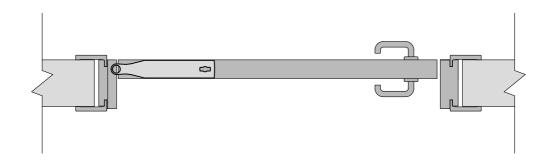




technical construction and installation manual

swinging sliding door with connecting rod in the door leaf 技术说明及安装手册 双向魔术门(连接杆位于门扇内)



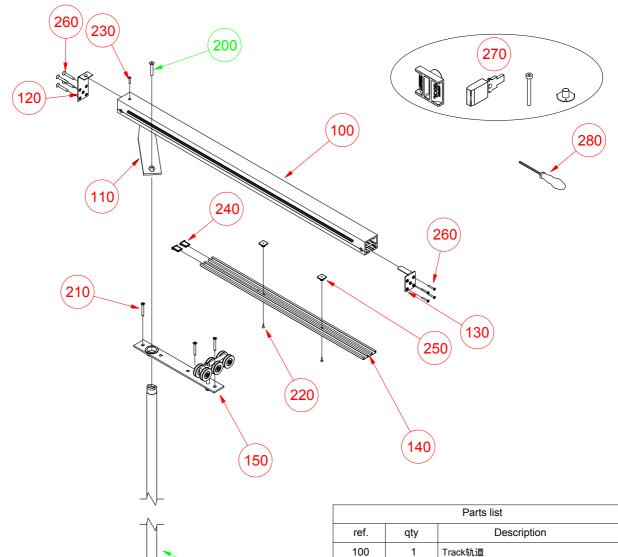


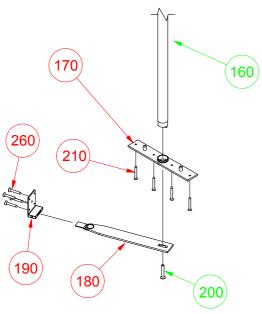
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EXPLODED VIEW OF THE HARDWARE爆炸图





Parts list						
ref.	qty	Description				
100	1	Track轨道				
110	1	Upper arm上方支臂				
120	1	Arm-side bracket支臂侧支架				
130	1	Lock-side bracket锁侧支架				
140	1	Track cover导轨装饰盖				
150	1	Upper plate with carriage上方面板带吊轮				
160	1	Connecting rod连接杆				
170	1	Lower plate下方面板				
180	1	Lower arm下方支臂				
190	1	Lower bracket下方支架				
200	2	Screws TSPei M8X18螺丝				
210	7	Screws TSPcr Ø4X40螺丝				
220	2	Screws TSPcr Ø3X10螺丝				
230	1	Screws TSPei M5x 12螺丝				
240	2	Track cover cap轨道装饰盖堵头				
250	2	Track cover installation insert轨道装饰盖安装孔	盖			
260	12	Screws TSPcr Ø3,5x30螺丝				
270	1	Mediana evolution lock set双向锁舌				
280	1	Hexagonal screwdriver mm 2,5内六角扳手				

Component present in the track kit 红色在轨道套装内

Component present in the rod kit 绿色在连接杆套装内 ERGON LIVING S40 - REV. 11-06/2018



INTRODUCTION

ERGON LIVING S40 五金只能应用于住宅房间内部的空心房门,厚度不低于40mm,重量不超过70kg。

为了确保可靠性和使用便捷,所采用的部件均来自于已经过成千上万次测试的ERGON系列。ERGON系统已经在CATAS研发实验室,根据欧洲标准EN1191/00的要求,通过了10万次的开关使用寿命测试。由于连接杆位于门扇内而非门套内,因此ERGON LIVING S40可以采用标准门套,只需要根据手册内的说明,简单改动即可。

ERGON LIVING S40的标准表面处理为银色和黑色,并且为了将门扇在运动过程中的阻碍降低到最小, 共有三种支臂可供选择:

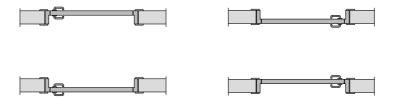
- "Base" "标准版"适用于 LFM (门洞宽度)从800至1100 mm;
- "Small" "小号"适用于 LFM (门洞宽度)从610至800 mm;
- "Large" "大号"适用于 LFM (门洞宽度)从1100至1450mm.

根据特定要求,采用ERGON LIVING S40五金, 房门可以根据不同的墙体厚度,安装在任意位置。但是为了简化说明,手册里用特定术语描述了两种极限位置。

1) "centered door" "中间门扇"门扇位于墙体中间;这种方案的优点是房门的制作与安装无关。因为门扇位于墙体中间且双向开启,因此开启方向可以在安装时再确定,门扇的制作不会因为开启方向做任何修改。t



2) **"oriented door"** "偏心门"是门扇位于墙体的其中一侧;这种情况下,房门的制作必须考虑到其安装开启方向。



根据passage widths通过宽度的不同,ERGON LIVING S40在不同的支臂类型中(Base, Small, Large标准版,小号,大号)又细分了不同的特定尺寸. 然后,使用了某一特定尺寸的五金之后,也可以通过裁切轨道以及轨道盖板的方式(见18页),来获取两个特定尺寸之间的任意尺寸.

至于<u>actual passage height</u>实际通过高度,可以采用固定高度的连接杆,如果不是常规高度,可以订货一个特殊可裁切连接杆,通过裁切连接杆(见19页)来获取非常规高度。



FRAME SPECIFICATION门框说明

ERGON LIVING S40 可以使用两种门框结构: jamb with doorpost and straight jamb.

JAMB WITH DOORPOST带门柱的门框

1) Furthermore it allows a production standard, as it makes it possible to manage both small and large wall thickness (up to 74 cm with door positioned in the centre of the wall thickness).

Moreover, the jamb can be placed indistinctly on the right or left side of the doorpost; in this way, it can be used for internal, external or central flush doors.

The adiacent doorpost, even if simple, is an extra element that must be constructed.

2) A suitably modified Mediana Evolution lock, using simple pressure to substitute the standard spring lock with the **ERGON** lock (presente su ogni confezione di ferramenta), allows the door to close similarly to a door with a rabbet. A magnetic lock can be used too.

STRAIGHT JAMB平框

- **1)** 可以使用平框,只是为了护墙形成一个门洞,前期没有规划装门扇。
- **2)** Makes it necessary to use a magnetic lock which is functional only if the door is not more than 3 mm from the frame.

The doo jamb near the lock is visually applealing in that no element of the lock or its release is visible.

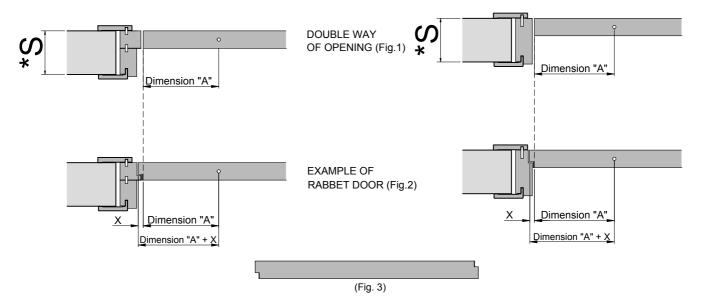
RABBET DOOR WITH ONE-WAY OPENING

In some rooms of the house, it may be appropriate to use doors with stops, with the **ERGON** system; this is possible by simply creating stops in the vertical sides of the door using the same kit.

In this way there's not more the double-way opening, but there is a better acustic isolation inside the room by using a seal for the tightness.

With the **ERGON** system with one-way opening, any type of lock can be used.

Fig. 2 below shows a constructive example of an **ERGON** door with stop; to create the stops both on the door and on the frame, they must be specular (fig. 3) and it is necessary to pay attention to value "X" which must be added to value "A", indicated on page 11 of this manual, to keep the panel connection rod insertion point in the exact position.

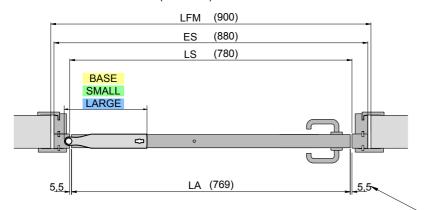


The movement of the door leads to having limits in the thickness of the walls which may vary depending on the type of frame used or on the type of bracket used (BASE, SMALL, LARGE); on page 10 there are some solutions to manage these limits in the best way possible.

