



SE Lift Push 960-2050 PF Heavy Weight

Part Number: 105-SE02P-AH

DTC Top Stays SE Push-Open Series Lift System 960-2050 PF Heavy Weight

A compact lift arm opening solution for upper cabinets that works in combination with hinges. Not sure which one to order? Try our easy-to-use Power Factor Calculator.

Angle	105
Application Type	Flap Door
Closing Type	Push-Open
Door Height Range	240 to 600 mm
Force	H (Heavy)
Min. Cabinet Depth	125mm (4-7/8")
Opening Type	Push-Open
Power Factor Range	960 - 2050
Spring Colour	White

Product Description

The Top Stays SE Push-Open series lift arm is DTC's most economical and compact flap door lift solution. Working in combination with unsprung hinges, the SE series is a perfect choice for your upper cabinet doors in any project.

Easy open with a sophisticated spring arm design that allows the door to open effortlessly and stay open at any position, with built in adjustment to compensate for your door's size and weight.

Product Advantages

- Opening Angle: 105°
- Easy to open with low force
- Stays open at any desired position
- Push-Open with magnetic push catch included
- Door Adjustments via hinges
- Tool-free assembly and removal

Important Information

Hinges sold separately. We recommend unsprung hinges to be used with this product, not soft-close or self-close hinges. [DTC Unsprung Hinges are available in part # 105-CA80A675N](#). For cabinets wider than 900mm or when the power factor is over 1800, we recommend 3 hinges. For cabinets wider than 1200mm or when the power factor is over 2700, we recommend 4 hinges.


Power Factor Formula

How to Order? [Use our easy Power Factor Calculator:](#)

Power Factor = Cabinet Height (in mm) x Door Weight (in kg) including 2x handle weight.
The supported power factor is doubled when a second lift mechanism is installed.




Technical Documents



Top Stays SE Push Series

Technical Specifications & Assembly

Top Stays SE Push Standard Kit



Product Features

The Top Stay SE series is DTC's most economical and compact flap door lift. Working in combination with Unsprung hinges, the SE series is a perfect choice for your upper cabinet doors in any project.

- Opening angle: 105°
- Easy to open and stays at any desired position
- Silent and Push-Open
- Side, height and depth adjustment
- Tool free assembly and removal
- Certified to 40,000 cycles

Top Stays SE lift systems

Description	Part#
200-1000 / Light	105-SE02P-AL
500-1500 / Medium	105-SE02P-AM
960-2350 / Strong	105-SE02P-AH

Top Stays SE Optional Components

Description	Part#
Front Fixing Brackets Aluminum Doors	105-SE00CQ
Front Fixing Brackets for Narrow Frame Door	105-SE00H

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View this product online at <https://marathonhardware.com/pd/105-SE02P-AH>



Technical Documents

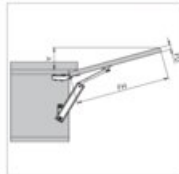
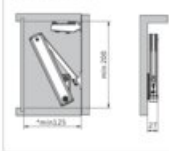
SE Series Push-open Lifting System Installation

Installation Dimensions(mm)

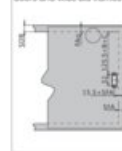
Peg position and space requirement



Space requirement



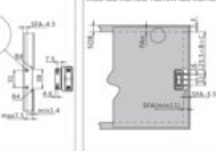
Door Assembly - wooden doors and wide alu frames



Door Assembly - narrow alu frames



Door Assembly - wooden doors/ wide alu frames/ narrow alu frames



SOB Top panel thickness

B Hinge mounting plate height

B	0mm	2mm	4mm	8mm	18mm
Mounting plate	H=0	H=2	H=4	H=8	H=18

C Hinge overlay

C	0mm	8.5mm
Full overlay	Full overlay	Half overlay
Inset	Inset	Inset

* Minimum 200mm for suspension bracket application

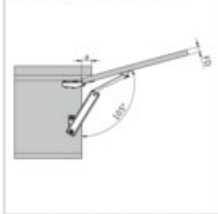
$$Y = (FH - a) \times 0.3$$

FH=Front height

FD (mm)	16	18	22	24
a (mm)	45	34	23	15

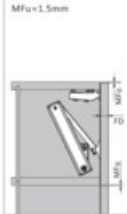
Installation Dimensions(mm)

Comice/crown moulding clearance



FD (mm)	16	18	22	24
a (mm)	45	34	23	15

Minimum gap MFu=1.5mm



K (mm)	3	4	5	6	Mounting plate
D (mm)	13	14	15	16	H=0
	11	12	13	14	H=4
	6	7	8	9	H=9

K=Drilling distance D=Required door overlay

FD=	16	17	18	19	20	21	22	23	24	25	26
K=3 MFu=	0.7	0.9	1.2	1.5	1.8	2.2	2.6	3.2	3.8	4.5	5.3
K=4 MFu=	0.7	0.9	1.1	1.4	1.8	2.1	2.5	3.0	3.5	4.4	4.9
K=5 MFu=	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.9	3.4	3.9	4.6
K=6 MFu=	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.8	3.2	3.8	4.4

F: Gap

FA: Top panel overlay

MFu: Bottom Min. gap

MFo: Top Min. gap

SFA: Side panel overlay= side thickness - gap

FD: Door thickness

T1 Kit package including



Calculating power factor LF of stay

Stays package	Power factor	Weight	Dynamic	Static	Spring/roller
105-002P-AL	200-2000	Light	Light grey	Light grey	Spring/roller
105-002P-AM	100-1400	Medium	Dark grey	Dark grey	Spring/roller
105-002P-AX	900-2000	Strong	White	White	Spring/roller

LF=KH x (weight door + 2 x weight handle)
The power factor can be double when a second lift mechanism is used.



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Technical Documents

Prüfbericht - Produkte
Test Report - Products



Prüfbericht-Nr.: Test report no.:	NN20YV6C 001	Auftrags-Nr.: Order no.:	170253174 10	Seite 1 von 6 Page 1 of 6
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2020.10.12	
Auftraggeber: Client:	GUANGDONG DONGTAI HARDWARE PRECISION MANUFACTURING CO., LTD Industry Road, Leliu Port, Leliu, Shunde, Foshan, Guangdong, China			
Prüfgegenstand: Test item:	TOP STAYS			
Bezeichnung / Typ-Nr.: Identification / Type no.:	SE2FAM01A			
Auftragsinhalt: Order content:	Mechanical safety test with client's requirement			
Prüfgrundlage: Test specification:	EN 15828:2010 (Clause 6.3.6)			
Wareneingangsdatum: Date of sample receipt:	2020.10.12			
Prüfmuster-Nr.: Test sample no.:	A002925802-001			
Prüfzeitraum: Testing period:	2020.10.12 - 2020.10.27			
Ort der Prüfung: Place of testing:	Unit 201, NO.7 Caipin Road, GuangZhou, China			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.			
Prüfresultat: Test result:	Pass			
geprüft von: tested by:	<u>X Jun Huang</u>		genehmigt von: authorized by:	<u>X [Signature]</u>
Datum: Date:	2020.11.24 <small>Signed by: Jun Huang</small>		Ausstellatum: Issue date:	2020.11.24 <small>Signed by: [Signature]</small>
Stellung / Position:	Senior Test Engineer		Stellung / Position:	Reviewer
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>* Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p> <p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</p>				

TÜV Rheinland (Guangdong) Ltd. No.199 Kezhu Road, Guangzhou Science City, Guangzhou 510663, Guangdong Province P.R. China
Mail: service@de.tuv.com · Web: www.tuv.com

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