





PUSH-OPEN FREE-STOP SLIM UPWARD DOOR LIFT SYSTEM

TCH-313000 327.T



Features

- Slim compact design
- Free-stop functionality range: 40°–100°
- Force adjustable
- Hinge-required system.
- Recommended for use with the T-XT hinge series, featuring integrated opening angle restrictors (85°, 95°, 105°) and a built-in soft-open mechanism
- Compatible cabinet dimensions
 - Height: (10¼") 260 mm to (24") 600 mm
 - Front weight: (3.3 lb - 30.2 lb) 1.5 kg - 13.7 kg
- Sold as a each

Color options



Usage Recommendations

SKU	LF-Based Selection		Weight-Based Selection						Required QTY
	Cabinet Height	LF	Cabinet Height (KH)		Front Weight (LB)		Front Weight (KG)		
			IN	MM	Min.	Max.	Min.	Max.	
TCH-313000 337.T.L	10.25" - 16" 260 mm - 400 mm	52.1 - 104.2 in·lb 600 - 1200 mm·kg	10.25	260	5.1	10.1	2.3	4.6	1
			12	300	4.4	8.8	2.0	4.0	
			14	350	3.7	7.5	1.7	3.4	
	10.25" - 16" 260 mm - 400 mm	104.2 - 208.3 in·lb 1200 - 2400 mm·kg	16	400	3.3	6.6	1.5	3.0	2
			10.25	260	10.1	20.3	4.6	9.2	
			12	300	8.8	17.6	4.0	8.0	
TCH-313000 337.T.M	10.25" - 16" 260 mm - 400 mm	93.7 - 164.0 in·lb 1080 - 1890 mm·kg	14	350	7.5	15.0	3.4	6.8	1
			16	400	6.6	13.2	3.0	6.0	
			10.25	260	9.0	15.9	4.1	7.2	
	12" - 20" 300 mm - 500 mm	213.4 - 328.0 in·lb 2460 - 3780 mm·kg	12	300	7.9	13.9	3.6	6.3	2
			14	350	6.6	12.3	3.0	5.6	
			16	400	6.0	10.4	2.7	4.7	
TCH-313000 337.T.H	16" - 24" 400 mm - 600 mm	125.0 - 238.7 in·lb 1440 - 2750 mm·kg	12	300	18.1	27.8	8.2	12.6	1
			14	350	15.4	23.8	7.0	10.8	
			16	400	13.4	20.7	6.1	9.4	
	16" - 24" 400 mm - 600 mm	250.0 - 477.4 in·lb 2880 - 5500 mm·kg	16	400	7.9	15.0	3.6	6.8	2
			18	450	7.1	13.4	3.2	6.1	
			20	500	6.2	12.1	2.8	5.5	
			22	550	5.7	11.0	2.6	5.0	
			24	600	5.3	9.9	2.4	4.5	
			16	400	15.9	30.2	7.2	13.7	
18	450	14.1	26.9	6.4	12.2				
20	500	12.6	24.3	5.7	11.0				
22	550	11.5	22.0	5.2	10.0				
24	600	10.6	20.1	4.8	9.1				

Note:

Door weight is calculated using a standard density factor of 0.00000072 (Metric: 720 kg/m³ | Imperial: ≈ 0.026 lb/in³). Values shown are estimates and should be verified against the actual door weight for final product selection.

Key Definitions:

- KH = Cabinet Height.

Lift Force (LF) Formula:

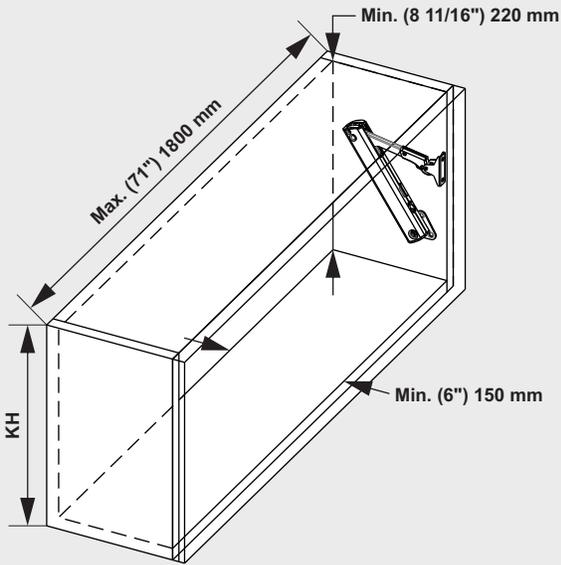
- LF = KH × [Door Weight + (Handle Weight × 2)]