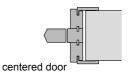


SINGLE DOOR HORIZONTAL DIMENSION DIAGRAM单开门俯视图

(示范尺寸)



门扇可以安装于墙体的中间



更多墙体厚度的信息见第10页

min. 40 LP (740) (dimension variable with 尺寸根据门扇宽度变化

ð

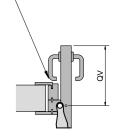
QF (392) (fixed dimension) BASE arm 标准支臂的固定尺寸

0

If a magnetic lock is used, it is recommented to reduce the gap to 3 mm on this side only. 如果使用磁力锁体,建议此侧的缝隙缩减为3mm

ATTENTION注意:

如果门扇很窄,要小心把手会和门框冲突 注意把手的尺寸,门扇和墙体的厚度。



下表数值基于门框厚度50mm以及门扇厚度45mm; 如果使用40mm厚度的平框,则 LP, LA, LS 和QV的数值要各增加20 mm。

	щ	Е	∃			WIDTH DIMENSION	宽度尺寸			
	LARGE	BASE	MA	LFM	LP	LA	Q	F	Q	V
		ш	S	墙体洞口尺寸	净通过尺寸	门扇宽度	固定	尺寸	可变	尺寸
			•	610	450	479	29	95	17	74
			•	650	490	519	29	95	22	24
带"缓冲开启"功能,小号支臂的最小尺寸		•	•	700	540	569	392	295	177	274
		•	•	750	590	619	392	295	227	324
带"缓冲开启"功能,标准支臂的最小尺寸		•	•	800	640	669	392	295	277	374
		•		850	690	719	39	92	32	27
		•		900	740	769	39	92	37	77
		•		950	790	819	39	92	42	27
		•		1000	840	869	39	92	47	77
		•		1050	890	919	39	92	52	27
带"缓冲开启"功能,大号支臂的最小尺寸	•	•		1100	940	969	620	392	349	577
	•			1150	990	1019	62	20	39	99
	•			1200	1040	1069	62	20	44	49
GEND	•			1250	1090	1119	62	20	49	99
				1300	1140	1169	62	20	54	49
M = WALLL HOLE WIDTH墙体洞口尺寸	•			1350	1190	1219	62	20	59	99
= PASSAGE DIMENSION净通过尺寸 (LFM - 160)	•			1400	1240	1269	62	20	64	49
= DOOR LEAF WIDTH 门扇宽度(LFM - 131)	•			1450	1290	1319	62	20	69	99

50

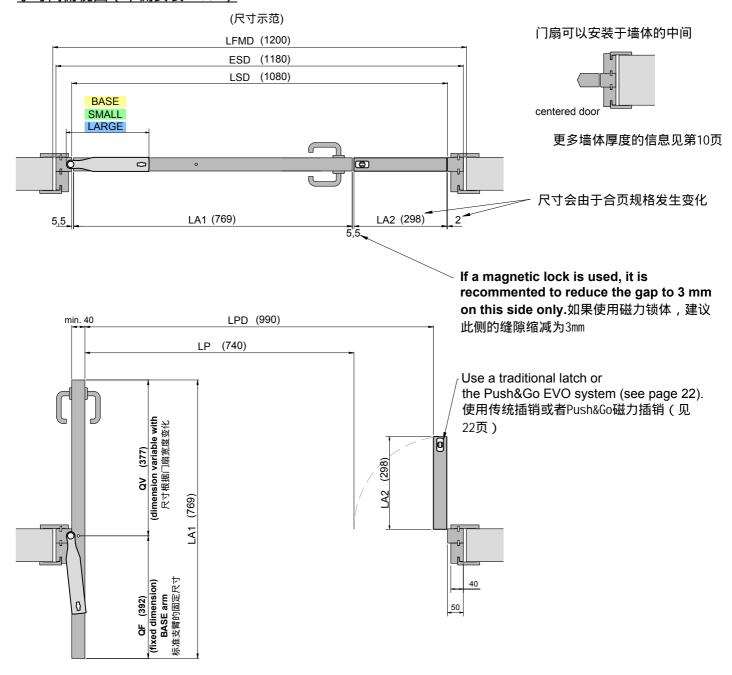
- LEG
- LFM
- LP
- LA
- LS = DOOR JAMB OPENING门框内净空 (LFM - 120)
- ES = OUTER JAMB门框外宽度 (LFM - 20)
- QF = 支臂侧的固定尺寸
- = 把手侧的可变尺寸 QV

- = Available standard dimensions标准尺寸
- = Several examples of dimensions that can be obtained by shortening the track. Intermediate dimesions are also possible.需要裁切轨道可实现的尺寸。

For other custom dimensions, contact Celegon in regards to feasibility.



DOUBLE DOOR HORIZONTAL DIMENSIONAL DIAGRAM (ERGON DOOR LEAF AND RABBET DOOR) 子母门俯视图(单侧安装ERGON)



表格数值基于门框厚度50mm以及门扇厚度45mm如果使用40mm厚度的平框,则LP和LS的数值增加20 mm, LA和QV的数值增加10 mm.

订购五金时候,墙体洞口尺寸(LFMD)以及支臂类型必须提供。

A custom track kit will be supplied based on the dimensions provided.

LEGEND

LFMD = WALL HOLE WIDTH墙体洞口尺寸

LPD = PASSAGE DIMENSION 净通过尺寸(LFMD - 210)

LA1 = DOOR LEAF WIDTH 门扇宽度(见第5页的表格)

LA2 = DOOR LEAF WIDTH门扇宽度 (LFMD - LA1 - 133 因LA1和铰链的规格变化而异)

LSD = DOOR JAMB OPENING门框净空 (LFMD - 120)

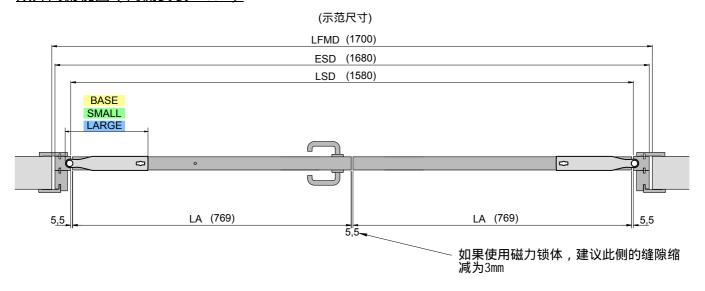
ESD = OUTER JAMB门框外口宽度 (LFMD - 20)

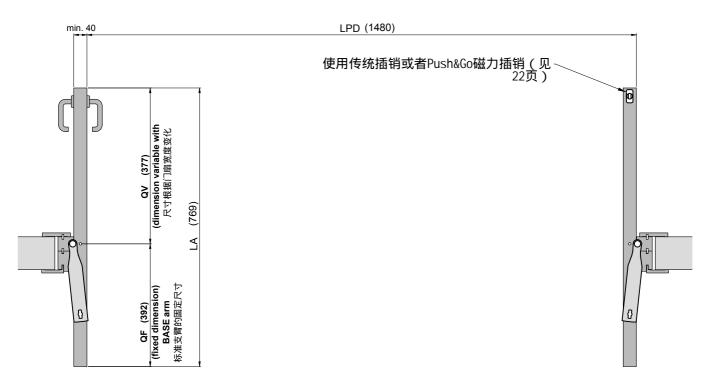
QF = FIXED DIMENSION ENCUMBRANCE ARM-SIDE支臂侧的固定尺寸(见第6页表格,根据支臂类型不同而变化)

QV = 把手侧的可变尺寸(见第6页表格,根据支臂类型和 LA1不同而变化)



DOUBLE DOOR HORIZONTAL DIMENSIONAL DIAGRAM (TWO ERGON DOOR LEAVES) 双开门俯视图(两侧安装ERGON)





表格数值基于门框厚度50mm以及门扇厚度45mm如果使用40mm厚度的平框,则LP和LS的数值增加20mm,LA和QV的数值增加10 mm.

