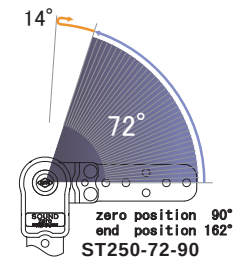
54° (27 steps)



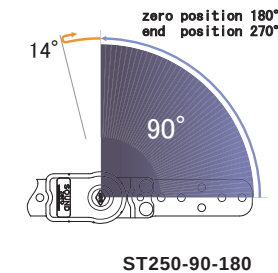
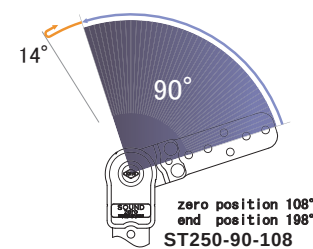
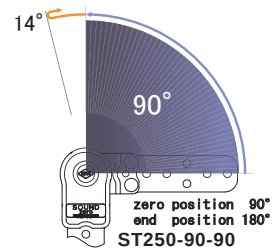
60° (30 steps)



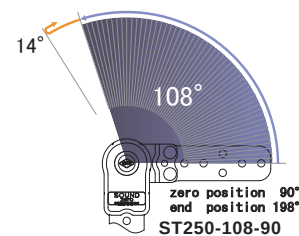
72° (36 steps)



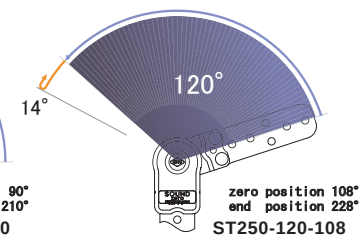
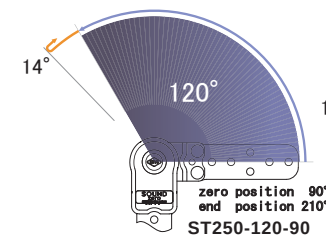
90° (45 steps)



108° (54 steps)

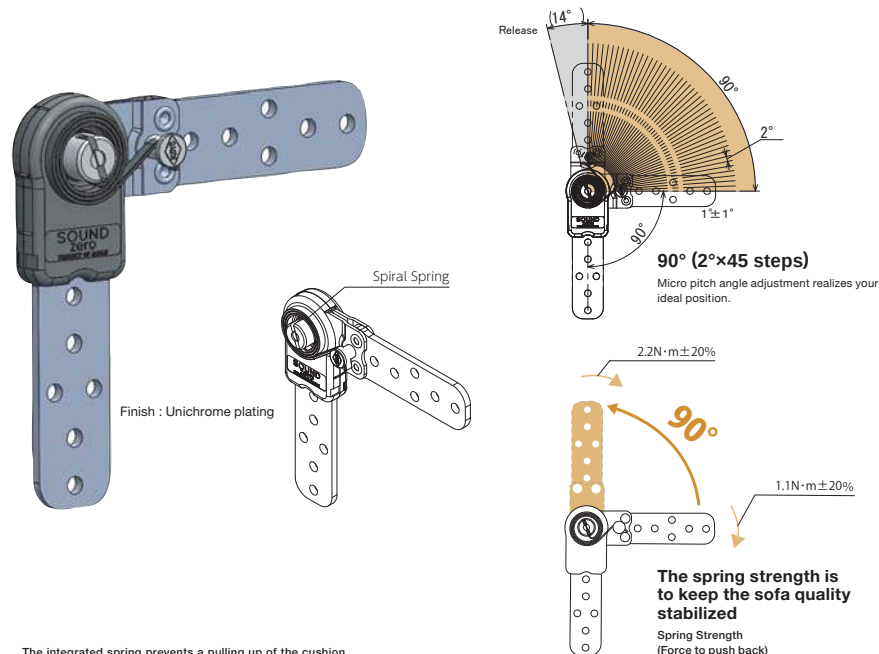


120° (60 steps)

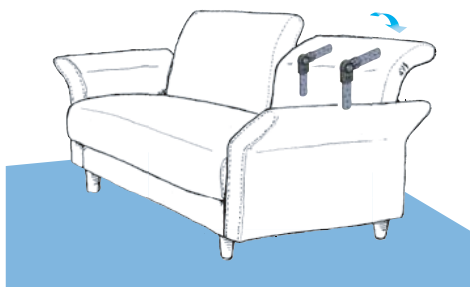


ST250 Spring Type

The available motion patterns for this model are the same as for the ST250 series.
Please refer to pages 9-10.



The integrated spring prevents a pulling up of the cushion by the upholstery and pushes the cushion down, so it will rest in a flat position when released.



Packing Spec			
Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
20	0.65kg	13.3kg	250×330×150

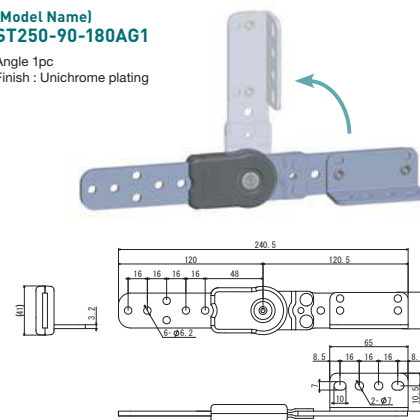
ST Options

Angle Riveted Type

The available motion patterns for this model are the same as for the ST250 series. Please refer to pages 9-10.

(Model Name)
ST250-90-180AG1

Angle 1pc
Finish : Unichrome plating



Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
25	0.8kg	20.5kg	250×330×150

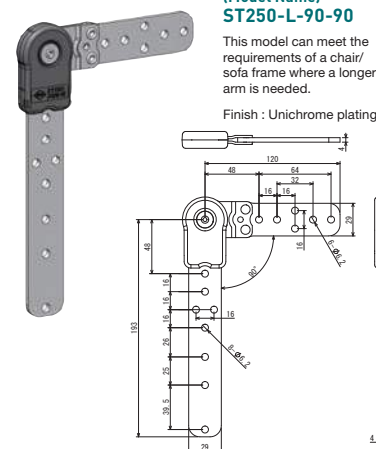
Long Arm Type

The available motion patterns for this model are the same as for the ST250 series. Please refer to pages 9-10.

(Model Name)
ST250-L-90-90

This model can meet the requirements of a chair/sofa frame where a longer arm is needed.

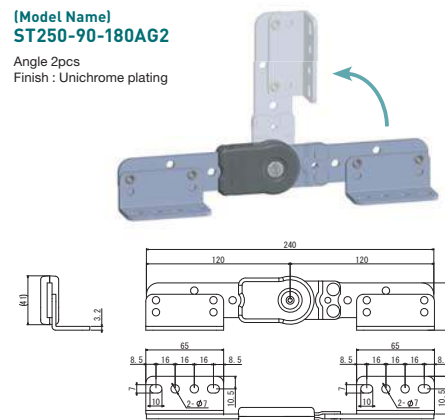
Finish : Unichrome plating



Pcs / Carton	Weight / Pc	Weight / Carton	LxWxH/Carton(mm)
50	0.35kg	18kg	250×330×150

(Model Name)
ST250-90-180AG2

Angle 2pcs
Finish : Unichrome plating



Packing Spec			
Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
20	0.93kg	19.1kg	250×330×150

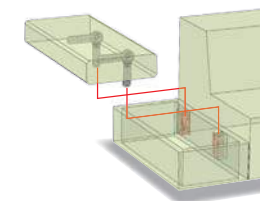
Socket



This is developed as a knock down fitting for headrests & armrests.
This socket allows quick and easy assembly of reclining parts.

Finish : Unichrome plating

One-touch operation
Just insert a gear into the socket



- 1.Easy to fix
- 2.Improving efficiency of assembly
- 3.Expansion of design patterns



LS200α

Packing Spec

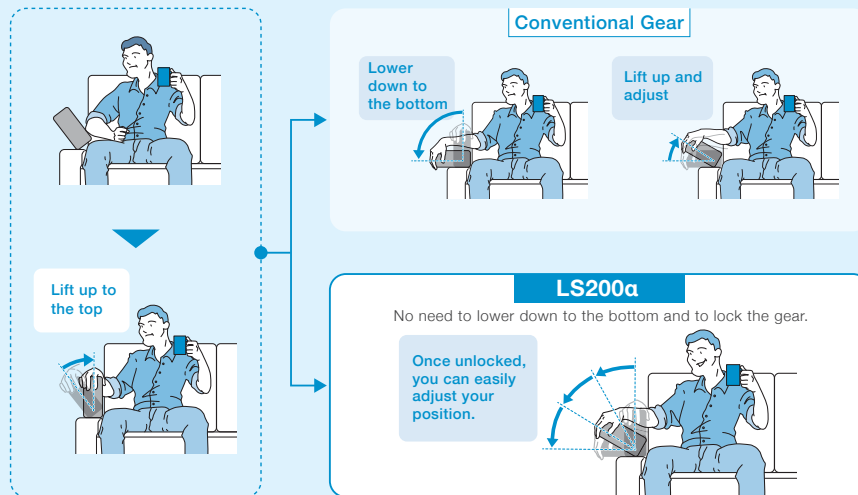
Sets / Carton	15
Weight / Set	0.92kg
Weight / Carton	14.3kg
L×W×H/Carton(mm)	250×330×160

Model Name **LS200α-90L-32AF**

Base Type
Series Movable Range Arm Type



Innovative Free-Lock Mechanism

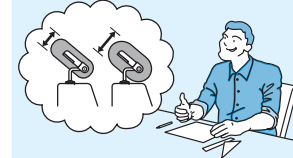


Quieter Click



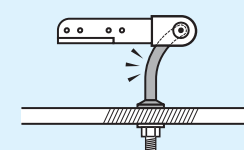
Operational noise is minimized.

