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## HANDRAIL SERIES

(Technical details listed on this catalog are only for reference. All materials prevail.)

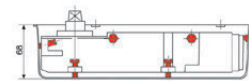


# FLOOR HINGE

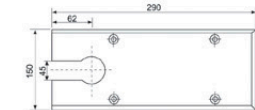
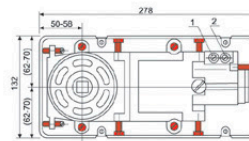


### HDL-85

(Every model has B, D, G, N four kinds for your choice!)



- 1.Closing speed regulating valve 116°~20°
- 2.Latching speed regulating valve 20°~0°

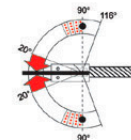


### DATA & FEATURES

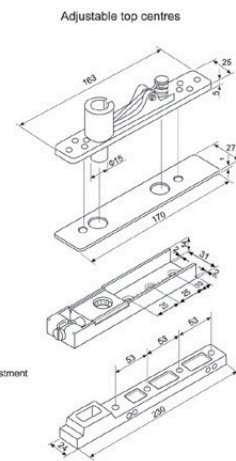
Spring strength	standard	weak	strong
Closing force approx. (Nm.)	20	15	25
Standard and external doors 1) up to 900mm 2) up to 1100mm	—	●	—
Closing speed variable by valve adjustment	●	●	●
Back check	—	—	—
Door weight up to (kg)	120	100	120
Hold-open point 90° or 105°	●	●	●
Weight approx. (kg)	6.0	6.0	6.0
Dimension (mm)	Length 290 Width 150 Height 70		

● Yes — No ○ Option

Adjustment in cement case: Length x 8mm, horizontal x 8mm, height x 8mm

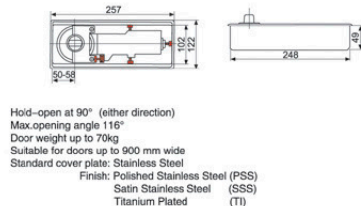


- 1.Fully controlled closing action with speed adjustment for the ranges 116° to 20° and 20° to 0° (either direction)
- 2.Hold open at 90°



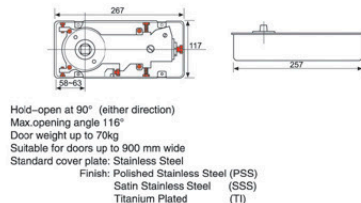
Adjustable top centres  
Bottom attach arm (sale on request)

HaiDeLi provides a wide range of floor hinge accessories



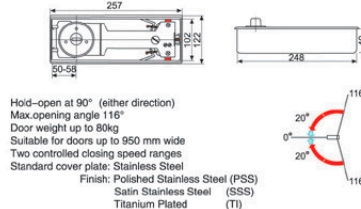
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 70kg  
Suitable for doors up to 900 mm wide  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-80**



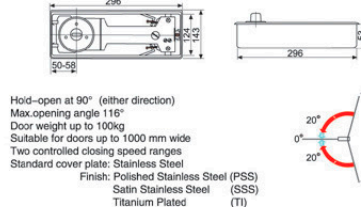
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 70kg  
Suitable for doors up to 900 mm wide  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-80A**



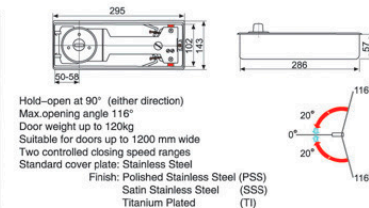
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 80kg  
Suitable for doors up to 950 mm wide  
Two controlled closing speed ranges  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-81**



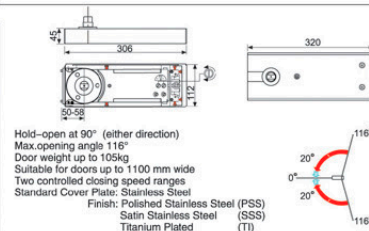
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 100kg  
Suitable for doors up to 1000 mm wide  
Two controlled closing speed ranges  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-82**



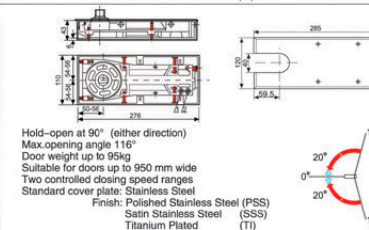
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 120kg  
Suitable for doors up to 1200 mm wide  
Two controlled closing speed ranges  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-83**



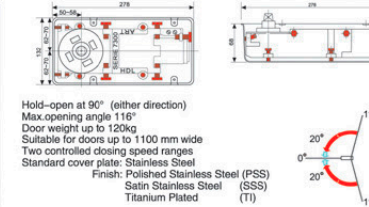
Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 105kg  
Suitable for doors up to 1100 mm wide  
Two controlled closing speed ranges  
Standard Cover Plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-84**



Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 95kg  
Suitable for doors up to 950 mm wide  
Two controlled closing speed ranges  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-86**

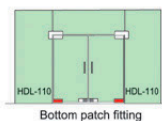
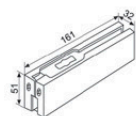


Hold-open at 90° (either direction)  
Max. opening angle 116°  
Door weight up to 120kg  
Suitable for doors up to 1100 mm wide  
Two controlled closing speed ranges  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

**HDL-7300**



**HDL-110**

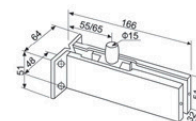


Bottom patch fitting

With insert for most floor hinges  
(selected by form ACCESSORIES FOR PATCH FITTINGS)  
For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-130P**

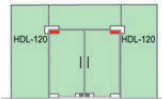
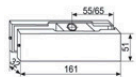


Overpanel pivot patch fitting

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-120**

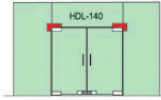
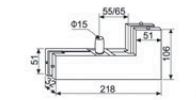


Top patch fitting

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-140**

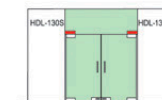
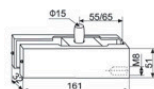


Overpanel to sidepanel  
Pivot patch Fittings

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-130S**

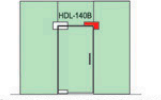
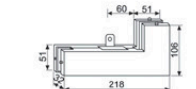


Overpanel pivot patch fitting

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-140B**

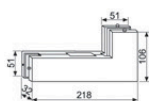


Corner overpanel door backup

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-140K**

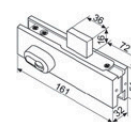


Corner overpanel lock keeper

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-150D**

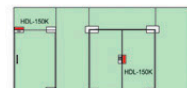
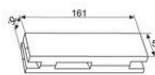