这种情况下,可以使用轨道连接器将两个单门轨道连接在一起。详见20-21-22页。

LEGEND

LFMD = WALL HOLE DIMENSION墙体门洞尺寸

LPD = PASSAGE DIMENSION净通过尺寸(LFMD - 210)

LA = DOOR LEAF WIDTH 门扇尺寸(LFMD - 162)

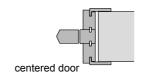
LSD = DOOR JAMB OPENING门框净空 (LFMD - 120)

ESD = OUTER JAMB门框外宽度 (LFMD - 20)

QF = FIXED DIMENSION ENCUMBRANCE ARM-SIDE支臂侧的固定尺寸

QV = VARIABLE DIMENSION ENCUMBRANCE HANDLE-SIDE把手侧的可变尺寸

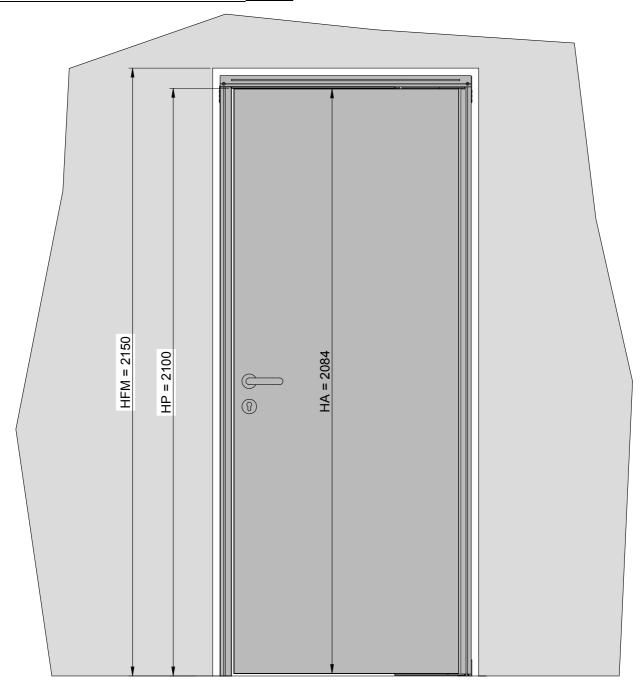
门扇可以安装于墙体的中间



更多墙体厚度的信息见第10页



VERTICAL DIMENSIONAL DIAGRAM正视图



V	ERTICAL DIMEN	NSIONAL	
HFM 门洞高度	HP 净通过高度	HA 门扇高度	
* 1950	1900	1884	
* 2000	1950	1934	
* 2050	2000	1984	HP = (HFM - 50)
* 2100	2050	2034	HA = (HFM - 66)
* 2150	2100	2084	
* 2200	2150	2134	
* 2250	2200	2184	

^{*}标准尺寸. 可采购可裁切的连接杆适用于其他高度。



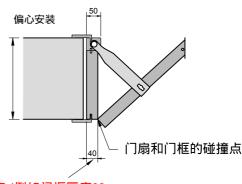
MANAGING WALL THICKNESS

特殊的运动轨迹使得门扇在开启时产生后退,意味着需要特别注意墙体厚度,防止门扇碰撞到门框表面(见下图)

下图尺寸基于门扇厚度为 45 mm.

带门柱的门框

厚度最大 max. 180 mm 小号 SMALL 支臂 厚度最大 max. 260 mm 常规 BASE 支臂 厚度最大 max. 390 mm 大号 LARGE 支臂

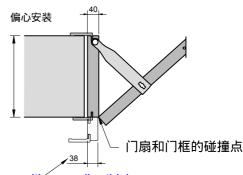


为了增加墙体厚度, 可以使门框厚度小于 <40 mm.

通过压缩门框厚度小于40 mm,墙体厚度可以增加30mm,每压缩2mm门框厚度(例如门框厚度38mm=BASE arm 墙体厚度 290 mm).

平框

厚度最大 max. 60 mm for SMALL arm 厚度最大 max. 110 mm for BASE arm 厚度最大 max. 135 mm for LARGE arm



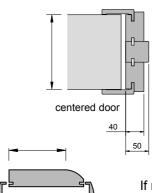
To increase the thickness of the wall, an element can be added to the frame with a smaller thickness than the frame itself (e.g. frame thickness 40 mm add 38 mm element).

In this way it is possible to increase the thickness of the wall by about 30 mm every 2 mm (e.g. adding a 38 mm element = wall thickness BASE bracket 140 mm).

By positioning the door at the centre of the jamb, the maximum wall thickness can be increased.

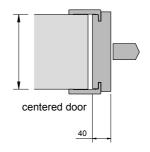
JAMB WITH DOORPOST

thickness max. 320 mm for SMALL arm thickness max. 480 mm for BASE arm thickness max. 740 mm for LARGE arm



STRAIGHT FRAME

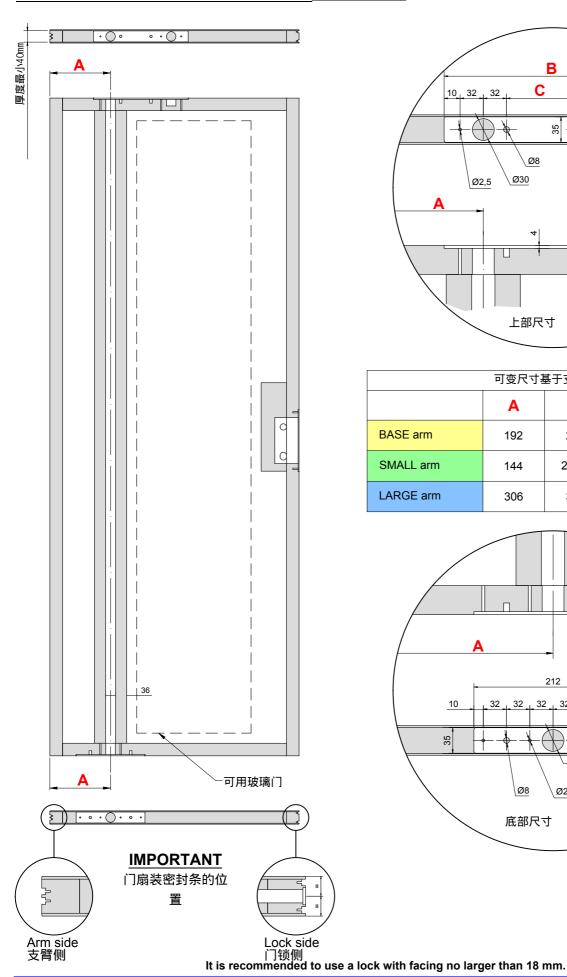
thickness max. 80 mm for SMALL arm thickness max. 150 mm for BASE arm thickness max. 230 mm for LARGE arm

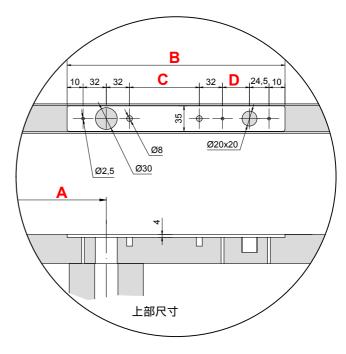


If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.