Fit



No concern about urethane thickness needed, easier to design the sofa

Flexibility



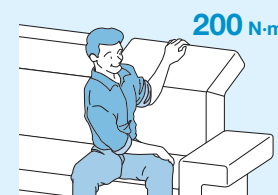
Still functional even after any possible deformation in use

Micro Pitch



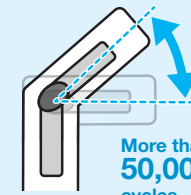
2" ultra fine pitch gear ensures better fit.

Durability



200 N·m

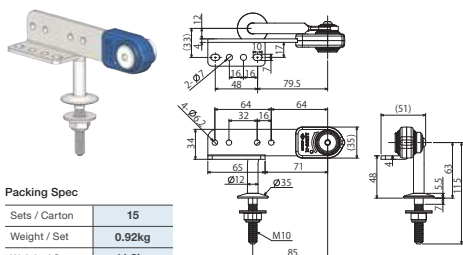
Repetition



More than 50,000 cycles

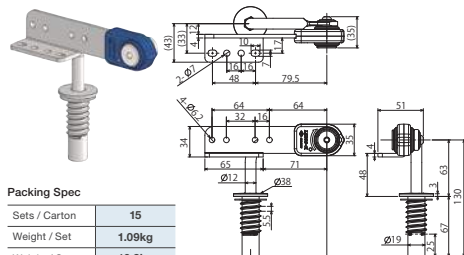
Specification

LS200α-90L-32AF



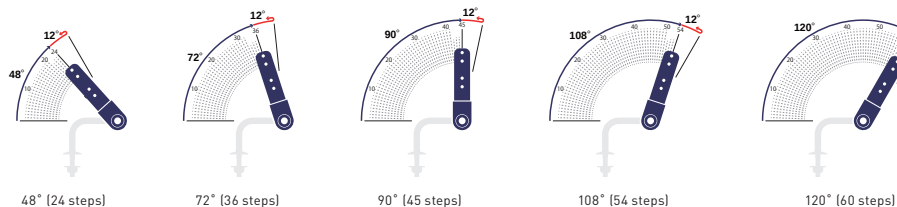
Packing Spec	
Sets / Carton	15
Weight / Set	0.92kg
Weight / Carton	14.3kg
LxWxH(Carton)(mm)	250x330x160

LS200α-90L-32G

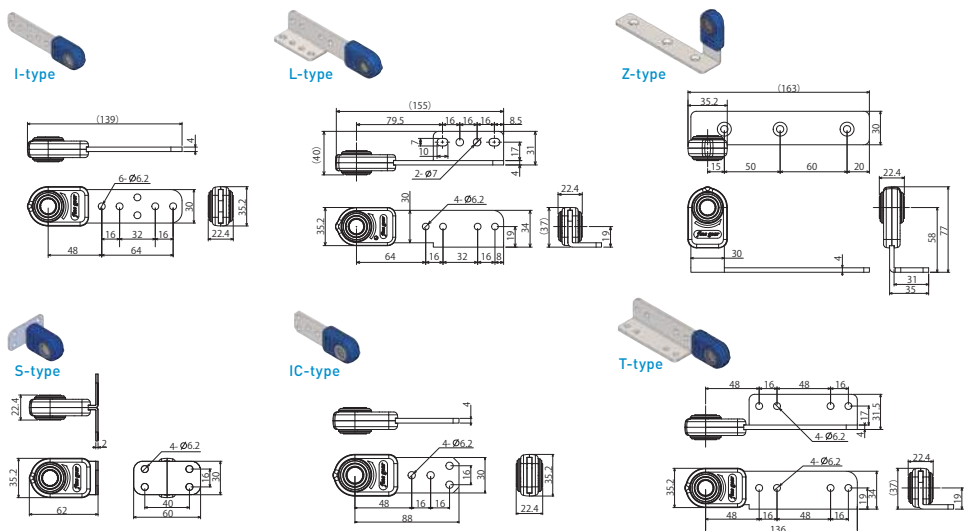


Packing Spec	
Sets / Carton	15
Weight / Set	1.09kg
Weight / Carton	16.8kg
LxWxH(Carton)(mm)	250x330x160

Movable Range with Gear Steps



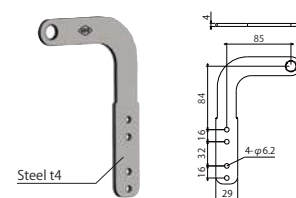
Bases



Arms

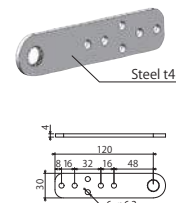
No.10

Finish : Chrome plating



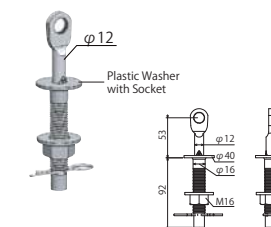
No.11

Finish : Unichrome plating



No.40B

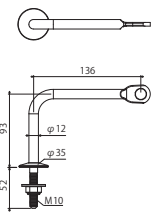
Finish : Unichrome plating



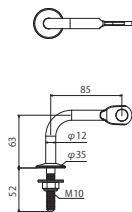
No.31AF~33AF



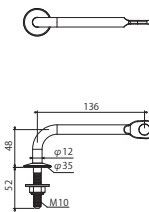
Chrome plating
Black finishing



No.31AF
No.31AF (BK)



No.32AF
No.32AF (BK)

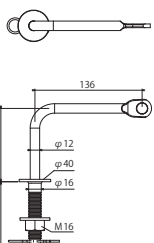


No.33AF
No.33AF (BK)

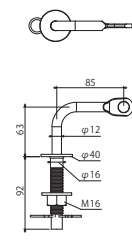
No.31B~33B



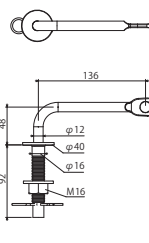
Chrome plating
Black finishing



No.31B
No.31B (BK)

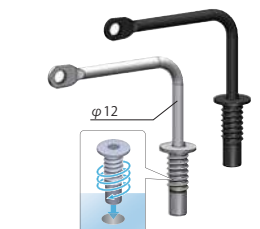


No.32B
No.32B (BK)

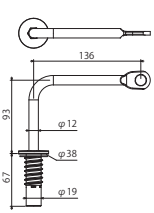


No.33B
No.33B (BK)

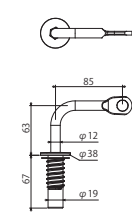
No.31G~33G



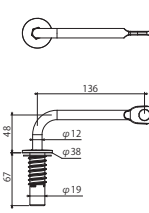
Chrome plating
Black finishing



No.31G
No.31G (BK)



No.32G
No.32G (BK)



No.33G
No.33G (BK)

Powerful Micro Pitch Gear

LS300-MP

Packing Spec

Sets / Carton	15
Weight / Set	1.02kg
Weight / Carton	15.8kg
L×W×H/Carton(mm)	250×330×150

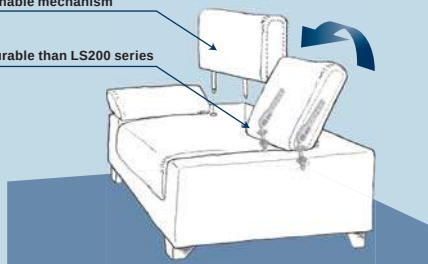
Model Name **LS300-MP48I-40B**

Series: LS300-MP, Micro Pitch Type: 48I, Base Type: 40B, Movable Range: I, Arm Type: B

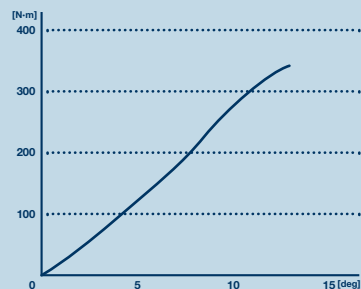
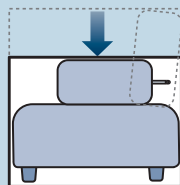


Easier detachable mechanism

50% more durable than LS200 series



Compact packing saving your shipping cost



We started to load the torque until breakage of LS300-MP. This graph shows the strength.

