





FREE-STOP SLIM UPWARD DOOR LIFT SYSTEM

TCH-313000 327.S



Features

- Slim compact design
- Free-stop functionality range: 40°–100°
- Force adjustable
- Hinge-required system.
- Recommended for use with the T-X hinge series, featuring integrated opening angle restrictors (85°, 95°, 105°) and a built-in soft-close mechanism
- Compatible cabinet dimensions
 - Height: (10¼") 260 mm to (24") 600 mm
 - Front weight: (3.0 lb - 23.0 lb) 1.4 kg - 10.5 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.S.L	10.25" - 16" 260 mm - 400 mm	50.0 - 90.3 in·lb 576 - 1040 mm·kg	10.25	260	4.9	8.8	2.2	4.0	1
			12	300	4.2	7.7	1.9	3.5	
			14	350	3.5	6.6	1.6	3.0	
	10.25" - 16" 260 mm - 400 mm	88.5 - 166.6 in·lb 1020 - 1920 mm·kg	16	400	3.1	5.7	1.4	2.6	2
			10.25	260	9.5	17.6	4.3	8.0	
			12	300	7.5	14.1	3.4	6.4	
TCH-313000 337.S.M	10.25" - 16" 260 mm - 400 mm	104.2 - 148.4 in·lb 1200 - 1710 mm·kg	14	350	6.4	12.1	2.9	5.5	1
			16	400	5.7	10.6	2.6	4.8	
			10.25	260	10.1	14.6	4.6	6.6	
	12" - 20" 300 mm - 500 mm	187.5 - 282.1 in·lb 2160 - 3250 mm·kg	12	300	8.8	12.6	4.0	5.7	2
			14	350	7.5	10.8	3.4	4.9	
			16	400	6.6	9.5	3.0	4.3	
12			300	15.9	23.8	7.2	10.8		
14			350	13.7	20.5	6.2	9.3		
16			400	11.9	17.9	5.4	8.1		
TCH-313000 337.S.H	16" - 24" 400 mm - 600 mm	143.2 - 182.3 in·lb 1650 - 2100 mm·kg	18	450	10.6	15.9	4.8	7.2	1
			20	500	9.5	14.3	4.3	6.5	
			16	400	9.0	11.7	4.1	5.3	
	16" - 24" 400 mm - 600 mm	277.7 - 364.5 in·lb 3200 - 4200 mm·kg	18	450	8.2	10.4	3.7	4.7	2
			20	500	7.3	9.3	3.3	4.2	
			22	550	6.6	8.4	3.0	3.8	
16" - 24" 400 mm - 600 mm	277.7 - 364.5 in·lb 3200 - 4200 mm·kg	24	600	6.2	7.7	2.8	3.5	2	
		16	400	17.6	23.1	8.0	10.5		
		18	450	15.7	20.5	7.1	9.3		
16" - 24" 400 mm - 600 mm	277.7 - 364.5 in·lb 3200 - 4200 mm·kg	20	500	14.1	18.5	6.4	8.4	2	
		22	550	12.8	16.8	5.8	7.6		
		24	600	11.7	15.4	5.3	7.0		

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:

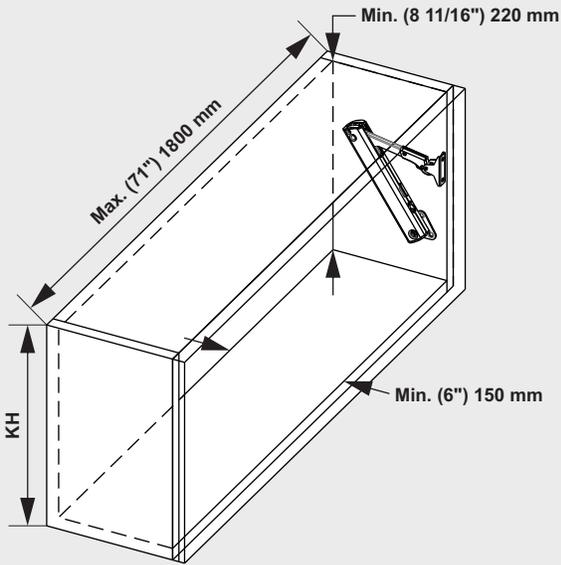
- LF = KH × [Door Weight + (Handle Weight × 2)]

Model Selection Criteria:

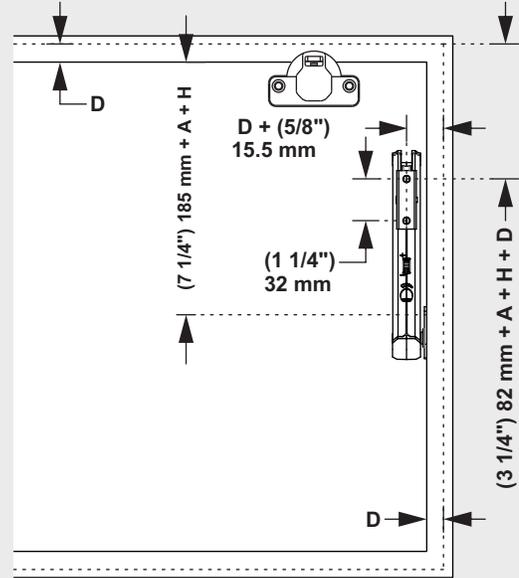
- If the LF value falls within an overlapping range, always choose the larger model to ensure optimal performance and longevity.
- If the LF falls outside the standard range, a customized configuration is recommended to meet your cabinet's specific requirements.

