STANDARD

Drawer runner program

Perfecting motion **blum**®

Proven technology - built upon years of experience

Cycle life/Dynamic load capacity test

100,000 open/close cycles with a total weight of **34kg** (75 lb.) on a **614mm** (22") drawer.
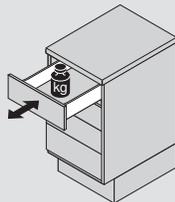
Side pressure test

A force of **15kg** (33 lb.) is applied ten times to a fully extended **614mm** (22") drawer.
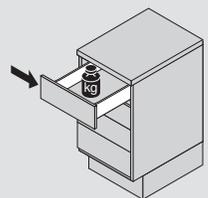
Static load capacity test

45.3kg (100 lb.) applied to a half extended **614mm** (22") drawer for 1 minute.
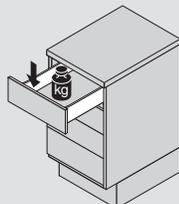
STANDARD drawer runners exceed ANSI/BHMA requirements for a Grade 1 rating.

Runner of choice performance,

Blum STANDARD drawer runners apply proven technology built upon years of experience to ensure a solid performance that will last a lifetime. The program is designed for a variety of applications including interior roll-outs to full extension for access to the entire drawer.

Function and durability
The STANDARD drawer runner series is the runner of choice when performance, function and durability are desired. Blum offers three series of conventional drawer runners that deliver exceptional running action.

Longevity
All STANDARD drawer runners exceed BHMA Grade 1 requirements (75 lbs. dynamic load capacity, and 100 lbs. static load capacity).

Contents

blum

STANDARD 230 general specifications

- Single extension, bottom mounted
- Durable epoxy coating in cream or white
- Smooth running synthetic rollers on tempered steel axles
- Captive RH profiles/tolerance LH profiles
- 1/2" side clearance
- Double warning lift out stop

The 230M series have BLUMATIC self-closing action. Angled drawer and cabinet profiles create a parallel drop 3/32".

The 230E series have stay-closed detents in the drawer profiles that hold the drawer in the closed position.

230M series

Single extension, BLUMATIC self closing drawer runners
Lenghts: **250** (10") to **650** (26")

Cabinet profile

Drawer profile

Rear mount sockets available for frame applications
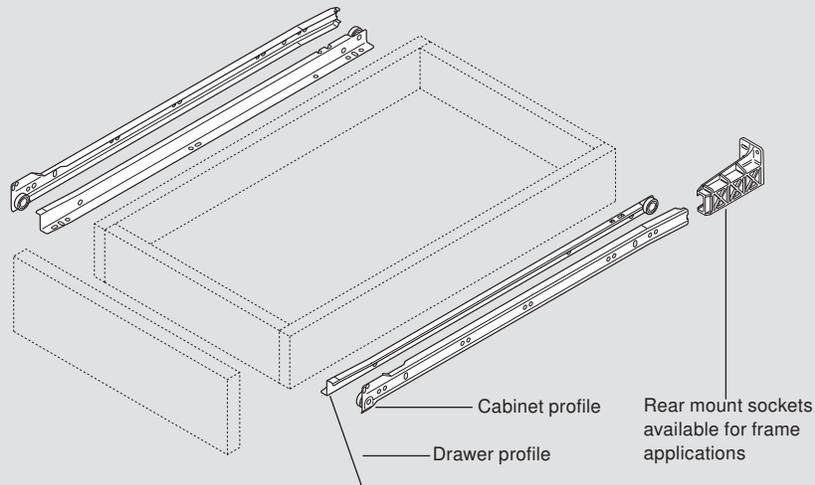
230E series

Single extension with stay-closed detents
Lenghts: **700** (28") to **800** (32")

Cabinet profile

Drawer profile
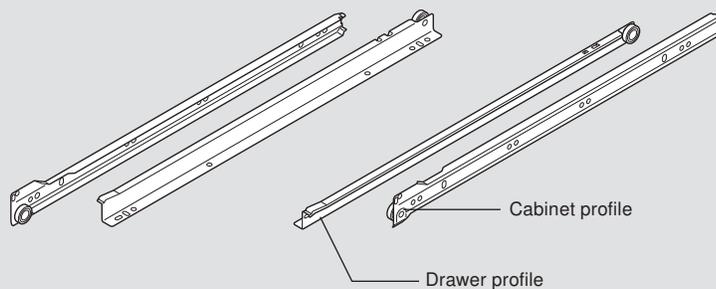
STANDARD 430 general specifications