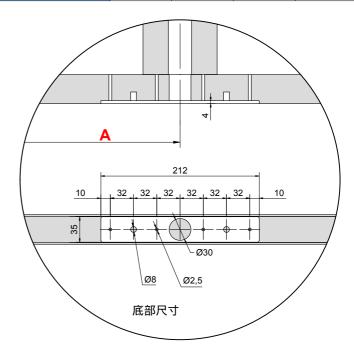


WORKING DOOR LEAF SPECIFICATION 门扇制作说明



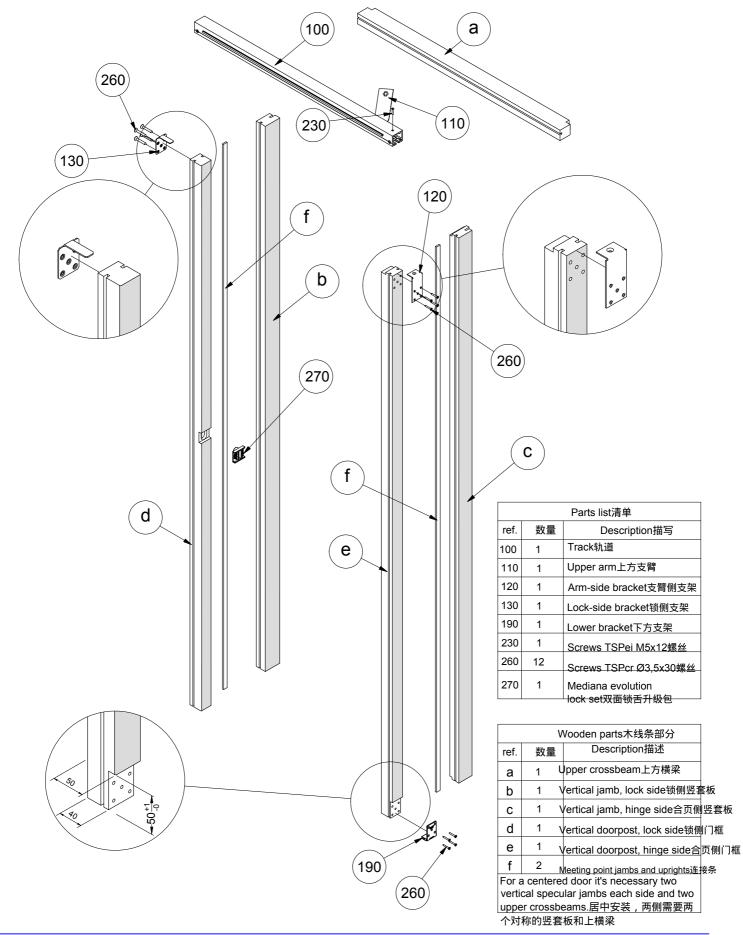


可变尺寸基于支臂类型							
	A	В	С	D			
BASE arm	192	276	96	39,5			
SMALL arm	144	227,3	47,3	39,5			
LARGE arm	306	390	224	25,5			



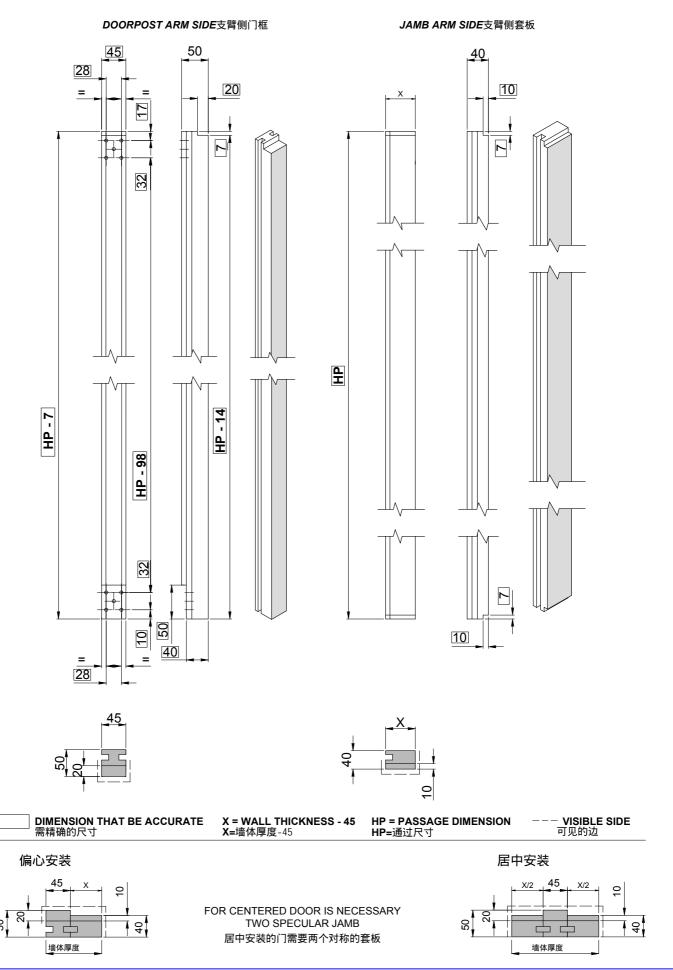


门套爆炸分解图(企口门套)



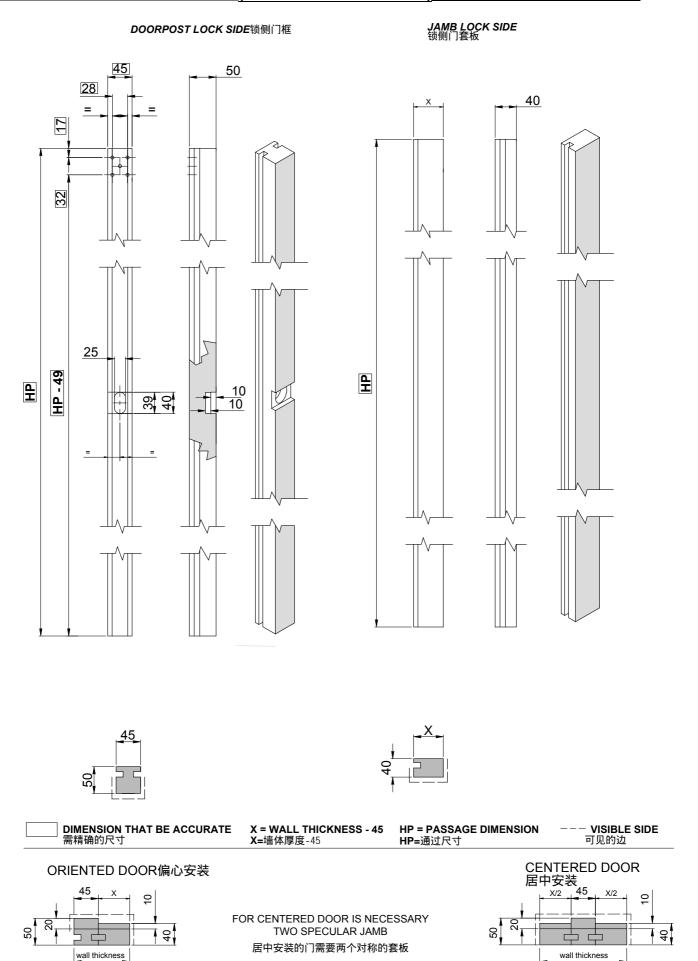


<u>垂直门套板加工图(企口门套)</u>



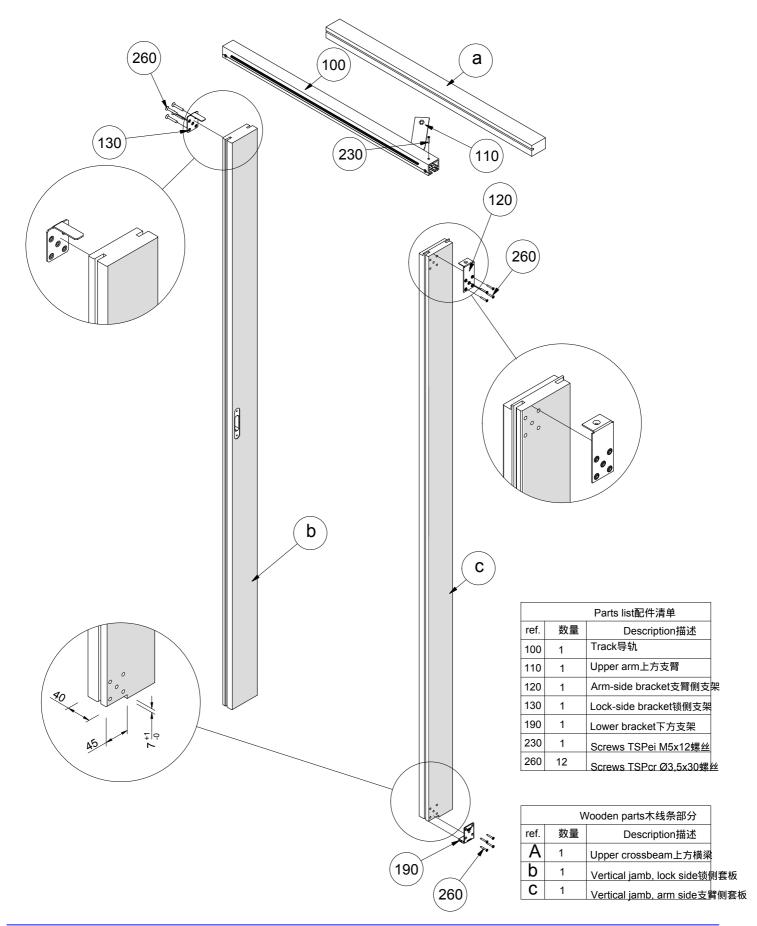


DETAILS FOR VERTICAL FRAME (JAMB WITH DOORPOST)垂直门框加工图(企口门套)



