

# **TIP-ON for AVENTOS**

Opening feature for AVENTOS HK and HK-S lift systems







# Opening with a simple touch

TIP-ON for AVENTOS is an excellent solution for handeless doors. The mechanical opening feature allows you to simply push the door front to open. For a secure close, simply press lightly on the front and the catch plate attached to the inside of the door front. It's that easy. TIP-ON for AVENTOS HK and HK-S provides a unique solution for kitchen and office applications.



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#### TIP-ON for AVENTOS HK

**BLUMOTION** inside

TIP-ON inside

# A complete View of the cabinet interior







#### Few parts - many applications

The AVENTOS HK program has only four lift mechanisms and covers all common door widths and heights. This simplifies planning, ordering and warehousing.

#### Numerous design options

AVENTOS HK can be used in wall cabinets, in a pantry or above a refrigerator or other appliance.

#### Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.









#### The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

#### **AVENTOS** planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

#### TIP-ON for AVENTOS HK

A perfect solution for handleless lift applications. TIP-ON mechanical support system makes opening doors effortless.

# TIP-ON for AVENTOS HK – panel cabinets

# **Required components** 4 3



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



#### Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight\* (lb)

\*including twice the handle weight

Cabinet height: 20 inches (within possible range)

Door weight including twice the handle weight: 13 lb 14 oz (14 oz = .9 lb see chart below)

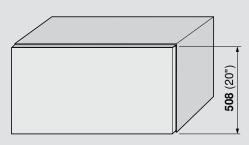
Total weight converted to decimal is 13.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 20 x 13.9

Power factor = 278

A power factor of 278 requires lift mechanism 20K2700.N5

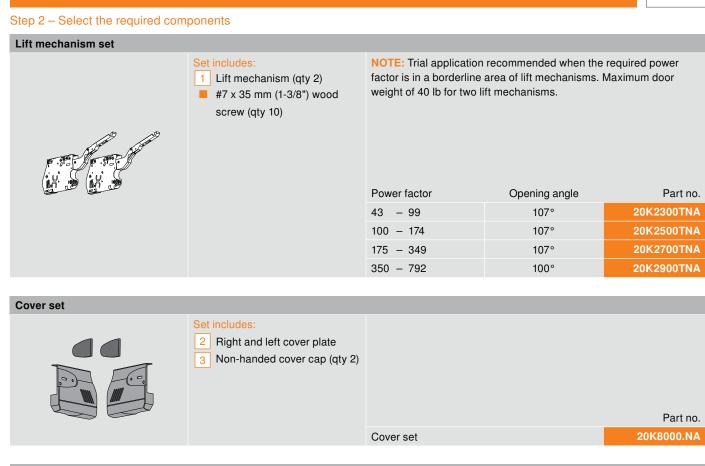


Door weight + twice handle weight = 13 lb 14 oz

	Weight conversion chart														
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

# Cabinet preparation for wood or wide aluminum doors





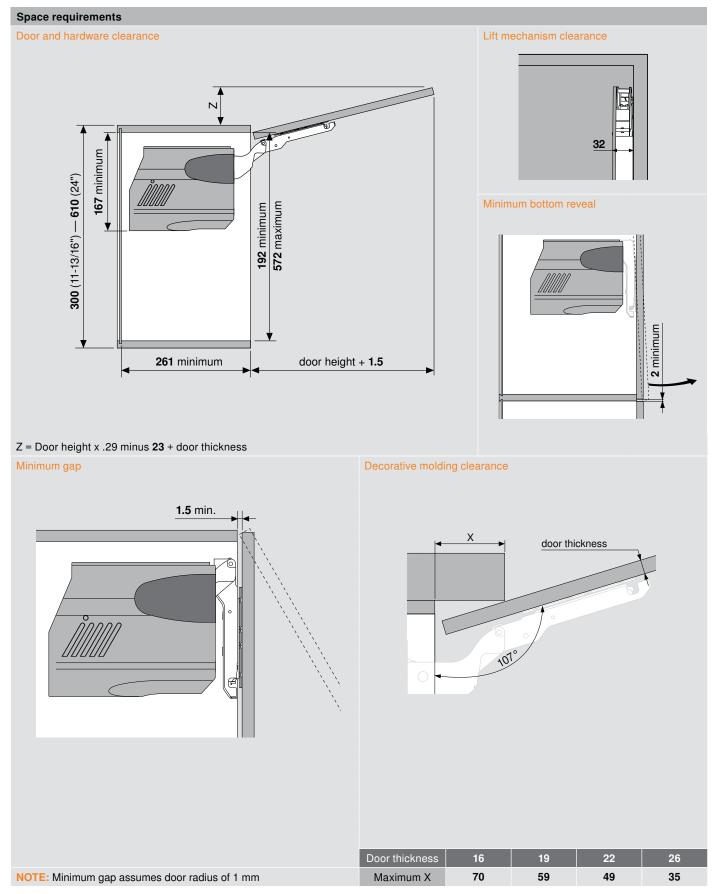
Wood or wide aluminum door hardware set								
	Set includes:  4 Arm assembly mounting plate (qty 2)		Part no.					
		Wood or wide aluminum hardware set	20\$4200					
		Installation screw for wood doors	606N or 606P					
		Installation screw for wide aluminum doors	7072A					