- Full extension, bottom mounted
- Durable epoxy coating in cream or white
- Smooth running synthetic rollers on tempered steel axles
- Double captive profiles
- 1/2" side clearance

- Lock out stops to prevent drawer removal
- Intermediate profiles lock out for easy drawer installation
- 1-1/4" over extension
- Detents in the drawer and intermediate profiles hold the drawer closed

430 series

Full extension with stay-closed detents
Lenghts: **250** (10") to **800** (32")

Cabinet profile

Intermediate profile
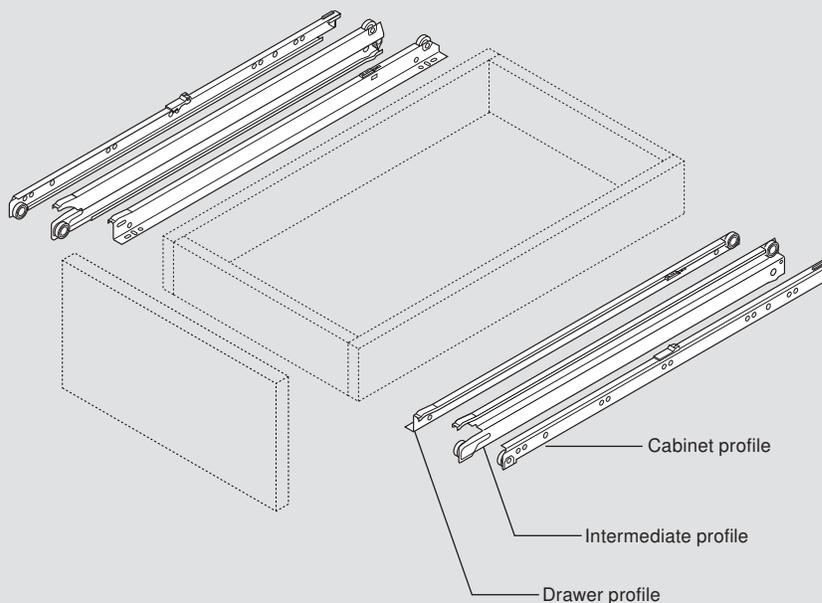
Drawer profile

NOTE: No rear mount sockets available for 430 series. For frame cabinets, block out behind profiles.

STANDARD 230M Series

Bottom mounted single extension drawer runners

Runner Part No.	Nominal Length	Inside Depth				Minimum Panel Cabinet Interior Depth*		Suggested Drawer Length		Extension Loss**		Cabinet & Drawer Profile Length	
		Maximum		Minimum									
230M6500	(26")	714	(28-1/8")	677	(26-11/16")	653	(25-3/4")	650	(25-5/8")	127	(4-15/16")	650	(25-5/8")
230M6000	(24")	664	(26-1/8")	627	(24-11/16")	603	(23-3/4")	600	(23-5/8")	120	(4-11/16")	600	(23-5/8")
230M5500	(22")	614	(24-3/16")	577	(22-3/4")	553	(21-13/16")	550	(21-11/16")	110	(4-5/16")	550	(21-11/16")
230M5000	(20")	564	(22-3/16")	527	(20-3/4")	503	(19-13/16")	500	(19-11/16")	102	(4")	500	(19-11/16")
230M4500	(18")	514	(20-1/4")	477	(18-13/16")	453	(17-7/8")	450	(17-3/4")	95	(3-3/4")	450	(17-3/4")
230M4000	(16")	464	(18-1/4")	427	(16-13/16")	403	(15-7/8")	400	(15-3/4")	85	(3-3/8")	400	(15-3/4")
230M3500	(14")	414	(16-1/4")	377	(14-13/16")	353	(13-7/8")	350	(13-3/4")	85	(3-3/8")	350	(13-3/4")
230M3000	(12")	364	(14-5/16")	327	(12-7/8")	303	(11-15/16")	300	(11-13/16")	85	(3-3/8")	300	(11-13/16")
230M2500	(10")	314	(12-5/16")	277	(10-7/8")	253	(9-15/16")	250	(9-13/16")	59	(2-5/16")	250	(9-13/16")