Patch Lock

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-150K**

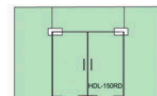
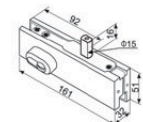


Lock Keeper

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-150RD**

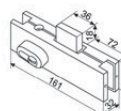


Patch Lock

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-150S/ci/D**



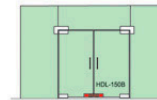
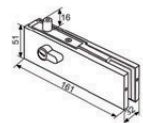
Centre Patch Lock

For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-100-6A**

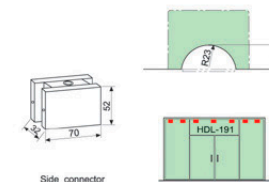
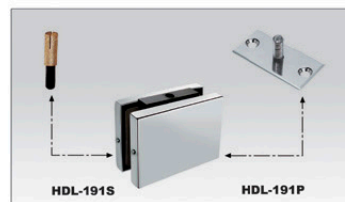
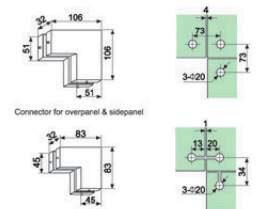
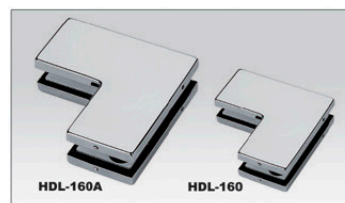
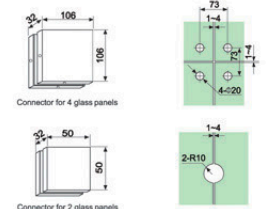
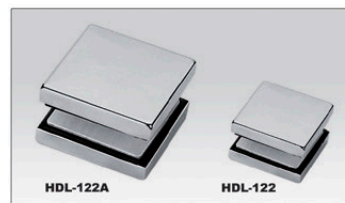
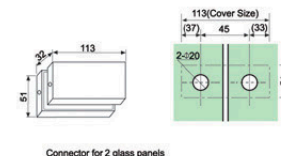
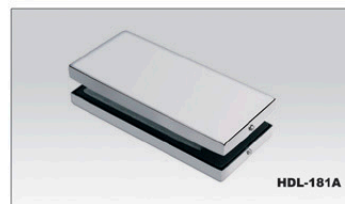
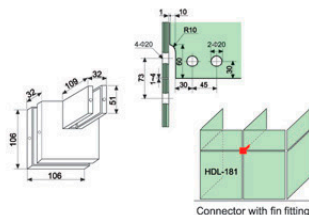
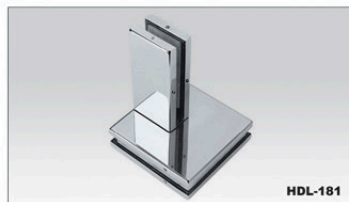
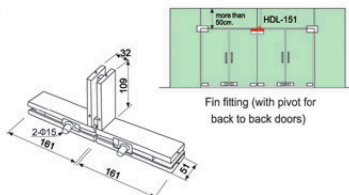
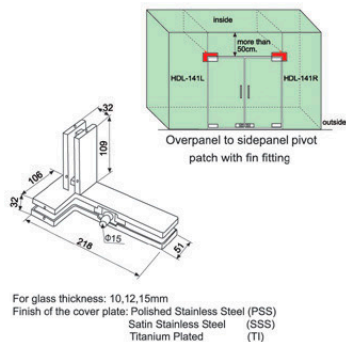
**HDL-150B**



Patch Lock

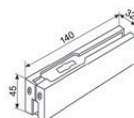
For glass thickness: 10,12,15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



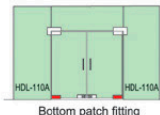




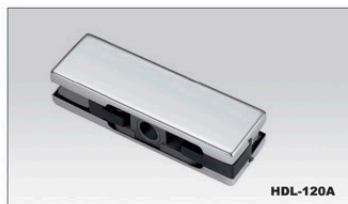
**HDL-110A**



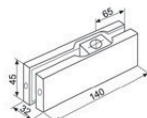
With insert for most floor hinges  
(selected by form ACCESSORIES FOR PATCH FITTINGS)  
For glass thickness: 10, 12mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



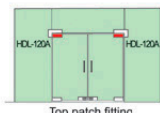
Bottom patch fitting



**HDL-120A**



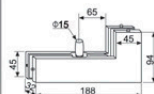
For glass thickness: 10, 12mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



Top patch fitting



**HDL-140A**



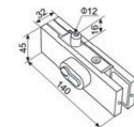
For glass thickness: 10, 12mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



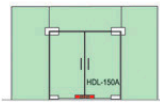
Overpanel to sidepanel pivot patch



**HDL-150A**



For glass thickness: 10, 12mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)

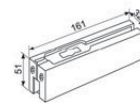


Patch Lock

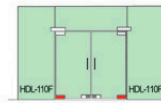


**HDL-110F**

Without drilling glass holes



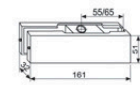
With insert for most floor hinges  
(selected by form ACCESSORIES FOR PATCH FITTINGS)  
For glass thickness: 10, 12, 15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



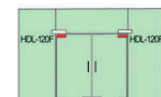
Bottom patch fitting



**HDL-120F**



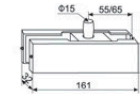
For glass thickness: 10, 12, 15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



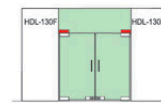
Top patch fitting



**HDL-130F**



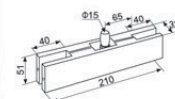
For glass thickness: 10, 12, 15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



Overpanel pivot patch fitting



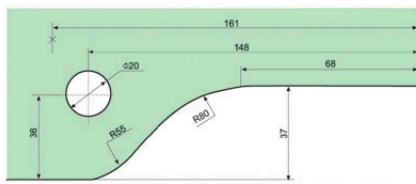
**HDL-140F**



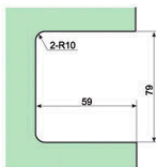
For glass thickness: 10, 12, 15mm  
Finish of the cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



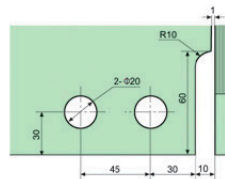
Overpanel to sidepanel  
Pivot patch Fittings