TIP-ON mechanism set									
	Set includes:  TIP-ON mechanism Self-adhesive, screw-on catch plate and screw	<ul><li>Works for both overlay and inset applications</li><li>Nylon gray</li></ul>							
			Part no.						
O	NOTE: Use of screw-on catch plate	TIP-ON mechanism set for standard doors	955.1004						
	is required for all applications	TIP-ON mechanism set for large doors	955A1004						

Opening angle restriction clip								
			Part no.					
		Opening angle restriction clip 100°	20K7041					
		Opening angle restriction clip 75°	20K7011					

# TIP-ON for AVENTOS HK – panel cabinets

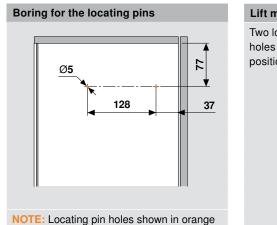
Step 1 - Check clearances



# Cabinet preparation for wood or wide aluminum doors

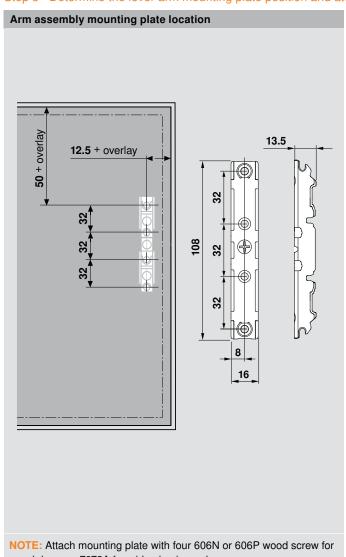


Step 2 - Mount the lift mechanisms

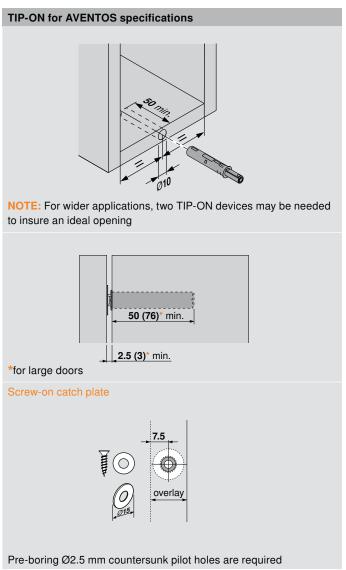


### Lift mechanism positioning Two locating pins fit into Ø5 mm x 5 mm The included #7 x 35 mm (1-3/8") wood holes bored in the side of cabinet for proper screws are required in the three holes positioning. marked in orange. 5 min. Ø5

Step 3 - Determine the lever arm mounting plate position and attach to the door



wood doors or 7072A for wide aluminum doors



Step 4 - Assemble the cabinet

Follow the assembly instructions included in the lift mechanism set or on www.blum.com

# TIP-ON for AVENTOS HK – panel cabinets

# **Required components**



Warning: Risk of injury by spring-loaded lever arm!

