



Kraby lid stay system

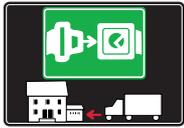
OPENING
SYSTEMS
FOR LIFT
UP AND
DROP
DOWN
DOORS





SYMBOLS AND FINISHES LEGEND

SYMBOLS



= SHELF SAFELY LOCKED DURING TRANSPORTATION AND AT HOME.



= ANTI-TURNOVER LOCKING SYSTEM



= NORMS / PATENTS



= PHILLIPS / POZIDRIV



= WITH BUFFER



= PART NO.



= BLADE SLOT



= WITH MAGNET



= PCS. PER PACKAGE



= COMBI SLOT



= HEXAGONAL SOCKET



= NEWTON



= CAPACITY LOADING



= HEXALOBULAR SOCKET



= FRICTION



= WOOD / GLASS THICKNESS



= COUNTERSUNK HEAD



= AUTOMATIC



= HOLE DIAMETER



= PAN HEAD



= DROP DOWN



= DIAMETER



= FLANGE HEAD



= LENGTH



= FLAT HEAD



= STANDARD HINGE



= HEIGHT



= TRILOBULAR SCREW



= KIMANA HINGE



= RIGHT VERSION



= SELF-TAPPING SCREW



= FLAP HINGE



= LEFT VERSION



= EURO THREAD



= WITH SPRING



= SETTING CODE



= METRIC THREAD



= WITHOUT SPRING



= PCS. PER PAD



= PRE-INSERTED SCREW



= REVERSED SPRING



= CUT ON REQUEST



= PRE-INSERTED SCREW AND SPREADING BUSH



= SELF ADHESIVE



= WITH FLANGE

NOTE: Printing errors and omissions may exist despite our best efforts to ensure accuracy. We reserve the right to alter specifications without notice.

MATERIALS

ZA = Zinc Alloy

ST = Steel

HSS = High Speed Steel

BR = Brass

ABS = Acrylonitrile Butadiene Styrene

ZAnk = Nickel-plated Zinc Alloy

STzk = Zinc-plated Steel

AL = Aluminium

WD = Wood

EVA = Ethylene Vinyl Acetate

EP = **ENGINEERING PLASTIC**

+ **EP** = other engineering plastic available on request

SR = **SOFT RUBBER**

+ **SR** = other soft rubber available on request

EPn = Natural Engineering Plastic

EPc = Clear Engineering Plastic

SRn = Natural Soft Rubber

EPw = White Engineering Plastic

EPg = Grey Engineering Plastic

SRw = White Soft Rubber

EPwg = Water Green Engineering Plastic

EPa = Anthracite Engineering Plastic

SRb = Black Soft Rubber



FINISHES



+ **OTHER FINISHES AVAILABLE ON REQUEST**

PART NO.	FINISHES	PART NO.	FINISHES	PART NO.	FINISHES
00	Insignificant finish	IF	Middle Grey	RO	Red
AA	Natural	IJ	Light Grey	UT	T-Met 9007
AB	White	IL	Grey 20	UZ	T-Met
AE	White 9010	IN	Grey met. 26	WA	Bronzed
EA	Black	JB	Bright Aluminium	WI	Burnished
EC	Matt Black	JC	Aluminium - Chrome	XD	Satin-finished Steel
EE	Anthracite	JD	Matt Aluminium	YA	Nickel-plated
EW	Grey 9007	JE	Satin-finished Aluminium	YB	Bright Nickel-plated
FU	Gunmetal	JF	Aluminium - Brass	YC	Matt Nickel-plated
FV	Gunmetal V52	JG	Aluminium 5	YD	Satin-finished Nickel-plated
GR	Raw	JL	Aluminium PE 11	YQ	Black Nickel
HA	Brass-Plated	JM	Aluminium RAL 9006	Z9	Black Zinc
HH	Tropicalized	KA	Chrome	ZA	Zinc alloy
HL	Raw Brass	KB	Bright Chrome	ZN	Zinc-plated
HX	Graphite	KC	Matt Chrome	ZQ	Bright Gold
IA	Grey	LD	Brown 8019	ZY	Titanium
IB	Metallic Grey	NN	Metallic Beige	ZZ	Clear

KRABY SYSTEM LIFT UP

KRABY is a gas and oil stay to open flap doors. It has been conceived to be installed by using standard automatic drilling processes. It is available in three different lengths and several newton strengths to suit doors of any size. It can be fixed directly on solid doors or wider aluminium frame section doors. For small aluminium sections a range of special adaptors is available. KRABY is available in:

- Automatic version: once you open the door, it continues to open gently and completely by itself.
- Friction version: once you open the door, the stay holds the door in any required position.

KRABY offers some relevant benefits:

- The rotary knob placed on the piston base plate can be used to adjust the opening angle and therefore to align nearby doors.
- By adjusting the position of the piston base plate within the "U" slot of the side bracket, it is possible to change the time in opening and closing of the door

All the parts (stay excluded) are in zinc alloy nickel plated and engineering plastic.



FRICION VERSION



AUTOMATIC VERSION



PATENTED
Certificates available on request.



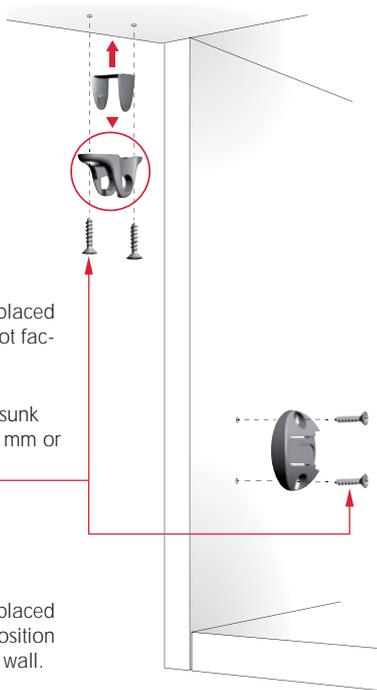
INSTALLATION



VERY IMPORTANT

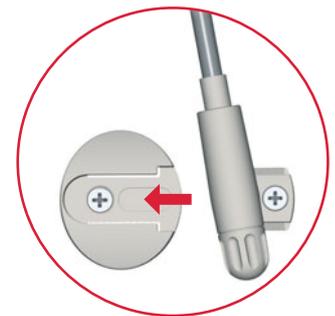
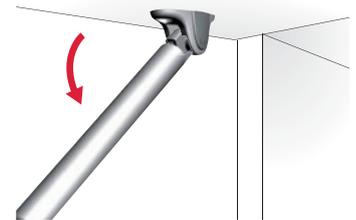
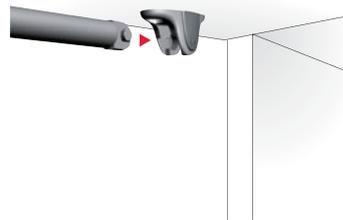
The door bracket has to be placed in vertical position with the slot facing forwards.

recommended fixing countersunk head wood screws Ø3,5x16 mm or Euro thread screws.

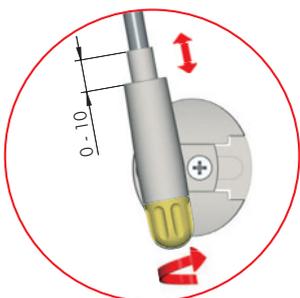


VERY IMPORTANT

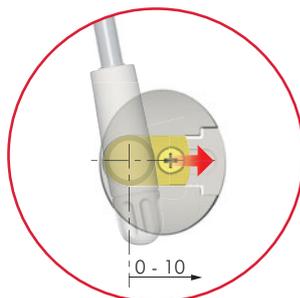
The side bracket has to be placed with the slot in horizontal position and the open end facing the wall.



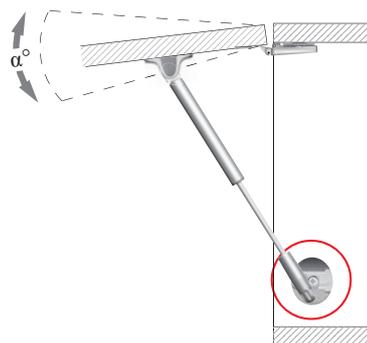
ADJUSTMENTS



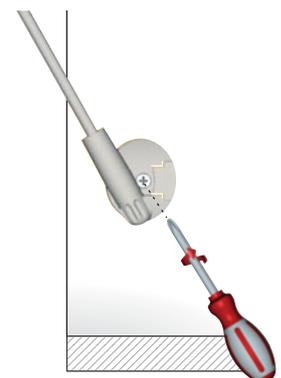
INCREASE OPENING ANGLE
Rotate the rotary knob.



REDUCE OPENING ANGLE
Move forward and backward the piston base plate in the bracket slot.