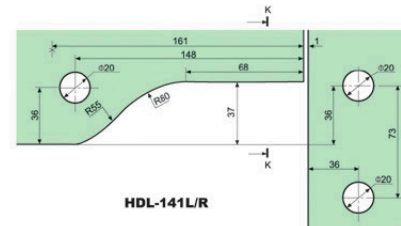
HDL-110 HDL-120 HDL-130S/P HDL-150B



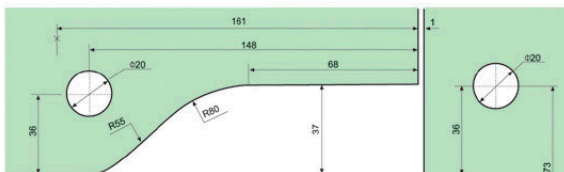
HDL-007 HDL-008



K - K



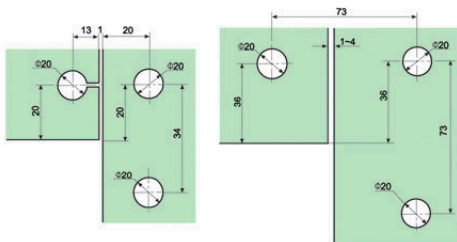
HDL-141L/R



HDL-140 HDL-140B HDL-140K



HDL-150D HDL-150RD

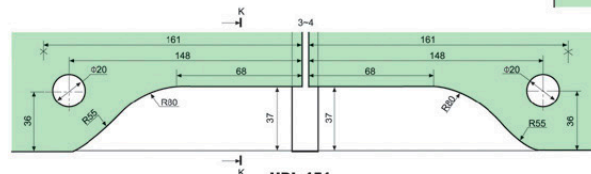


HDL-160

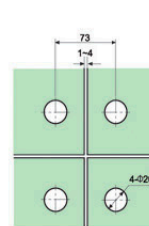
HDL-160A



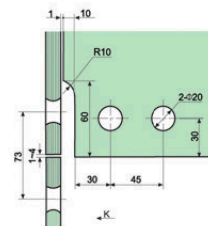
HDL-150S/cl/D HDL-150K



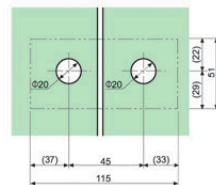
HDL-151



K



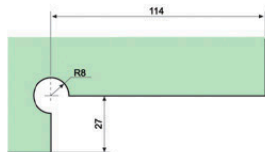
HDL-181



HDL-181A



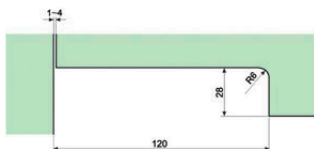
HDL-191S HDL-191P



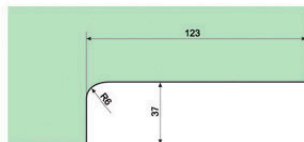
HDL-110A HDL-120A



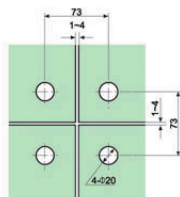
HDL-150A



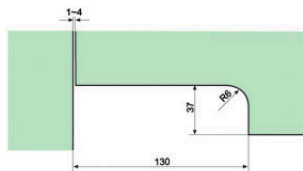
HDL-140A



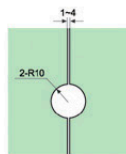
HDL-110F HDL-120F HDL-130F



HDL-122A

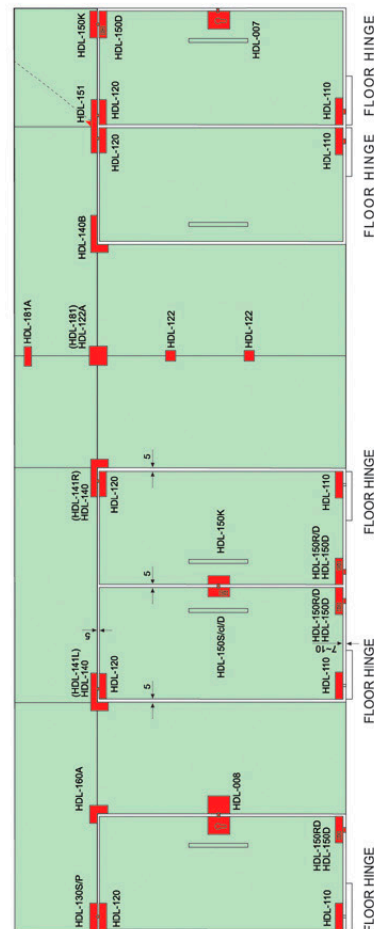


HDL-140F

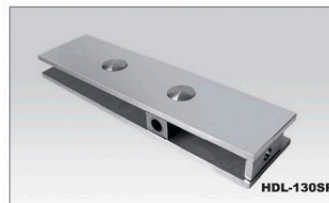
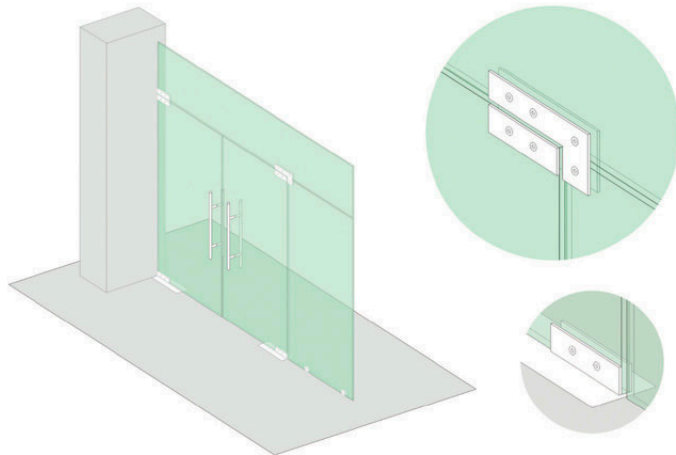


HDL-122

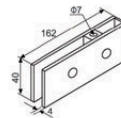
## TYPICAL INSTALLATION FOR GLASS DOOR



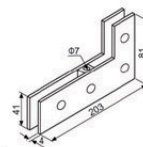




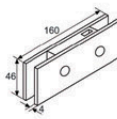
For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



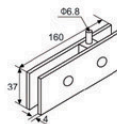
For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



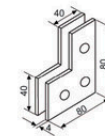
With insert for HDL-110-3SP Floor Hinges  
For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



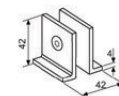
For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)

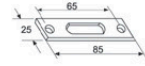

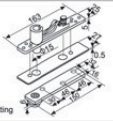
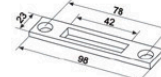

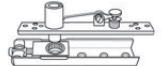
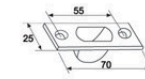
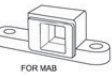
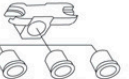
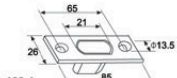




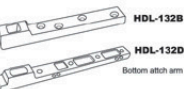
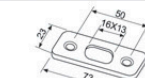