3

- Do not push lever arm down
- Secure lever arm before installing cabinet



#### Step 1 -Determine the power factor for the application

AVENTOS planning tools available at http://www.blum.com/us/planning

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

#### Power factor = cabinet height (inch) x door weight\* (lb)

\* including twice the handle weight

Cabinet height: 20 inches (within possible range)

Door weight including twice the handle weight: 13 lb 14 oz (14 oz = .9 lb see chart below)

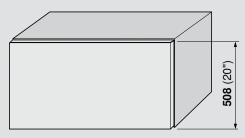
Total weight converted to decimal is 13.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 20 x 13.9

Power factor = 278

A power factor of 278 requires lift mechanism 20K2700.N5



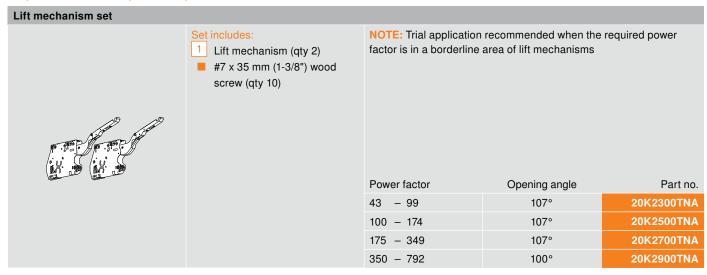
Door weight + twice handle weight = 13 lb 14 oz

	Weight conversion chart														
OZ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

# Ordering parts for narrow aluminum doors



#### Step 2 – Select the required components



Cover set			
	Set includes:  2 Right and left cover plate 3 Non-handed cover cap (qty 2)		
			Part no.
		Cover set	20K8000.NA

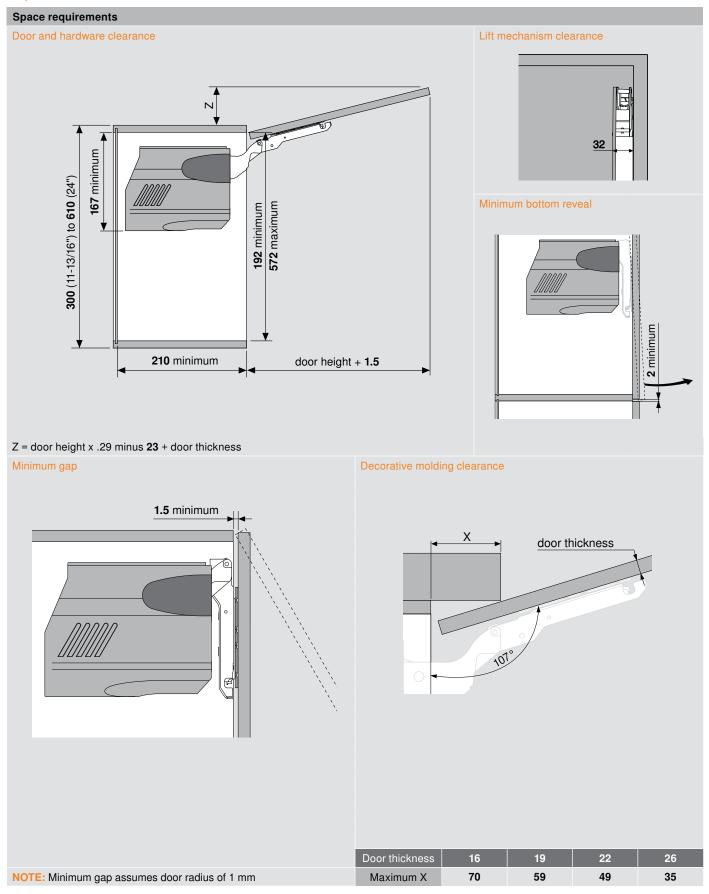
Narrow aluminum door hardware set									
	Set includes:  4 Arm assembly mounting plate (qty 2)  669.110 aluminum screw for narrow aluminum lever arm mounting plate (qty 8)	Narrow aluminum door hardware set	Part no. 20S4200A						

TIP-ON mechanism set									
	Set includes:  TIP-ON mechanism Self-adhesive, screw-on catch plate and screw	<ul><li>Works for both overlay and inset applications</li><li>Nylon gray</li></ul>	\$						
			Part no.						
O	NOTE: Use of screw-on catch plate	TIP-ON mechanism set for standard doors	955.1004						
	is required for all applications	TIP-ON mechanism set for large doors	955A1004						