* **For overlay drawer fronts.** Space requirements for inset drawers will vary according to front thickness. **A trial is recommended.**
** **At suggested drawer length.**

Specifications

Colors:
white or R901 cream

230M6500 (26")
230M6000 (24")
230M5500 (22")
230M5000 (20")
230M4500 (18")
230M4000 (16")
230M3500 (14")
230M3000 (12")
230M2500 (10")

IMPORTANT-Install #6 FH wood screw to attain max. load capacity

#6 FH Wood Screw Hole

System Screw Hole or #7 FH wood screw

13.5 (1/2")

32 (1-1/4")
18.5 (3/4")

9 (3/8")

2 (1/16") Setback

37 (1-7/16")

Cabinet front
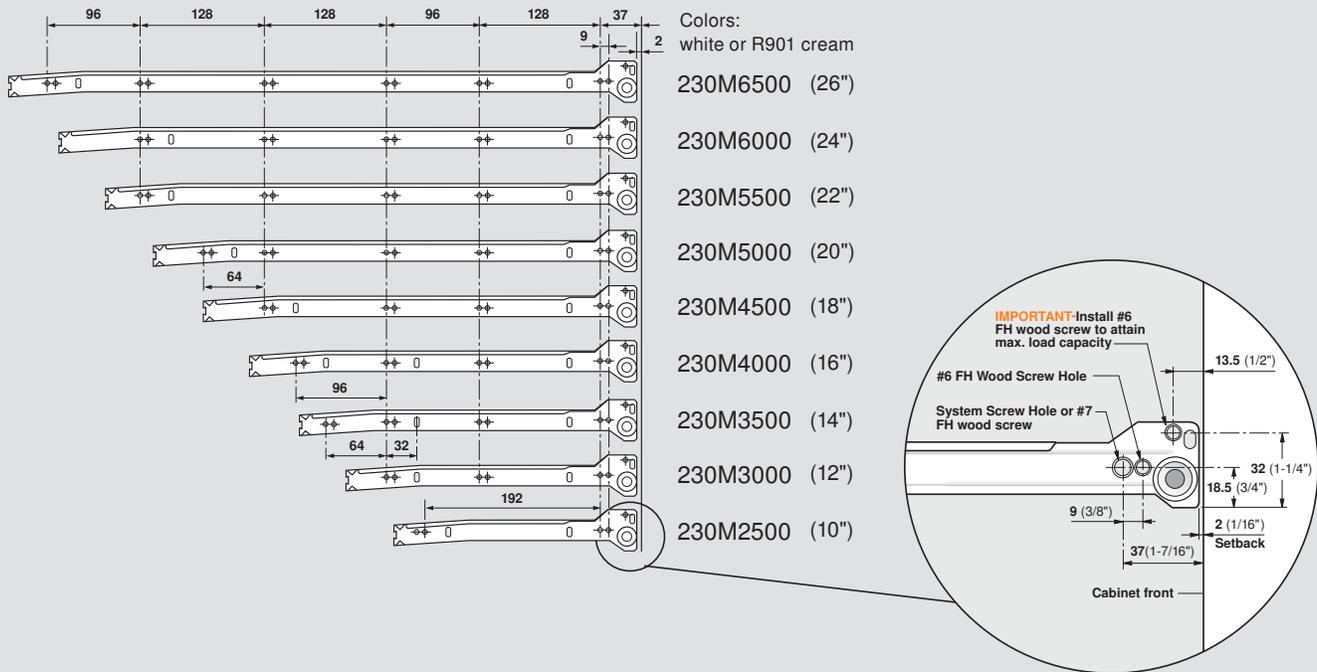
230M Rear Mount Socket

	Part No.
L&R set	602320
RH socket	602300
LH socket	602301

NOTE: The Blumatic design lowers the drawer into the closed position. Consult the minimum reveal table to make sure the drawer front clears the countertop overhang when the drawer opens.

