### Good Feature & Tight Hardware System

# Huzentum

### **H&T Hardware System**

Horizontality & Tight





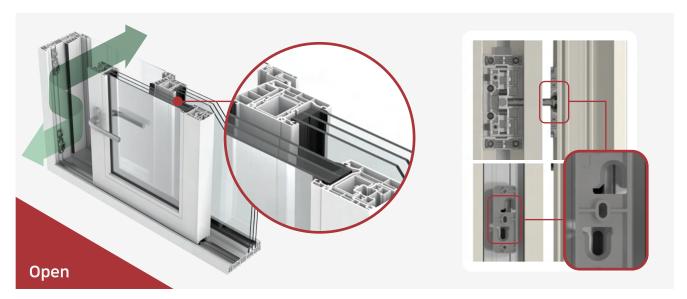


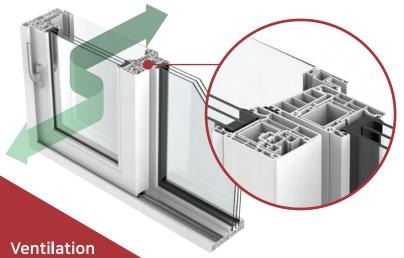
New Sliding Single Window, Hardware System with perfect Insulation and air tightness

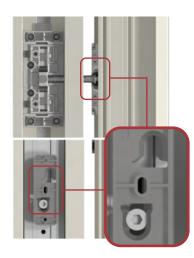


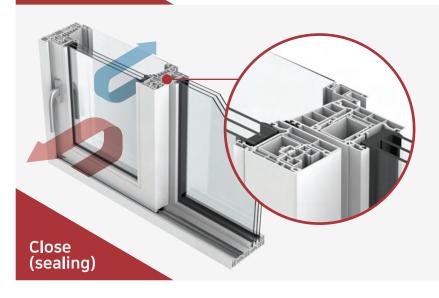
### Advantage of Hardware System

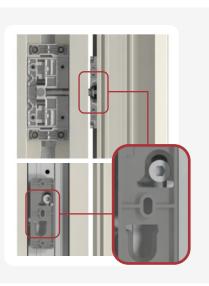
- **| 1 |** According to handle rotation, 3 step modes
- 2 When handle horizontal, becomes OPEN mode so tightness released and front striker lock released
- 3 When handle up, becomes VENTILATION mode so tightness released but front striker locked
- 4 When handle down, becomes CLOSE mode so tightness and front striker locked