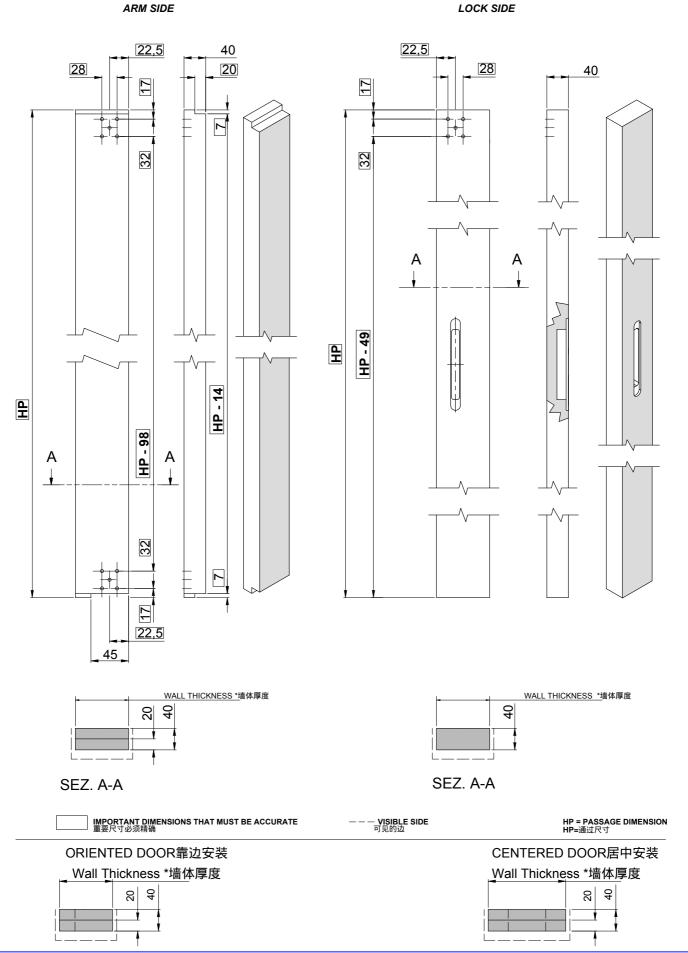


EXPLODED VIEW OF THE FRAME (STRAIGHT JAMB)门套爆炸分解图(平口门套)





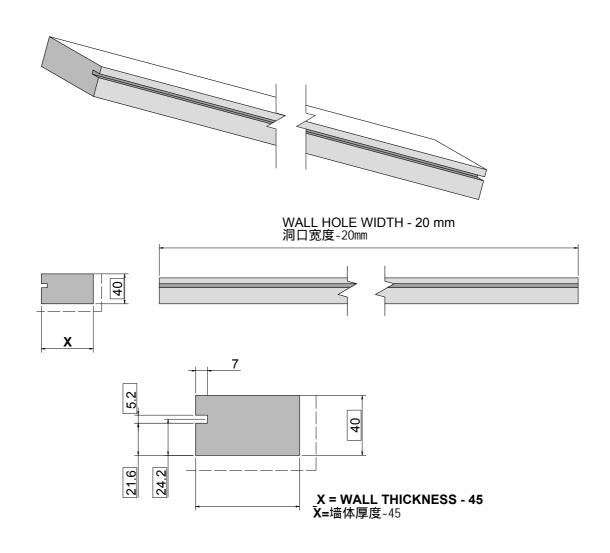
DETAILS FOR VERTICAL FRAME (STRAIGHT JAMB)垂直门套加工图(平口门套)

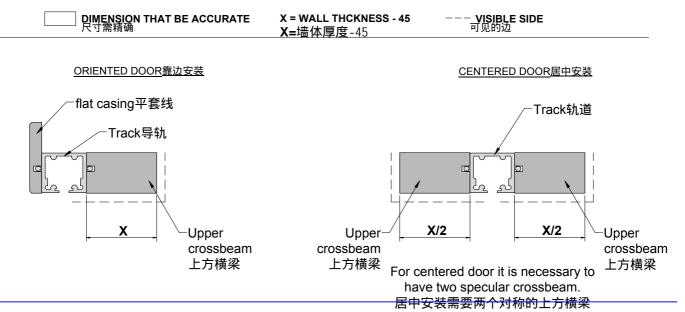




DETAILS FOR UPPER CROSSBEAM横向门套加工图

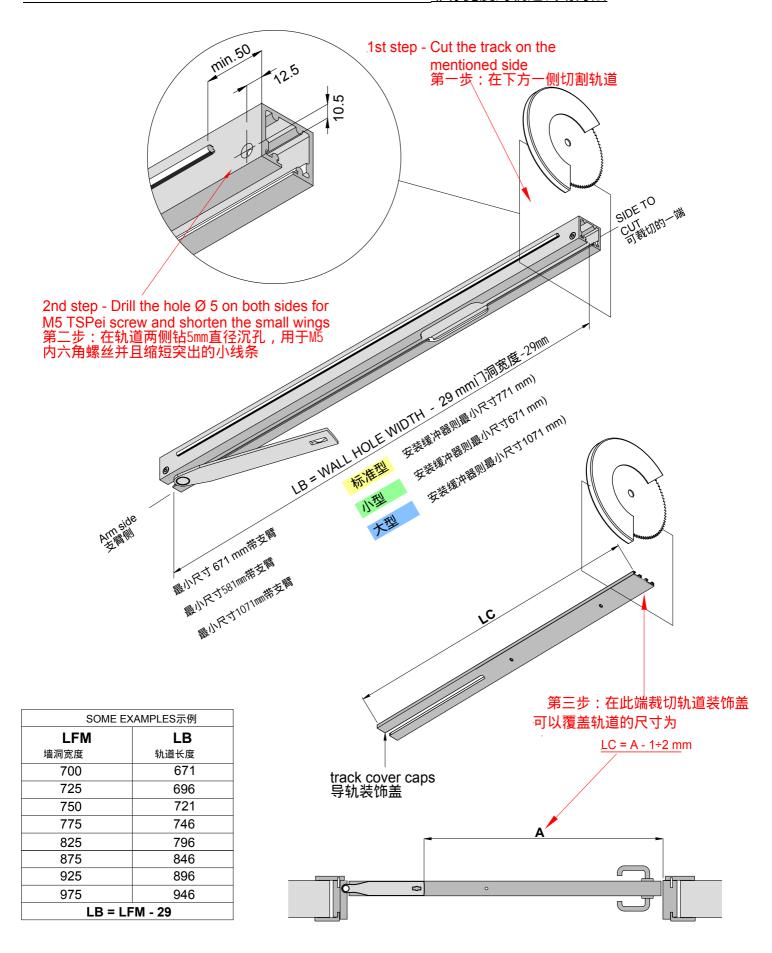
VALID FOR FRAME WITH DOORPOST AND FLAT FRAME 两种框型都适用







