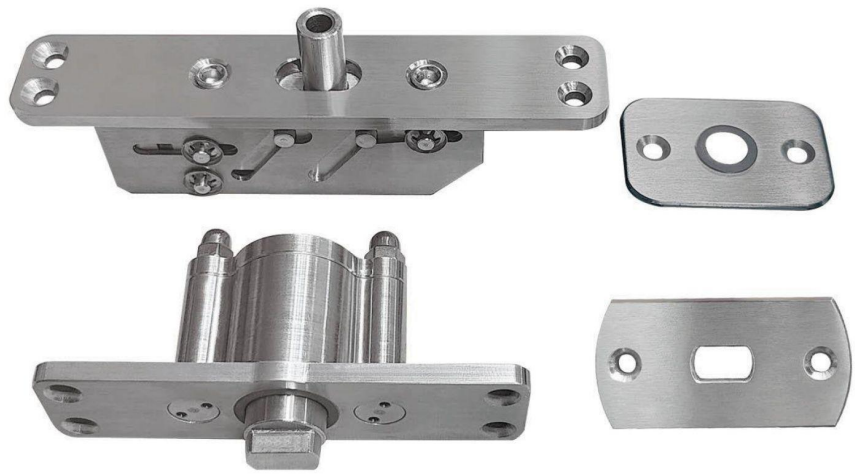
Central Axis Door System One

Mechanical Axis

Suitable for non positioning, ultra-high, and overweight central axis wooden doors, profile doors;

Easy adjustment of door seams;

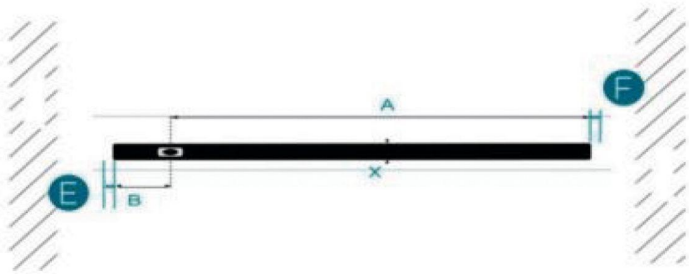
Can be equipped with a door opener;



Gap calculation

The system is almost designed to be invisible. In addition, there is almost no gap between the door and the wall or door frame. The minimum gap between the door and the ceiling is 7mm, and the minimum gap with the floor is 13mm. The minimum distance between the door and the wall or door frame is determined by the door thickness (X) and the pivot position (A and B) related to the door width.

Note that the distance (B) from the pivot point to the door edge must be at least 91mm.



For Example		
X	Door thickness	10
A	Distance from the pivot rotation point to the side of the lock door	1500
B	Distance from pivot rotation point to door edge	91
E	Minimum gap between door and wall	4.2
F	Minimum gap between door and wall	2.1

E	B	X						
		40	50	60	70	80	90	100
	91	4.2	5.4	6.8	8.5	10.4	12.5	14.8
	250	2.8	3.3	3.8	4.4	5.2	6	7
	500	2.4	2.6	2.9	3.2	3.6	4	4.5
	1000	2.2	2.3	2.5	2.6	2.8	3	3.3
	1500	2.1	2.2	2.3	2.4	2.5	2.7	2.8
	2000	2.1	2.2	2.2	2.3	2.4	2.5	2.6

F	A	X						
		40	50	60	70	80	90	100
	500	2.4	2.6	2.9	3.2	3.6	4	4.5
	1000	2.2	2.3	2.5	2.6	2.8	3	3.3
	1500	2.1	2.2	2.3	2.4	2.5	2.7	2.8
	2000	2.1	2.2	2.3	2.4	2.4	2.5	2.6

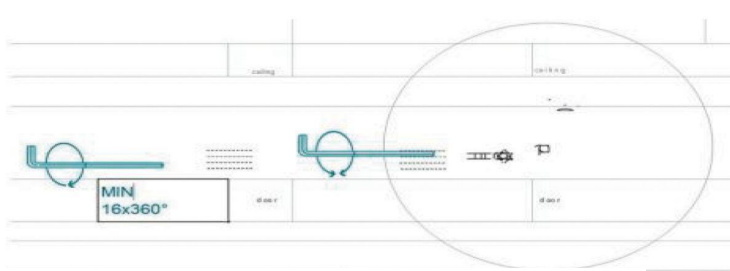
*There is no need to increase additional installation space, The results of E and F include a 2mm tolerance.

