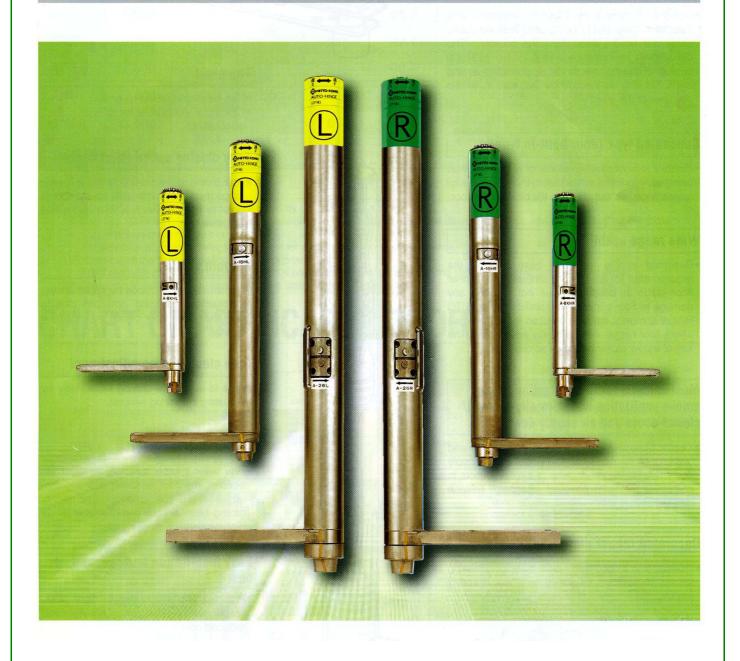
UTOHING

CENTER HANG A TYPE



NITTO KOHKI AUTO HINGE—developed ahead of the world with free use of original closer technology, establishing great confidence in high technological power.

AUTO HINGES (CENTER HANG TYPE)

based on the accumulation of advanced technology:

Used widely for public telephone booths throughout the country

 Designed officially by Nippon Telegraph and Telephone Corp. (NTT), being used in all the public telephone booths throughout the country. The outstanding performance and durability (500,000 or more of closing operations), appreciation among users not only in the country but also in all the countries of the world.

Concealed type (door built-in type)

 Constructed door built-in closer of pivot type, thus being easy to install. In addition, it presents a slim appearance, without affecting the beauty of a door.

Wide range usability

 Designed with a receptive base meeting the requirements for the recent tendency of thinner floor slabs in buildings, thus not causing any damage to floor surfaces in installation; the AUTO HINGE is most suitable to be used in such a place where floor hinges can be hardly installed and the arm of a door closer becomes an obstacle.

Most suitable for fire protection, open smoke ventilation and normally-opened/ closed doors and air supply doors.

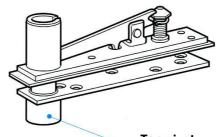
 Keeps closing-up of fire protection doors and opening of smoke ventilation doors & air supply doors reliably, by interlocking of smoke sensors in combined use with an electromagnetic release mechanism.

Decorated rubber plate

 Provided with a decorated rubber plate for screening the cutout windows for speed control and spring winding.

Sliding receptive base

- Minimized embedding depth
- Can be centered on-site because of having a sliding seat, thus assuring easy installation.



Top pivot

- · Can be also installed reversely.
- Options available for special applications.

Easy closing speed adjustment

 Able to adjust the closing speed in a wide range merely by turning the speed control gear to right and left, also allowing fine adjustment.

Smooth closing

 Constructed with unique hydraulic control mechanism, realizing optimum closing operation. Any door closes smoothly and quietly.

Free closing force adjustment

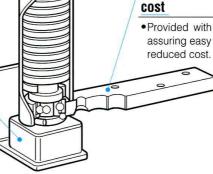
• Able to adjust the closing force freely by adjusting the spring set seat.

Powerful closing force

 Has closing force sufficient to meet the sizes of any door, assuring door closingup. It adopts special ladder type spring, having been already demonstrated for its high persistence.

Easy installation and reduced

 Provided with a very thin fix base plate, assuring easy installation on any door and reduced cost.