Opening angle restriction clip								
			Part no.					
		Opening angle restriction clip 100°	20K7041					
		Opening angle restriction clip 75°	20K7011					

# TIP-ON for AVENTOS HK – panel cabinets

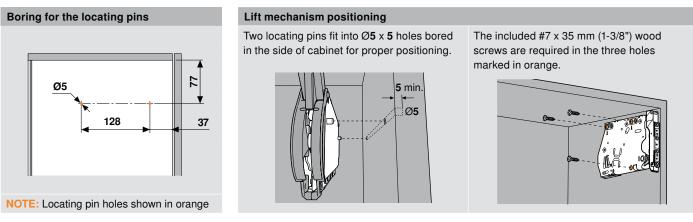
Step 1 - Check clearances



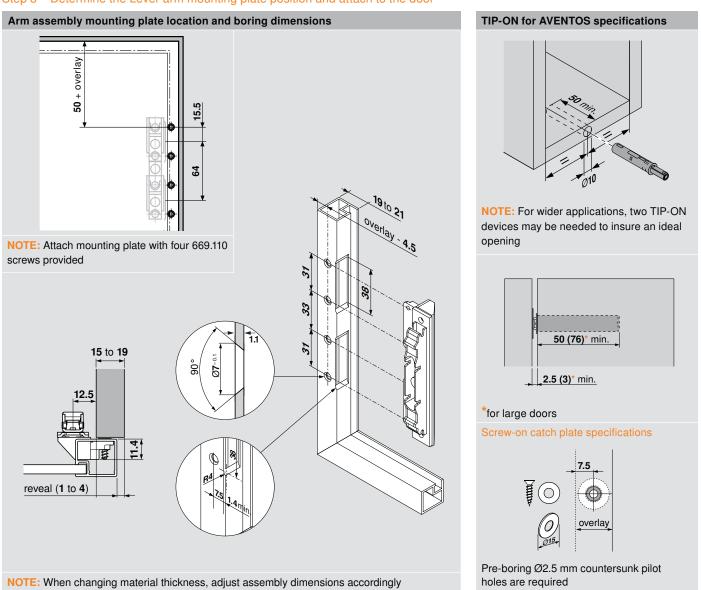
# Cabinet preparation for narrow aluminum doors



Step 2 - Mount the lift mechanisms



Step 3 - Determine the Lever arm mounting plate position and attach to the door



Step 4 - Assemble the cabinet

Follow the assembly instructions included in the lift mechanism set or on blum.com

#### TIP-ON for AVENTOS HK-S

**BLUMOTION** inside

inside

# Stay lift for the smallest of cabinets







#### Few parts - many applications

The AVENTOS HK-S program has only three lift mechanisms and covers smaller door heights. This simplifies planning, ordering and warehousing.

#### Numerous design options

AVENTOS HK-S can be used in small wall cabinets, above a refrigerator or in a pantry.

#### Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.









#### The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

#### **AVENTOS** planning tools

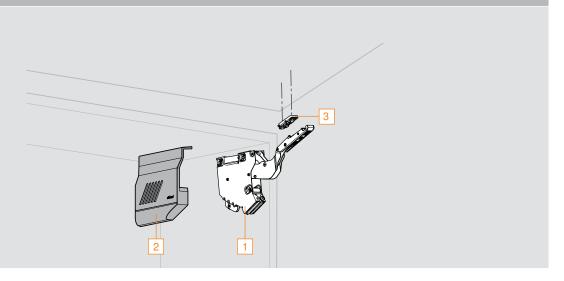
Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

#### TIP-ON for AVENTOS HK-S

A perfect solution for handleless lift applications. TIP-ON mechanical support system makes opening doors effortless.