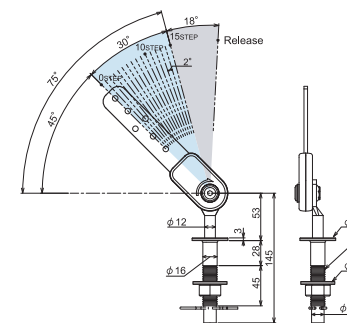
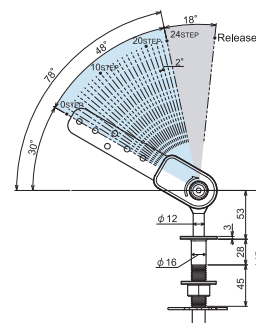
Specification

LS300-MP48I-40B

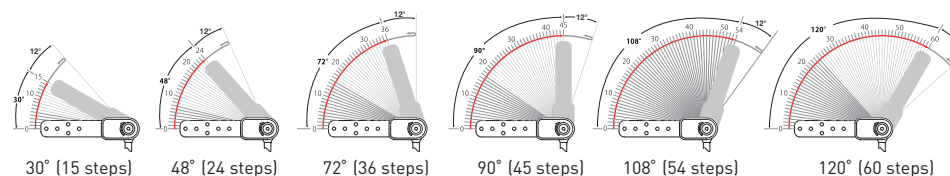
Finish : Unichrome plating

LS300-MP30I-41B

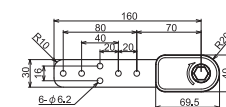
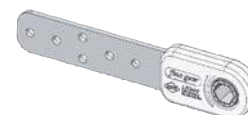
Finish : Unichrome plating



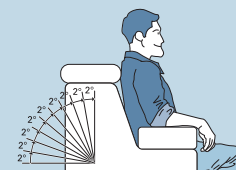
Movable Range with Gear Steps



Base



Micro Pitch



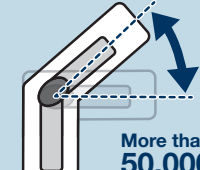
2° ultra fine pitch gear ensures better fit.

Durability



For 500 mm backrest, 120 kg is durable as one set (2 pcs).

Repetition



More than 50,000 cycles

Leading Standard Gear

LS200-MP

Packing Spec

Sets / Carton	15
Weight / Set	1.04kg
Weight / Carton	16.1kg
L×W×H/Carton(mm)	250×330×150

Model Name **LS200-MP90L-32G**

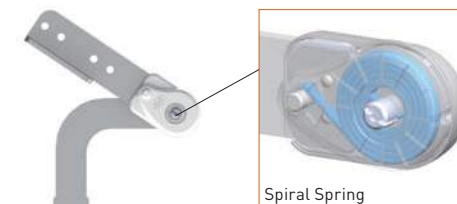
Series: LS200, Micro Pitch: MP, Base Type: 90L, Movable Range: 32, Arm Type: G



Spring Type

Model Name **LS200(S)-MP90L-10**

Series: LS200(S), Micro Pitch: MP, Base Type: 90L, Movable Range: 10, Arm Type: S

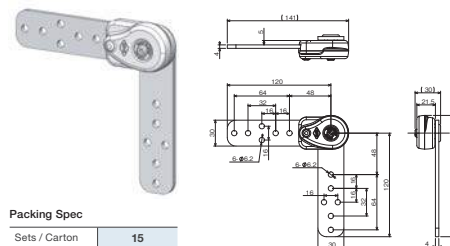


Spiral Spring

Specification

LS200(S)-MP90L-R11

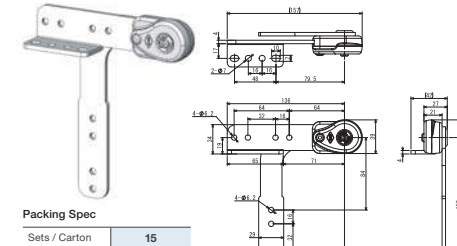
R11: Zero position 90°



Packing Spec

Sets / Carton	15
Weight / Set	0.65kg
Weight / Carton	10.2kg
L×W×H/Carton(mm)	250×330×150

LS200(S)-MP90L-10



Packing Spec

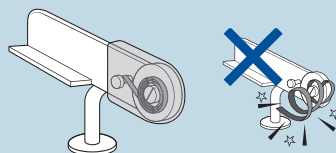
Sets / Carton	15
Weight / Set	0.9kg
Weight / Carton	13.9kg
L×W×H/Carton(mm)	250×330×150

Quieter Click



Operational noise is minimized.

Protected by Safety Plastic Cover



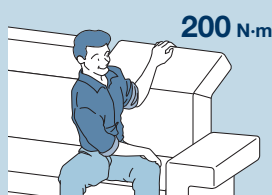
Safety design never to expose the inner parts outside

Micro Pitch



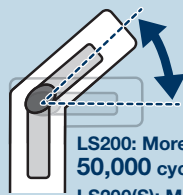
2° ultra fine pitch gear ensures better fit.

Durability



200 N·m

Repetition



LS200: More than 50,000 cycles
LS200(S): More than 30,000 cycles

SOUND
Zero

Unbreakable
Steel

αGear

300N·m

LS Gear
200N·m

100N·m

450N·m

IS Gear
250N·m

Stretch

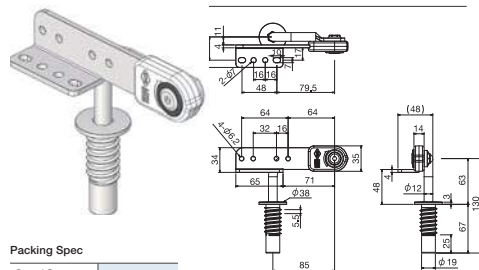
EL series

AL series

Joint

Specification

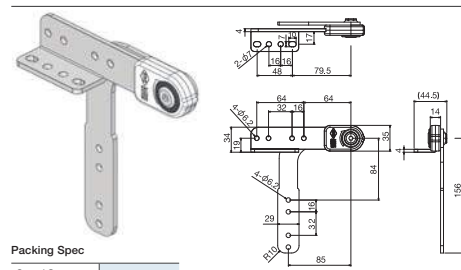
LS200-MP90L-32G



Packing Spec

Sets / Carton	15
Weight / Set	1.04kg
Weight / Carton	16.1kg
LxWxH/Carton(mm)	250x330x150

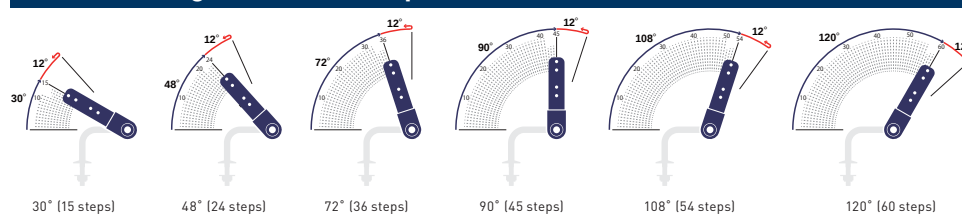
LS200-MP90L-10



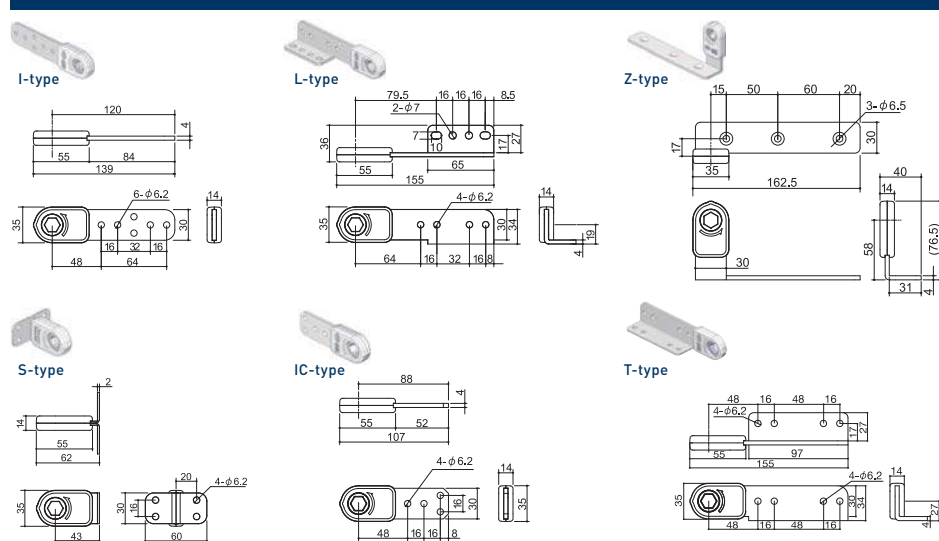
Packing Spec

Sets / Carton	15
Weight / Set	0.88kg
Weight / Carton	13.7kg
LxWxH/Carton(mm)	250x330x150