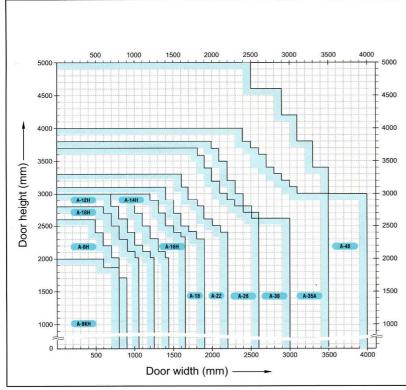
SPECIFICATIONS

Mada Na	Door	r size applicable	e(mm)	Door weight	Standard closing	Spring set	Тор	Max, opening angle	Page
Mode No.	W	Н	D	(kg)	force(N·m)	system	pivot	wax, opening angle	- ugc
A-8KH	800	1,850 (max.)	36	40 (max.)	6.9				3
A-8H	(max.)	2,000	(min)	50	8.9				4
A-10H	1,000	ension		85	10.8		N-21B	MENIO JANSIS	5
A-12H	1,200	2,100	40	100	15.7		N-Z1D		6
A-14H	1,400	niggress.		130	19.7				7
A-16H	1,600	3 12 2 3	45	160	24.6	Roll-in system		180° right or left one-side opening	8
A-18	1,800	2,400	50	200	41.2		N-22B		9
A-22	2,200		30	240	49.1		1,122	3-9106	10
A-26	2,600	2,600		310	60.9	M			11
A-30	3,000	2,000	55	410	68.7		N-23B		12
A-35A	3,500	2.000		650	73.6				13
A-40	4,000	3,000	60	800	78.5		N-25A		14

Note: 1. Difference in opening directions are shown by the symbols, "R" for right-hand door and "L" for left-hand door, suffixed at the end of model No.

- 2. Pre-set type can be used as roll-in system by unwinding the spring.
- 3. Each AUTO HINGE (center hang type) consists of a main body, a receptive base, a top pivot, and a decorated rubber plate.
- 4. Stop mechanism is not built in.
- 5. For selection of a model refer to the [Chart for Applicable Doors] shown below.
- 6. Handling of the fixed type (floor type) receptive base
 - The fixed type (floor type) receptive base is prepared for a place to which the sliding receptive base is not applicable.
- 7. There is a spring winding-window on both sides from A-8KH to A-16H.

CHART OF APPLICABLE DOORS



- Select an appropriate model according to the dimensions (height x width) of the door used. (See chart left)
- 2. Then make sure that the door weight is in the range of [Table of Applicable Door Weight] (given below) and determine the model.

Note: The Chart is drawn up in the condition where wind velocity is 3m/sec as a standard.

For using a forced (open smoke) ventilation door or any model under a strong wind, contact us beforehand.

Table of Applicable Door Weight

Model	Weight/1m ²	Type of doors
A-8KH	27kg/m²max.	Steel door (only for wicket door)
A-8H	31kg/m²max.	
A-10H, A-12H	39kg/m²max.	
A-14H, A-16H	41kg/m²max.	Steel door
A-18, A-22, A-26	45kg/m²max.	Steel door
A-30	52kg/m²max.	
A-35A	61kg/m²max.	-
A-40	65kg/m²max.	

A-8H

Madal		Door s	ize applicable	e (mm)	Door weight	Closing	Spring set	Stop	Max. opening	Indicating
Model		W	Н	D	(kg)	force (N⋅m)	system	mechanism	angle	label
A-8HR	Right opening	800 max.	2000 max.	36 min.	50 max.	8.9	Roll-in system	None	180° right or left one-side	R : Green L : Yellow
A-8HL	Left opening						System		opening	L . Tellow
EXTE	RNAL DIN	IENSIO	NS AND	FITTIN	IG DIAG	RAMS				
				nk Head Screv	<u>v</u>		21B TOP P lead shape of the		octangular width	across flat 17.
ıڻا		Decorated Plate	4-N	15X12€		ed Plate mt(min.)		159		
3~2		\				7.5	15.5	148.5 133	3	
1				i i	1 1					m
		-	<u>3</u>	Countersur Head Screv 4-M5X12@	// Reinford	ced Plate		•	9 9 2	30
		<u></u> .	[_ - ,	Speed Control	Window ø15		28 10	85	(10) 4-ø5.2 Count	က် ersinking
				Speed Control		Up	per Frame	•	Diameter	
	ø23					-	ø22		ith across flat17	Decorated
		+ +				04		- F		Plate 1 ^m /mt
			AUTO-HINGE LOT NO.	÷		22				‡
占	113	109				~↓	ø25	Shaft Diameter		
			12 38	Spring-Wir	nding Window 2				4-ø5.2 Cou	ntersinking
		20	00			Do	or Side		Diame	ter ø10
				Spring Set Se	a at			•		30
	171	308	ø28.2	Spring Set Se	<u></u>		15.5 27	32 32 148.5	32 (10)	
						112	SSN Rece _l			2
2-M5SCR	186 H	181	l R	teinforced Plate	2	U-\	Jan Kece	94 2-M3Countersu		Single side in X-X'direction 16 ^m / _m
) sunk Head Scre I-M6X200	<u>ew</u> <u>6</u>	54 48	\rightarrow	4-R5	Single side in Y-Y'direction 7 ^m /m
	=				- Mox.200				7 11	x
6-10						44	# 1		38 40	Y' In direction of sliding
32	7 1 72	57			0 0 0 0	° /½	<u>ø30</u>		Decorated	oliding
Se	eat /	_ · ·/			nted Plate	0	-	38	Plate 1 ^m / _m t	
	Ē	Base Plate /	Reinforcing St	teel		Sp	ring Set P	in: 1 piece h Tapping Hole		
		∬ In the	case of 90)° opening	ı				∠ f 180° ope	ning
					_				•	
		•	4 5	26 36min	_			*	12 26 36min	
			Ψ		=					
Spring-W Window	Vinding 2	8 24 24 110	→ 	<u>u)</u>	Spring-W Window	/inding	28 24	10	(10)	
	3		DW					DW	4 1000000000000000000000000000000000000	 Unit: mm