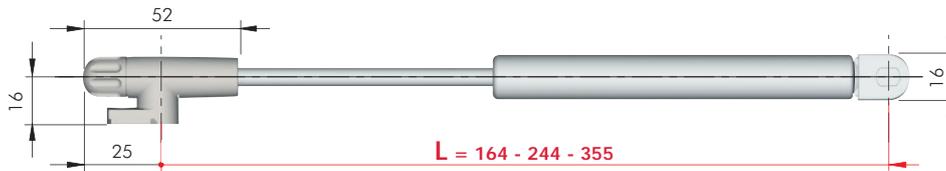
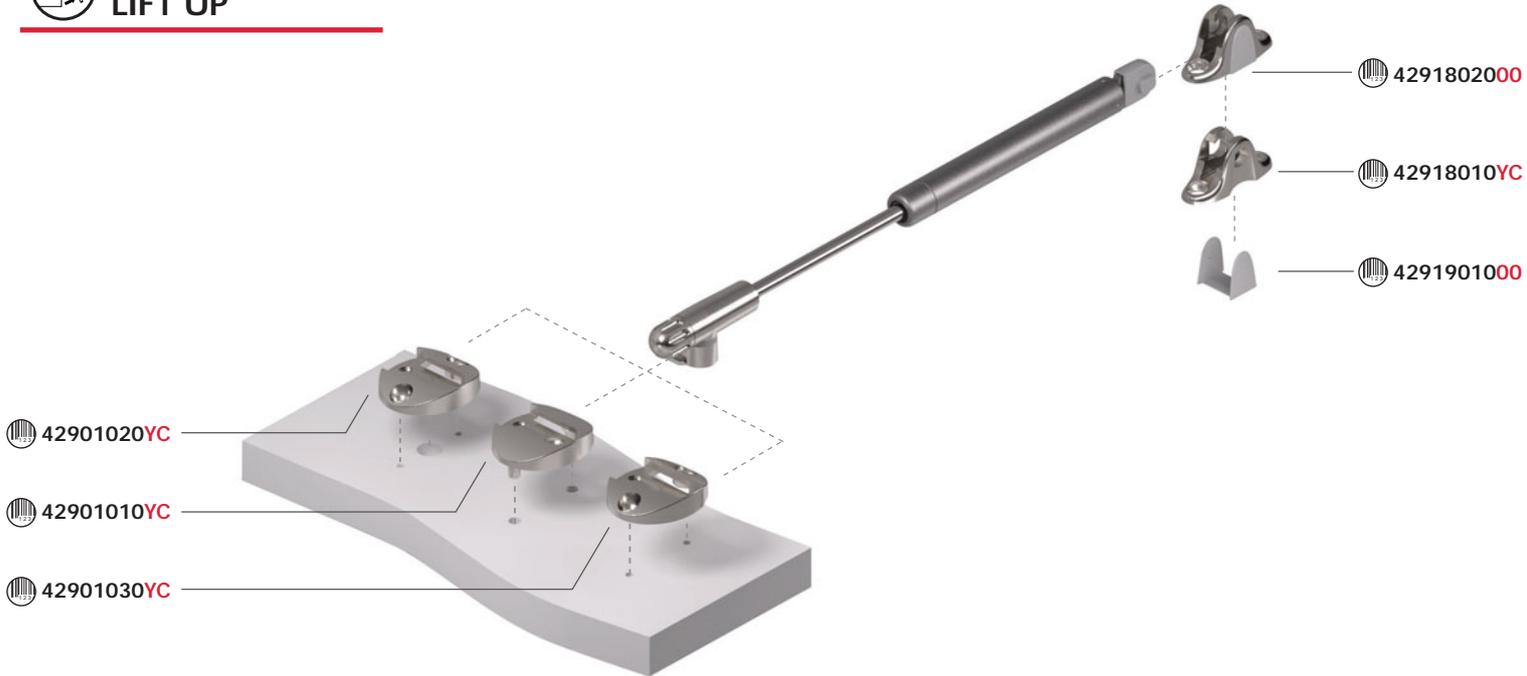


LOCKING



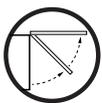


LIFT UP



ZAnk EP ST

= 100 pcs.



KRABY FRICTION VERSION

Further newton strengths available on request.

L			N
164	42001010UZ		45
	42002010UZ		60

L			N
244	42011010UZ		45
	42012010UZ		60
	42013010UZ		90
	42014010UZ		120

L			N
355	42030010UZ		45
	42031010UZ		60
	42032010UZ		90
	42033010UZ		120



KRABY AUTOMATIC VERSION

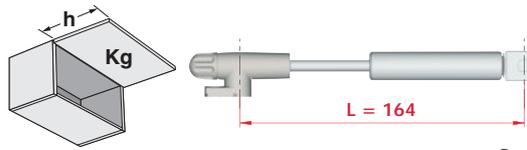
Further newton strengths available on request.

L			N
164	42101010UZ		50
	42102010UZ		80
	42103010UZ		120

L			N
244	42110010UZ		50
	42111010UZ		80
	42112010UZ		100
	42113010UZ		120
	42114010UZ		140

L			N
355	42130010UZ		50
	42131010UZ		80
	42132010UZ		100
	42133010UZ		120

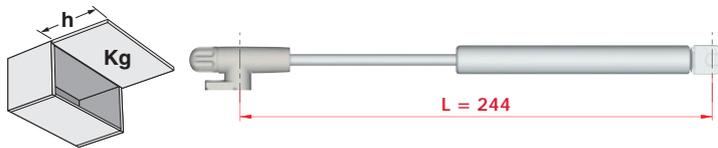
Number of stays chart - L 164 mm



Rev. 02

h	Kraby version	Door weight (Kg)										Kraby version
		1	2	3	4	5	6	7	8	9	10	
230 - 274	Automatic	1x80N	2x80N	2x120N	3x120N			4x120N			Automatic	
	Friction	1x45N	2x45N			2x60N			3x60N			Friction
275 - 325	Automatic	1x80N	2x80N	2x120N	3x120N			4x120N			Automatic	
	Friction	1x60N	2x45N		2x60N	3x60N	4x60N			Friction		

Number of stays chart - L 244 mm



Rev. 02

h	Kraby version	Door weight (Kg)													Kraby version
		1	2	3	4	5	6	7	8	9	10	11	12	13	
300 - 324	Automatic	1x80N	2x50N		2x80N		2x100N		2x120N		2x140N	2x160N*		Automatic	
	Friction	1x45N	1x60N	2x45N			2x60N			2x90N				Friction	
325 - 374	Automatic	1x80N	2x50N	2x80N	2x100N	2x120N	2x140N	2x160N*			2x180N*		Automatic		
	Friction	1x45N	1x60N	2x45N		2x60N			2x90N			2x120N		Friction	
375 - 424	Automatic	1x80N	2x50N	2x80N		2x100N	2x120N	2x140N	2x160N*		2x180N*	2x240N*		Automatic	
	Friction	1x45N	1x60N	2x45N		2x60N			2x90N		2x120N			Friction	
425 - 474	Automatic	2x50N		2x80N		2x100N	2x120N	2x140N	2x160N*		2x180N*		3x160N*	Automatic	
	Friction	1x60N		2x45N		2x60N			2x90N			2x120N		3x90N	Friction
475 - 524	Automatic	2x80N			2x100N	2x120N	2x140N	2x160N*		2x180N*		3x160N*		Automatic	
	Friction	2x45N			2x60N			2x90N	2x120N	3x90N		3x120N		Friction	

* Strenghs available on request.

Number of stays chart - L 355 mm



Rev. 02

h	Kraby version	Door weight (Kg)													Kraby version
		1	2	3	4	5	6	7	8	9	10	11	12	13	
400 - 424	Automatic	1x80N			2x50N		2x80N			2x100N	2x120N		2x160N		Automatic
	Friction	2x45N						2x60N						Friction	
425 - 474	Automatic	1x80N	2x50N	2x80N			2x100N	2x120N	2x160N				Automatic		
	Friction	2x45N						2x60N			2x90N			Friction	
475 - 524	Automatic	1x80N	2x50N	2x80N		2x100N	2x100N	2x160N			2x180N	2x200N		Automatic	
	Friction	2x45N						2x60N			2x90N			Friction	
525 - 574	Automatic	1x80N	2x50N	2x80N		2x100N	2x100N	2x160N			2x180N	2x200N		Automatic	
	Friction	2x45N						2x60N			2x90N			Friction	
575 - 624	Automatic	2x50N		2x80N	2x100N	2x120N	2x160N			2x180N	2x200N			Automatic	
	Friction	2x45N						2x60N			2x90N			Friction	
625 - 700	Automatic	2x50N		2x80N	2x100N	2x120N	2x160N			2x180N	2x200N			Automatic	
	Friction	2x45N			2x60N			2x90N		2x120N			Friction		

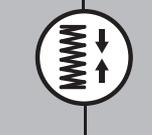
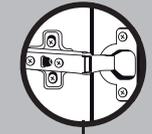
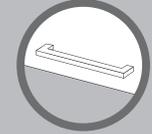
These are experimental results to be checked by the customer. Our Technical Department is at your disposal to test further cases out of this charts.



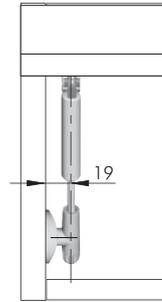
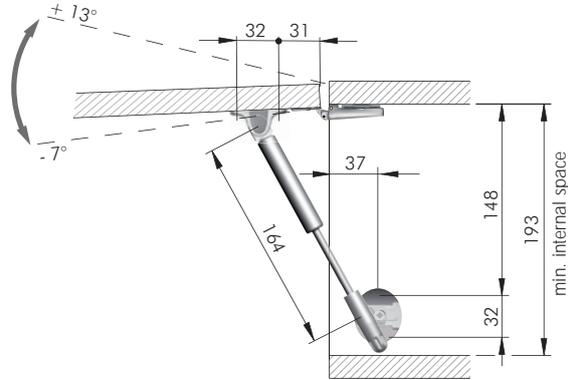
KRABY CONFIGURATOR:



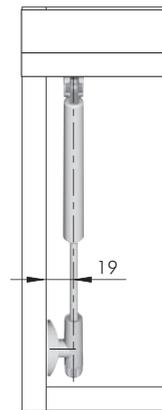
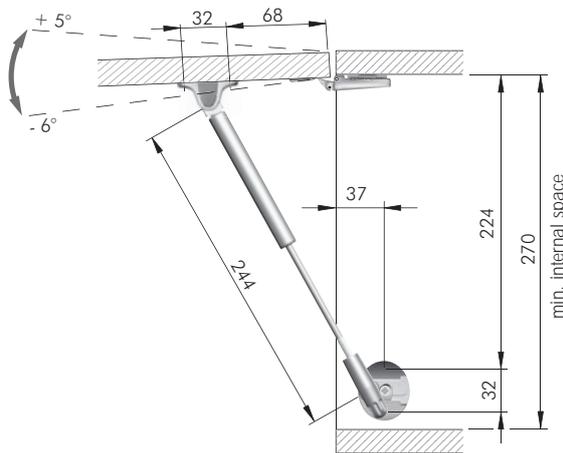
LIFT UP DRILLING PLANS WITH STANDARD HINGES OPENING WITH HANDLE



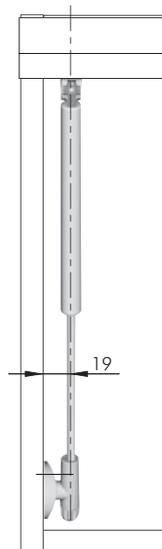
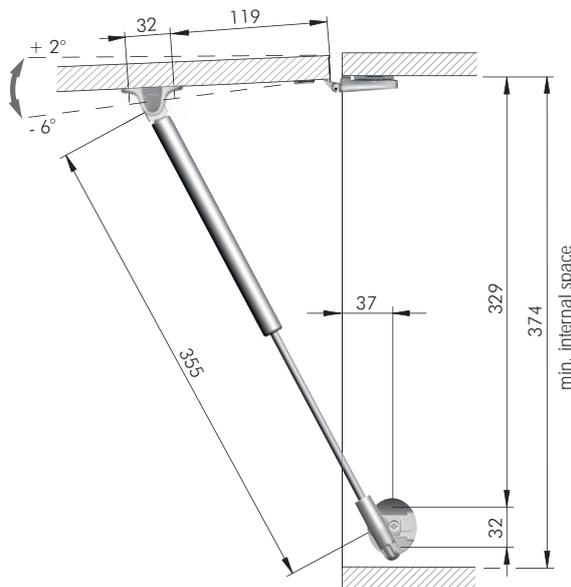
L 164 mm



L 244 mm



L 355 mm



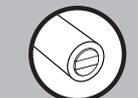
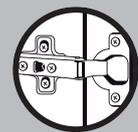
The dimensions of the above drilling plans refer to carcasses which use **standard sprung or unsprung hinges** and mounting plates 0 mm. Please note that the opening angle shown data is purely indicative. It varies with respect to the hinge brand and adjustment carried out.