Overhang

Minimum Reveal

3 (1/8") Rise
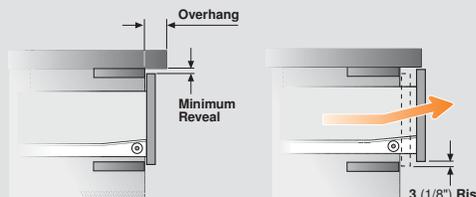
Overhang	16 (5/8")	32 (1 1/4")	48 (1 7/8")
Minimum Reveal	1 (1/32")	2 (3/32")	3 (1/8")

Dimensions in millimeters (inch equivalents as noted)
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Drawer and cabinet specifications

Frame cabinet installation

Cabinet Depth

Interior Depth

Socket Range
25 to 62
(1" to 2-7/16")

Cabinet Profile

Setback
2 (1/16")

32 (1-1/4")

Mounting Position
13.5 (1/2")

Min. Top Clearance *
16 (5/8")

Drawer Length

Max. Drawer Height *
Opening minus
20 (13/16")

Bottom Clearance
4 (3/16")

Mounting Screws
612TH
(#6 x 1/2" Truss Head)

602300 RH
602301 LH
Rear Mount Sockets

Extension Loss

* Minimum top clearance and maximum drawer height when drawer
is of recommended length and tilting to remove is not desired.

Interior Cabinet Width

Drawer Width = Interior Cabinet Width - 25 (1")

15 (9/16") **Min. Top Clearance** *

Side
Clearance
12.5 (1/2")

Opening

Max. Drawer Height *
Opening minus
19 (3/4")

Tolerance
Profile

Captive
Profile

Cabinet Profile Screws
606N (#6 x 5/8") or
System screws

18.5
(3/4")

32
(1-1/4")

Bottom Clearance
4 (3/16")

Drawer Profile Screws
606N (#6 x 5/8") min.
3 per profile

* Minimum top clearance and maximum drawer height when drawer
is of recommended length and tilting to remove is not desired.

Panel cabinet installation

Cabinet Depth

Interior Depth

Install screw in flange *

Install at least one
center screw *

Setback
2 (1/16")

18 (3/4")

Mounting Position
37 (1-7/16")

32mm Increment
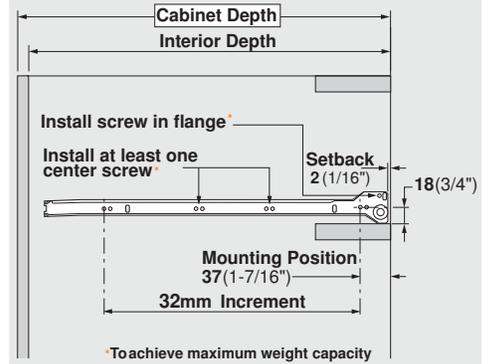
*To achieve maximum weight capacity

Drawer profile mounting

Attach through
sides or bottom

Position profiles
flush with front
of drawer box

Front

Width
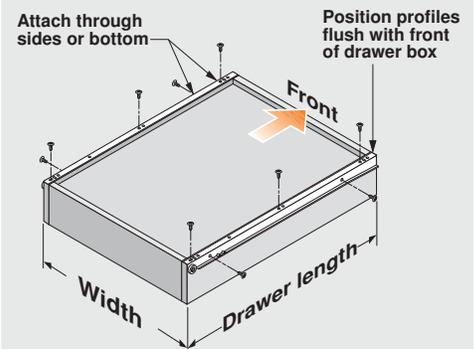
Drawer length

Rear mount socket location

Mounting Screws
612TH (#6 x 1/2" Truss head)
Min. (3) recommended

21
(7/8")

50
(2")

32
(1-1/4")

9
(11/32")

34.5
(1-3/8")

Dotted
line
shows
front
frame
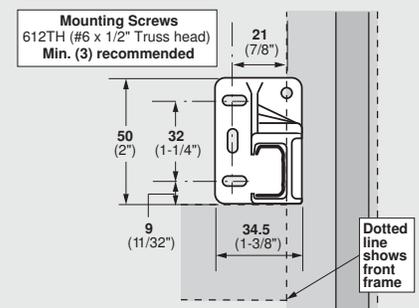
STANDARD 230E Series

Bottom mounted single extension drawer runners

Runner Part No.	Nominal Length	Inside Depth				Minimum Panel Cabinet Interior Depth*		Suggested Drawer Length		Extension Loss**		Cabinet & Drawer Profile Length	
		Maximum		Minimum									
230E8000	(32")	852	(33-9/16")	805	(31-3/4")	803	(31-5/8")	800	(31-1/2")	152	(6")	800	(31-1/2")
230E7500	(30")	802	(31-9/16")	755	(29-3/4")	753	(29-5/8")	750	(29-1/2")	145	(5-23/32")	750	(29-1/2")
230E7000	(28")	752	(29-9/16")	705	(27-3/4")	703	(27-11/16")	700	(27-9/16")	135	(5-5/16")	700	(27-9/16")