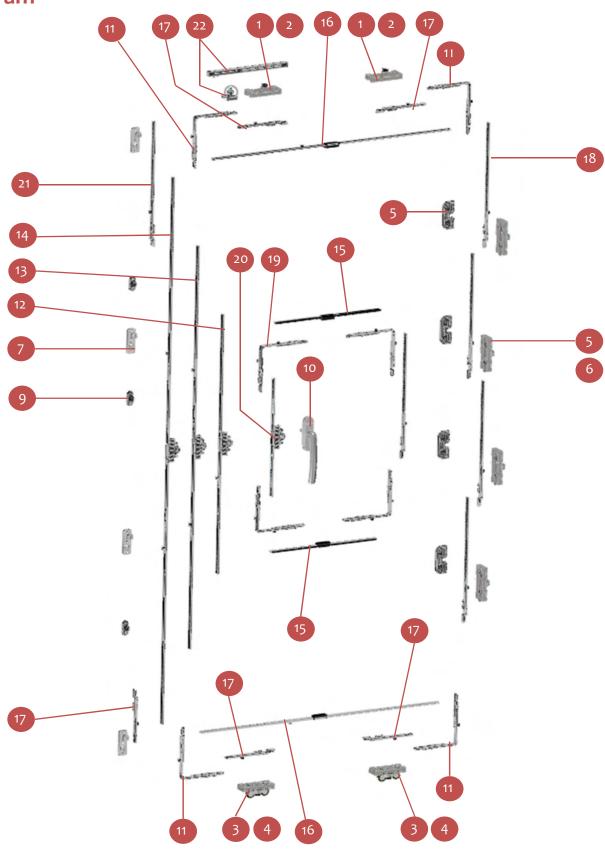








### Hardware Diagram



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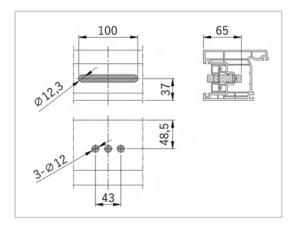
No	Code	Product name	Coverage	Quantity
1	V0001	UPPER BOGIE (L)		8
2	V0002	UPPER BOGIE (R)		8
3	V0003	BOTTOM BOGIE (L)		8
4	V0004	BOTTOM BOGIE (R)		8
5	V0005	MC LOCKER (L) + With MC Striker		8
6	V0006	MC LOCKER (R) + With MC Striker		8
7	V0007	Horizontal & Adhesion STRIKER (L)		42
8	V0008	Horizontal & Adhesion STRIKER (R)		42
9	V0009	RUBBER BUFFER		90
10	H0163	Patio Handle(Middle) 7mm*40mm(90°)T/S		25
	H0171	Patio Handle(Large)7mm*40mm(90°)T/S		25
11	S0300	CORNER TRANSMISSION (MBK 703)		50
12	S0301	Tilt & Turn Gear-Secury 35Axis 700~1200 (ISP 202-G2/35)	(SFH) 747~1282	10
13	S0302	Tilt & Turn Gear-Secury 35Axis 1200~1700 (ISP 202-G4/35)	(SFH) 1283~1782	10
14	S0303	Tilt & Turn Gear-Secury 35Axis 1700~2200 (ISP 202-G5/35)	(SFH) 1783~2500	10
15	S0304	Tilt & Turn Espagnolette (ISP 202-1)	(SFW) 700~1030	10
16	S0305	Tilt & Turn Espagnolette (ISP 202-2)	(SFW) 1031~1500	10
17	S0306	150mm EXTENSION PART-WITH PIVOT (UP150-1)		50
18	S0307	400mm EXTENSION PART-WITH PIVOT (UP150-2)		10
19	S0308	CORNER TRANSMISSION (MBK 803)		50
20	S0309	Tilt & Turn Gear-Secury 35Axis 400~700 (ISP 202-1/35)	(SFH) 560~746	10
21	S0310	400mm EXTENSION PART-WITH SECURY (UP150-G2)		10
22	V0010	Damper & Damper bracket -35N		10
	V0014	Damper & Damper bracket -20N		10

#### [1] Application Range

- Width (SFW): 420 ~1500 - Height (SFH): 560 ~ 2500 - Sash weight: max 200kg

- [2] Bottom Bogie ③, ④ and Upper Bogie ①, ② indicate the Open direction (Left/Right) of "Doorm Window" and install 2 respectively.
- [3] MC Locker + MC striker 5, 6 / Extension (18) is set for Locker center distance not to exceed 410mm (Quantity/Postion), and install symmetrically about the "Door, Window" center. "Door, Window" open direction indication (L/R)
- [4] Horizontal tight striker ⑦, ⑧ is install at 3 places when "Door, Window" height(SFH) is 800mm~1782mm and 4 places when it is 1783mm~2500mm
- [5] RUBBER BUFFER (9) is for damping between door frame and "Door, Window" and install at least 2 at both ends.
- [6] When "Door, Window" (SFH) is 2282~2500, Extension (17, 21) is installed additionally (refer to picture)
- [7] Damper optionally uses two specifications depending on the weight of the "Door, Window" ( 20N , 35N)





#### **GEAR POCKET & HANDLE HOLE**

- **11** "Door, Window" (SASH) is referenced to Handle installation position.
- **2** After aluminum profile is fixed, Handle, it is cut at the position of Tilt & Turn Gear installation as referring to left picture



#### HANDLE INSTALLATION

- **| 1 |** HARDWARE (TILL & TURN ESPAGNOLETTE, CORNER TRANSMISSION, EXTENSION PART ....) is fixed to PVC profile.
- [2] Install handle horizontally to the location of hole as shown in picture.
- **3** Fixing it completely with M5x50 (dish head, 2 places) bolts and 8x30 nuts (for steel)
- **| 4 |** Repeatedly rotate handle 2~3 times to 90 ° up and down (assembled hardware operation check)