# TIP-ON for AVENTOS HK-S – panel cabinets

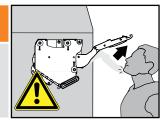
#### **Required components**





Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



#### Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

#### Power factor = cabinet height (inch) × door weight\* (lb)

\* Including twice the handle weight

#### Example:

Cabinet height: 9 inches (within possible range)

Door weight including twice the handle weight: 5 lb 14 oz (14 oz = .9 lb see chart below)

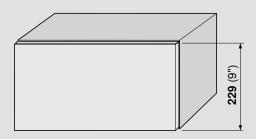
Total weight converted to decimal is 5.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 9 x 5.9

Power factor = 53.1

A power factor of 53.1 requires lift mechanism 20K2C00.N1



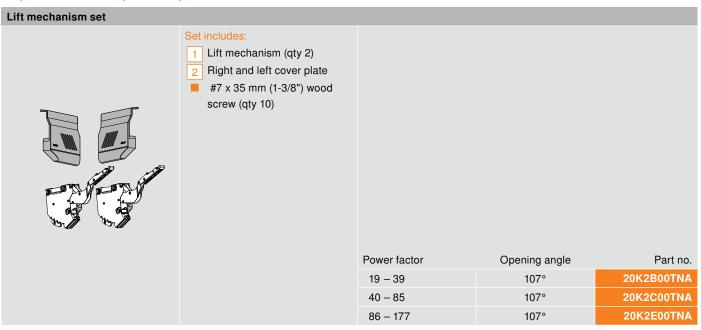
door weight + twice handle weight = 5 lb 14 oz

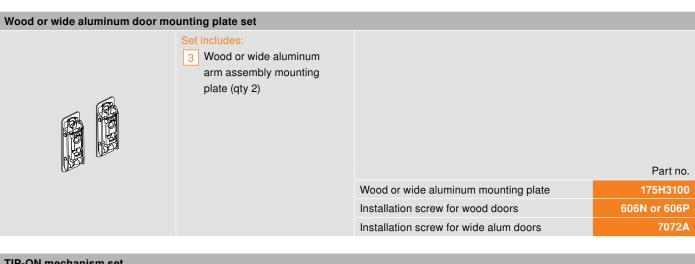
	weight conversion chart														
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

# Ordering parts for wood or wide aluminum doors



#### Step 2 – Select the required components



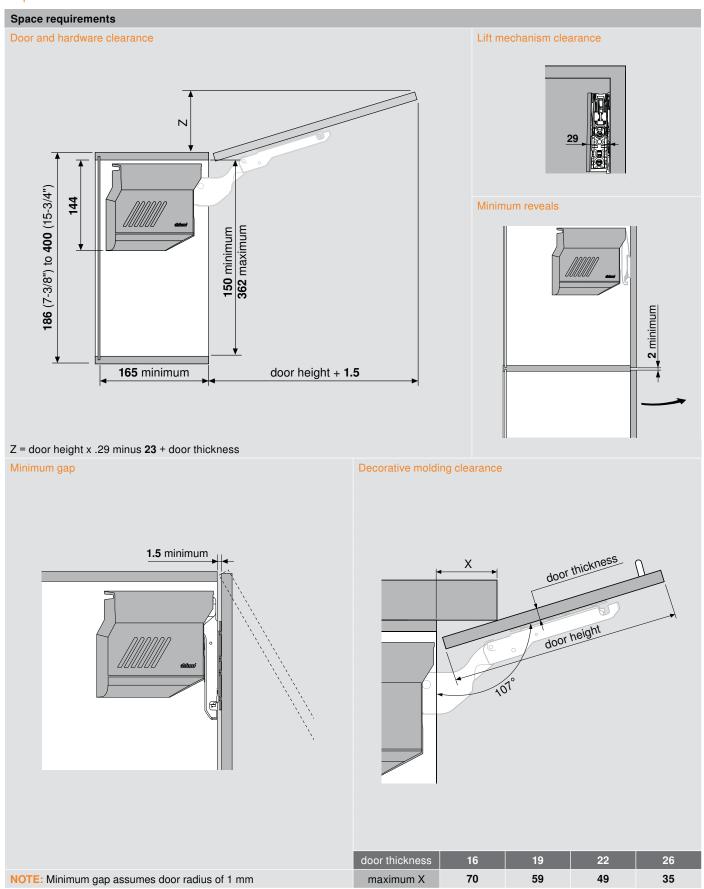


TIP-ON mechanism set									
	Set includes:  TIP-ON mechanism Self-adhesive, screw-on catch plate and screw	<ul><li>Works for both overlay and inset applications</li><li>Nylon gray</li></ul>							
(a) \( \)		P							
	NOTE: Use of screw-on catch plate	TIP-ON mechanism set for standard doors	955.1004						
	is required for all applications	TIP-ON mechanism set for large doors	955A1004						