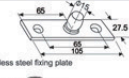
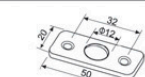
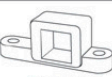
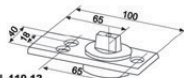


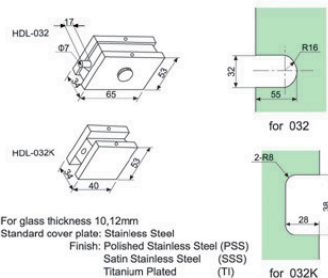
For 10mm, 12mm Glass Thickness  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



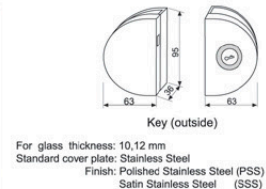
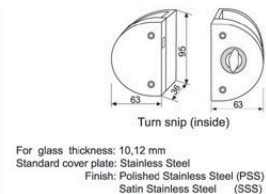
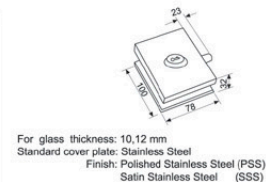
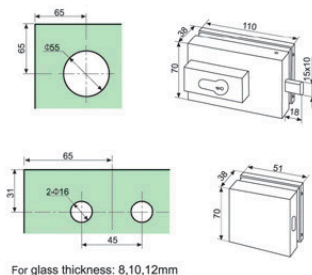
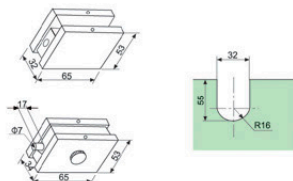


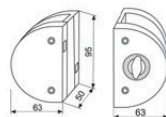
## ACCESSORIES FOR PATCH FITTINGS

 <p><b>HDL-100-1</b> Lock keeper plate (Fit for HDL-150RD)</p>	 <p><b>HDL-110-3D4</b> Stainless steel bottom insert. FOR DORMA</p>	 <p><b>HDL-131</b> For overpanel fitting</p>
 <p><b>HDL-100-2</b> Lock keeper plate (Fit for HDL-150D)</p>	 <p><b>HDL-110-3D</b> Stainless steel bottom insert. FOR DORMA</p>	 <p><b>HDL-131A</b> For overpanel fitting linear adjustable</p>
 <p><b>HDL-100-3</b> Easy clean socket (Fit for HDL-150RD)</p>	 <p><b>HDL-110-3B</b> Stainless steel bottom insert. FOR MAB</p>	 <p><b>HDL-120-1</b> Tip insert with bearing Ø15.1 ± 0.05 Ø12.6 ± 0.05</p>
 <p><b>HDL-100-4</b> Floor socket with dust cover (Fit for HDL-150RD)</p>	 <p><b>HDL-110-3N</b> Stainless steel bottom insert. FOR NEW STAR / DIAMOND / KYOKI</p>	 <p><b>HDL-130-1</b> Pinvt insert for overpanel fitting Ø15</p>
 <p><b>HDL-100-6</b> Floor socket with dust cover (Fit for HDL-150RD)</p>	 <p><b>HDL-110-3G</b> Stainless steel bottom insert. FOR CROWN</p>	 <p><b>HDL-132B</b> <b>HDL-132D</b> Bottom attach arm</p>
 <p><b>HDL-100-8</b> Lock Keeper Plate (Fit for HDL-007.004)</p>	 <p><b>HDL-110-3T</b> Stainless steel bottom insert. FOR SANTA MARINA</p>	 <p><b>HDL-133</b> Pinvt with stainless steel lining plate Ø65 Ø12.5 Ø105</p>
 <p><b>HDL-100-9</b> Lock Keeper Plate (Fit for HDL-032)</p>	 <p><b>HDL-110-3H</b> Stainless steel bottom insert. FOR MAUL CASMA</p>	 <p><b>HDL-110-12</b> Heavy duty floor pinvt bearing Basic static load 5000N t. Ø65 100 65</p>



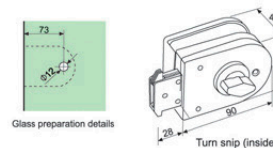
For glass thickness 10,12mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)





Key / Turn snip

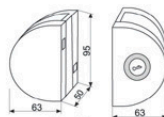
For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



Glass preparation details

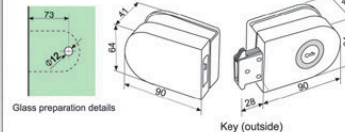
Turn snip (inside)

For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



Key / Key

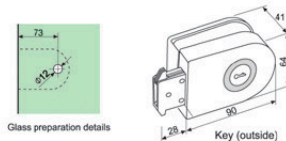
For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



Glass preparation details

Key (outside)

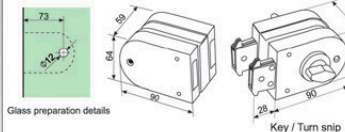
For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



Glass preparation details

Key (outside)

For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)



Glass preparation details

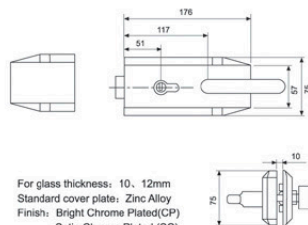
Key / Turn snip

For glass thickness: 10,12 mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)





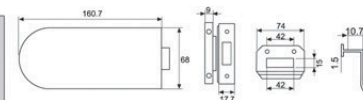
**HDL-013**



For glass thickness: 10, 12mm  
Standard cover plate: Zinc Alloy  
Finish: Bright Chrome Plated(CP)  
Satin Chrome Plated (SC)



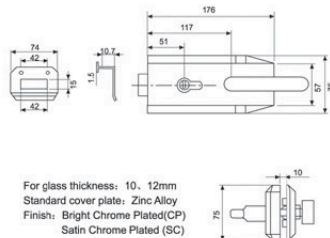
**HDL-014A**



For glass thickness: 10, 12mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel(PSS)  
Satin Stainless Steel (SSS)



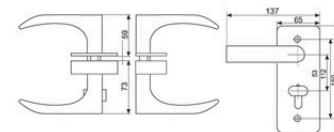
**HDL-013A**



For glass thickness: 10, 12mm  
Standard cover plate: Zinc Alloy  
Finish: Bright Chrome Plated(CP)  
Satin Chrome Plated (SC)



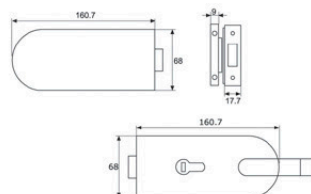
**HDL-015**



For glass thickness: 10, 12mm  
Standard cover plate: Zinc Alloy  
Finish: Bright Chrome Plated(CP)  
Satin Chrome Plated (SC)