- REMARKS

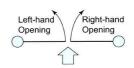
 1. This diagram shows the case of right-hand opening doors. There is a spring winding-window on both sides.

 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot.

 The seat should be firmly welded on the base plate.

 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)

 4. When U-2N receptive base is used, the door can be hanged also by preset system.

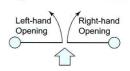


A-10H

Madal		Doors	size applicable	e (mm)	Door weight	Closing	Spring set	Stop	Max.	Indicating
Model		W	Н	D	(kg)	force (N⋅m)	system	mechanism	opening angle	label
A-10HR A-10HL	Right opening Left opening	1000 max.	2100 max.	40 min.	85 max.	10.8	Roll-in system	None	180° right or left one-side opening	R : Green L : Yellow
EXTE	RNAL DIM	MENSIO	NS AND	FITTIN	IG DIAG	RAMS				
			Countersur	nk Head Screw	,		21B TOP P	IVOT adjusting screw is	octangular width	across flat 17
101		Decorated Plate		15X12@	Reinforce		oud onapo or are	159	ootangalar water	adioos nat ii.
3~2		· idio				7.5	15.5	148.5 133	3	
								133		۳ *
		→	_3	Countersun Head Screv 4-M5X12@	Reinforce 2.3 ^m /ml			*		30
				Speed Control		.(11111.)	28 10	85	(10) 4-ø5.2 Counte	
				speed Control		Up	per Frame	:	Diameter	
	ø23 ≺ →	4		posa control	<u> </u>		ø22	Octangular width a	← Dec	corated
		# +				04			Pla	te 1 ^m /mt
			AUTO HINGE LOT NO			*			2	
H	110	109				*	Ø25 Ø25	aft Diameterø13	3	
			13 37	Spring-Wine	ding Window 20	X50 Do	or Side		4-ø5.2 Counte	
		50	00	/		(-	Diameter	T
	y		A-10HR	Spring Set Se	at		5.5 27 3	2 32 3	⊕	↓
		308	ø31.8				 	148.5	× (10)	
2-M5SCRE	<u>w</u> <u>8</u>	181				U-3	SN Recep	otive Base	Head Screw	Single side in X-X'direction
	all I II i	_	Re	einforced Plate 2.3 ^m /mt(min.)		<u>6</u>	54 48	<u> </u>		16m/m Single side in Y-Y'direction
					sunk Head Screv -M6X30@	<u>*</u>	6		<u> </u>	7m/m Y
65						4		9)		y' n direction of
35	7 5	72		0 0 0	• • • • • •	° 2-M5	ø30	26	<u> </u>	liding
1 1 1	10 to 10			Decorat	ed Plate	0	-		ate 1 ^m /mt	
Sea	<u>at</u> /	Base Plate	Reinforcing Ste	/		Spi	ring Set P	in: 1 piece	9 90	
		II •		•		11		h Tapping Hole	_	
		in the c	ase of 90°	opening			In th	e case of	180 open	iing
			7	40min.				-	12 28 40min.	=
		• -	7	<u> </u>			3) 💠	•	2 4	_
Spring-Wi Window	nding 35	25, 25, 120	25 (10))	Spring-Win	nding /	35 25	25, 25,	(10)	
	3		DW	20	Window	_/		DW	*	— Unit: mm

REMARKS

- This diagram shows the case of right-hand opening doors. There is a spring winding-window on both sides.
 This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.
 For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)
 When U-2N receptive base is used, the door can be hanged also by preset system.