Opening angle restriction clip								
			Part no.					
		Opening angle restriction clip 100°	20K7A41					
		Opening angle restriction clip 75°	20K7A11					

# TIP-ON for AVENTOS HK-S – panel cabinets

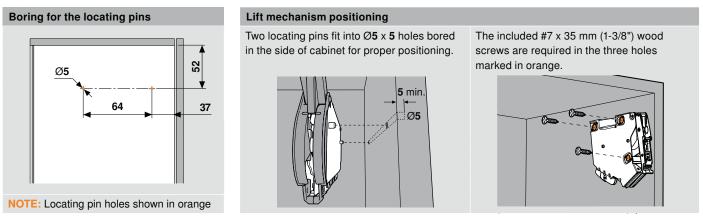
Step 1 - Check clearances



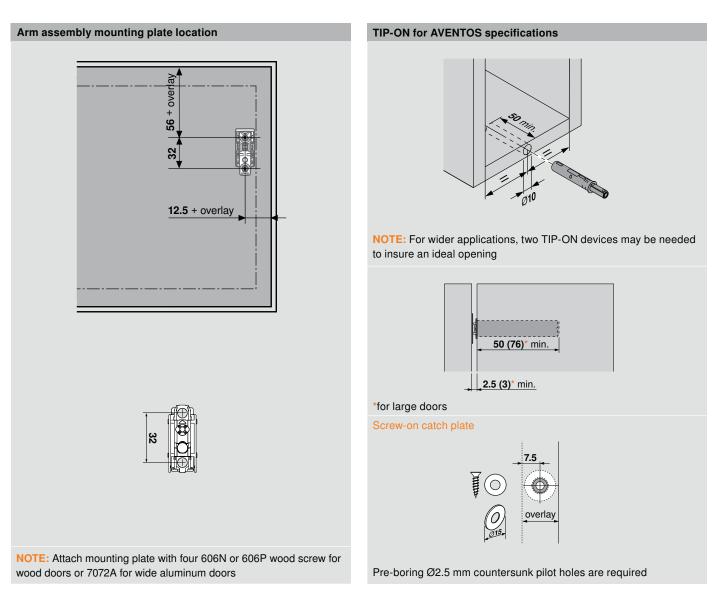
# Cabinet preparation for wood or wide aluminum doors



Step 2 - Mount the lift mechanisms



Step 3 – Determine the Lever arm mounting plate position and attach to the door

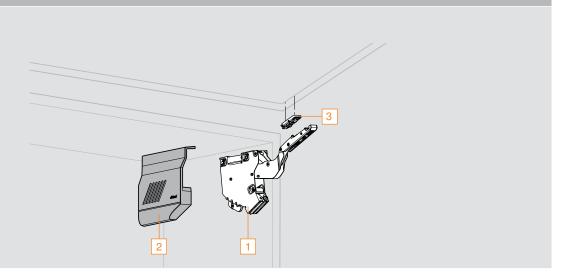


Step 4 - Assemble the cabinet

Follow the assembly instructions included in the lift mechanism set or on blum.com

# TIP-ON for AVENTOS HK-S – panel cabinets

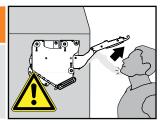
#### **Required components**





Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



#### Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

#### **Determine power factor**

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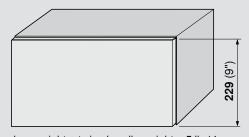
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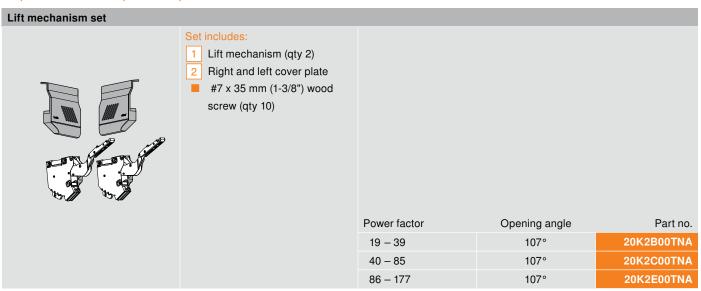
door weight + twice handle weight = 5 lb 14 oz