#### MC BUFFER ASSEMBLY

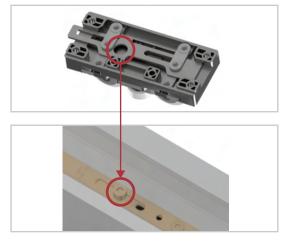
1 1 It is recommended to install at each upper/lower end and need additional construction depending on the size of Door, Window

CS TECH — 05





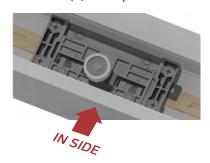




### BOGIE INSTALLATION (UPPER BOGIE, BOTTOM BOGIE, MC LOCKER)

- | 1 | Rotate handle to down direction (tightening)
- **2** Arrange it as considering each BOGIE installation position and profile inside direction (refer to picture)
- [ 3 ] Assemble CAM (Φ11.0 circular extrusion) of 150mm Extension Part(17) into the hole at lower of BOGIE.
- **| 4 |** Fasten it at minimum 4 and maximum 6 places with 8x30 steel direct connection screw.
- ※ Fasten the screw as keeping the complete tightness of BOGIE toward locking direction (Mandatory compliance for uniform movement)

#### **UPPER BOGIE (L) Example of installation**



#### **BOTTOM BOGIE (L) Example of installation**



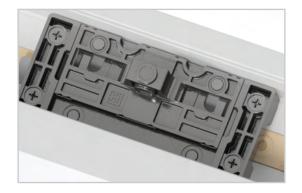






#### MC LOCKER PIN HOLE PROCESS

- 1 HARDWARE is installed at PVE profile.
- | 2 | Rotate handle to down direction ((tightening)
- | 3 | Assemble CAM (Φ11.0 circular extrusion) of 400mm Extension Part(17) into the hole at lower of MC Locker and then pushing to PVC profile completely. (Processing of indication (Left & Right direction)
- | 4 | As shown in left picture, first drill the center with Φ8 and additionally drill complete hole with Φ12 (foundation drill first and then Φ12 drill)



#### MC LOCKER INSTALLATION

- | 1 | Rotate the handle to down direction (tightening)
- **2** Arrange it as considering profile inside direction (refer to picture)
- | 3 | Assemble cam ( $\Phi$ 11.0 circular extrusion) of 400mm Extension Part(17) into the hole at lower of MC Locker.
- **| 4 |** Fasten it at minimum 4 and maximum 6 places with 8x30 steel direct connection screw
- ※ Fasten the screw as keeping the complete tightness of BOGIE toward locking direction (Mandatory compliance for uniform movement)

CS TECH — 07

### STRIKER(L,R) INSTALLATION



11 Assembled HARDWARE to PVC profile.



- | 2 | Rotate handle to horizontal (opening) direction
- 3 Insert Jig for striker assembly to the CAM of Tilt & Turn Gear(12, 13, 14)
- | 4 | Push SF to BF direction (with small impact)
  (Center screw location of striker is marked at BF frame)



- | 5 | After fastening 8x30 direction screw to hole at the center of STRIKER, as rotating HANDLE with closing door, check operation state of HARDWARE and tightening & locking operation of Door. (Longitudinal geometry of center hole of striker for operation sensitivity control)
- | 6 | When operation is smooth, fasten the 8x30 direction screw to Upper/ Bottom hole and completely fixing STRIKER

#### MC STRIKER INSTALLATION

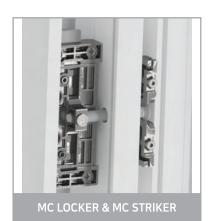


- | 1 | After inserting "Door, Window (SASH)" to BF profile, which is completely assembled with UPPER BOGIE, BOTTOM, BOGIE and MC Locker etc, check the operation condition of Door, Window.
- | 2 | After inserting JIG to LOCKER PIN HOLE ( $\Phi$ 12) of "Door, Window (SASH) and closing Door, Window, then push Door, Window as rotating handle.
- **3** After open the Door, Window as turning handle, check the marked location on middle bar (Mullion).



| 4 | After locating MC striker and fasten 8x50 direct connection screw at each hole of marked place (need to fasten with steel stiffener)





**| 5 |** After inserting Locker PIN and closing Door, Window, check whether Locker is working properly as rotating handle to 180 °.

CS TECH — 09

### **Drawing**