A-12H

Model		Doors	size applicable	e (mm)	Door weight	Closing	Spring set	Stop	Max. opening	Indicating
Model		W	Н	D	(kg)	force (N·m)	system	mechanism	angle	label
A-12HR A-12HL	Right opening Left opening	1200 max.	2100 max.	40 min.	100 max.	15.7	Roll-in system	None	180° right or left one-side opening	R : Greer L : Yellov
									оролинд	
EXTE	RNAL DIN	IENSIO	NS AND	FITTIN	IG DIAG		40 TOD D	I) (OT		
			Countersur 4-N	nk Head Screv	7	The	21B TOP P nead shape of the		octangular width	across flat 17
3~5		Decorated Plate		The state of the s	Reinforce 2.3 ^m /r	ed Plate mt(min.) 7.5	-	159 148.5	→	
9				4,4,4		1.5	15.5	133	3	ကျ
				İ	14/			• 4		#
		→	3	Countersur Head Screv 4-M5X12®	NR / Reinforc 2.3 ^m /m			Ψ	\$ 6 2	8
			<u> </u>			,	28 1	0 85	/4-ø5.2 Cour) നി ntersinking
				Speed Control		Un	per Frame		Diamete	
	ø23			Speed Control	Gear	Op	ø22 ★→	Octangular widt	h across flat17	
		4				<u></u>	\Box		→	Decorated Plate 1 ^m /m
		Î	S F F S NOTICE SCHOOL S			4			<u></u>	<u>+</u>
	110	109	R			22	□\\s	haft Diameterø	v)13	1
	 				50		ø25			
		+	13 37	Spring-Win	iding Window 20	10.00	or Side		4-ø5.2 Cou	untersinkin ter ø10
		30	0 0 A-12HR	•				•		e
				Spring Set Se	eat		15.5 37	22 22		
		308	ø31.8				15.5 27	32 32 4 148.5	32 (10)	
	98					U-:	SSN Recei	otive Base	•	
2-M5SCRE		181	R	einforced Plate 2.3 ^m /mt(min.			54		unk Head Screw	Single side i X-X'direction 16m/m
				Counter	, <u>sunk Head Scre</u> I-M6X30 <i>ℚ</i>	ew	6 48	\rightarrow	4-R5	Single side i Y-Y'direction 7m/m
8					*					x x'
6-10		↓ ↓			型 위	24			38 40	Y' In direction of
35					0 0 0 0	°. /2-	M5 Ø30	26 34		sliding
Sea	at O	/		Decora	ited Plate	° Cn	ring Sot B	38	Decorated Plate 1 ^m / _{mt}	
<u>500</u>	Ē	Base Plate	Reinforcing St	eel		эр	ring Set P	iii. i piece	e 9 8	
		II In 41		• • _ •		II	1988	th Tapping Hole		
		in the c	case of 90	opening	l	7	ııı tr	ie case of	180° opei	iiig

Window

Spring-Winding

24 \$2

Spring-Winding Window

(10)

- REMARKS

 1. This diagram shows the case of right-hand opening doors. There is a spring winding-window on both sides.

 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.

 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)

 4. When U-2N receptive base is used, the door can be hanged also by preset system.

DW

120

Right and Left Hand Doors

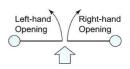
Unit: mm

24 \$2

(10)