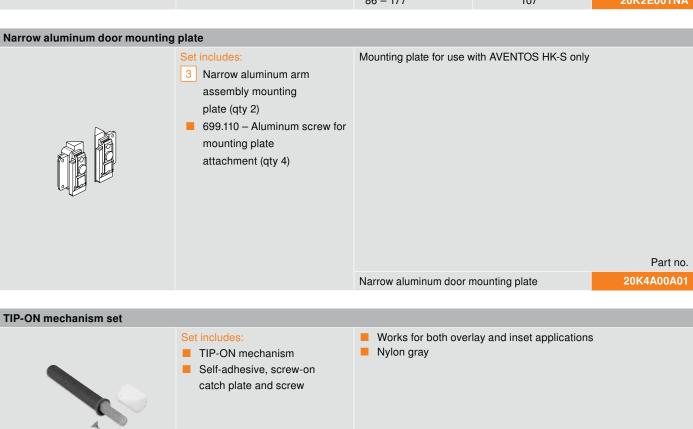
weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

# Ordering information for narrow aluminum doors



#### Step 2 – Select the required components





	is required for all applications	TIP-ON mechanism set for large doors	955A1004
Opening angle restriction clip			
			Part no.
		Opening angle restriction clip 100°	20K7A41
		Opening angle restriction clip 75°	20K7A11

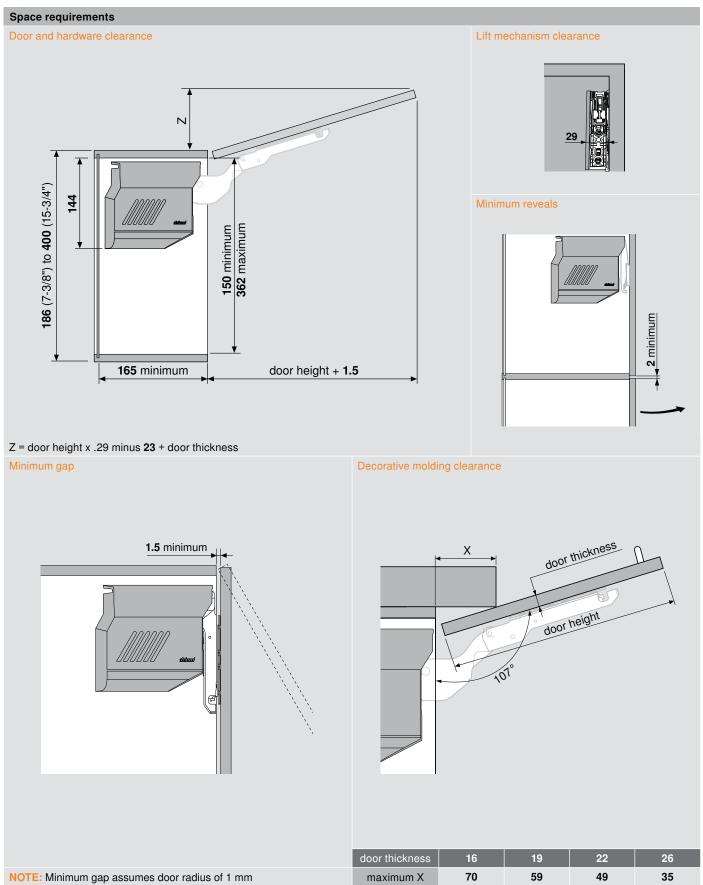
NOTE: Use of screw-on catch plate TIP-ON mechanism set for standard doors

Part no.