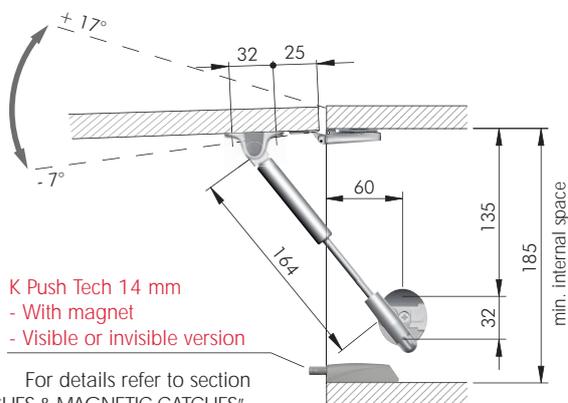
Please note that in case of use of **unsprung hinges**, magnet K Lock is required. For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



LIFT UP DRILLING PLANS WITH STANDARD HINGES PUSH TO OPEN

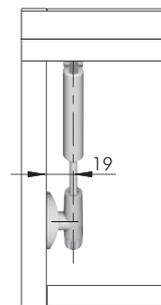


L 164 mm

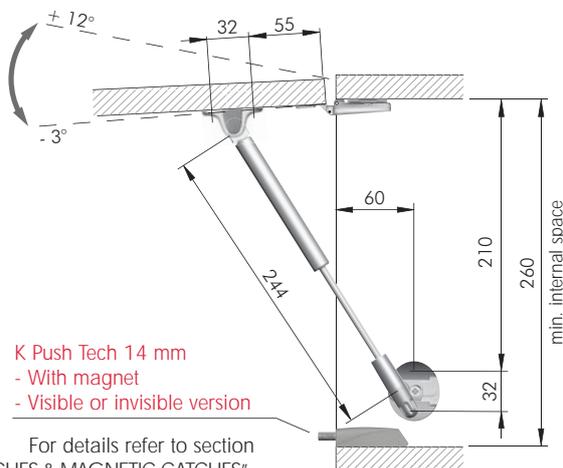


K Push Tech 14 mm
- With magnet
- Visible or invisible version

For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".

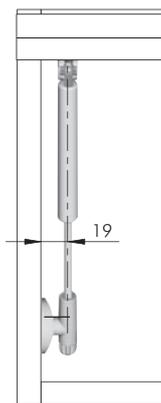


L 244 mm

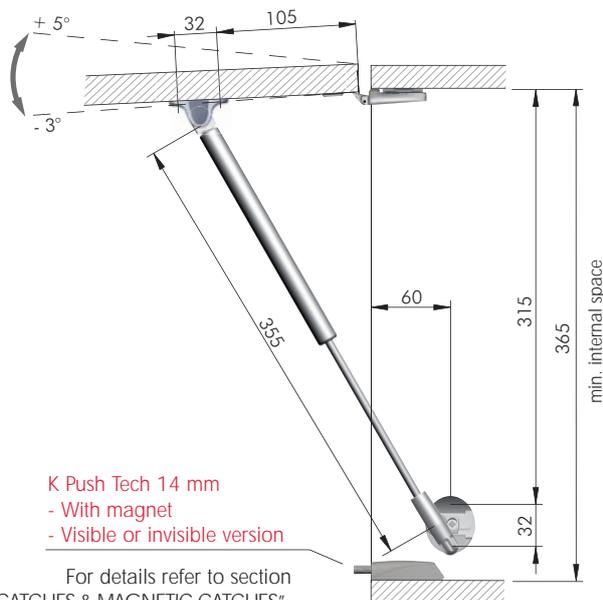


K Push Tech 14 mm
- With magnet
- Visible or invisible version

For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



L 355 mm

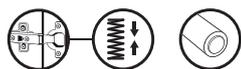


K Push Tech 14 mm
- With magnet
- Visible or invisible version

For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



The dimensions of the above drilling plans refer to carcasses which use **standard unsprung hinges** and mounting plates 0 mm. Please note that the opening angle shown data is purely indicative. It varies with respect to the hinge brand and adjustment carried out.



Please note that utilization with **standard sprung hinges** and **K Push Tech with buffer** is also possible. In such case, after the door is initially released by K Push Tech, a manual opening approx. 7cm is required (in order to win the spring resistance). Consequently, the door will automatically open to the fullest.

For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



KRABY SYSTEM DROP DOWN

KRABY is an oil stay to open drop down doors. It has been conceived to be installed by using standard automatic drilling processes. It is available in three different lengths and with a universal "Zero" N strength, to suit any door dimension and weight. It boasts smooth and elegant movement to gently open the doors downwards. The opening angle adjustment can be carried out manually through the rotary knob, thus allowing to align nearby doors easily. The adjustment of the piston base plate within the "U" slot of the side bracket can change the door opening.

KRABY grants a quick and easy installation, with no need to tension the strength. Directly installed on solid or wider aluminium frame doors and wide range of special adapters to suit small aluminium door profiles.

All the parts (stay excluded) are in zinc alloy nickel plated and plastic.

PATENTED
Certificates available on request. 

INSTALLATION

recommended fixing countersunk head wood screws Ø3,5x16 mm or Euro thread screws

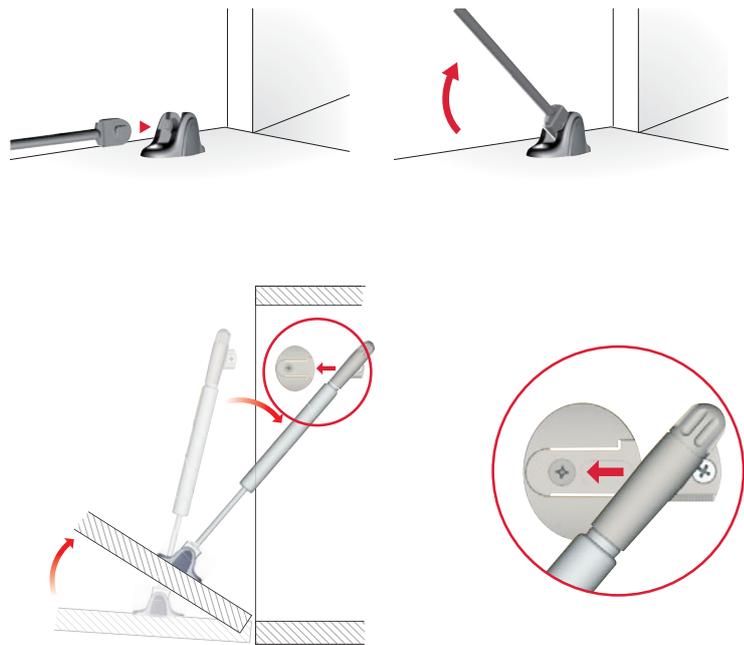
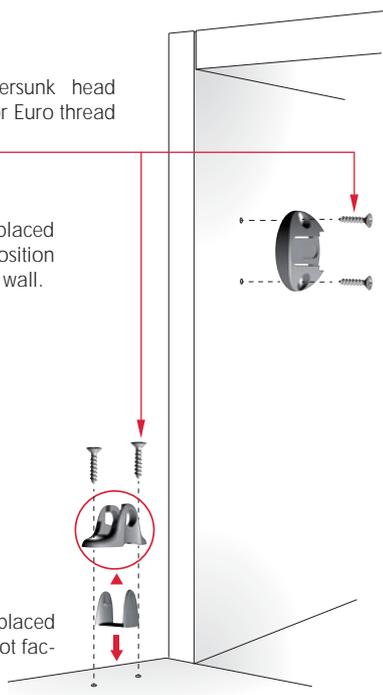
VERY IMPORTANT

The side bracket has to be placed with the slot in horizontal position and the open end facing the wall.

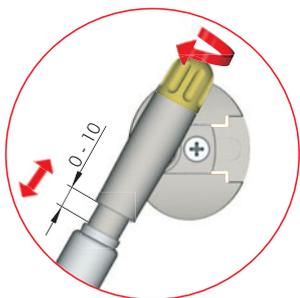


VERY IMPORTANT

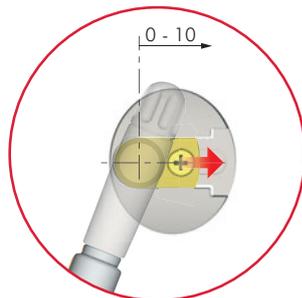
The door bracket has to be placed in vertical position with the slot facing forwards.



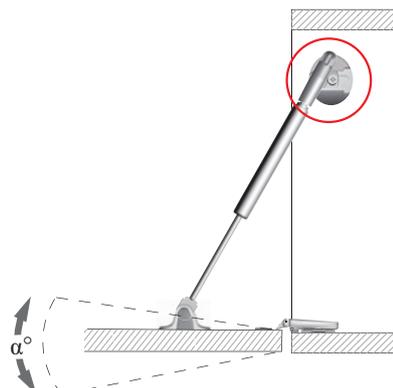
ADJUSTMENTS



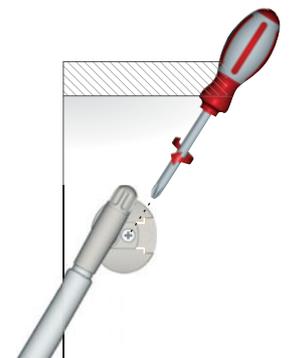
INCREASE OPENING ANGLE
Rotate the rotary knob.