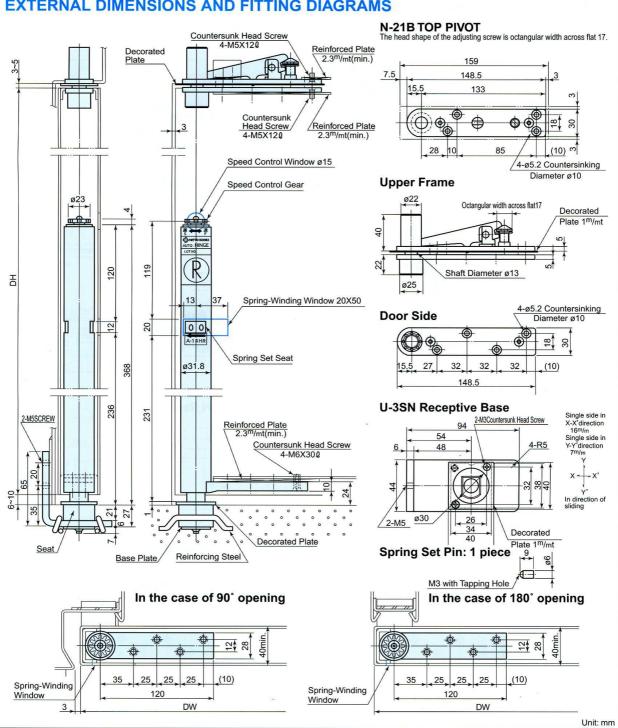
120

DW



A-14H

Model		Door s	size applicable	e (mm)	Door weight	Closing	Spring set	Stop	Max.	Indicating
Model		W	Н	D	(kg)	force (N·m)	system	mechanism	opening angle	label
A-14HR	Right opening	1400 max.	2100 max.	40 min.	130 max.	19.7	Roll-in system	None	180° right or left one-side opening	R : Green L : Yellow
A-14HL	Left opening	1400 Illax.	2100 max.							

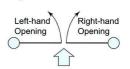


REMARKS

- 1. This diagram shows the case of right-hand opening doors. There is a spring winding-window on both sides.

 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.

 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)
- 4. When U-2N receptive base is used, the door can be hanged also by preset system.



A-16H

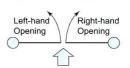
A IUII					*					
Model		Door s	ize applicable	e (mm)	Door weight (kg)	Closing force (N·m)	Spring set system	Stop mechanism	Max. opening angle	Indicating label
A-16HR Right of A-16HL Left op	opening	1600 max.	2400 max.	45 min.	160 max.	24.6	Roll-in system	None	180° right or left one-side opening	R : Green L : Yellow
EXTERNAL	וום ו	IENSIO	NS AND	FITTIN	IG DIAG	RAMS		L		
2-5		Decorated Plate	Countersu	nk Head Screen	N Reinforc	N-2	22B TOP P ead shape of the	adjusting screw is 161 155 135	octangular width	across flat 17.
				Countersu Head Scre 4-M5X12@	w/ /Reinford 3.2 ^m /m Window ø15	t(min.)	30 10	85	4-ø5.2 Cour	ntersinking
ø23	3		S	peed Control	Gear	Up	per Frame ø28		Ith across flat17	1 610
	-	119	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Spring-Win	ding Window 20	257	ø28	Shaft Diamete	г Ø 18	Decorated Plate 1 ^m /mt
	13	368	Ø36	Spring Set Se			or Side	32 32	Diameter St. (10)	
2-M5SCREW	235	27 4 231	Re	4	sunk Head Screen-M6X30 2	44 44 44 44 44 44 44 44 44 44 44 44 44	54 48	otive Base 94 2-M3Counters 94 2-6 34 38	4-R5 Decorated	Single side in XX' direction 16m/m Single side in Y-Y' direction 7m/m Y X - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
<u>Seat</u> /	E	Base Plate	Reinforcing Ste	1	ica i late	Sp	ring Set P	in: 1 piece	Plate 1 ^m / _{mt}	
		In the c	case of 90°	° opening			_	th Tapping Hole		ning
Spring-Winding Window		0, 30, 31	0 , 30 ,	(01) 45min,	Spring-V Window	Vinding	30, 30,	30, 30,	(10)	45min.

Window

- 1. This diagram shows the case of right-hand opening doors. There is a spring winding-window on both sides.
 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.
 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)

Right and Left Hand Doors

Unit: mm



A-18

Model		Door s	ize applicabl	e (mm)	Door weight	Closing force	Spring set	Stop	Max. opening	Indicating
Wiodei		W	Н	D	(kg)	(N·m)	system	mechanism	angle	label
A-18R	Right opening	1800 max.	2400 max.	50 min.	200 max.	41.2	Roll-in	None	180° right or left one-side	R : Gree
A-18L	Left opening	1000 max.	2400 Max.	30 111111.	200 max.	71.2	system	None	opening	L : Yello
EXTE	RNAL DIN	IENSIO	NS AND	FITTIN	IG DIAG	RAMS				
7-5		Decorated elate	4-M5 Spee	Countersunk Head Screw 4-M5X12 0		The head (min.) 3 1 Plate nin.)	B TOP PIN d shape of the adj		3 3 (10) 4-ø5.2 Counte	E T T T T T T T T T T T T T T T T T T T
표	923	264	Spee	d Control Gear		22 40	ø28	Octangular width	PI PI 18	ecorated ate 1 ^m /mt
		+ -		Spring-Winding	g Window 55X5	55 Door	Side	•	Diameter ø	sinking 10
	499	\$ 25	A-18R Spi	ring Set Seat		16	29 32	32 32	8 8	
a_				Reinfr	orced Plate	U-6S	N Recepti		ersunk Head Screw	X direction 16 ^m /m
2-M5SCREW	187	181	ø38	3.2	2 ^m /mt(min.) ntersunk Head : 4-M6X30 @	Screw 6	58 52	103	4-R5	X'direction 31 ^m /m Single side in Y-Y'direction 7 ^m /m