955.1004

# TIP-ON for AVENTOS HK-S – panel cabinets

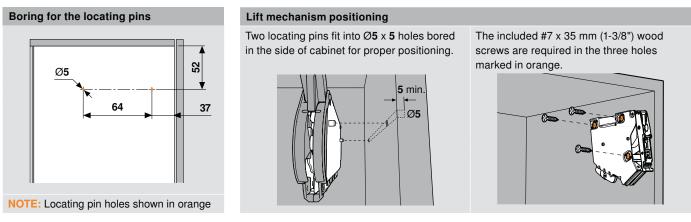
Step 1 - Check clearances



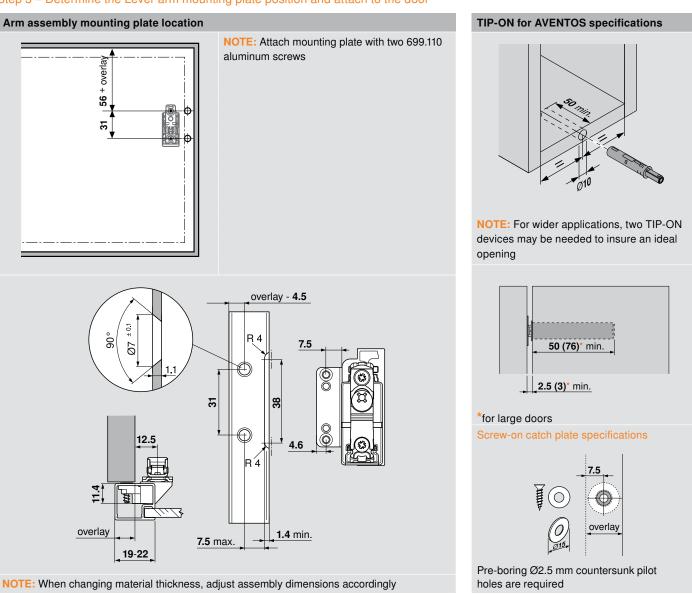
## Cabinet preparation for narrow aluminum doors



Step 2 - Mount the lift mechanisms



Step 3 – Determine the Lever arm mounting plate position and attach to the door



Step 4 – Assemble the cabinet

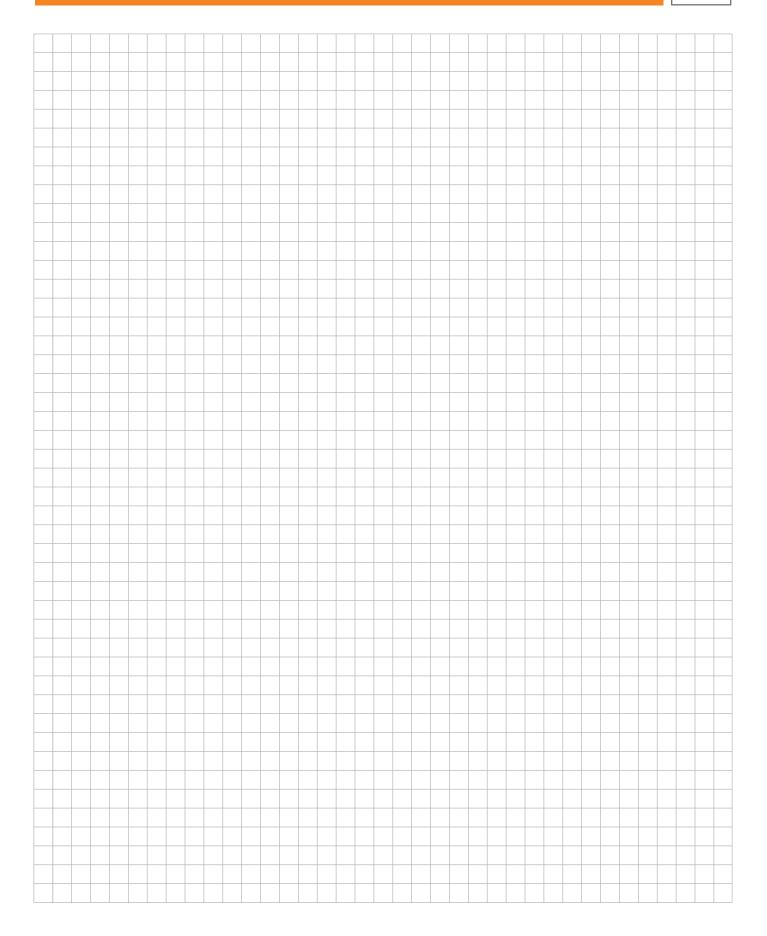
Follow the assembly instructions included in the lift mechanism set or on blum.com

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# Notes









# Why choose Blum



Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, 40+ knowledgeable Blum sales representatives and an experienced customer service department.

#### Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.



Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. What's more they exceed the requirements of ANSI/BHMA standards for cycle life, static load and self-closing performance.

Blum, Inc. 7733 Old Plank Rd. Stanley, NC 28164 800-438-6788