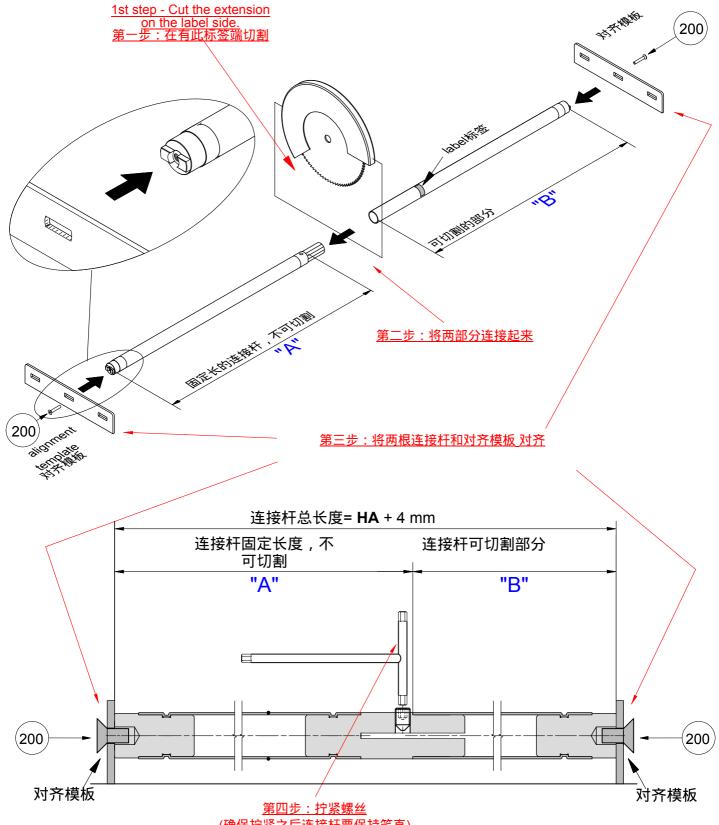
TRACK ADJUSTMENT TO THE WIDTH NOT STANDARD非标宽度的轨道裁切方法





ROD KIT SHORTNABLE 垂直连接杆的裁切

ADJUSTMENT OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS 非标高度时,可调节连接杆的长度



(确保拧紧之后连接杆要保持笔直)

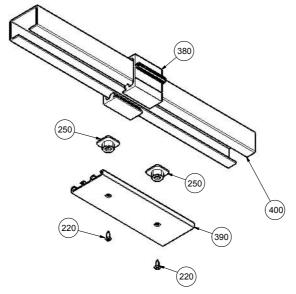
连接杆型号	最大HP	尺寸 "A" _{固定尺寸}	尺寸 "B"	
555250CP	2500	1258,5	HA - 1254,5	现货
555300CP	3000	1508,5	HA - 1504,5	提前订货

1



KIT UNION TRACKS FOR DOOR WITH TWO DOOR LEAVES ERGON LIVING SYSTEM

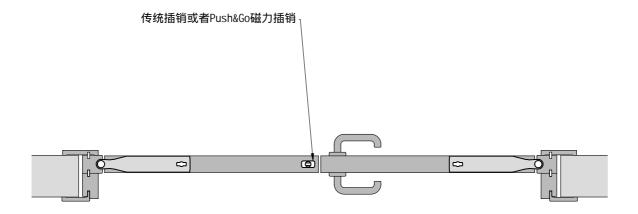
双扇门的轨道工具套件



型号 564000

	Part list配件清单								
ref.	ref. qty Description描述								
220	1	Screw TSPcr Ø3X10自攻螺丝							
250	2	轨道装饰盖安装堵头							
380	1	Track extension轨道延长部分							
390	1	Track cover extension轨道装饰盖延	K						
400	1	Track graft junction轨道连接接头							

2



N.B.: 墙体厚度的限制参考第10页的说明

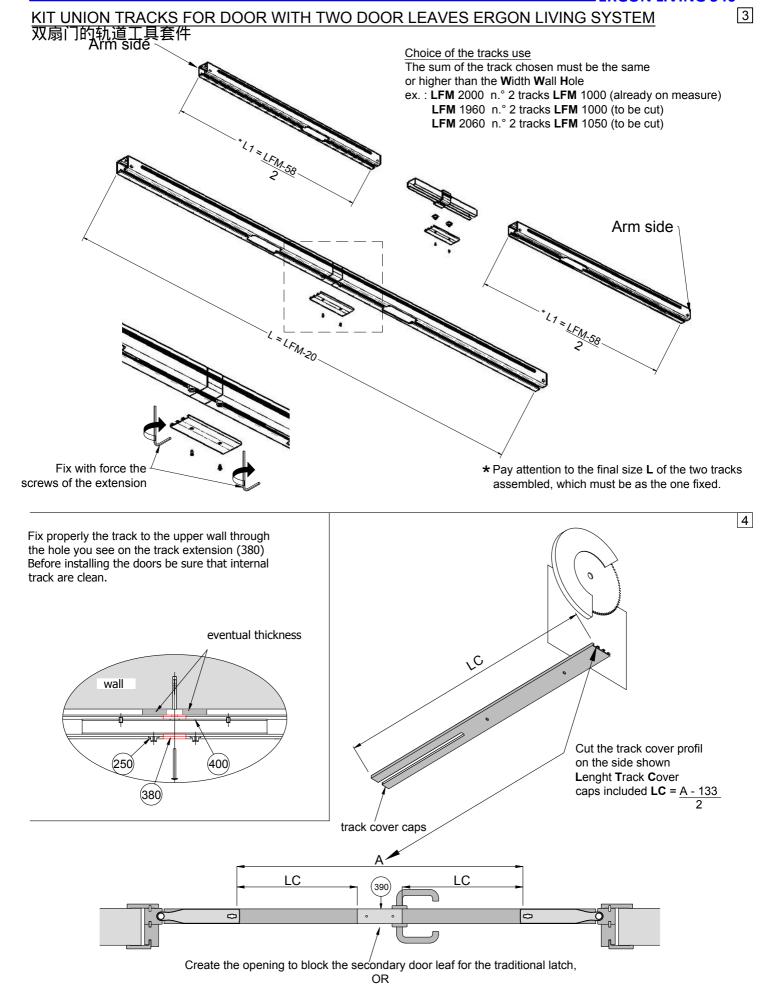
LFM 最小门洞宽度 1600 mm.标准型支臂, 安装缓冲器,则LFM 最小门洞宽度 1700 mm.

LFM 最小门洞宽度1400 mm. 小型支臂, 安装缓冲器,则 LFM 最小门洞宽度1500 mm.

LFM 最小门洞宽度2300 mm. 大型支臂, 安装缓冲器,则LFM 最小门洞宽度 2300 mm.

For dimensions smaller than those indicated, contact Celegon S.r.l.



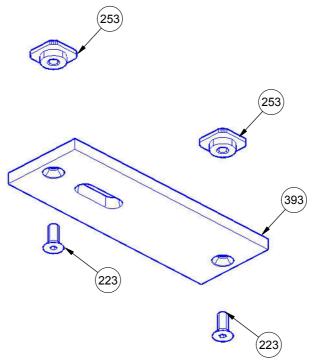


For the Push&Go EVO system use the dedicated kit, see next page.



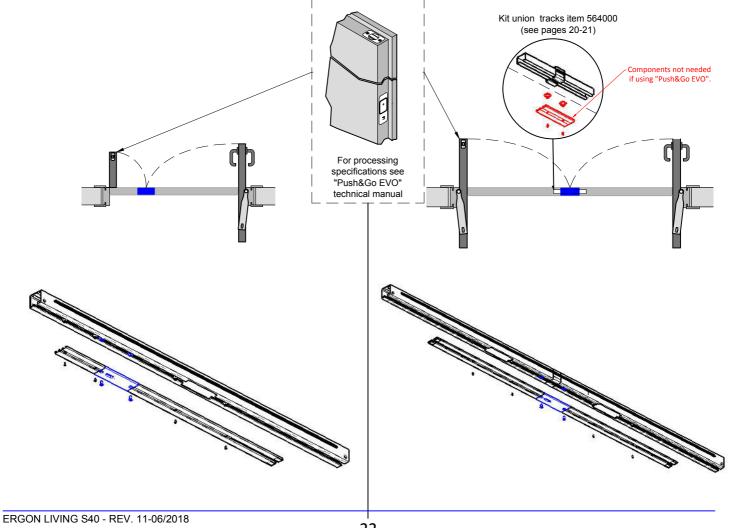
MAGNETIC STRIKER PLATE FOR "Push&Go EVO"磁力插销扣板的安装板

For use with double door leaves with Ergon Living system.