Decorated Plate

\$ \$

Spring-Winding

Window

(10)

/ 2-M5 ø37.5

30 30

17, 19

M3 with Tapping Hole

80

180

Spring Set Pin: 2 pieces

REMARKS

Spring-Winding Window

Seat

30

Base Plate

30

This diagram shows the case of right-hand opening doors.
 This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.

DW

Reinforcing Steel

In the case of 90° opening

30

3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)

80

180

Right and Left Hand Doors

(10)

30

6 \$

Unit: mm

Decorated

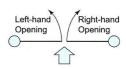
15

In the case of 180° opening

DW

Plate 2^m/mt

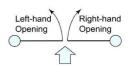
88



	Door size applicable (mm) Door weight Closing force Spring set Stop Max. Opening Indicating												
Model		W	Н	D	Door weight (kg)	force (N·m)	Spring set system	Stop mechanism	opening angle	Indicating label			
A-22R	Right opening						Roll-in		180° right or	R : Green			
A-22L	Left opening	2200 max.	2400 max.	50 min.	240 max.	49.1	system	None	left one-side opening	L : Yellow			
EYTE	RNAL DIM	IENGIO	NS AND	FITTIN	G DIAG	RAME							
EXIC	NINAL DIN	ILIVOIO	INO AINL	FITTIN	DIAG		D TOD D"	/OT					
		Decorated	Countersuni 4-M5	k Head Screw 5X120	\ Reinforced	The hea	B TOP PIN d shape of the ad	justing screw is oc	tangular width acı	ross flat 17.			
5~7		Plate			3.2 ^m /mt	·	•	161	3				
†		1				3	20	155 135		က			
			-	Countersunk				ф 4					
		3	-	Head Screw 4-M5X12 Q	/Reinforced 3.2 ^m /mt(i	min.)	W (Ψ (2 0 21	38			
		Ti	Spee	d Control Wind	low ø15		30 10	85	4-ø5.2 Coun				
	ø23		Spee	d Control Gea		Upp	er Frame		Diameter				
		 			-		ø28 →	Octangular width	across flat17	ecorated			
			MITO KOHKI AUTO - HINGE			9			P 9	late 1 ^m /mt			
			\mathbb{R}			<u>↓ _</u> ↓							
됩		264				, S	ø28	naft Diameterø	18 ' დ [†]				
			18 37	Conina Windin	a Mindou EEV	ļ. 55. D	← →		4-ø5.2 Coun	tereinking			
		 		Spring-windin	g Window 55X	DOO!	r Side	•	Diamete				
	47	55	1			-		•	⊕ 8\$ 8	70			
			A-22R				16 29 3	→ ∢ → ∢	32 (10)				
			Sp	ring Set Seat		U-6S	SN Recept	ive Base	→	X direction			
2-M5SCREW	187			Reinf	orced Plate 2 ^m /mt(min.)		L-		ntersunk Head Screw 4-R5	16 ^m /m X'direction 31 ^m /m			
2-MOSCREW		181	ø38	Cou	ntersunk Head 4-M6X30@	Screw 6	58 52			Single side in Y-Y'direction 7m/m			
									0 0	x x'			
8 4 8						21 ST 4			17 46	Y' In direction of sliding			
	7 7 8	7		0 0 0 0		2-N	ø37.5	17 19	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	sliding			
Sent	W # 00 1			Decorated	d Plate	o ·	 	49	Decorated Plate 2 ^m /				
<u>Seat</u>	<u>Ba</u>	se Plate R	einforcing Stee			Spri	ng Set Pir	n: 2 pieces	15 8				
		In the	oneo of O	O° oponin	~	L		h Tapping Hole		nina			
		in the	case of 9	o openin	9		in th	e case of	100 oper	9			
		. •		⊕ • 4	i ii		1 •		9 9	75 jiii			
		()		± 45 ± 45	50min		3	-(0) = = (50min			
Spring-Wine	ding 30	30	80 30	(10)	Spring-Wi	nding	30 , 30 ,	80	30 (10)				
Window	3	18	0 DW	→	Window	/_		180 DW	,				
	40.6					6000				Unit: mm			