General Informations

Cabinet specification



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



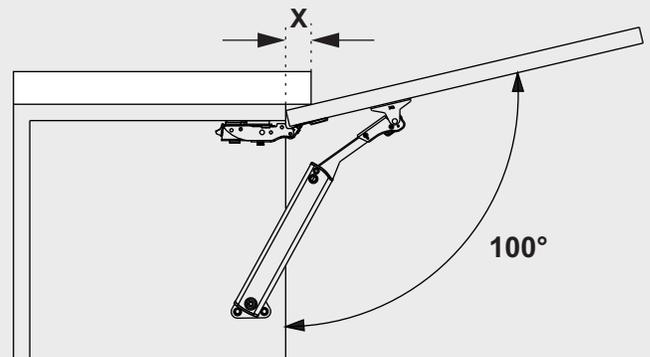
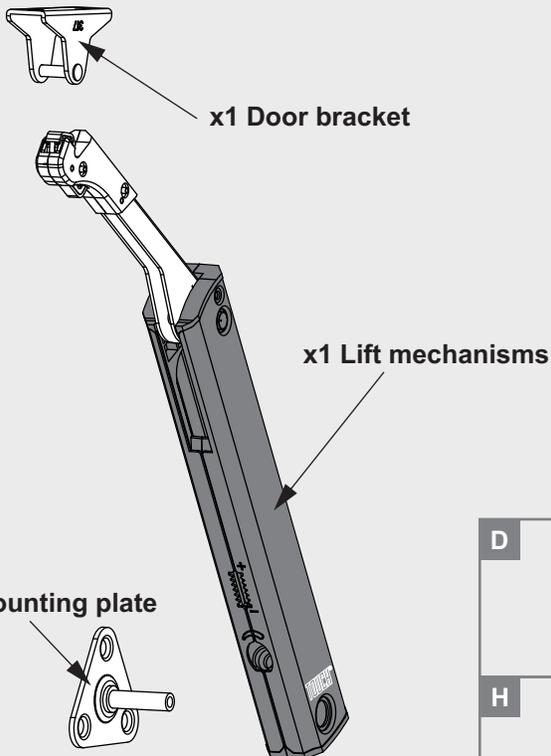
A = Hinge Arm Crank

- 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

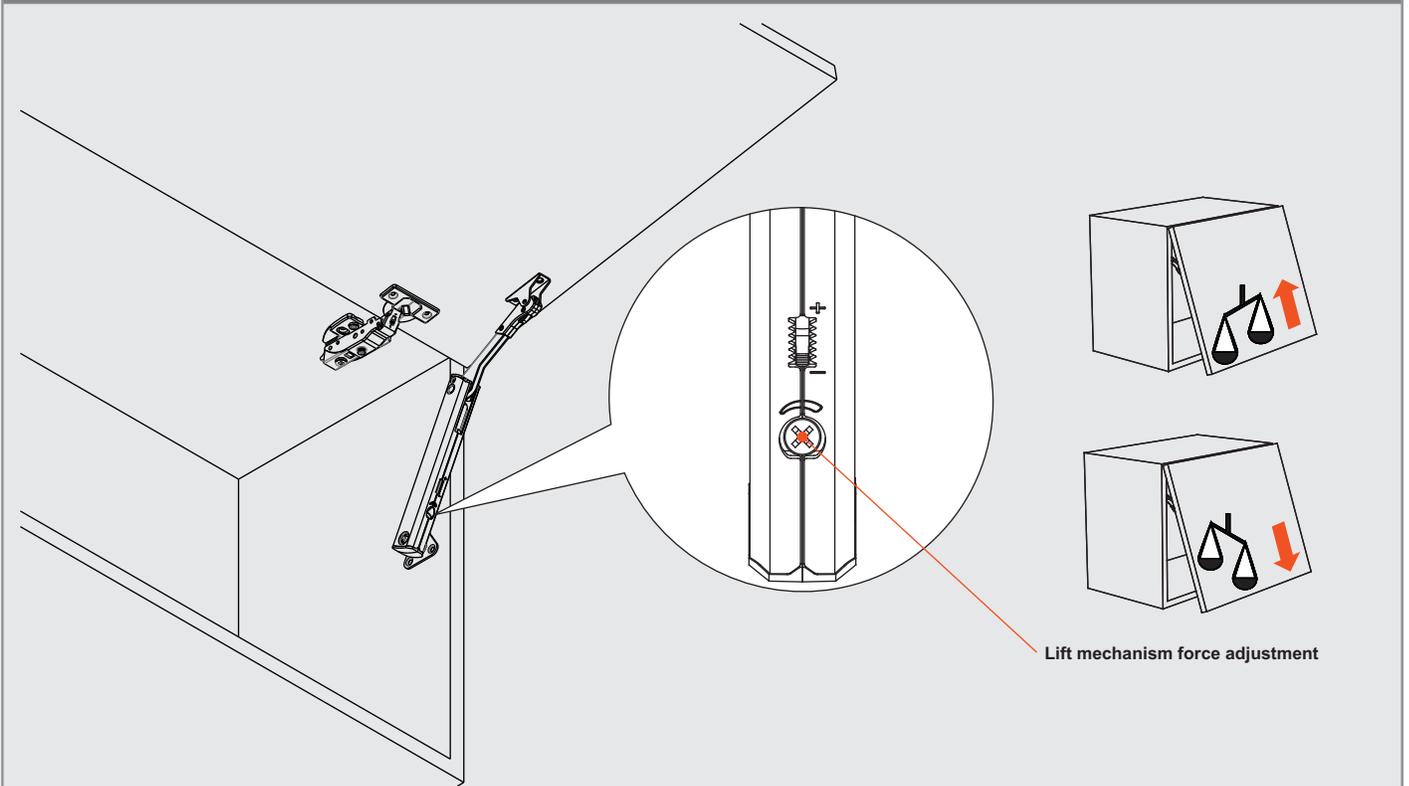
Included components



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