Pressure Load		The floor panel size of the axle door hardware system is 40 × 80mm. When the door weight is 500 kilograms, the unit pressure negative pressure (FW) is only 2.33N/mm ²	
		As a reference: A woman weighing 70 kilograms wearing high heels will generate a pressure load (Fw) of approximately 6.87 N/mm. We recommend that you refer to the supplier's floor parameters to determine the application.	
Area 100mm ², weight 70 kgs, 687N pressure load, 6.87 N/mm ²	70kgs	Area 2101mm ², working up to 500 kgs=4905 N, pressure load is 2.33N/mm ²	500kgs
	6.87N/mm²		2.33N/mm²

Heaven axis adjustment

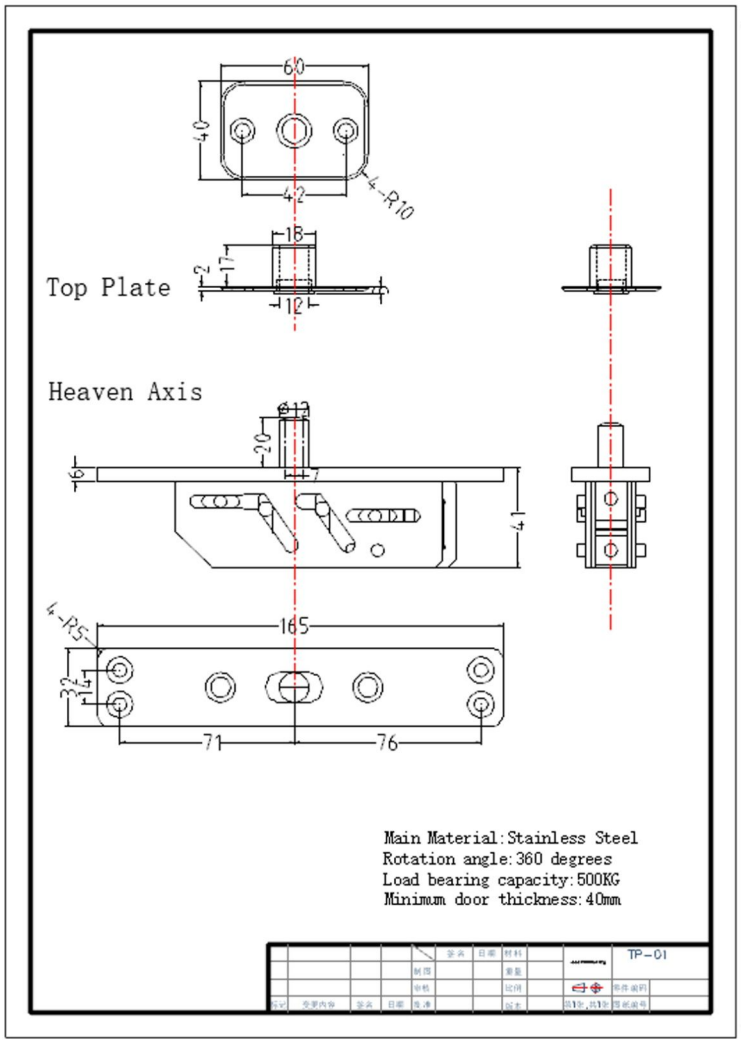
Install the Heaven Axis

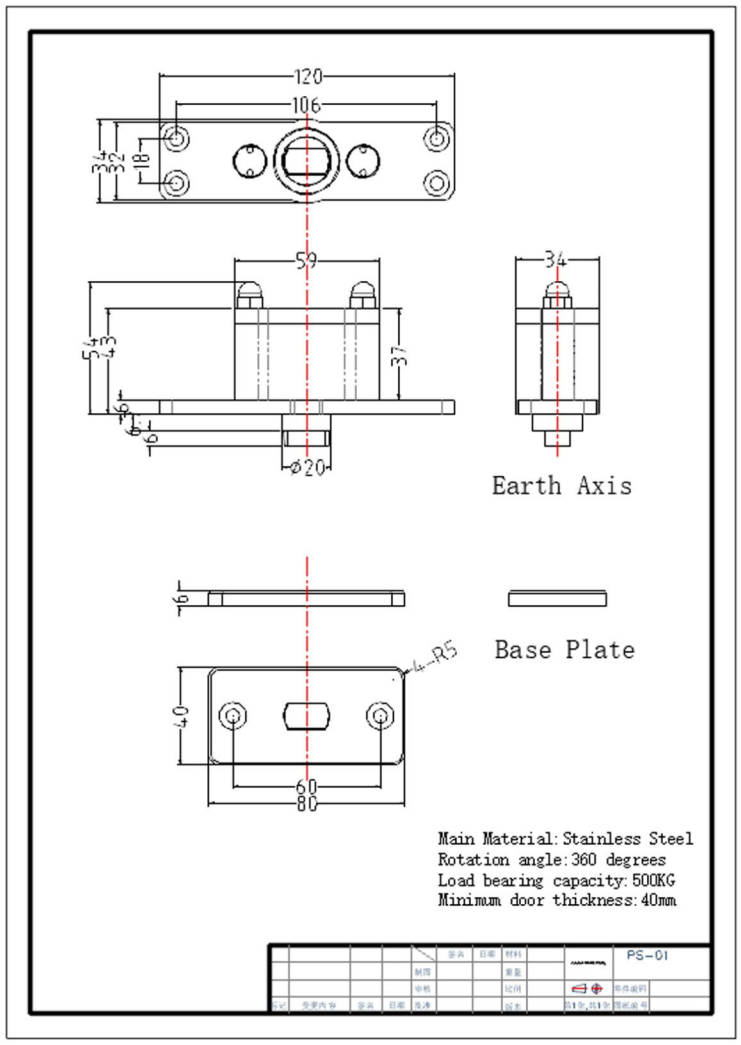
The heaven axis can be set using a 5mm hex wrench in the lower hex screw hole. Clockwise: installation, counterclockwise: disassembly. Important reminder: To ensure that the door can be installed in place, it needs to be rotated clockwise at least 16 full turns.