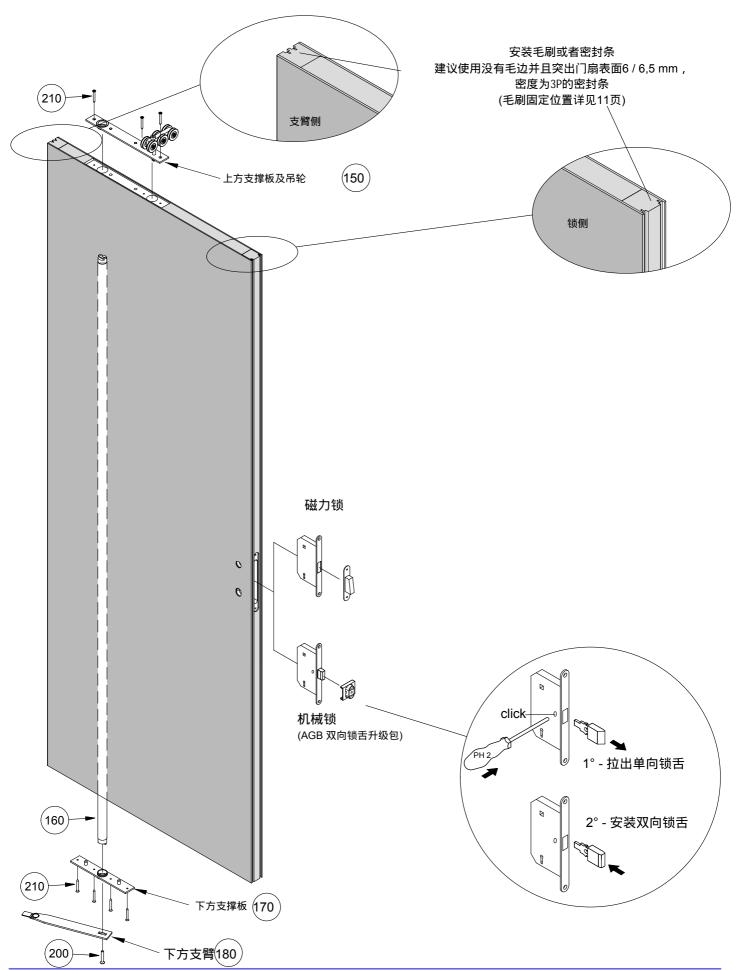
Silver item number 4150IA Black item number 4150IN

ref.	qty	Parts list
223	1	Screw TSPEI M5x12
253	1	Plate fixing insert
303	1	Magnetic striker plate