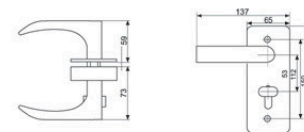
**HDL-014**



For glass thickness: 10, 12mm  
Standard cover plate: Stainless Steel  
Finish: Polished Stainless Steel(PSS)  
Satin Stainless Steel (SSS)



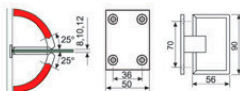
**HDL-015A**



For glass thickness: 10, 12mm  
Standard cover plate: Zinc Alloy  
Finish: Bright Chrome Plated(CP)  
Satin Chrome Plated (SC)

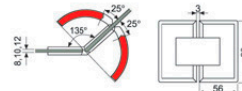


**HDL-301**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

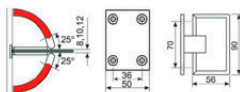
**HDL-302A**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

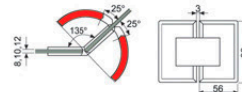


**HDL-301A**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

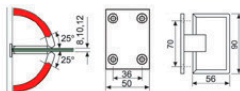
**HDL-302B**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-301B**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

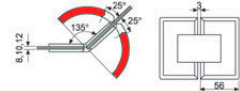
**HDL-303**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

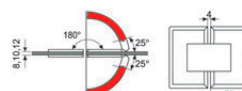


**HDL-302**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)

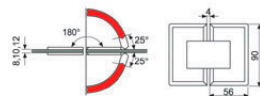
**HDL-303A**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



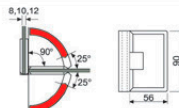
**HDL-303B**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



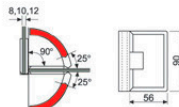
**HDL-304**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



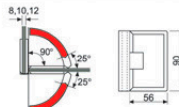
**HDL-304A**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



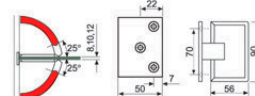
**HDL-304B**



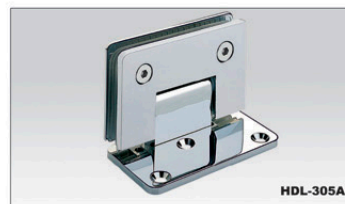
Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



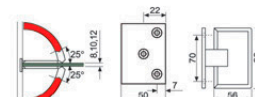
**HDL-305**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



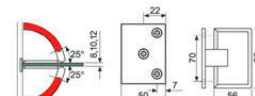
**HDL-305A**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



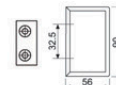
**HDL-305B**



Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



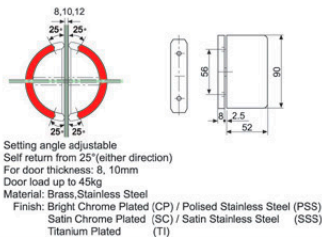
**HDL-306**



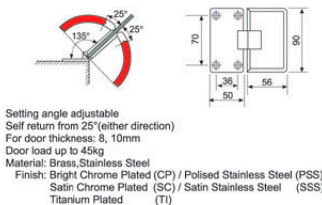
Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 45kg  
Material: Brass, Stainless Steel  
Finish: Bright Chrome Plated (CP) / Polished Stainless Steel (PSS)  
Satin Chrome Plated (SC) / Satin Stainless Steel (SSS)  
Titanium Plated (TI)



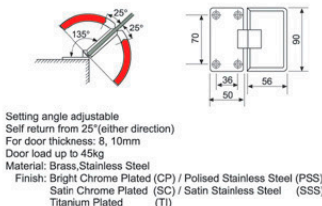
**HDL-307**



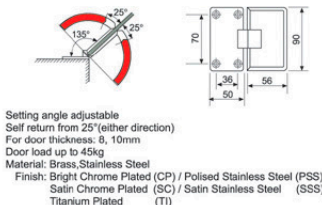
**HDL-308**



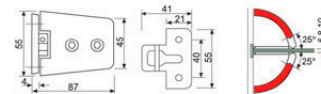
**HDL-308A**



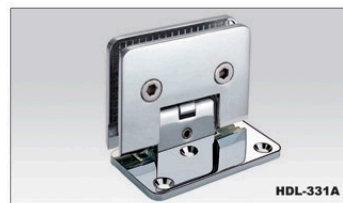
**HDL-308B**



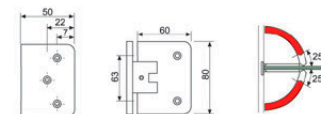
**HDL-321**



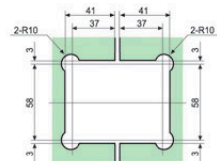
Setting angle adjustable  
Self return from 25°(either direction)  
For door thickness: 8, 10mm  
Door load up to 40kg  
Material: Brass  
Finish: Bright Chrome Plated (CP)  
Satin Chrome Plated (SC)  
Titanium Plated (TI)



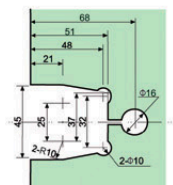
**HDL-331A**



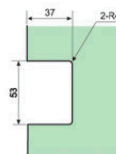
## GLASS PREPARATION DETAILS



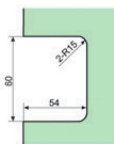
HDL-301,302,303,304,305,306,308  
HDL-301A,302A,303A,304A,305A,306A,308A  
HDL-301B,302B,303B,304B,305B,306B,308B