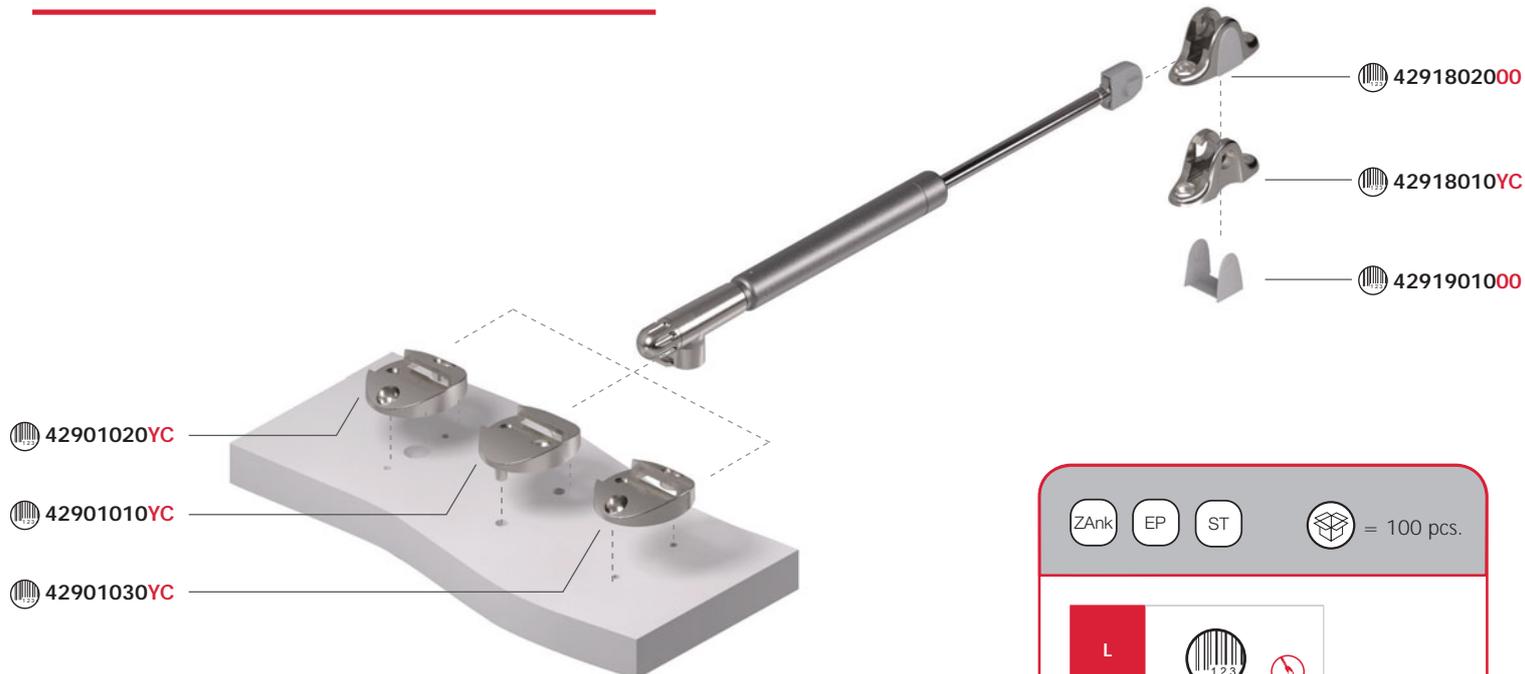
REDUCE OPENING ANGLE
Move forward and backward the piston base plate in the bracket slot.



LOCKING



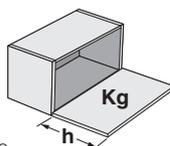
DROP DOWN



ZAnk EP ST = 100 pcs.

L	
164	42201010UZ
244	42210010UZ
355	42230010UZ

Number of stays chart - L 164 mm



Rev. 02

h	Door weight (Kg)					
	1	2	3	4	5	6
200 - 284	2 x Kraby		3 x Kraby		4 x Kraby	

Number of stays chart - L 244 mm

Rev. 02

h	Door weight (Kg)												
	1	2	3	4	5	6	7	8	9	10	11	12	13
280 - 324	2 x Kraby						3 x Kraby				4 x Kraby		
325 - 424	2 x Kraby						3 x Kraby				4 x Kraby		
425 - 500	2 x Kraby						3 x Kraby				4 x Kraby		

Number of stays chart - L 355 mm

Rev. 02

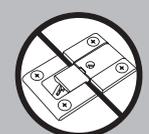
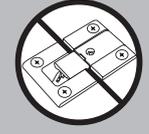
h	Door weight (Kg)												
	1	2	3	4	5	6	7	8	9	10	11	12	13
380 - 500	2 x Kraby										3 x Kraby		
501 - 600	2 x Kraby									3 x Kraby			

These are experimental results to be checked by the customer. In accordance with the actual European regulation, we suggest to use at least two stays for each door. Our technical department is at your disposal to test further cases out of this chart.



DROP DOWN DRILLING PLANS WITH KIMANA HINGE

KRABY CONFIGURATOR:



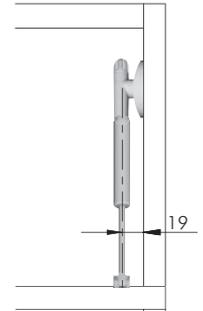
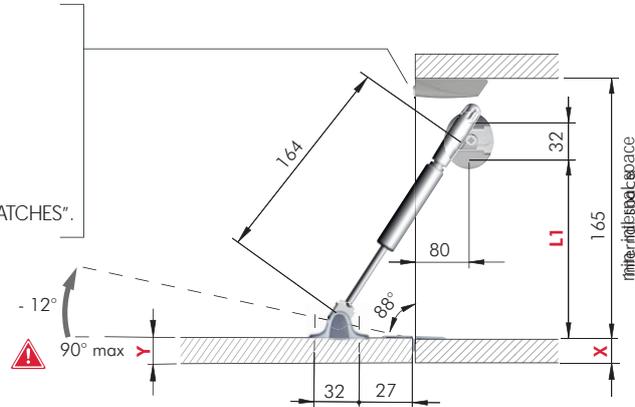
L 164 mm

Magnet K Lock
visible or invisible

K Push Tech 20 mm
- With magnet
- Visible or invisible

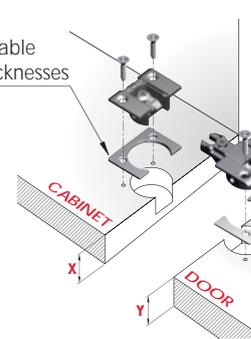
For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".

Overcrossing 90° door opening angle, it negatively effects the Kimana hinges. 90° max



Cabinet (X)		Door (Y)		L1
16 mm	4 mm	16 mm	2 mm	117
16 mm	4 mm	19 mm	-	119
18 mm	2 mm	18 mm	-	117
19 mm	-	16 mm	2 mm	113
19 mm	-	19 mm	-	115
20 mm	-	20 mm	-	115

adapter available in various thicknesses



adapter available in various thicknesses

For Kimana and adapter details refer to section "HINGES".

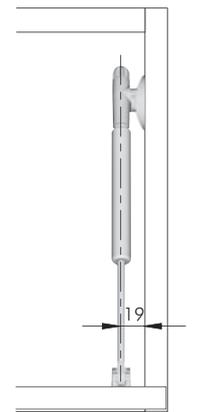
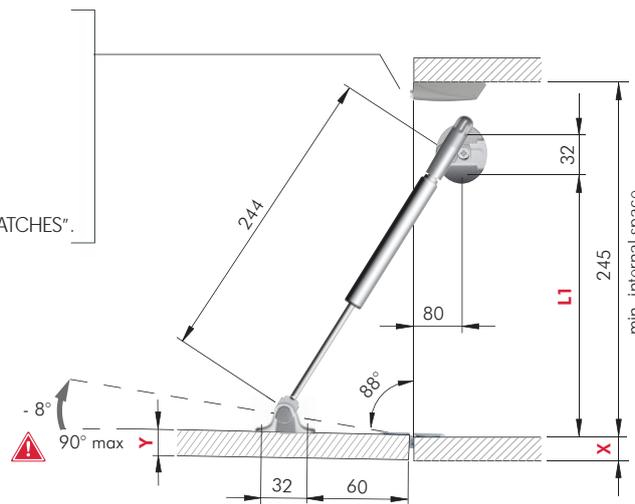
L 244 mm

Magnet K Lock
visible or invisible

K Push Tech 20 mm
- With magnet
- Visible or invisible

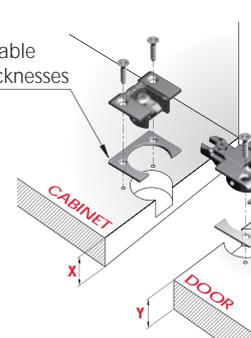
For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".

Overcrossing 90° door opening angle, it negatively effects the Kimana hinges. 90° max



Cabinet (X)		Door (Y)		L1
16 mm	4 mm	16 mm	2 mm	197
16 mm	4 mm	19 mm	-	199
18 mm	2 mm	18 mm	-	197
19 mm	-	16 mm	2 mm	193
19 mm	-	19 mm	-	195
20 mm	-	20 mm	-	195

adapter available in various thicknesses



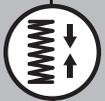
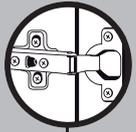
adapter available in various thicknesses

For Kimana and adapter details refer to section "HINGES".

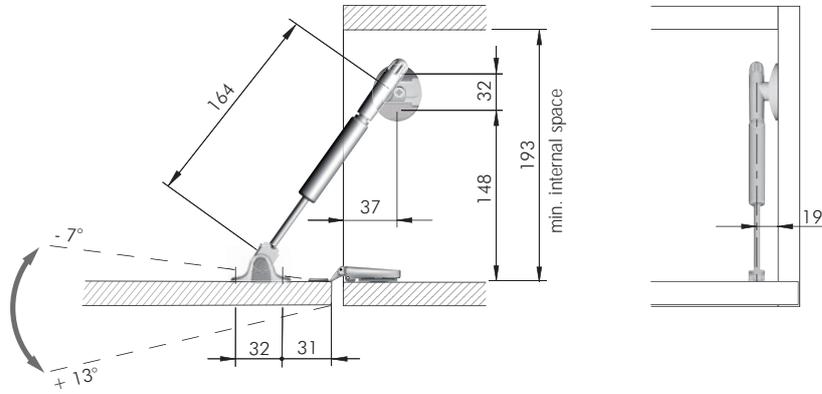


DROP DOWN DRILLING PLANS WITH STANDARD HINGES
OPENING WITH HANDLE

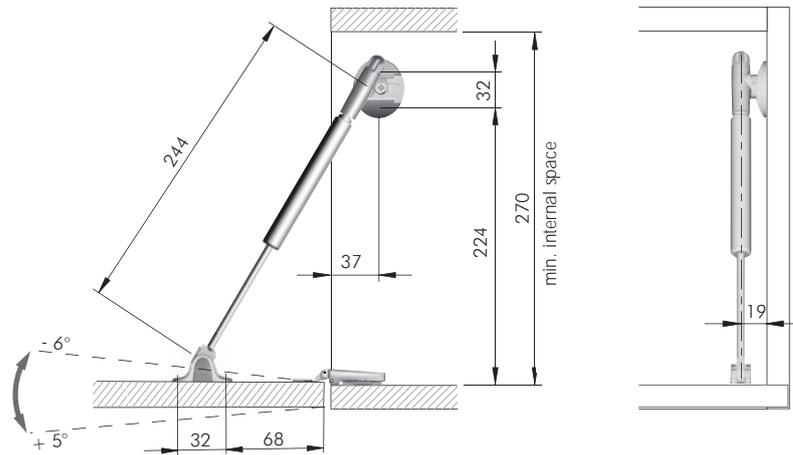
KRABY CONFIGURATOR:



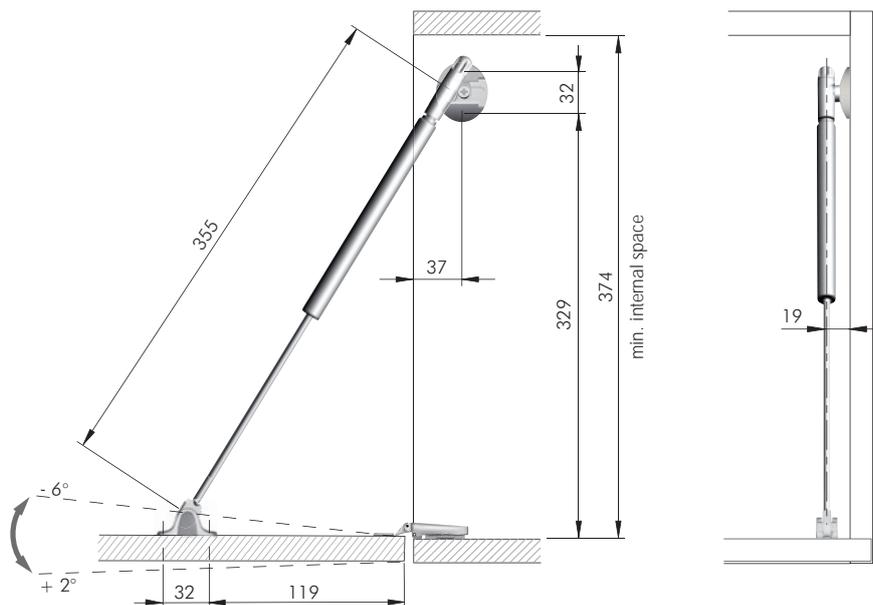
L 164 mm



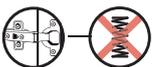
L 244 mm



L 355 mm



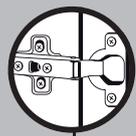
The dimensions of the drilling plans refer to carcasses which use **standard sprung hinges** and mounting plates 0 mm. Please note that the opening angle shown data is purely indicative. It varies with respect to the hinge brand and adjustment carried out.



Please note that in case of use of **unsprung hinges**, **magnet K Lock** is required. For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



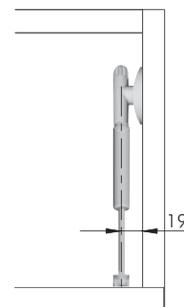
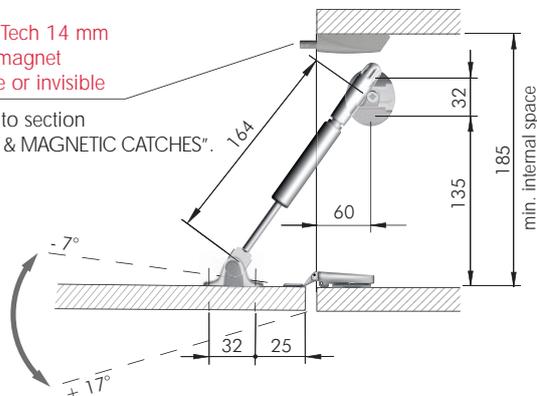
DROP DOWN DRILLING PLANS WITH STANDARD HINGES PUSH TO OPEN



L 164 mm

K Push Tech 14 mm
- With magnet
- Visible or invisible

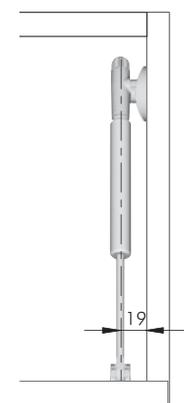
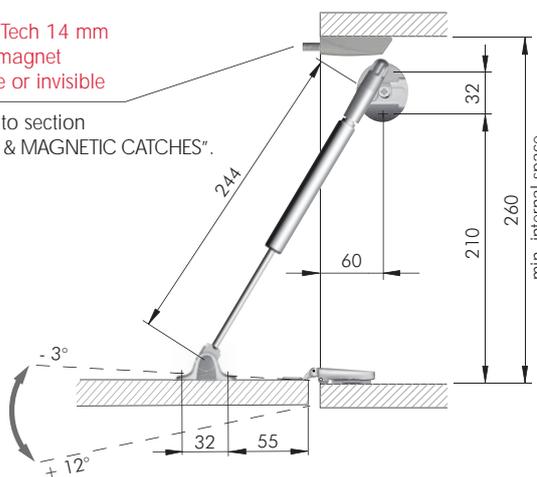
For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



L 244 mm

K Push Tech 14 mm
- With magnet
- Visible or invisible

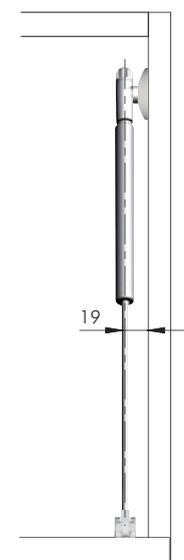
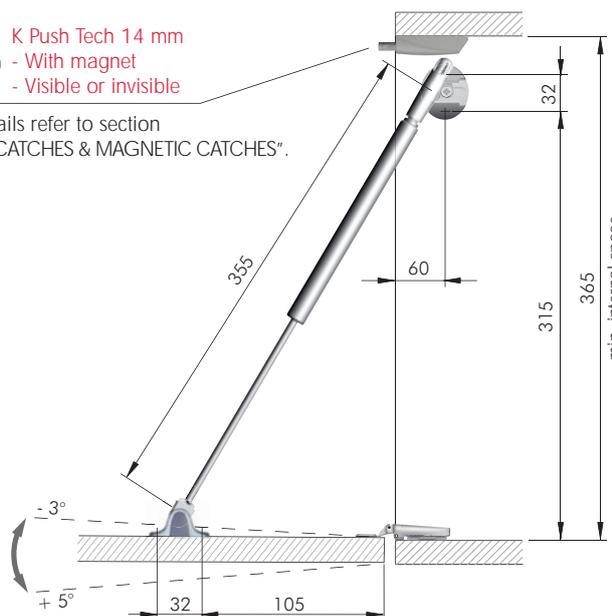
For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



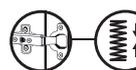
L 355 mm

K Push Tech 14 mm
- With magnet
- Visible or invisible

For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



The dimensions of the drilling plan refer to carcasses which use **standard unsprung hinges** and mounting plates 0 mm. Please note that min and max opening angle shown data is purely indicative. It varies with respect to the hinge brand and adjustment carried out.



Please note that utilization with **standard sprung hinges** and **K Push Tech with buffer** is also possible. In such case, after the door is initially released by K Push Tech, a manual opening approx. 7cm is required (in order to win the spring resistance). Consequently, the door will automatically open to the fullest. For details refer to section "PUSH CATCHES & MAGNETIC CATCHES".



KRABY CONFIGURATOR:



DROP DOWN DRILLING PLANS WITH FLAP HINGE

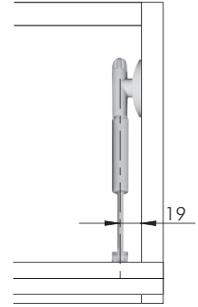
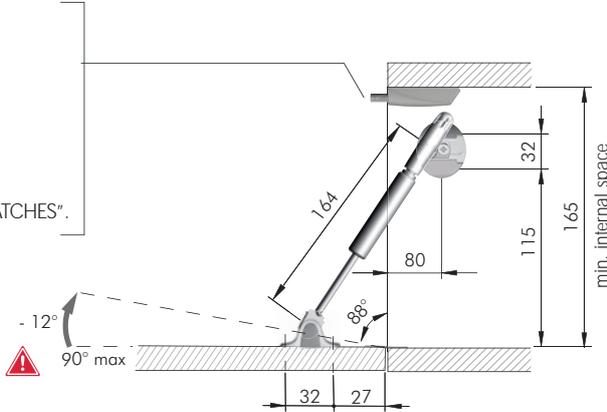
L 164 mm

Magnet K Lock
visible or invisible

K Push Tech 20 mm
- With magnet
- Visible or invisible

For details refer to section
"PUSH CATCHES & MAGNETIC CATCHES".

Overcrossing 90° door opening angle, it negatively effects the flap hinges. - 12°
90° max



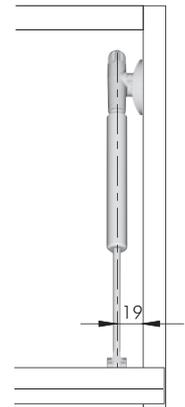
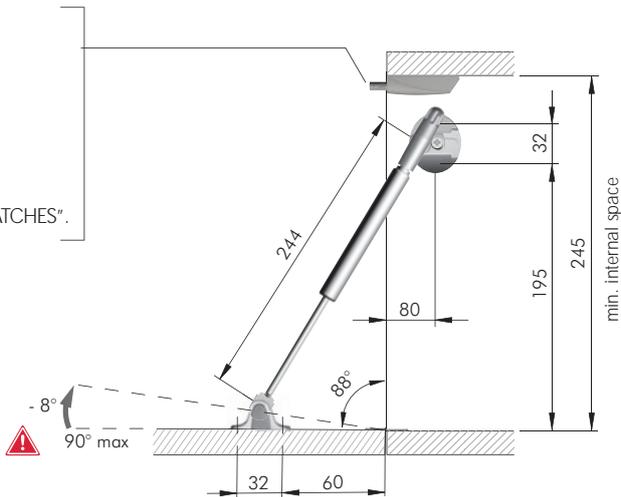
L 244 mm

Magnet K Lock
visible or invisible

K Push Tech 20 mm
- With magnet
- Visible or invisible

For details refer to section
"PUSH CATCHES & MAGNETIC CATCHES".