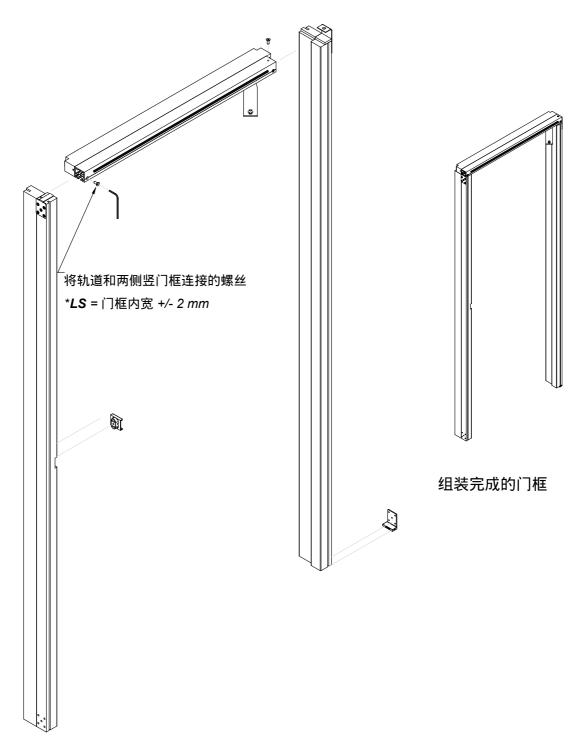


ASSEMBLING THE HARDWARE IN THE DOOR LEAF门扇五金的组装





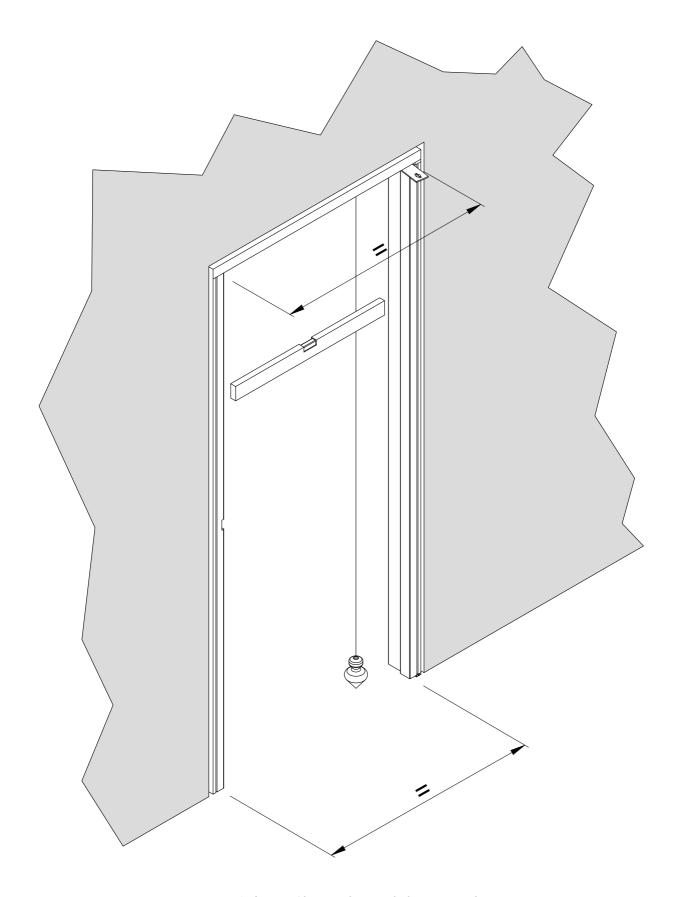
ASSEMBLY FRAME AND TRACK轨道与门套的组装





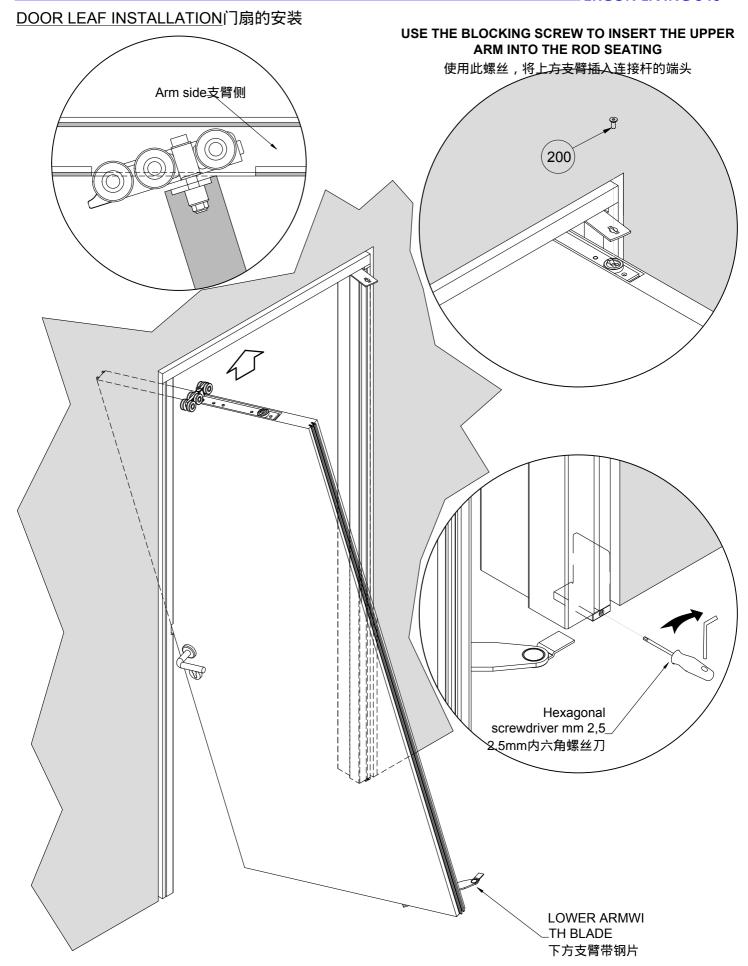


COMPLETE FRAME INSTALLATION门套的安装



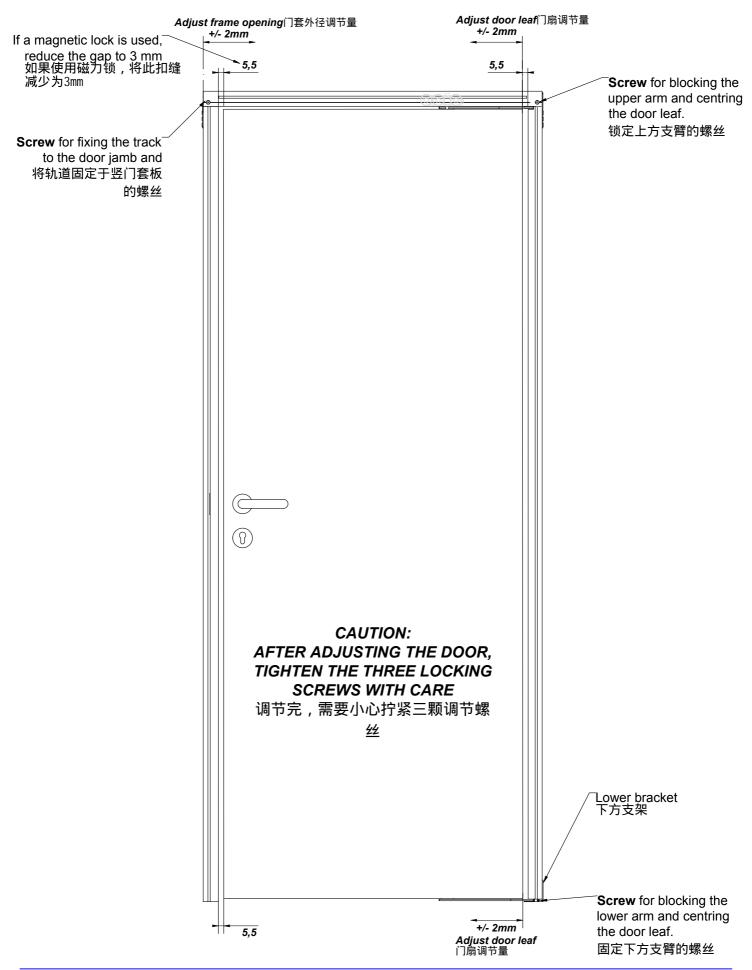
注意:导轨必须水平,竖框必须垂直





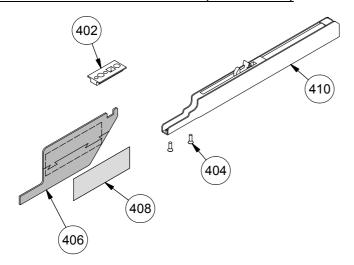


ADJUSTING DOOR LEAF AND DOOR JAMB门扇门套的调节



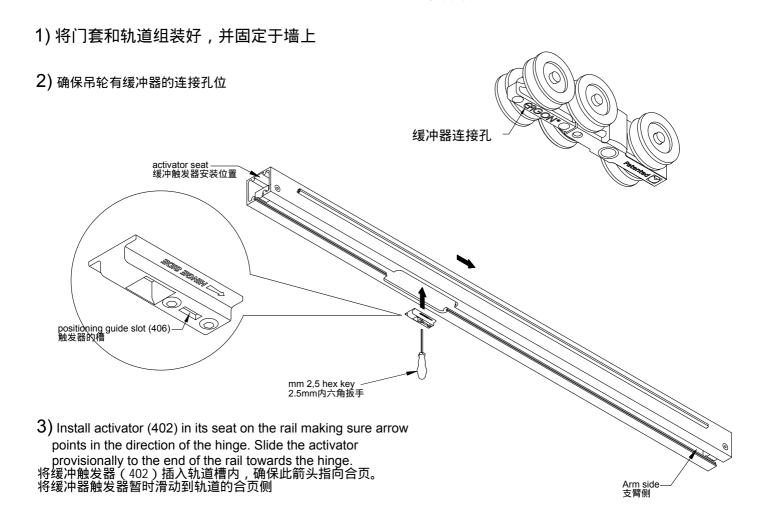


"SOFT OPENING" INSTALLATION (OPTIONAL)缓冲器的安装 (可选)



			-				
	Parts list部件清单						
ref.	qty数量	Description描述					
402	1	Activator缓冲触发器					
404	2	Screw TSP+ M3x8 - ISO 7046平头螺丝					
406	1	Activator positioning template触发器定位	模板				
408	1	Sticker贴纸					
410	1	Soft Opening开门缓冲器					

Installation安装说明

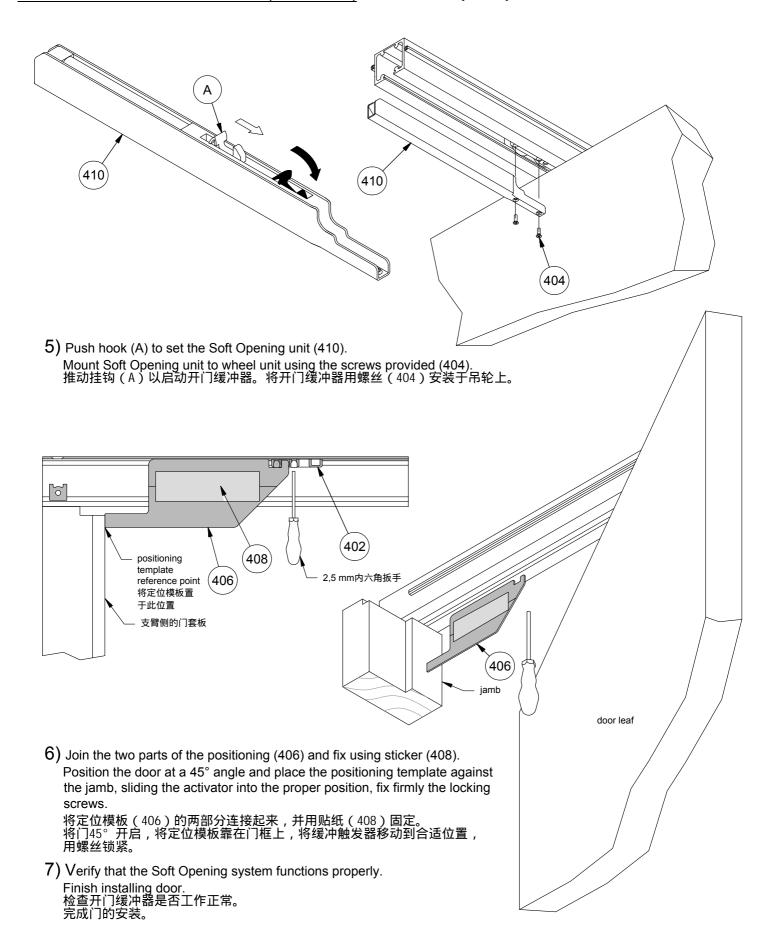


- **4)** Hang the door and mount the hinge arm. Adjust the door normally and open it all the way.将门扇悬挂并安装支臂。调节门使其所有位置开启正常
 - N.B. If the door is already installed, remove the track cover and then install the activator in its seat on the rail.

注意:如果门扇已经安装完毕,需要先拆除轨道装饰盖,将缓 冲触发器安装在轨道内



"SOFT OPENING" INSTALLATION (OPTIONAL)缓冲器的安装 (可选)





FRAMES AND TRACK COVER INSTALLATION <u>门套和轨道装饰盖的安装</u>

如果门框有启口 (参见下图), 轨道装饰盖需要在下图圈出的一段多裁切20mmTHE TRACK COVER MUST BE SHORTENED BY 20 mm ON THE SIDE MARKED WITH THE CIRCLE.