**HDL-321**

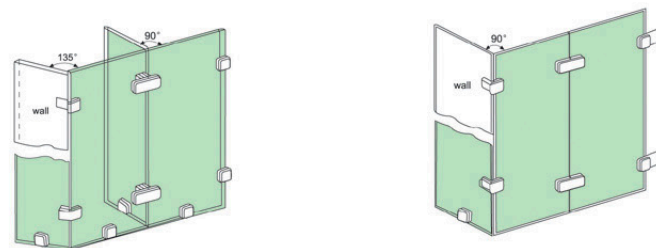
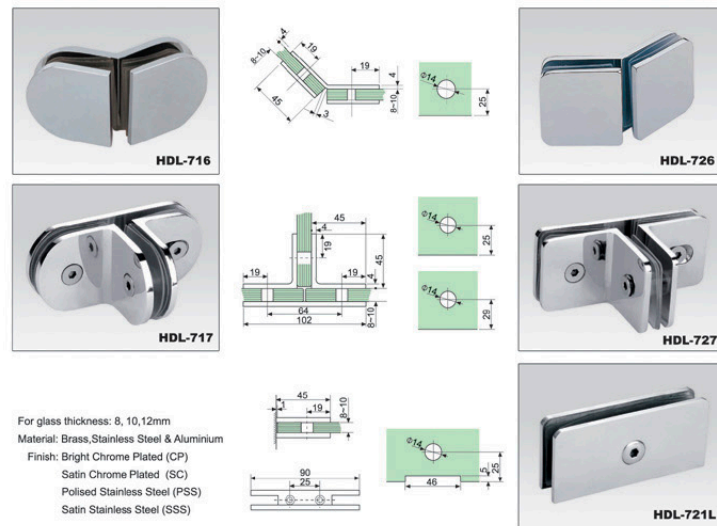
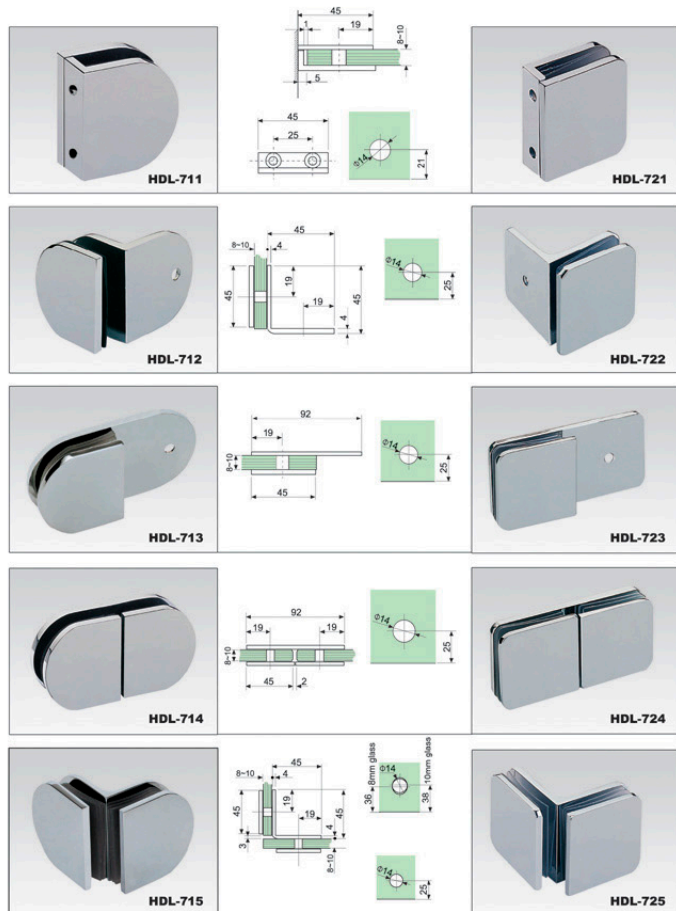


**HDL-307**



**HDL-331A**







**HDL-201**



**HDL-203**



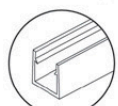
**HDL-203A**



**HDL-206**



**HDL-209**



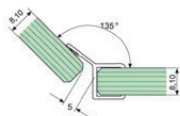
**HDL-211**



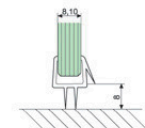
**HDL-213**



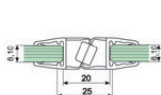
Glass Door Fixed Panel



135°



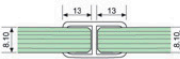
8



20 25



Glass Door



13 13



**HDL-202**



**HDL-204**



**HDL-205**



**HDL-208**



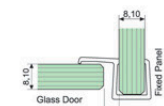
**HDL-210**



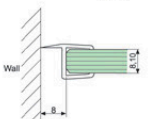
**HDL-212**



**HDL-214**



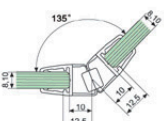
Glass Door Fixed Panel



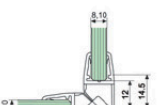
Wall 8



Fixed Panel Glass Door



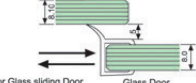
135°



10 12.5 10 13.5



14.5 12 13 20 13 20



Fixed Panel Glass Door



**HDL-914**



**HDL-901**



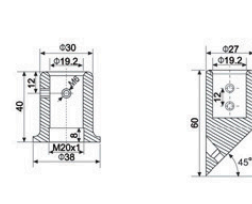
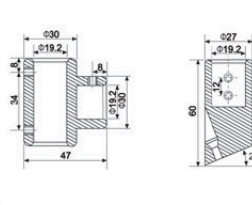
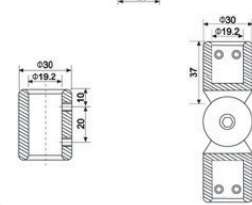
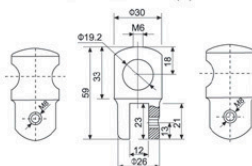
**HDL-902**



**HDL-907**

Suitable for  $\phi 19\text{mm}$  stainless steel pipe  
Fit for glass thickness 8-12mm  
Material: Brass, stainless steel  
Finish: Bright Chrome Plated  
Satin Chrome Plated  
Titanium Plated

(CP)  
(SC)  
(TL)



**HDL-914A**



**HDL-915**



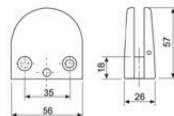
**HDL-922**



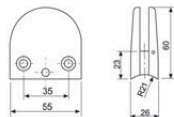
**HDL-945**



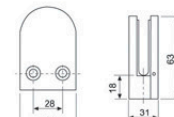
For glass thickness: 8mm  
Material: Aluminum  
Cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Powder Coating (white, silver, black and others on request)



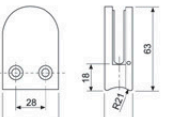
For glass thickness: 8mm  
Material: Aluminum  
Cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Powder Coating (white, silver, black and others on request)



For glass thickness: 8mm  
Material: Aluminum  
Cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Powder Coating (white, silver, black and others on request)



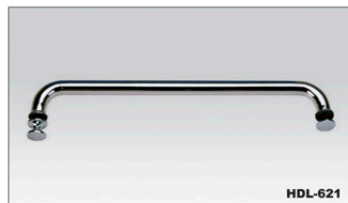
For glass thickness: 8mm  
Material: Aluminum  
Cover plate: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Powder Coating (white, silver, black and others on request)



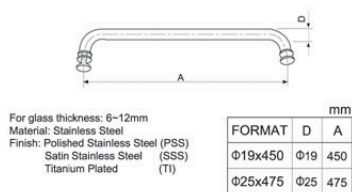
Size	mm											
D	L											
$\phi 18$	20	30	40	50	60	70	80	90	100	150	200	300
$\phi 25$	25	30	40	50	60	70	80	90	100	150	200	300
$\phi 30$	30	40	50	60	70	80	90	100	150	200	250	300
$\phi 40$	40	50	60	70	80	90	100	150	200	250	300	

Notice: 1. Other formats on request  
Finish: Satin Stainless Steel (SSS)

