



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

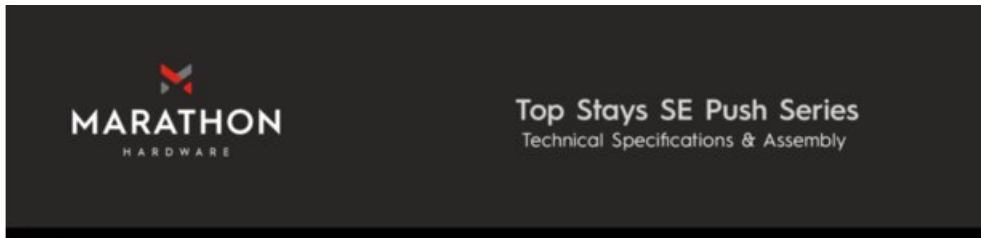
How to Order? [Use our easy Power Factor Calculator:](#)



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 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 hole | H+0 | H+2 | H+4 | H+9 | H+18 |

C Hinge overlay

| | |
|------------------|--------------------|
| 0mm Full overlay | 8.5mm Half overlay |
| 18mm Short | |

Y=(FH-a)×0.3

FH=Front height

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

Installation Dimensions(mm)

Cornice/crown moulding clearance

Minimum gap MFu=1.5mm

| Ky(mm) | 3 | 4 | 5 | 6 | Mounting plate |
|--------|----|----|----|----|----------------|
| | 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 MFo= | 0.7 | 0.9 | 1.2 | 1.5 | 1.8 | 2.2 | 2.6 | 3.2 | 3.8 | 4.5 | 5.3 |
| K=4 MFo= | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 | 2.1 | 2.5 | 3.0 | 3.5 | 4.4 | 4.9 |
| K=5 MFo= | 0.6 | 0.9 | 1.1 | 1.4 | 1.7 | 2.0 | 2.4 | 2.9 | 3.4 | 3.9 | 4.6 |
| K=6 MFo= | 0.8 | 1.1 | 1.3 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.8 | 4.4 | |

F: Gap **FAo: Top panel overlay** **SFA: Side panel overlay= side thickness - gap**

MFu: Bottom Min. gap **FD: Door thickness**

MFo: Top Min. gap

T1 Kit package including

Calculating power factor LF of stay

| Min. weight (kg) | Power factor | Rolling height (mm) | Dynamic | Roller type |
|------------------|--------------|---------------------|---------|-------------|
| 105-502P-AL | 200-2000 | 675 | Light | Light grey |
| 105-502P-AH | 500-1400 | 240-600mm | Medium | Dark grey |
| 105-502P-AL | 600-2000 | | Strong | White |

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



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) | | | |
| Wareneingangdatum: 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 Jon Huang</u> | genehmigt von: authorized by: | <u>X [Signature]</u> | |
| Datum: Date: | 2020.11.24 <small>Signed by Jon 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. <i>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.</i></p> | | | | |

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