Overcrossing 90° door opening angle, it negatively effects the flap hinges. - 8°
90° max



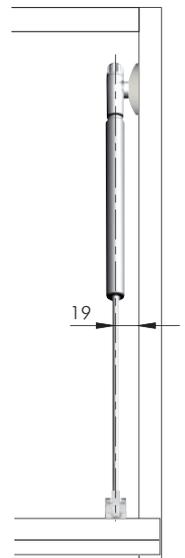
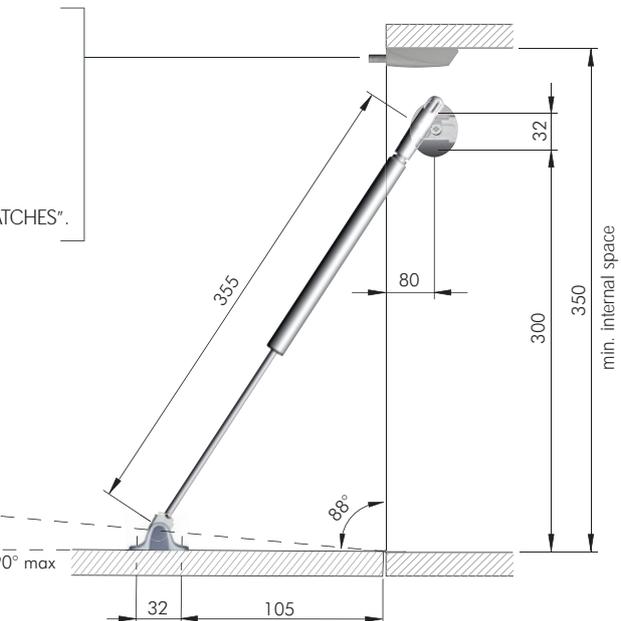
L 355 mm

Magnet K Lock
visible or invisible

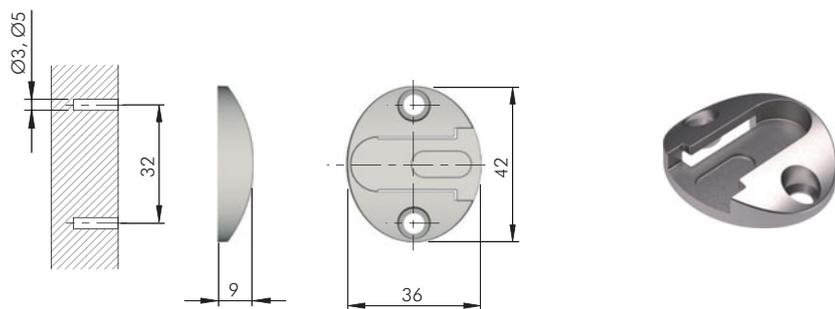
K Push Tech 20 mm
- With magnet
- Visible or invisible

For details refer to section
"PUSH CATCHES & MAGNETIC CATCHES".

Overcrossing 90° door opening angle, it negatively effects the flap hinges. - 5°
90° max



KRABY BRACKETS



 = Ø 3, Ø 5 mm

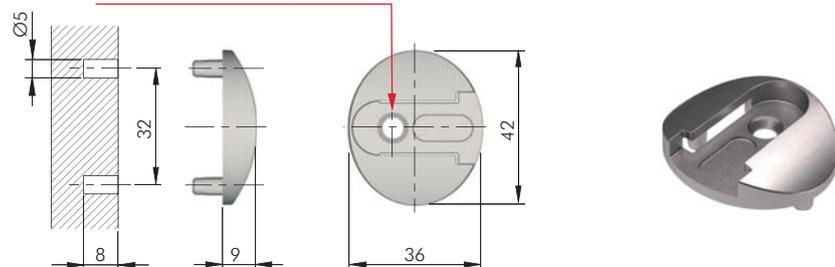
ZA

 = 100 pcs.



42901030YC

recommended fixing countersunk
head wood screw Ø 3,5 x 16 mm



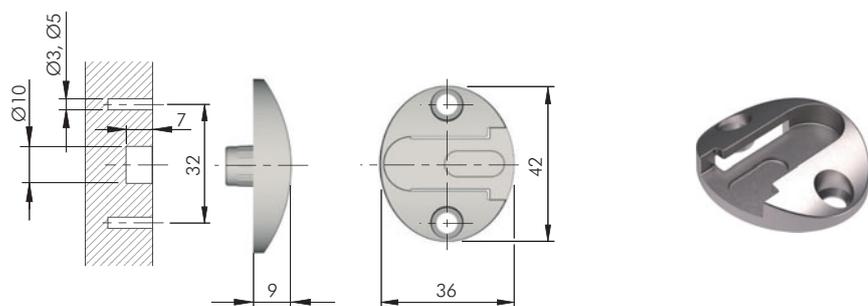
 = Ø 5 mm

ZA

 = 100 pcs.



42901010YC



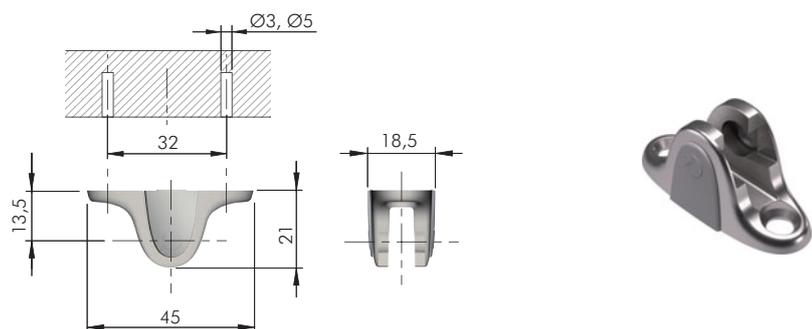
 = Ø 3, Ø 5 mm + Ø 10 mm

ZA

 = 100 pcs.



42901020YC



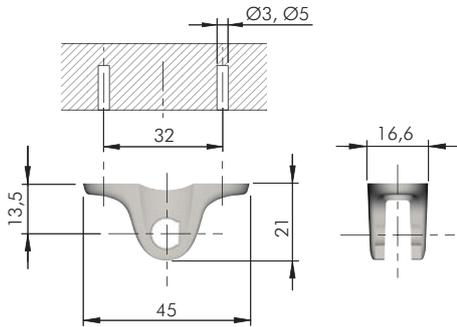
 = Ø 3, Ø 5 mm

ZA

 = 100 pcs.



4291802000



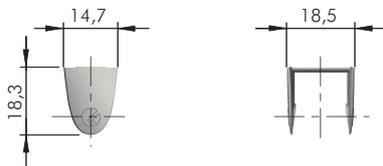
= Ø 3, Ø 5 mm

ZA

= 100 pcs.



42918010YC



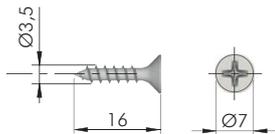
EPg

= 100 pcs.



4291901000

KRABY FIXING ACCESSORIES



= Ø 2,5 mm



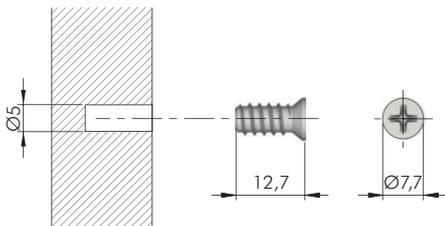
= PZ2

ST

= 10.000 pcs.



60101390YA



= Ø 5 mm



= PZ2

ST

= 5000 pcs.



60501050YA

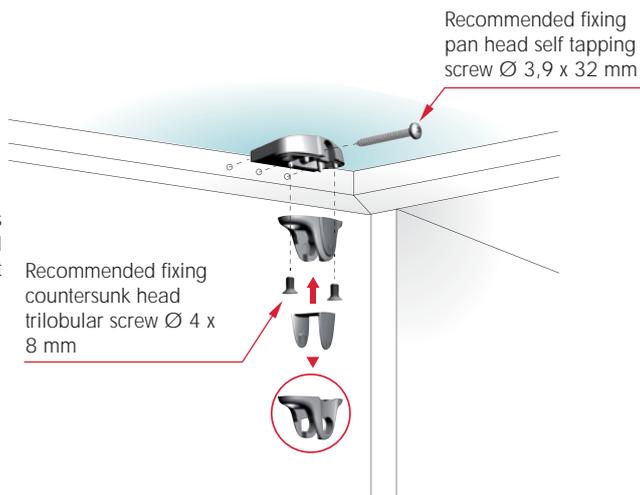
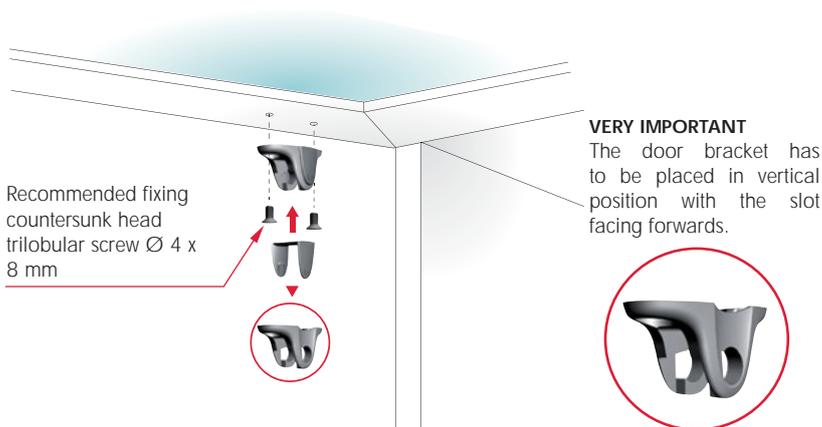
KRABY ADAPTERS FOR ALUMINIUM FRAME DOOR



INSTALLATION ON WIDER ALUMINIUM FRAME DOOR

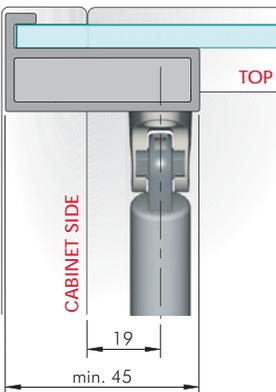


INSTALLATION ON NARROW ALUMINIUM FRAME DOOR

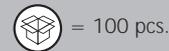
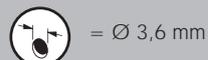
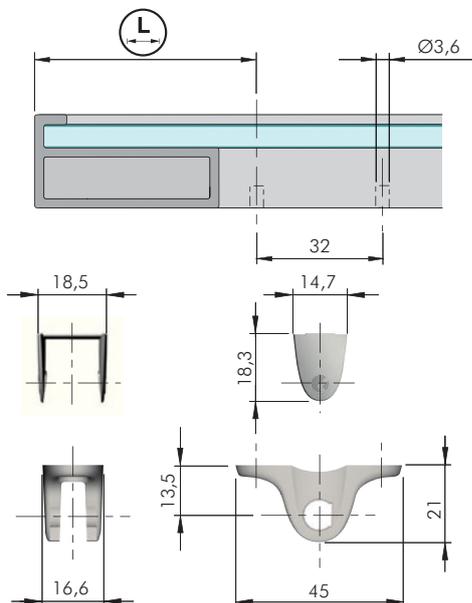