2. Material: Stainless Steel  
Polished Stainless Steel (PSS)



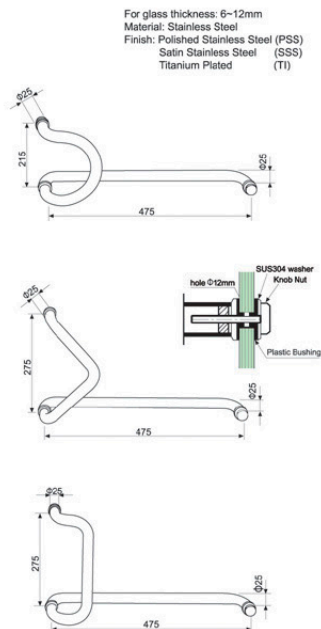
**HDL-621**



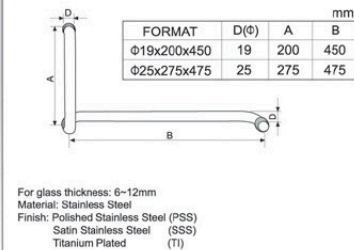
**HDL-623**

**HDL-624**

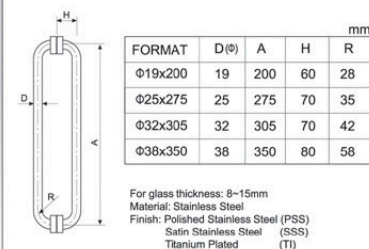
**HDL-625**



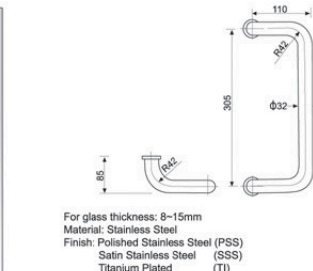
**HDL-626**



**HDL-627**



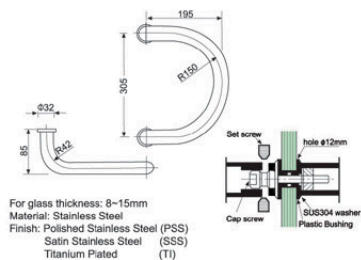
**HDL-628**



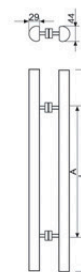




**HDL-629**



**HDL-632**

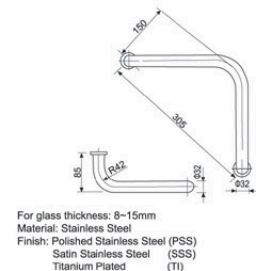


	mm				
L	800	1000	1200	1500	1800
A	625	825	900	1020	1300

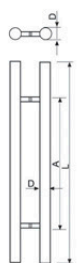
For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-630**



**HDL-633**

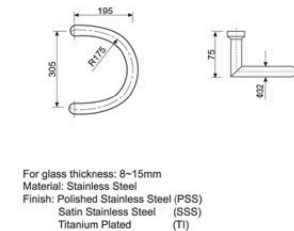


D( $\Phi$ )	32	32	38	38	38	38	38	38
L	450	600	600	800	1000	1200	1500	1800
A	275	425	425	625	825	900	1020	1300

For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS) (A,B,C)



**HDL-631**



**HDL-634**

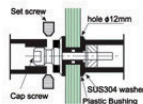
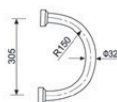


	mm				
L	600	800	1000	1200	1500
A	275	425	600	800	1020

For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



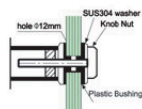
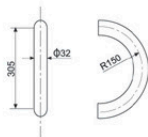
**HDL-637**



For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



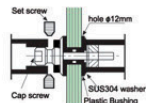
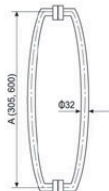
**HDL-638**



For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



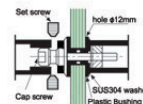
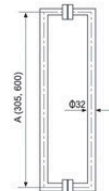
**HDL-639**



For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



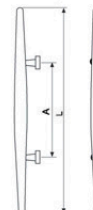
**HDL-641**



For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)



**HDL-645**

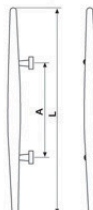


FORMAT	D	A	L	C
Φ32x500	Φ32	235	500	74
Φ38x600	Φ38	275	600	80

For glass thickness: 8~15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS)



**HDL-645A**

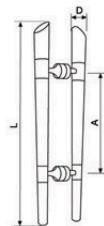


FORMAT	A	L
Φ38x600	275	600
Φ38x750	425	750

For glass thickness: 8~15mm  
Material: Stainless Steel (+) Wood  
Finish: Polished Stainless Steel (+) Red (or Black) Wood  
Satin Stainless Steel (+) Red (or Black) Wood  
Titanium Plated (+) Red (or Black) Wood



**HDL-646**

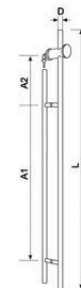


mm		
L	A	D
410	210	Ø32
525	470	Ø38

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS)



**HDL-649**



mm			
L	A1	A2	D
1380	860	275	Ø25

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Satin Stainless Steel (SSS)



**HDL-647**

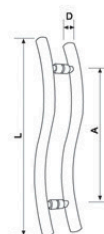


mm		
L	A	D
350	220	Ø25
600	400	Ø38
800	500	Ø38
1200	800	Ø38
1200	900	Ø45

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
PSS/SSS + WOOD (RED/BLACK)



**HDL-650**

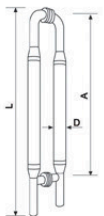


mm		
L	A	D
350	250	Ø25
560	400	Ø32
600	410	Ø38
780	520	Ø38

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS)



**HDL-648**



mm		
L	A	D
340	260	Ø25
450	350	Ø32
560	445	Ø38
800	638	Ø51

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS)



**HDL-651**

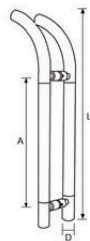


mm		
L	A	D
320	200	Ø25
500	335	Ø32
800	500	Ø38

For glass thickness: 8-15mm  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
Titanium Plated (TI)  
Polished + Satin Stainless Steel (PSS + SSS)



**HDL-652**

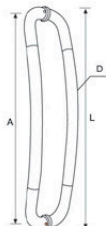


mm			
L	A	D	
600	300	Φ25	

For glass thickness: 8-15mm  
 Material: Stainless Steel  
 Finish: Polished Stainless Steel (PSS)  
 Satin Stainless Steel (SSS)  
 Titanium Plated (TI)