Model Selection Criteria:

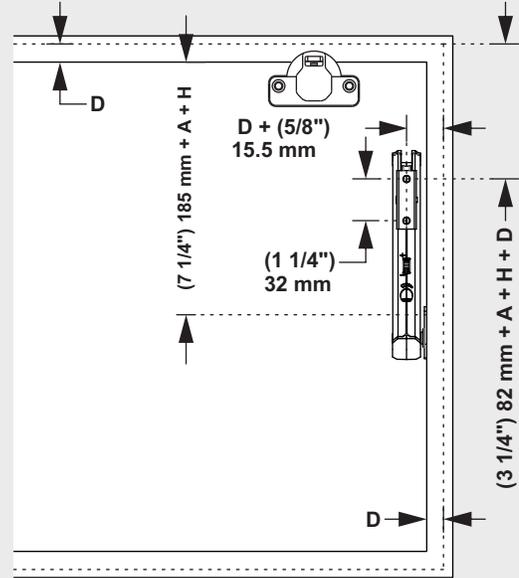
- If the LF value falls within an overlapping range, always choose the larger model to ensure optimal performance and longevity.
- If the LF falls outside the standard range, a customized configuration is recommended to meet your cabinet's specific requirements.

General Informations

Cabinet specification



KH (10 1/4") 260 mm - (24") 600 mm



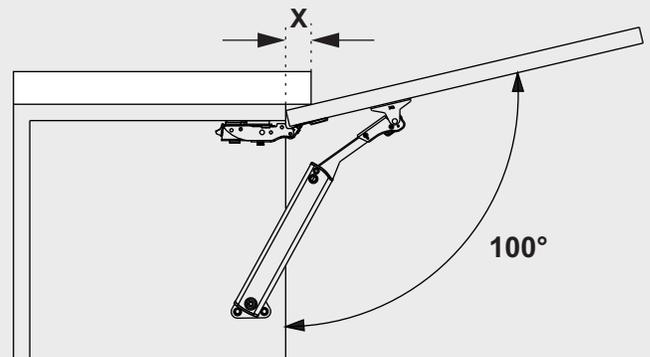
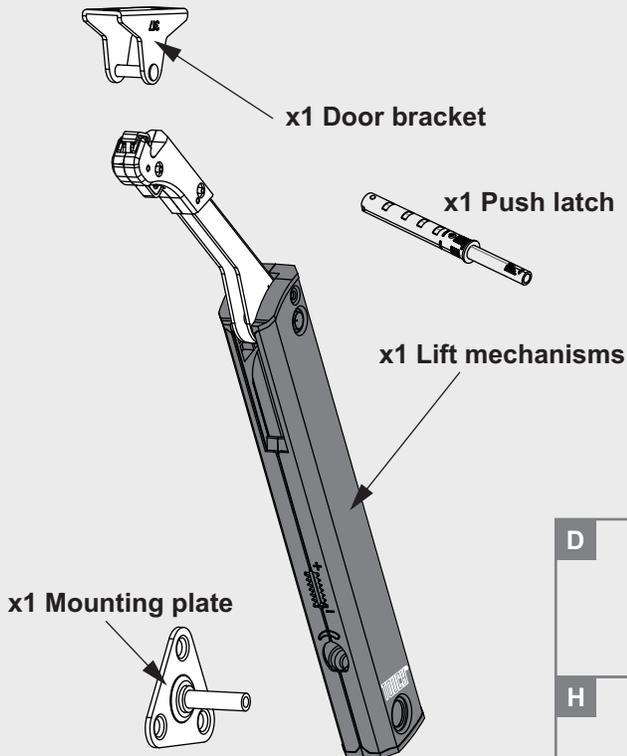
A = Hinge Arm Crank