REMARKS

- This diagram shows the case of right-hand opening doors.
 This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.
 For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)



A-26

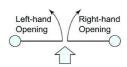
Model			ize applicabl	1	Door weight (kg)	Closing force	Spring set system	Stop mechanism	Max. opening	Indicating label
	T	W	Н	D	(1/9)	(N·m)	System	moonamam	angle	10.001
A-26R	Right opening	2600 max.	2600 max.	55 min.	310 max.	60.9	Roll-in system	None	180° right or left one-side	R : Green L : Yellow
A-26L	Left opening								opening	
EXTE	RNAL DIN		Countersunk H 4-M6X C C H 4 Spee	lead Screw	Reinforced PI 3.2 ^m /mt(mi	N-23 The here			(10) c 6.5 Countersi Diameter ø12 cross flat17	nking
НО	48 \	55 74 307		Spring-Windin	g Window 55X5	55 Doo	r Side	32 32	ø6.5 Countersia Diameter ø12	X direction
2MSSCREW 000 Seat	8a:	/.	ø46	S. Cou	orced Plate 2 ^m /mt(min.) ntersunk Head 4-M6X30 &	2-M5	58 52 6 6 9 9 9 9 9 9 9 9	103	Decorated Plate 2m/ml	16"/m X'direction 31"/m Single side in Y-Y'direction 7"/m Y X - X' In direction of
		In the	case of 9	0° openin	g			n Tapping Hole e case of	-	ning
== Spring-Wi <u>Window</u>	inding 3	5 35	55 35 00 DW	(10)	Spring-Window	nding	45 35	55 180	35 (10)	55min.

REMARKS

- 1. This diagram shows the case of right-hand opening doors.
 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.
 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)

Right and Left Hand Doors

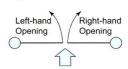
Unit: mm



A-30

Model		Door s	size applicabl	e (mm)	Door weight	Closing	Spring set	Stop	Max. opening	Indicating
	100	W	Н	D	(kg)	(N·m)	system	mechanism	angle	label
A-30R A-30L	Right opening Left opening	3000 max.	2600 max.	55 min.	410 max.	68.7	Roll-in system	None	180° right or left one-side opening	R : Green L : Yellow
EXTE	RNAL DIN	IENSIO	NS AND	FITTIN	IG DIAG	RAMS				
			Countersunk H			The hea	B TOP PINd shape of the ad	/OT justing screw is oc	tangular width ac	ross flat 17.
5~7		Decorated Plate	4-1016		Reinforced F 3.2 ^m / _{mt} (m	<u>Plate</u> nin.)		162	→	
						3	21	156 135	3	ml
1		1	C	ountersunk /			(A)	Α Δ	•	#
		3	H- 4-	ountersunk ead Screw -M6X16 2	Reinforced PI 3.2 ^m /mt(min)	27	⁸ / _→
-		Ti	Spee	d Control Wind	dow ø15		29 10	86	/ (10) 4-ø6.5 Counter	ത rsinking
			Spee	d Control Gea	<u>r</u>	Upp	er Frame		Diameter ø	
		† 				<u> </u>	Ø34	Octangular width	 	ecorated
			Auro-singe List N			46			6	ate 1 ^m /mt
_	307	307				25			11/	†
= -							ø34	Shaft Diamet	terø20	
			18 37	Spring-Windin	ig Window 55X5	55 Doo	r Side		4-ø6.5 Coun Diameter	
	1 48	55	PG /					-	27 8	8
			P09				- T	32 32 3	32 (10)	
			Sp	oring Set Seat		11.79	N Recept	ivo Raso		X direction
2-M5SCREW	716			Reint 3.	forced Plate 2 ^m /mt(min.)	0-73			tersunk Head Screw	16 ^m /m X'direction 31 ^m /m
	5,2	210	ø46		4-M8X35 Q	Screw 6	58 52		4-R5	Single side in Y-Y'direction 7m/m
						45			54	x x.
6~10		<u> </u>				37 4			19 10 10 10 10 10 10 10 10 10 10 10 10 10	Y' In direction of sliding
				• • • • • •		2-M5	ø44.5	19, 21,	Decorated	siluling
Seat	E Pa	se Plate R	° ∵ ° ∘ ∘ . ∖ einforcing Stee	Decorate	d Plate	Spri	ng Set Pir	n: 2 pieces	Plate 2 ^m /mt	
	Ба	oo i iate/					M3 wi	th Tapping Hole		
		In the	case of 9	0° openin	g			e case of	<u> </u>	ning
		<u> </u>		*		- S	M		الم	
		•	•	2 4	55min.			•	42	55min.
= Spring-W	inding 4	714 714	55 35	(10)	Spring-Wi	nding	45 35	55	35 (10)	*
Window	3	18	80 DW	—	Window		•	180 DW	,	
	Ov.00					40 f				Unit: mm