Movable Range with Gear Steps



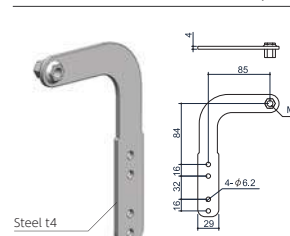
Bases



Arms

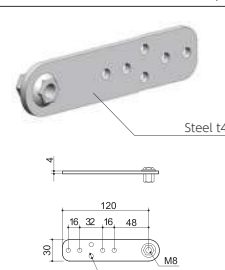
No.10

Finish : Chrome plating



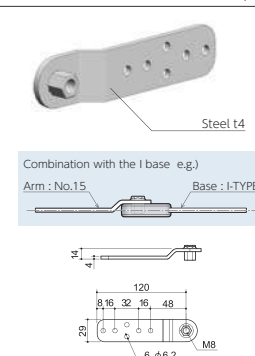
No.11

Finish : Unichrome plating

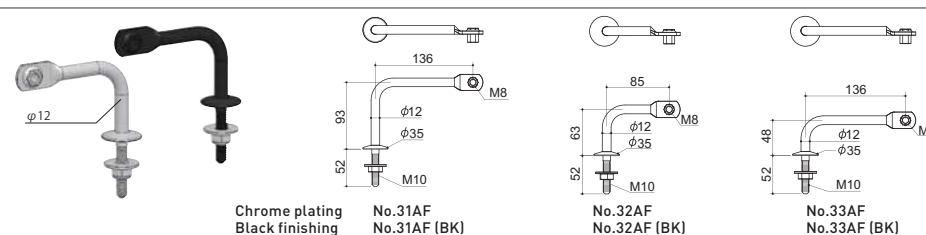


No.15

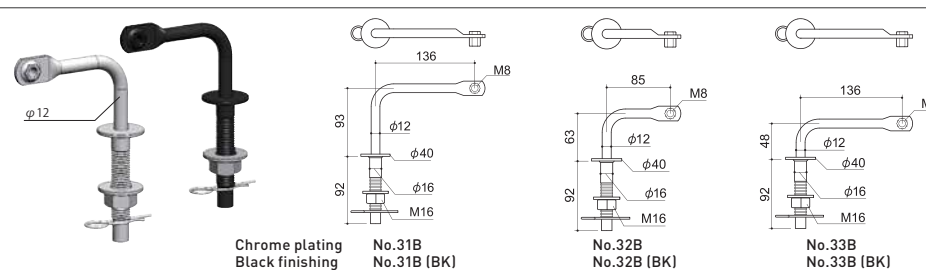
Finish : Unichrome plating



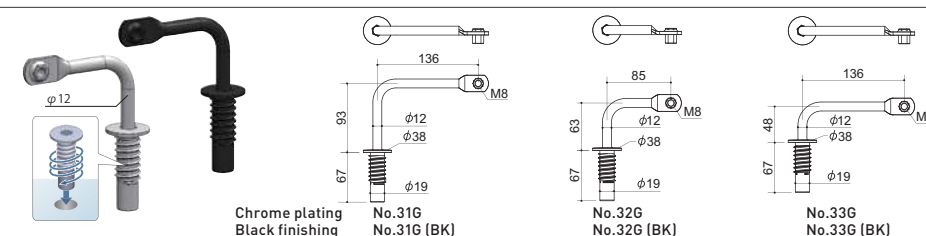
No. 31AF~33AF



No. 31B~33B



No. 31G~33G



Compact Micro Pitch Gear

LS100-MP

Packing Spec

Sets / Carton	15
Weight / Set	0.56kg
Weight / Carton	9kg
L×W×H/Carton(mm)	250×330×150

Model Name **LS100-MP90L-30A**

Series: LS100, Micro Pitch: MP, Base Type: 90, Movable Range: L, Arm Type: 30A

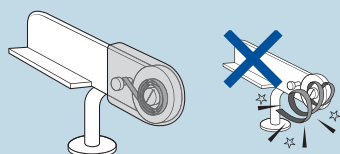


Quieter Click



Operational noise is minimized.

Protected by Safety Plastic Cover



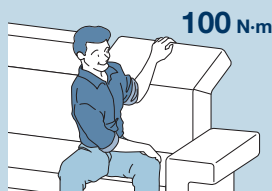
Safety design never to expose the inner parts outside

Micro Pitch



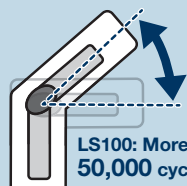
3° ultra fine pitch gear ensures better fit.

Durability



100 N·m

Repetition

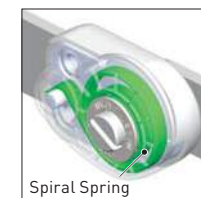


LS100: More than 50,000 cycles
LS100(S): More than 20,000 cycles

Spring Type

Model Name **LS100(S)-MP72I-A180**

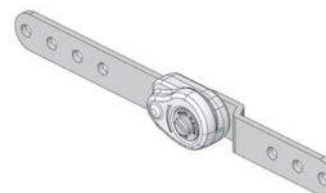
Series: LS100(S), Micro Pitch: MP, Base Type: 72, Movable Range: I, Arm Type: A180



Spiral Spring

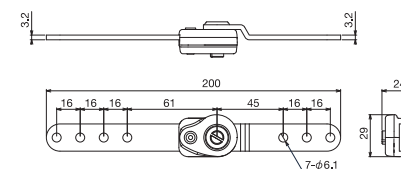
Specification

LS100(S)-MP72I-A180



Packing Spec

Sets / Carton	50
Weight / Set	0.26kg
Weight / Carton	15kg
L×W×H/Carton(mm)	250×330×150



SOUND
Zero

Unbreakable
Steel

αGear

300N·m

LS Gear
200N·m

100N·m

450N·m

IS Gear
250N·m

Stretch

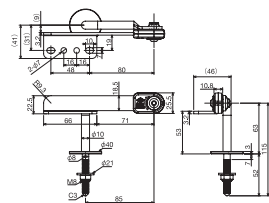
EL series

AL series

Joint

Specification

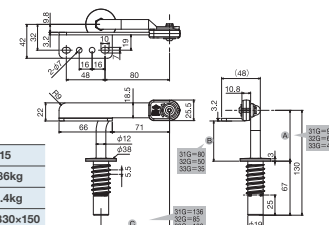
LS100-MP90L-30A



Packing Spec

Sets / Carton	15
Weight / Set	0.56kg
Weight / Carton	9kg
LxWxH/Carton(mm)	250x330x150

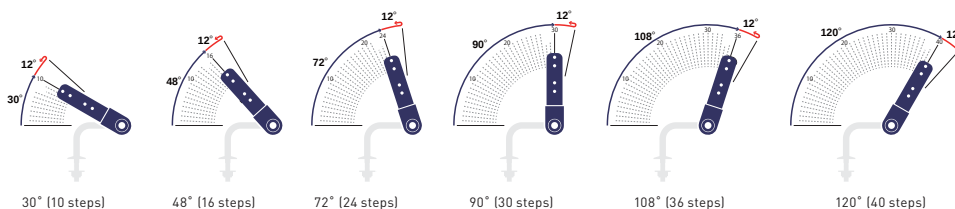
LS100-MP90L-32G



Packing Spec

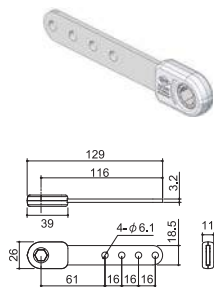
Sets / Carton	15
Weight / Set	0.86kg
Weight / Carton	13.4kg
LxWxH/Carton(mm)	250x330x150

Movable Range with Gear Steps

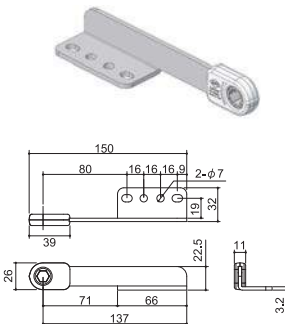


Bases

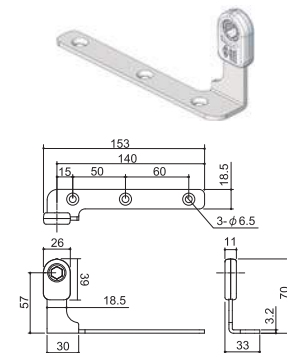
I-type



L-type



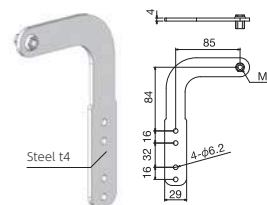
Z-type



Arms

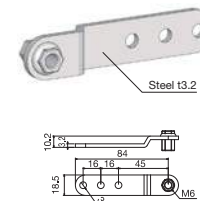
No.10

Finish :
Chrome plating

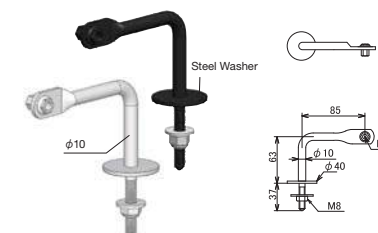


No. A

Finish : Unichrome
plating



No.30A



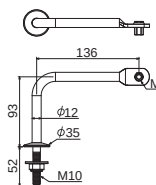
Chrome plating
Black finishing

No.30A
No.30A (BK)