- Straight Arm Crank: A = 0 mm
- Half-Cranked Arm: A = 9.5 mm
- Full-Cranked Arm: A = 18 mm

H = Mounting plate height

D = Overlay

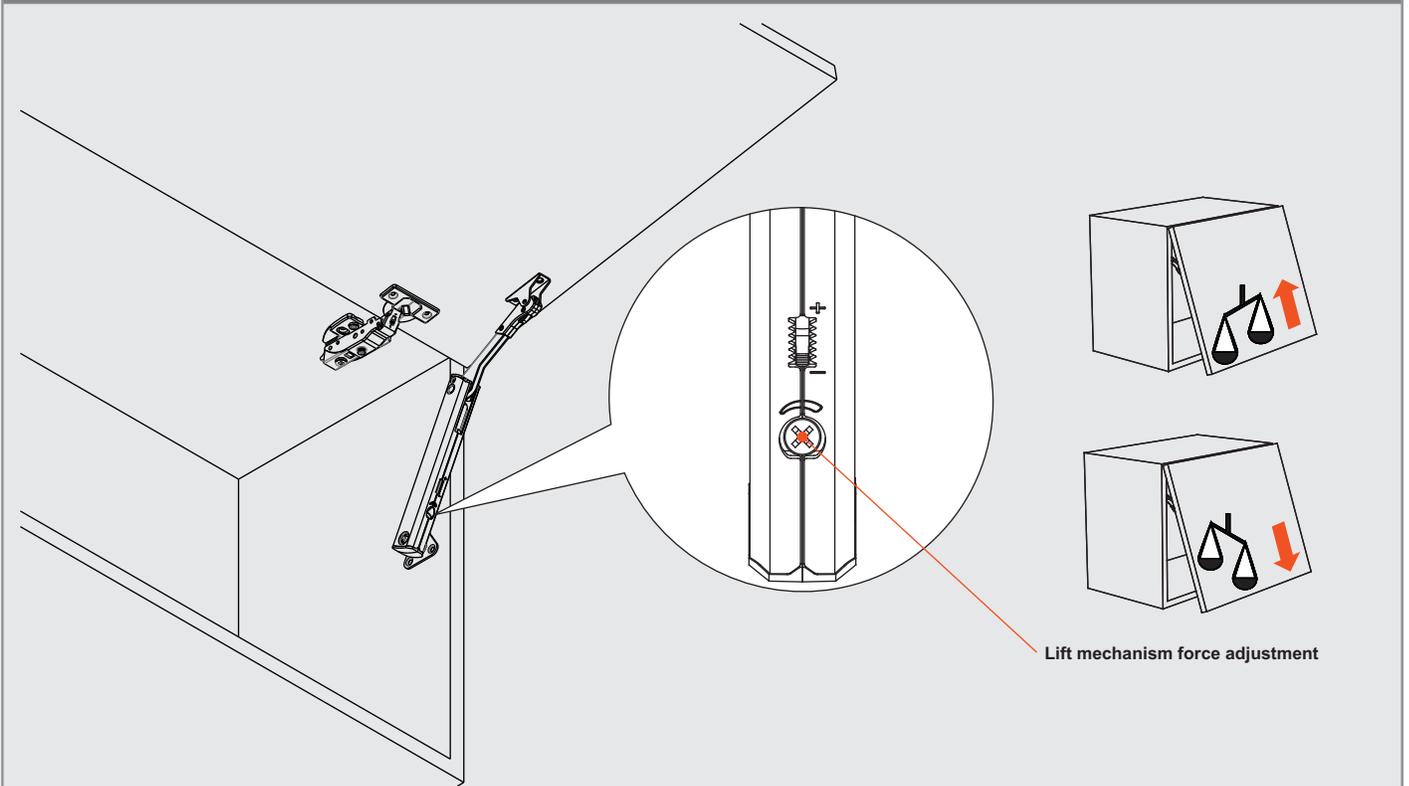
Included components



Door thickness	MM	16	19	22	25
	IN	0.6	0.8	0.9	1
X	MM	42	31	20	12
	IN	1.7	1.2	0.8	0.5

D	x1	E	x1	F	x1	G	x5
H	x1			I	x1		

Lift mechanism force adjustment



Panel alignment adjustment