- 1. This diagram shows the case of right-hand opening doors.
 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot.
 The seat should be firmly welded on the base plate.
 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)



A-35A

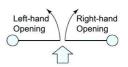
Door size applicable (mm) Door weight Closing force Spring set Stop Max. opening Indicating										
Model	W	Н	D	(kg)	(N·m)	system	mechanism	angle	label	
A-35AR Right opening A-35AL Left opening	3500 max.	3000 max.	55 min.	650 max.	73.6	Roll-in system	None	180 right or left one-side opening	R : Green L : Yellow	
EXTERNAL DI	MENSIO		FITTIN		N-2	23B TOP F	PIVOT adjusting screw is	e octangular width	across flat 17	
2-9	Decorated Plate	3	Countersunk Head Screw 4-M6X162	Reinforce 3.2 ^m /m	d Plate t(min.) 3 ad Plate (min.)	21 29 10	162 156 135	(10) 4-ø6.5 Counte	88 80 Principle of the control of th	
Ф23	307	R 37	Speed Control	Gear_ Vinding Window	22 + 46 ×	per Frame			padental page 100 pag	
2-MSSCREW	571	PO 2	Spring Set S	eat_ Reinforced Plate	U-7	or Side	155 ptive Base	32 (10)		
Seat Seat	5	Ø46	Decorate	4.5 ^m /mt(min.) Countersunk Ht 5-M8X40	ead Screw on the screw of the s	M5 Ø44.5	103	4-R5		
	Base Plate	Reinforcing	Steel		S	pring Set	Pin: 2 pie	ces 15	88	
	In the c	ase of 90°	openina				M3 with Tapping		ning	
Spring-Winding Window	•	.5 27.5 35	(10)	Spring-W Window	inding	45 3	5 27.5 27.5	•	24 46 55min.	

- REMARKS

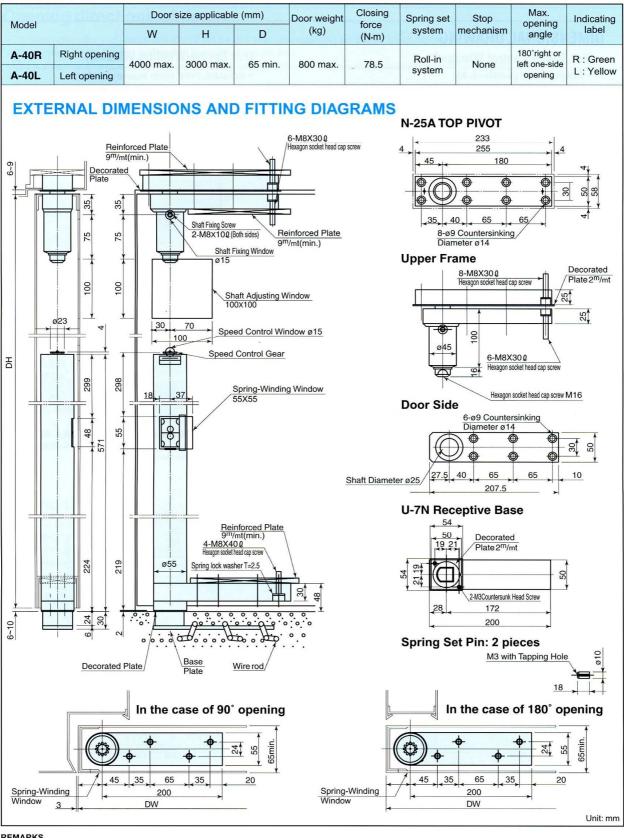
 1. This diagram shows the case of right-hand opening doors.

 2. This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.

 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15)



A - 40



- This diagram shows the case of right-hand opening doors.
 This receptive base should be adjusted and centered according to the plumb bob from the top pivot. The seat should be firmly welded on the base plate.
- 3. For speed control windows and spring-winding windows use the decorated rubber plate. (see page 15) Prepare the shaft fixing window.
- A big force is applied to the installation unit.

 Perform reinforcement with enough strength.
- 5. Screw in the top pivot securely as turning the shaft upward and then tighten the shaft fixing screw