**HDL-653**

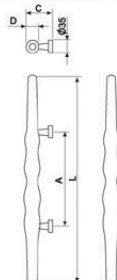


mm			
L	A	D	
300	275	Φ25	
330	305	Φ25	
632	600	Φ32	

For glass thickness: 8-15mm  
 Material: Stainless Steel  
 Finish: Polished Stainless Steel (PSS)  
 Satin Stainless Steel (SSS)  
 Titanium Plated (TI)



**HDL-655**

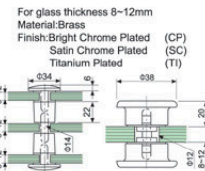


mm						
D(Φ)	32	32	38	38	38	
A	260	275	275	360	425	
L	500	600	500	600	750	
C	74	74	80	80	80	

For glass thickness: 8-15mm  
 Material: Stainless Steel  
 Finish: Polished Stainless Steel (PSS)  
 Satin Stainless Steel (SSS)  
 Titanium Plated (TI)  
 Polished + Satin Stainless Steel (PSS + SSS)  
 PSS+REDWOOD  
 PSS+BLACKWOOD



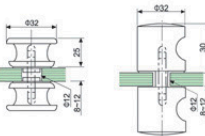
**HDL-690**



**HDL-695**



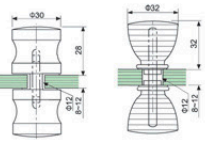
**HDL-691**



**HDL-696**



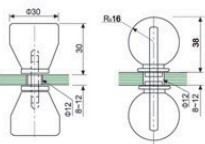
**HDL-692**



**HDL-697**



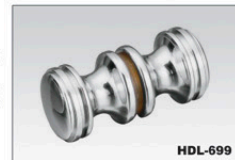
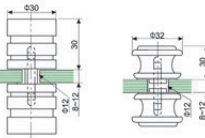
**HDL-693**



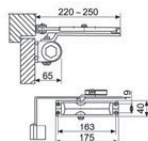
**HDL-698**



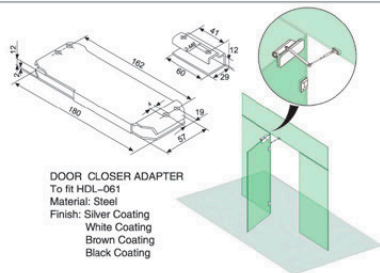
**HDL-694**



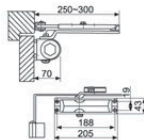
**HDL-699**



Hold open at 90° (selected on request)  
Door weight up to 40-60kg  
Fit for doors up to 1000mm wide  
Two controlled closing speed ranges



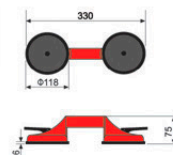
**DOOR CLOSER ADAPTER**  
To fit HDL-061  
Material: Steel  
Finish: Silver Coating  
White Coating  
Brown Coating  
Black Coating



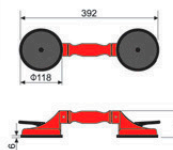
Hold open at 90° (selected on request)  
Door weight up to 50-80kg  
Fit for doors up to 1000mm wide  
Two controlled closing speed ranges



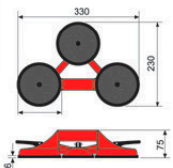
Single sucker lifter  
Lifting capacity 30 kgs  
Finish: Coating



Double sucker lifter  
Lifting capacity 80 kgs  
Finish:Coating



Double sucker lifter  
(for arc shape)  
Lifting capacity 80 kgs  
Finish:Coating



Triple sucker lifter  
Lifting capacity 130 kgs  
Finish: Coating

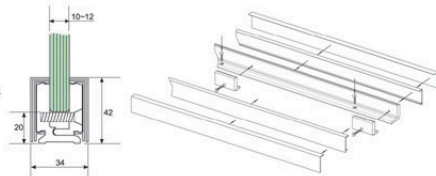




**HDL-530**

### ALUMINIUM CLAMPING PROFILE

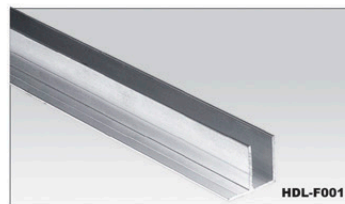
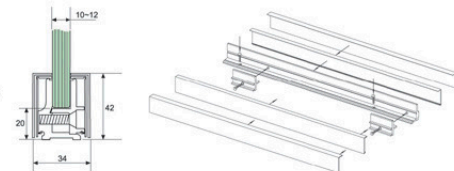
Profile: Aluminium  
Cover: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
FOR 10MM-12MM GLASS THICKNESS



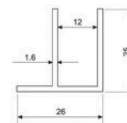
**HDL-530B**

### ALUMINIUM CLAMPING PROFILE

Profile: Aluminium  
Cover: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)  
FOR 10MM-12MM GLASS THICKNESS



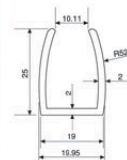
**HDL-F001**



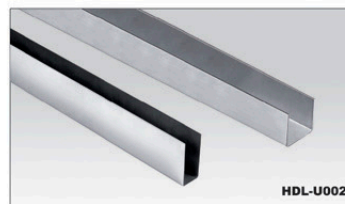
F-section aluminum profile  
Material: Aluminium  
Finish: bright polished



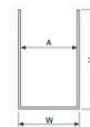
**HDL-U001**



U-section aluminum profile  
Material: Aluminium  
Finish: bright polished



**HDL-U002**

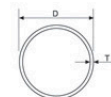


U-section stainless steel profile  
Specifications available upon request  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)

FORMAT	W	H	A
U(18X38)	18	38	16
U(20X20)	20	20	18



**HDL-798**



Stainless Steel Pipe  
Material: Stainless Steel  
Finish: Polished Stainless Steel (PSS)  
Satin Stainless Steel (SSS)

D (Dia)	T (Thickness)					Length
	0.8	1.0	1.2	1.5	2.0	
Φ19						6000
Φ25						6000
Φ50						6000



HDL-1010-S2 HDL-1011-R4 HDL-1012 HDL-1015 HDL-1017-2 HDL-1019 HDL-1020 HDL-1024



HDL-1026 HDL-1028 HDL-1030-2 HDL-1031-2 HDL-1032-2 HDL-1033-R4 HDL-1010B-2

Two alternatives for THE TOP of handrails: HDL-1831F (for Flat wood rails) and HDL-1831R (for Round pipe in  $\varnothing 38\text{mm}$  or  $\varnothing 50.8\text{mm}$ )



HDL-1801 HDL-1802 HDL-1803 HDL-1804 HDL-1805



HDL-1806 HDL-1807 HDL-1808 HDL-1809 HDL-1810



HDL-1811 HDL-1812 HDL-1813 HDL-1814 HDL-1815