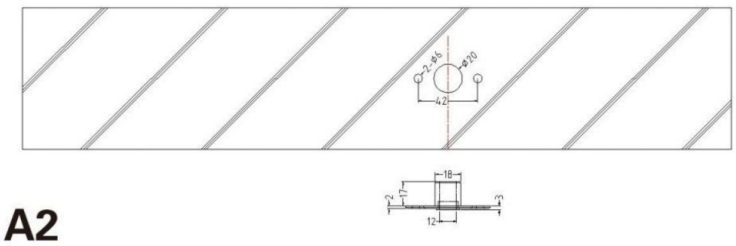
INSTALLATION MANUAL FOR HEAVEN EARTH AXIS

TECHNICAL DRAWINGS:

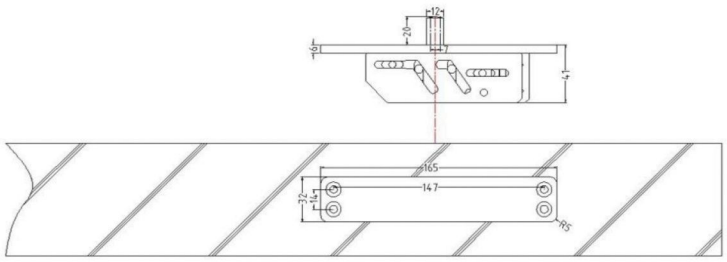




PERFORATION AT DOOR FRAME HEADER (TOP PLATE)



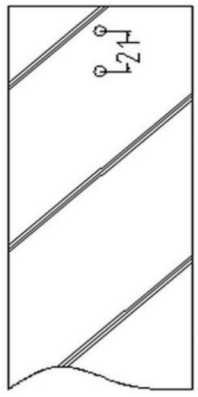
A2



A3

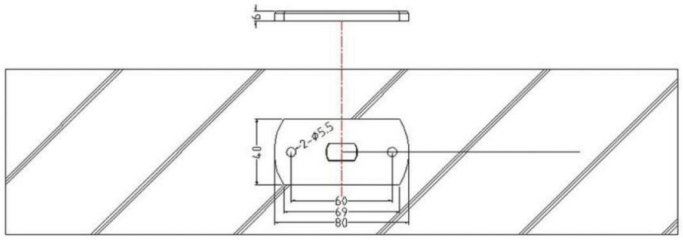
PERFORATION AT THE TOP OF THE DOOR LEAF （HEAVEN AXIS）





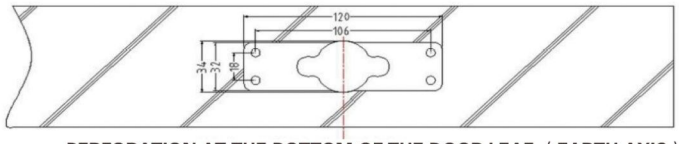
PERFORATION AT THE TOP SIDE OF THE DOOR LEAF

A4

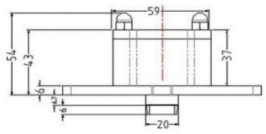


B3

PERFORATION AT DOOR FRAME BOTTOM (BASE PLATE)



PERFORATION AT THE BOTTOM OF THE DOOR LEAF （EARTH AXIS）



EARTH AXIS

B2