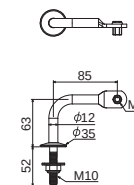
No.31AF~33AF



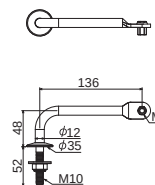
Chrome plating
Black finishing



No.31AF
No.31AF (BK)

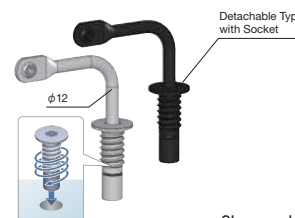


No.32AF
No.32AF (BK)

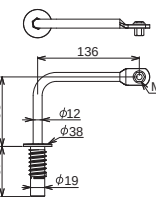


No.33AF
No.33AF (BK)

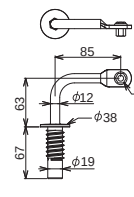
No. 31G~33G



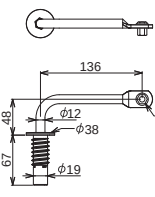
Chrome plating
Black finishing



No.31G
No.31G (BK)



No.32G
No.32G (BK)



No.33G
No.33G (BK)

Most Powerful Gear

IS450Y

Packing Spec

Pcs / Carton	40
Weight / Pc	0.5kg
Weight / Carton	20.5kg
LxWxH/Carton(mm)	250x330x150

Model Name **IS450Y-SS45-12-90**

Spring Type
Zero Position
Series Step

IS450Y-12-180
(non-spring type)



IS450Y-SS45-12-90
(spring type)

Durability

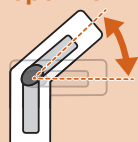
450 N·m



*Only the 15 steps version has 15% lower durability.

Repetition

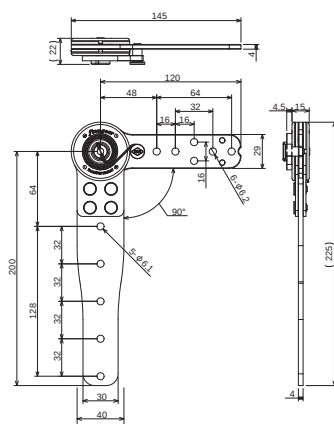
More than 10,000 cycles



Specification

IS450Y-SS45-12-90

Finish : Unichrome



Packing Spec

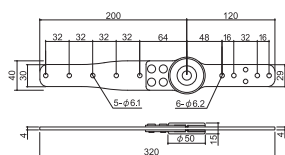
Pcs / Carton	40
Weight / Pc	0.5kg
Weight / Carton	20.5kg
LxWxH/Carton(mm)	250x330x150

IS450Y-12-180

Finish : Unichrome

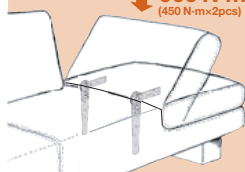
Packing Spec

Pcs / Carton	50
Weight / Pc	0.46kg
Weight / Carton	23.5kg
LxWxH/Carton(mm)	250x330x150



Strength

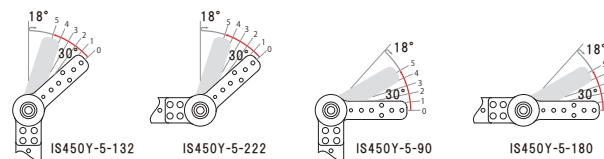
900 N·m
(450 N·m x 2 pcs)



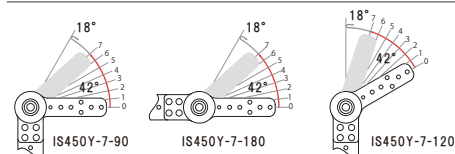
For 500mm backrest, 180kg is durable as one set (2 pcs).

Gear Steps with Movable Range

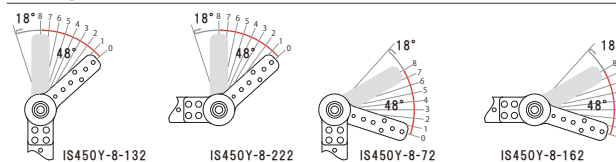
5 steps (30°)



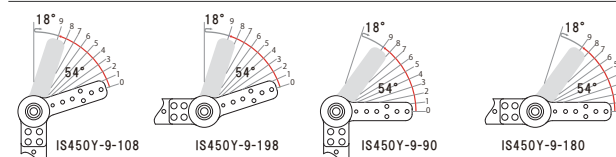
7 steps (42°)



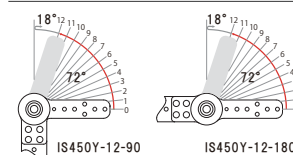
8 steps (48°)



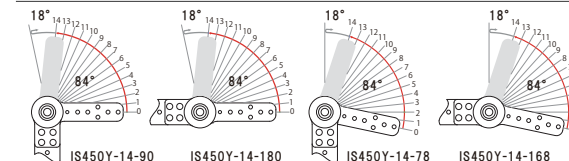
9 steps (54°)



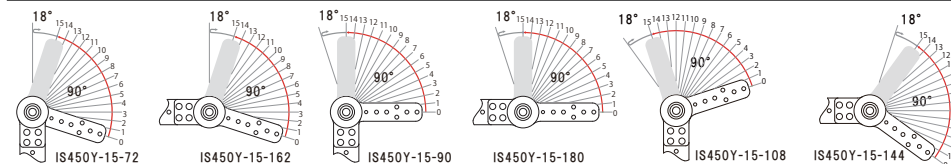
12 steps (72°)



14 steps (84°)



15 steps (90°)



International Standard Gear

IS250

Packing Spec

Pcs / Carton	50
Weight / Pc	0.30kg
Weight / Carton	15.5kg
L×W×H/Carton(mm)	250×330×105

Model Name **IS250-12-90**

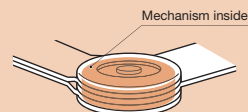
Step
Series
Zero Position



Slim Design



Protection for Inner Mechanism



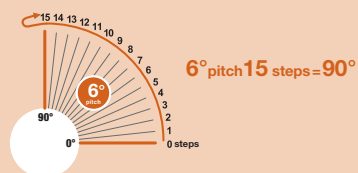
Durability & Repetition

Durability
250N·m

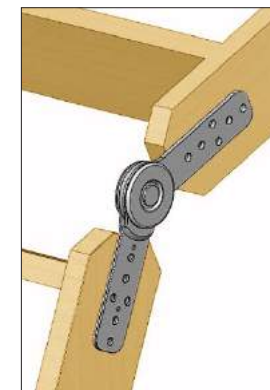
Repetition
More than
10,000 cycles



Fine Pitch Gear



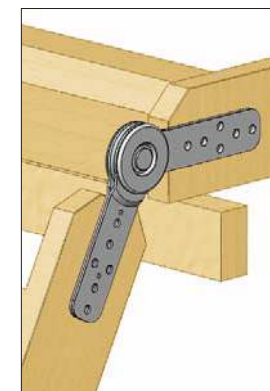
Ideal adjustment possible for headrest



5 steps
IS250-5-180
zero position=180°
end position=210°

8 steps
IS250-8-162
zero position=162°
end position=210°

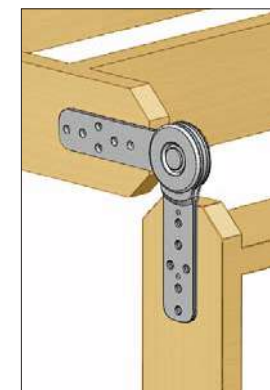
Ideal for armrest



9 steps
IS250-9-90
zero position=90°
end position=144°

12 steps
IS250-12-90
zero position=90°
end position=162°

Ideal for footrest



12 steps
IS250-12-90
zero position=90°
end position=162°

15 steps
IS250-15-90
zero position=90°
end position=180°

SOUND
Zero
Unbreakable
Steel

IS Gear

300N·m

LS Gear

200N·m

100N·m

IS Gear

450N·m

250N·m

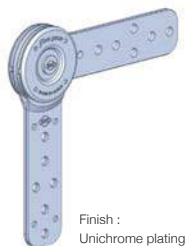
Stretch

EL series

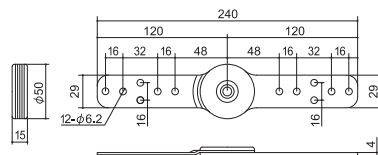
AL series

Joint

Specification



Finish :
Unichrome plating

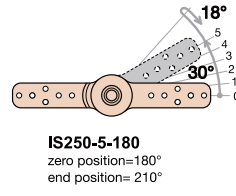
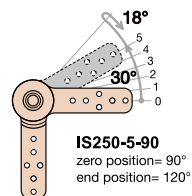
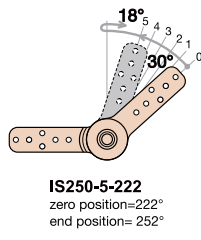
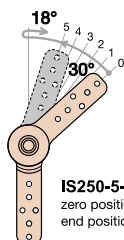