WIDER ALUMINIUM FRAME DOOR

Condition A



Assembling



42918010YC



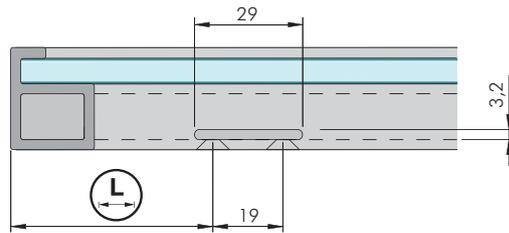
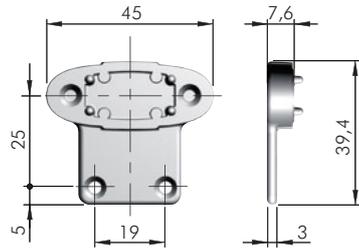
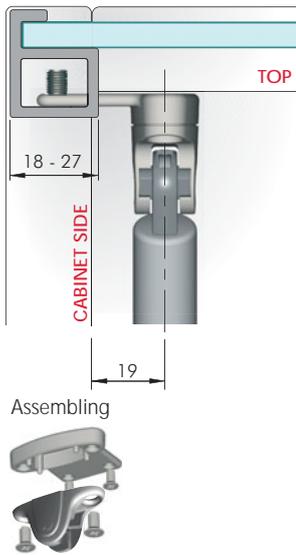
4291901000





NARROW ALUMINIUM FRAME DOOR

Condition B



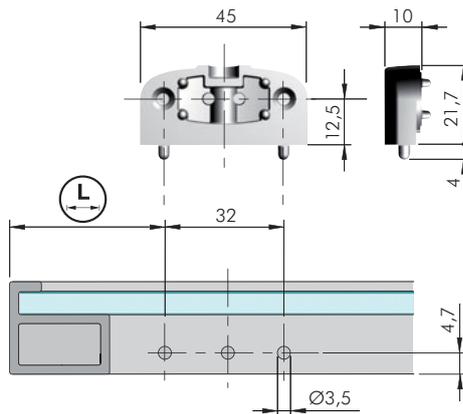
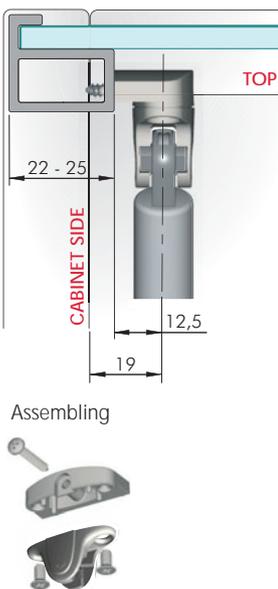
ZA = 100 pcs.

42903010YC

42918010YC

4291901000

Condition C



= Ø 3,5 mm = 100 pcs.

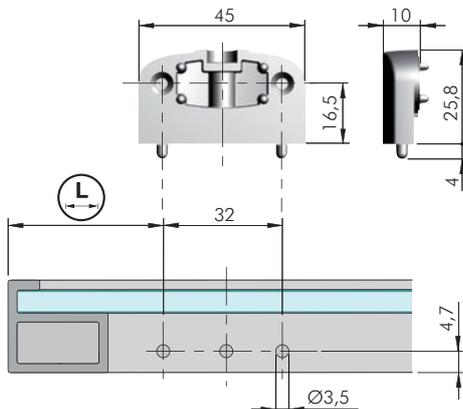
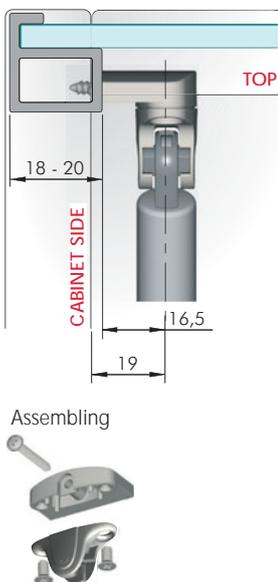
ZA

42904010YC

42918010YC

4291901000

Condition D



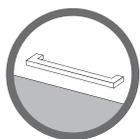
= Ø 3,5 mm = 100 pcs.

ZA

42905010YC

42918010YC

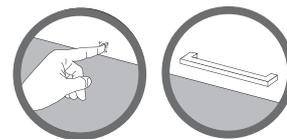
4291901000



KRABY	L	
164	31	37,5
244	68	74,5
355	119	125,5



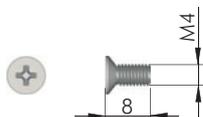
KRABY	L	
164	25	31,5
244	55	61,5
355	105	111,5



KRABY	L	
164	27	33,5
244	60	66,5
355	105	111,5

For details refer to related sections.

ALUMINIUM ADAPTERS FIXING ACCESSORIES



= PZ2



ST

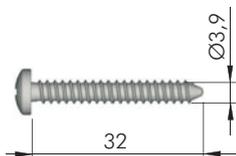


= on request



42906010YA

For wider aluminium frame and for condition A, B, C, D.



= PZ2



ST



= on request



60203410YA

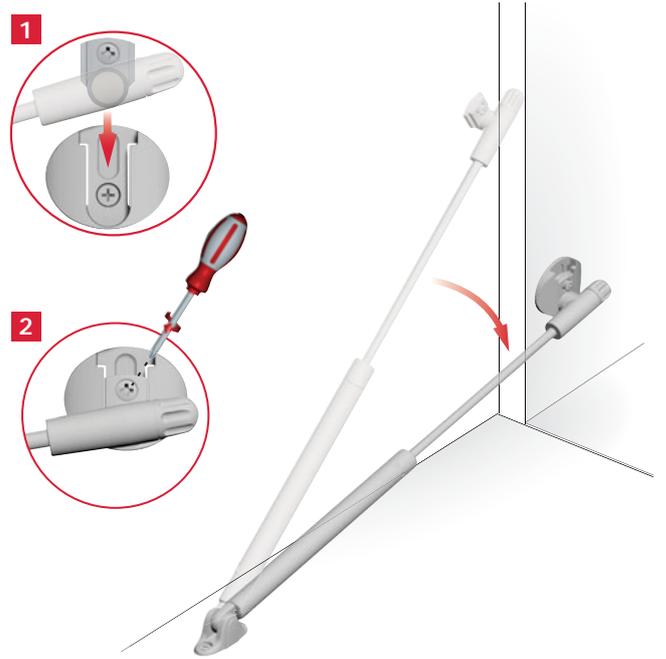
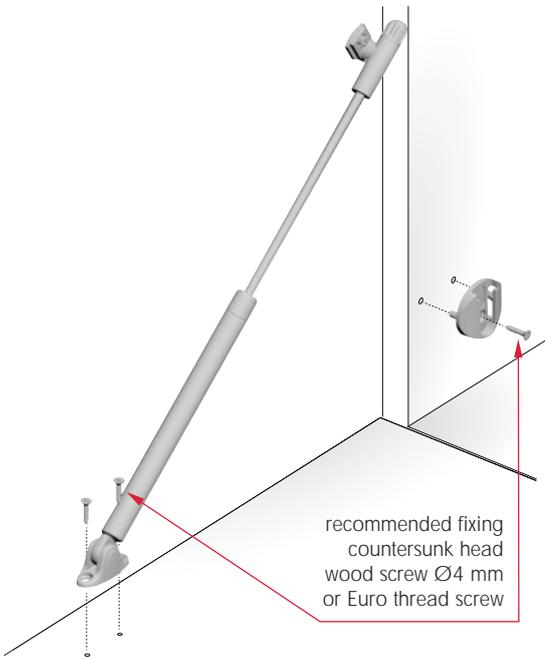
For condition C and D.



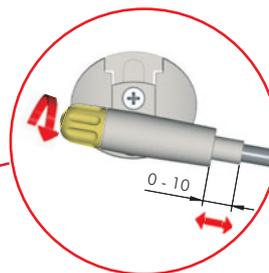
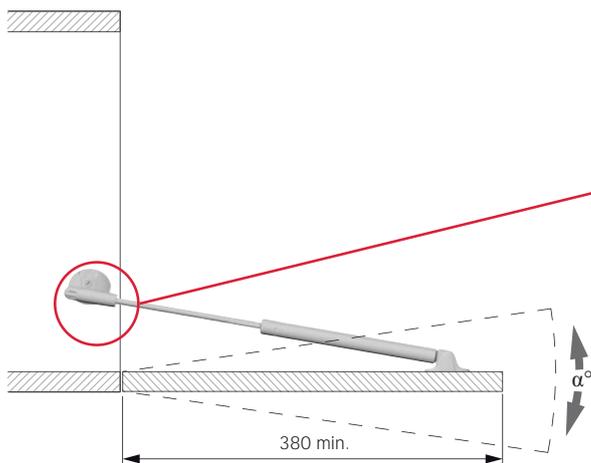
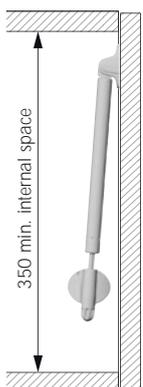
KRABY FOR WRITING DESK



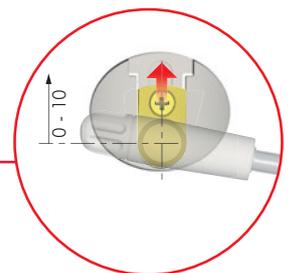
INSTALLATION



ADJUSTMENTS



INCREASE OPENING ANGLE
Rotate the rotary knob.



REDUCE OPENING ANGLE
Move forward and backward the piston base plate in the bracket slot.



DRILLING PLANS WITH KIMANA HINGE








 Magnet K Lock
visible or invisible

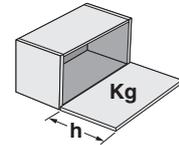
 K Push Tech 20 mm
- With magnet
- Visible or invisible

For details refer to section
"PUSH CATCHES & MAGNETIC CATCHES".