Packing Spec

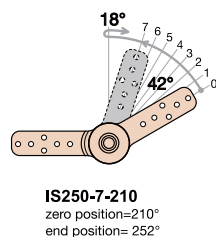
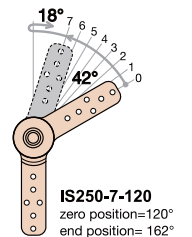
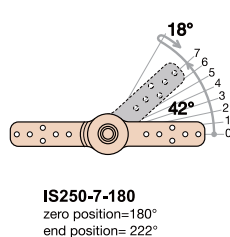
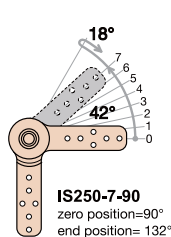
Pcs / Carton	50
Weight / Pc	0.30kg
Weight / Carton	15.5kg
LxWxH/Carton(mm)	250x330x105

Gear Steps with Movable Range

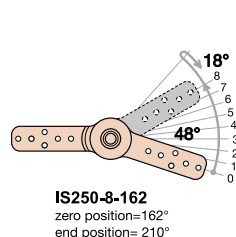
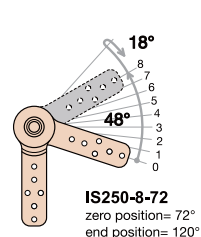
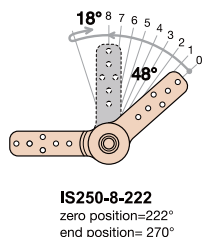
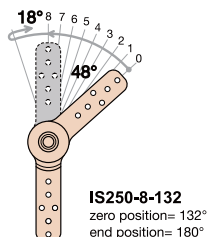
5 steps (30°)



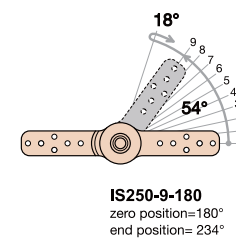
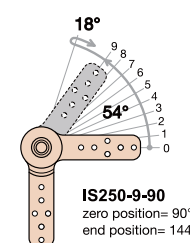
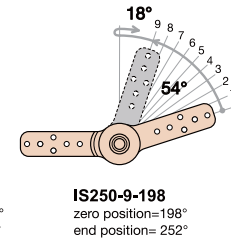
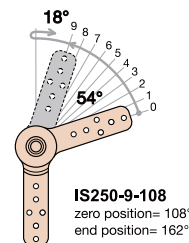
7 steps (42°)



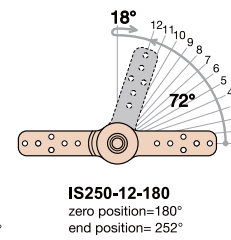
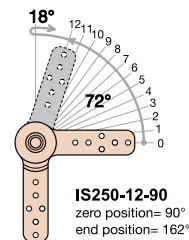
8 steps (48°)



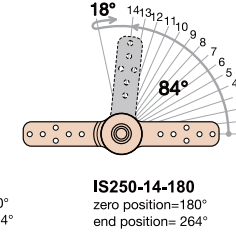
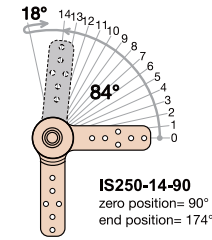
9 steps (54°)



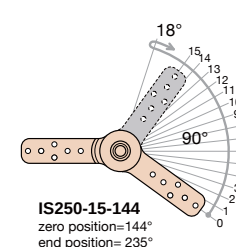
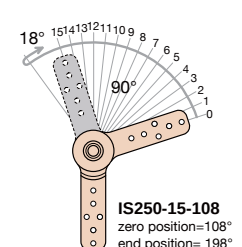
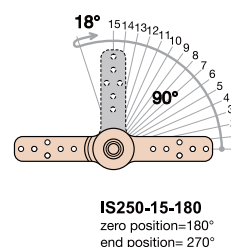
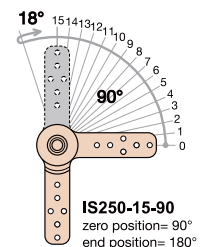
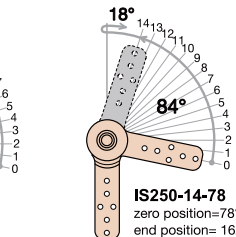
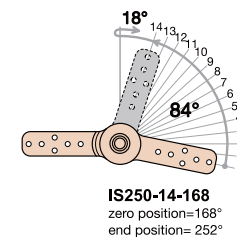
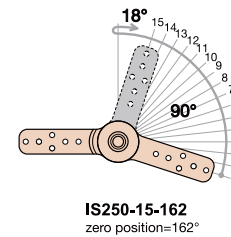
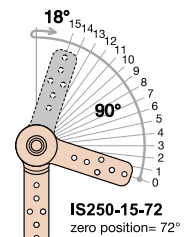
12 steps (72°)



14 steps (84°)



15 steps (90°)

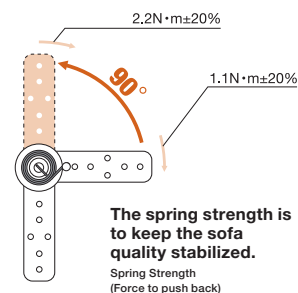
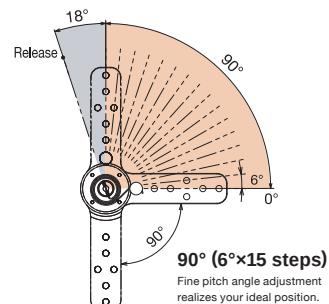
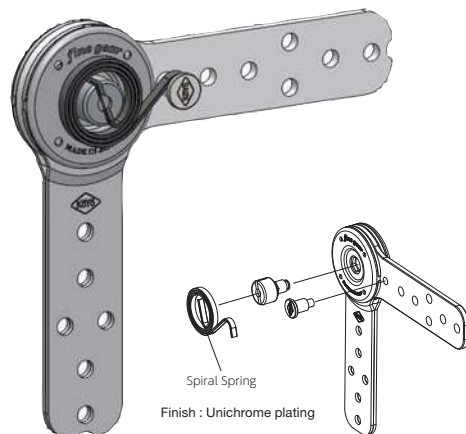


Model Name **IS250-SS45-15-90**

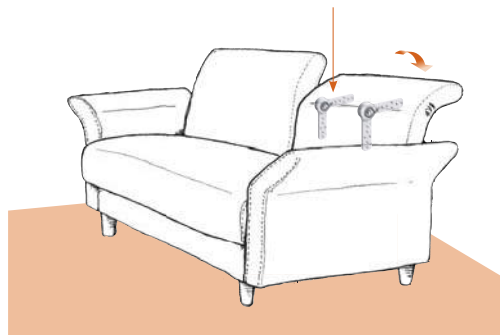
Series Spring Type Zero Position

IS250 Spring Type

The available motion patterns for this model are the same as for the IS250 series.
Please refer to the pages 35-36.



The integrated spring prevents a pulling up of the cushion by the upholstery and pushes the cushion down, so it will rest in a flat position when released.



Packing Spec

Pcs / Carton	Weight / Pc	Weight / Carton	LxWxH/Carton(mm)
40	0.33kg	13.7kg	250×330×105

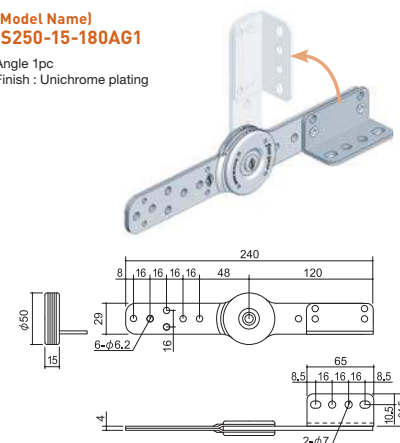
IS Options

Angle Riveted Type

The available motion patterns for this model are the same as for the IS250 series.
Please refer to the pages 35-36.

(Model Name)
IS250-15-180AG1

Angle 1pc
Finish : Unichrome plating

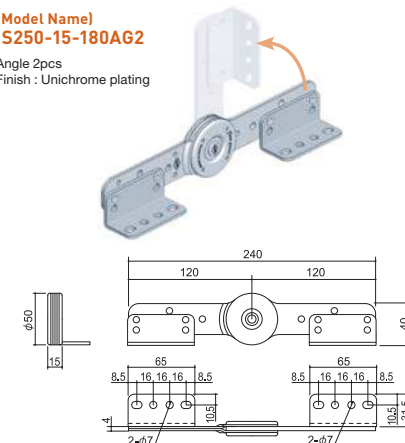


Packing Spec

Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
25	0.78kg	20kg	250×330×150

(Model Name)
IS250-15-180AG2

Angle 2pcs
Finish : Unichrome plating



Packing Spec

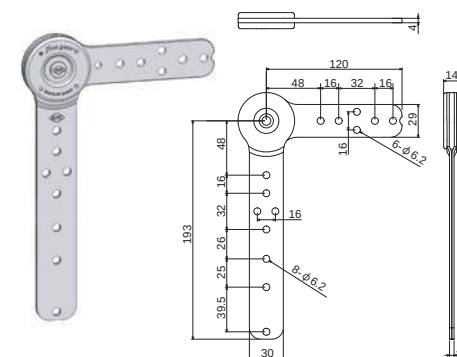
Pcs / Carton	Weight / Pc	Weight / Carton	LxWxH/Carton(mm)
40	0.48kg	19.7kg	250×330×150

Long Arm Type

The available motion patterns for this model are the same as for the IS250 series. Please refer to the pages 35-36.

(Model Name)
IS250-L-15-90

Finish : Unichrome plating



Packing Spec

Pcs / Carton	Weight / Pc	Weight / Carton	LxWxH/Carton(mm)
50	0.38kg	19.5kg	250×330×150

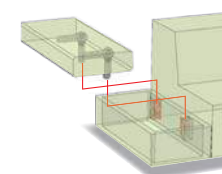
Socket

Finish : Unichrome plating



This is developed as a knock down fitting for headrests & armrests.
This socket allows quick and easy assembly of reclining parts.

One-touch operation
Just insert a gear into the socket



1.Easy to fix
2.Improving efficiency of assembly
3.Expansion of design patterns

80mm Stretch Gear

IS150LT

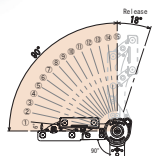


IS150LT-L-SS45-15-108

Durability: 150N-m
Finish: Unichrome

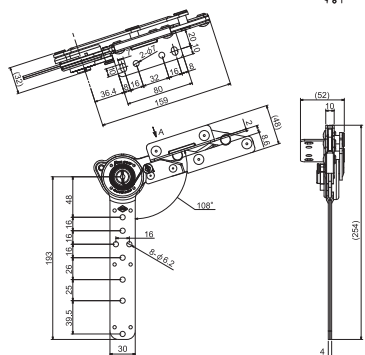
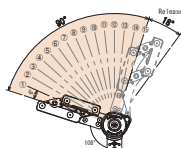
Model Name
IS150LT-L-15-90
(non-spring type)

IS150LT-L-SS45-15-90
(spring type)



Model Name
IS150LT-L-15-108
(non-spring type)

IS150LT-L-SS45-15-108
(spring type)

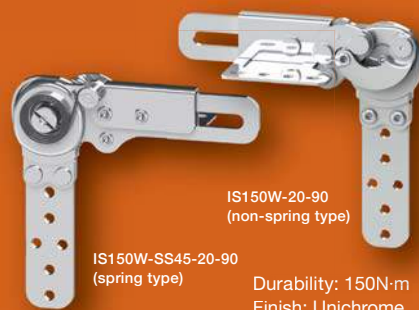


Packing Spec for IS150LT-L-SS45-15-90

Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
10	1.5kg	15.5kg	250×330×180

50mm Stretch Gear

IS150W



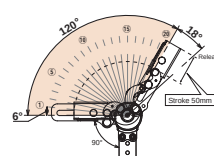
IS150W-20-90
(non-spring type)

IS150W-SS45-20-90
(spring type)

Durability: 150N-m
Finish: Unichrome

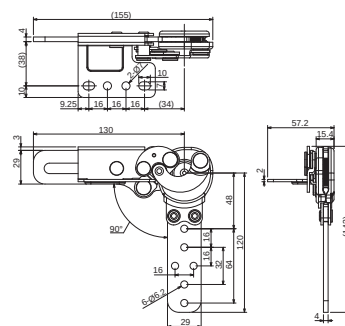
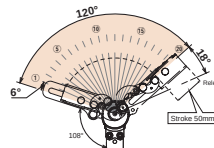
Model Name
IS150W-20-90
(non-spring type)

IS150W-SS45-20-90
(spring type)



Model Name
IS150W-20-108
(non-spring type)

IS150W-SS45-20-108
(spring type)



Packing Spec for IS150W-20-90

Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
15	1kg	15.5kg	250×330×180

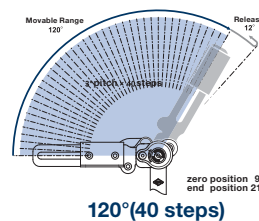
Compact 50mm Stretch Gear

LS100-MP-TR

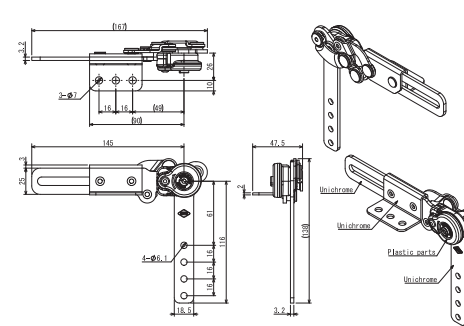


Durability: 100N-m
Finish: Unichrome

Model Name
LS100(S)-MP120TR-TA01(90)



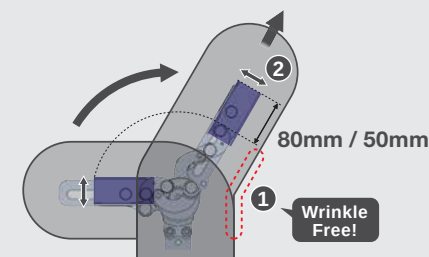
120°(40 steps)



Packing Spec

Sets / Carton	Weight / Set	Weight / Carton	LxWxH/Carton(mm)
15	0.6kg	9.5kg	250×330×150

Stroke
80mm(IS150LT) / 50mm(IS150W/LS100-MP-TR)

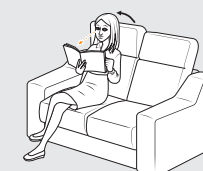


- When moving the gear, the angle plate slides up 80mm(50mm), which prevents the fabric from wrinkling.
- The angle plate slides along the gear base without extending its width. (IS150W/LS100-MP-TR)

Movable Range 120° (IS150W/LS100-MP-TR)



Movable Range 90°



Movable Range 120°

Create the comfortable angle

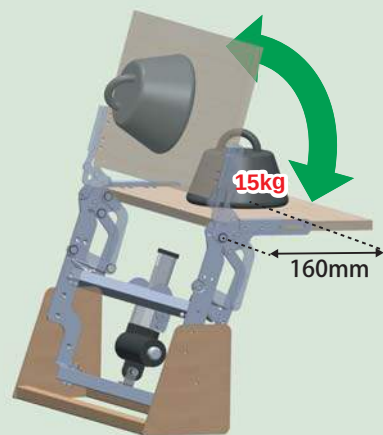
You can easily adjust the angle of the headrest to your favorite position for reading or watching TV.

Motorized Angle Adjustable Gear

EL-02H

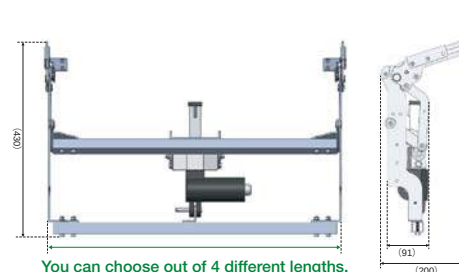


Test Data

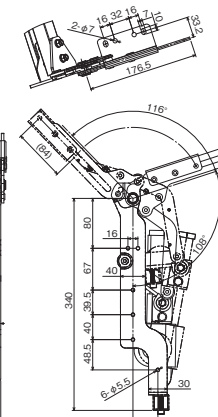
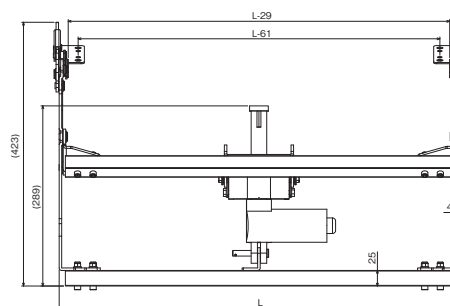


25,000 cycles while loading 15kg weight at 160mm from rotary axis.

Specification



You can choose out of 4 different lengths.
(565mm·641mm·680mm·791mm)



Mechanical Components

EL-02H
Arm parts/pair



EL-02H-T565 (641·680·791)
EL-02H-B565 (641·680·791)

Joint pipe



EL-02H-AC
Accessory



Electric Accessories

EL-01H-ACT
Linear actuator



EL-01H-PA
Power adaptor



EL-01H-PC
Power cable



EL-01H-CC
Connection cable



EL-01H-YC
Split cable



EL-01H-BA
Plastic oval handset



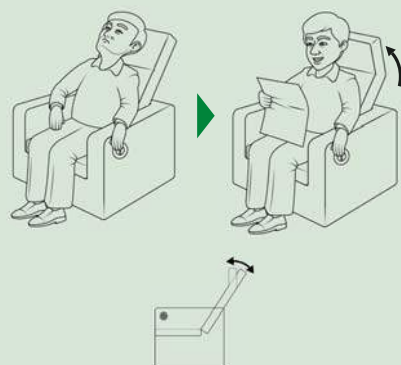
EL-01H-BB
Aluminum oval handset



EL-01H-BC
Soft touch handset



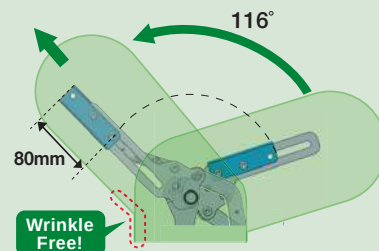
Adjust the angle of the headrest by just pushing a button



Motorized adjustment of the headrest

You can easily adjust the angle of the back and headrest to your favorite position for reading or watching TV.