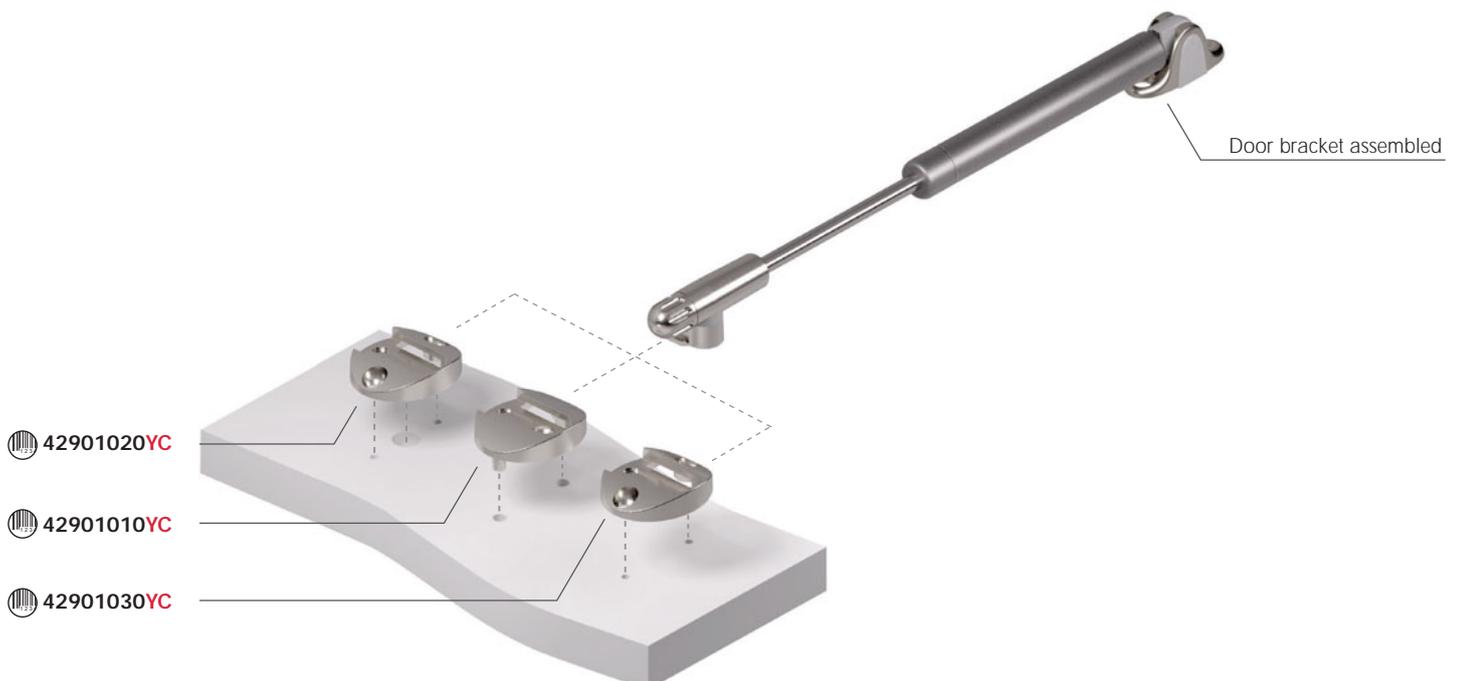
Number of stays chart

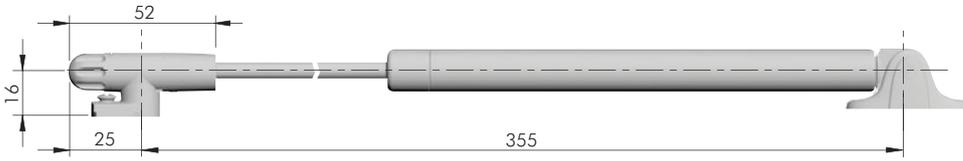
Rev. 00

h	Door weight (Kg)												
	1	2	3	4	5	6	7	8	9	10	11	12	
380 - 450										2 x Kraby			
451 - 550										2 x Kraby			



These are experimental results to be checked by the customer. Our technical department is at your disposal to test further cases out of this chart.
In accordance with the actual European regulation, it is necessary to use two lid stays for each door.



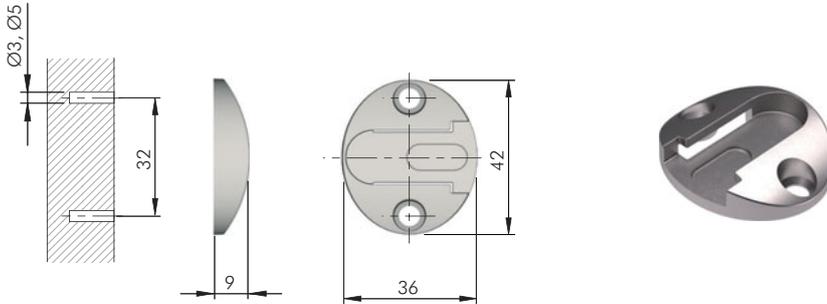


ZAnk EP ST = 50 pcs.



42250030UZ

SIDE BRACKETS DRILLING PLANS

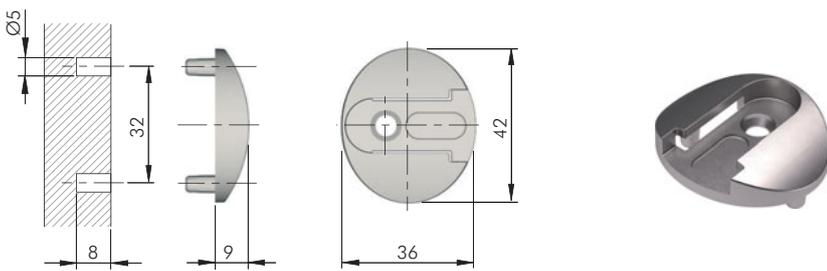


= Ø 3, Ø 5 mm

ZA = 100 pcs.



42901030YC

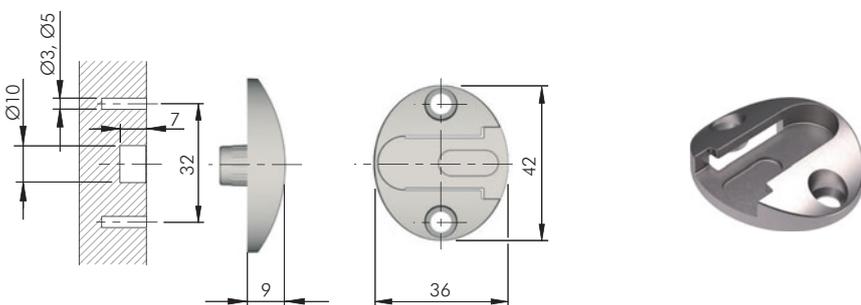


= Ø 5 mm

ZA = 100 pcs.



42901010YC



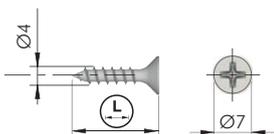
= Ø 3, Ø 5 mm + Ø 10 mm

ZA = 100 pcs.



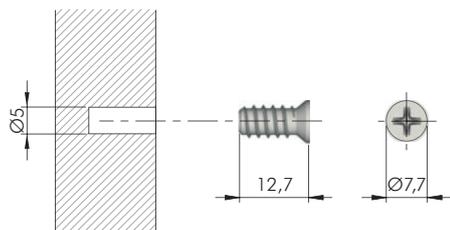
42901020YC

FIXING ACCESSORIES



= Ø 2,5 mm +
 = PZ2
 = 10.000 pcs.

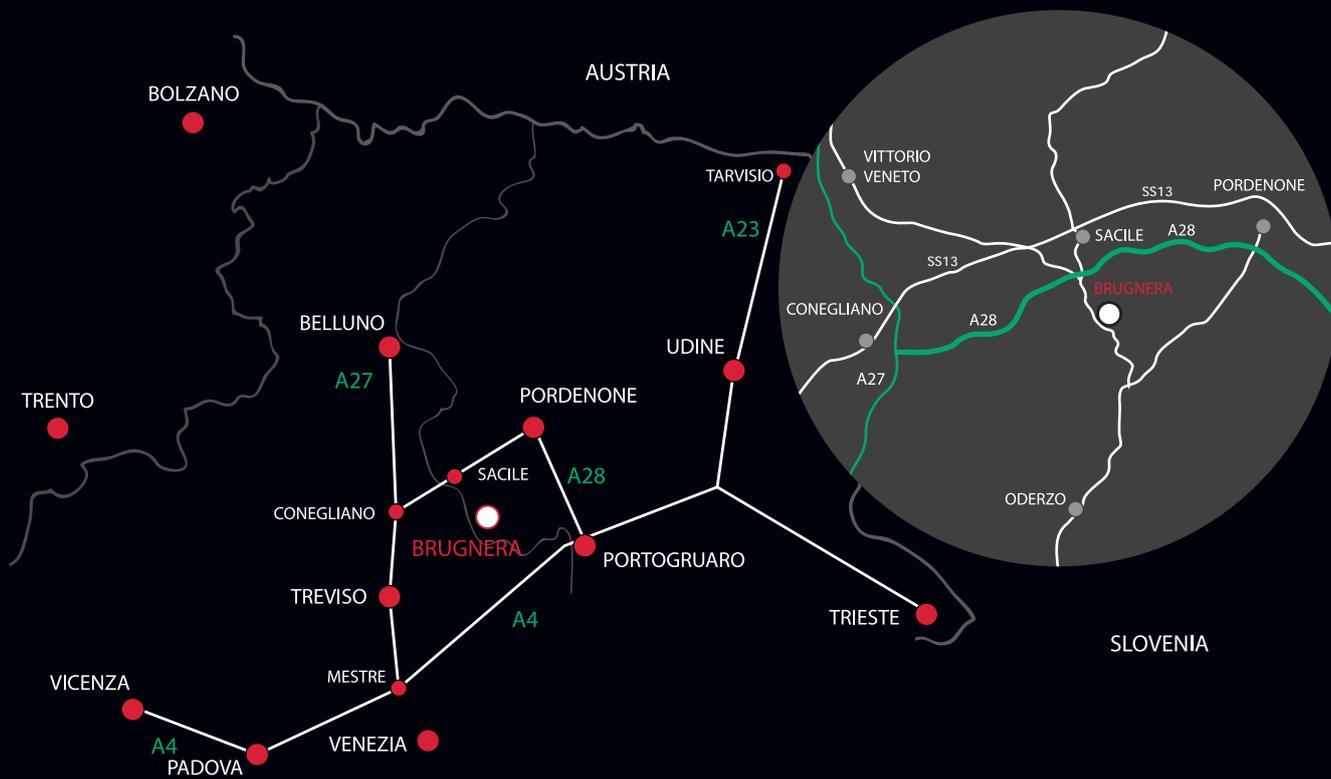
60101570YA		16
60101580YA		18



= Ø 5 mm +
 = PZ2
 = 5000 pcs.

60501050YA	





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