Stroke 80mm



Wrinkle Free!

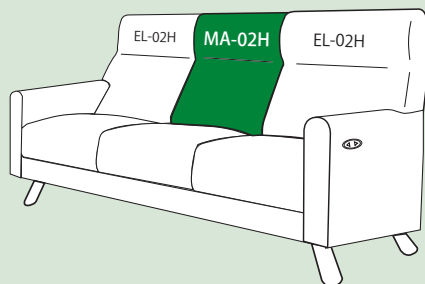
When moving the gear, the angle plate slides up 80mm, which prevents the fabric from wrinkling.

Manual Angle Adjustable Gear

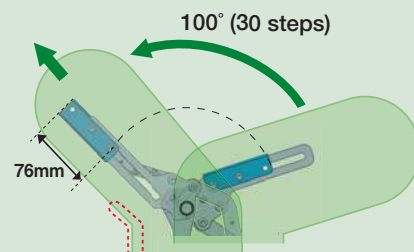
MA-02H



For 3 seaters' sofa, you can locate the MA (manual) model between the EL (electric) ones, enabling manual adjustment in the same motion as EL-02H.



Stroke 76mm



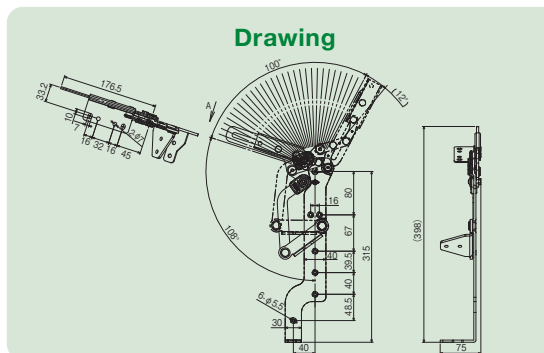
Wrinkle Free!

When moving the gear, the angle plate slides up 76mm, which prevents the fabric from wrinkling.

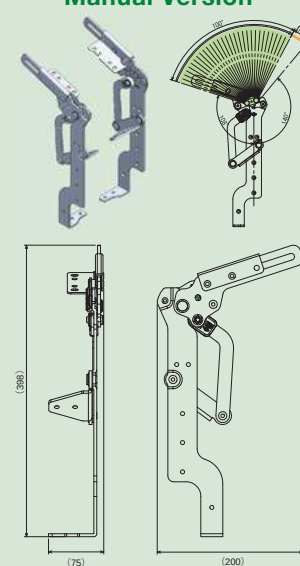
Durability



Drawing

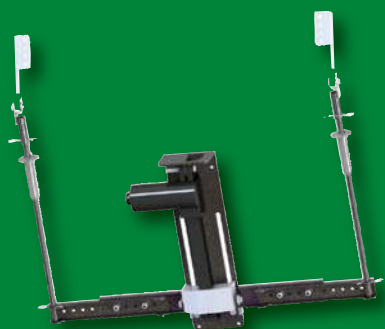


Manual Version

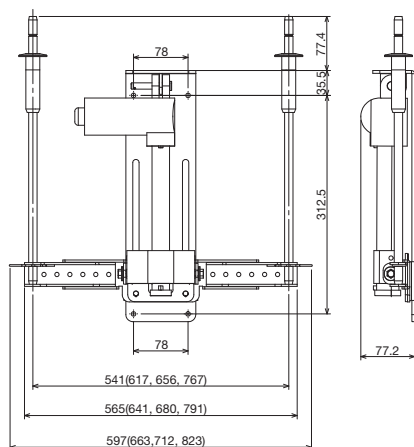


Motorized Lift Up Mechanism

EL-03H

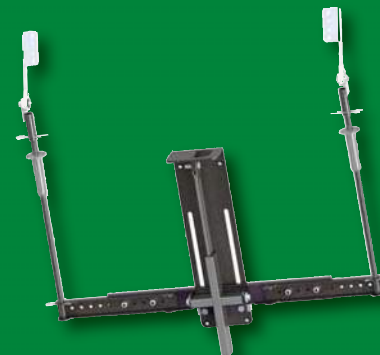


Specification

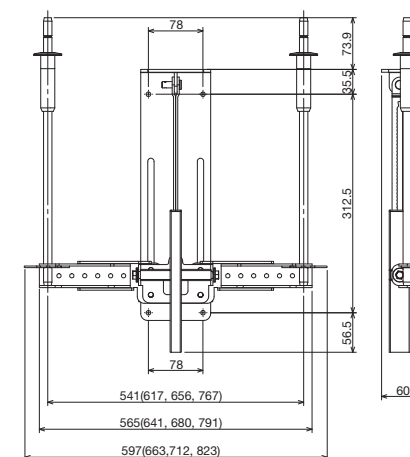


Manual Lift Up Mechanism

MA-03H



Specification



Electric Accessories

EL-03H-ACT

Linear actuator

EL-01H-PA

Power adaptor

EL-01H-PC

Power cable

EL-01H-CC

Connection cable

EL-01H-YC

Split cable

EL-01H-BA

Plastic oval handset

EL-01H-BB

Aluminium oval handset

EL-01H-BC

Soft touch handset

Optional Angle Adjustable Parts

MS-EL03

LS100-MP48L-EL03

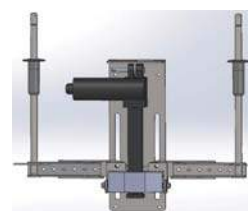
LS200-MP48L-EL03

LS200a-48L-EL03

ST250-42-EL03

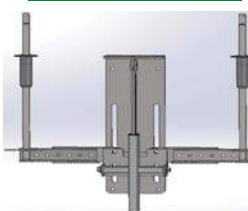
Lift Up Mechanism

EL-03H



Motorized

MA-03H

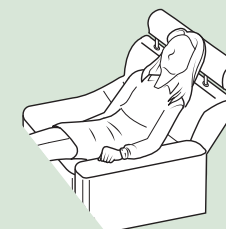


Manual

Movability



Angle adjustment is possible. You can choose your desired gear among the options. Please refer to the chart.



Height adjustment is also possible. You can choose the motorized model (EL-03H) or the manual one (MA-03H).

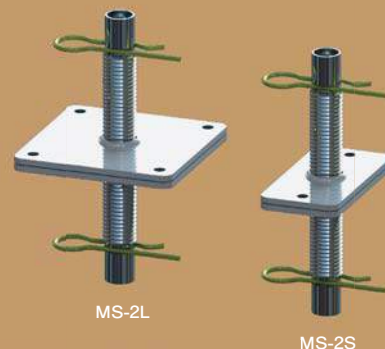
Detachable Support Fitting for Your Sofa Assembly

MS-2

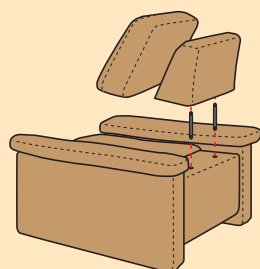
Product Spec

Finish	Unichrome
Weight / Pc (MS-2L)	0.45kg
Weight / Pc (MS-2S)	0.3kg

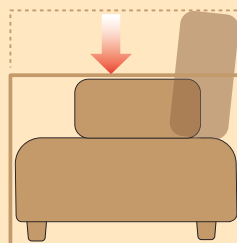
Model Name **MS-2L**
Series Large or small



Easier assembly in your factory

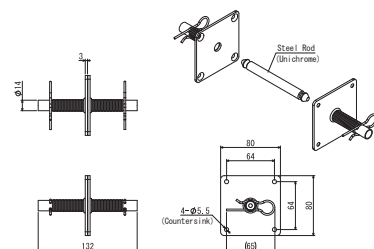


Compact packing, saving your shipping cost

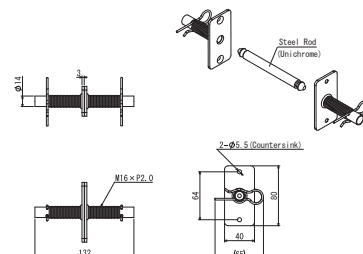


Drawing

MS-2L



MS-2S



KOYO Global Network



Web Site

(English) <http://www.koyogear.com>
(Japanese) <http://www.koyoeng.co.jp>
(Chinese) <http://www.koyoeng.co.jp/chinese/>

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② Germany Office [Düsseldorf]



③ China Factory [Guangdong]



④ Vietnam Factory [Hanoi]

Dimensional data not binding. We reserve the right to alter specifications without prior notice.

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with
Heart & Technology



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