* **For overlay drawer fronts.** Space requirements for inset drawers will vary according to front thickness. **A trial is recommended.**
** **At suggested drawer length.**

Specifications

128   128   128   128   96   128   37
9   2

230E8000   (32")
230E7500   (30")
230E7000   (28")

IMPORTANT-Install #6 FH wood screw to attain max. load capacity
#6 FH Wood Screw Hole
System Screw Hole or #7 FH wood screw

13.5 (1/2")
32 (1-1/4")
18.5 (3/4")
9 (3/8")
2 (1/16") Setback
37 (1-7/16")
Cabinet front
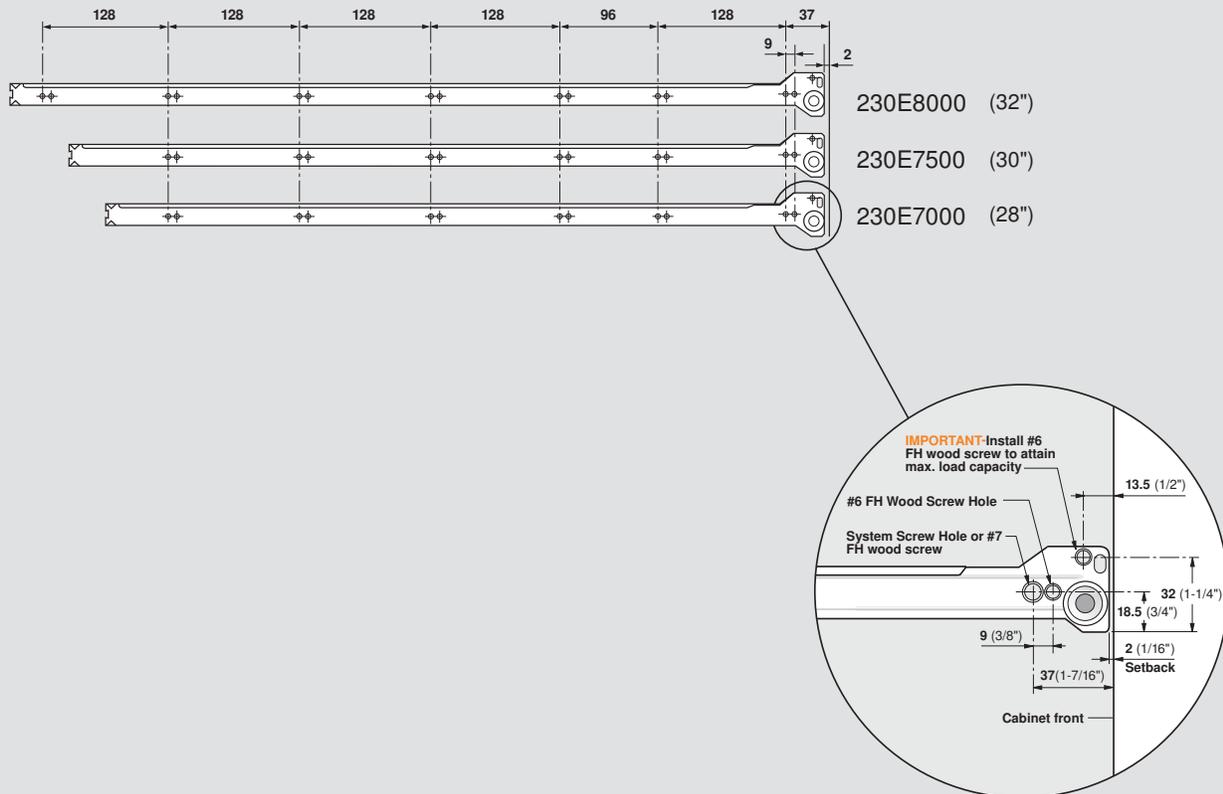
NOTE: Frame applications must be blocked-out.

Drawer and cabinet specifications

Panel cabinet installation

Cabinet Depth

Interior Depth

Install screw in flange *

Install at least one center screw *

Setback **2** (1/16")

18 (3/4")

Mounting Position **37** (1-7/16")

32mm Increment

*To achieve maximum weight capacity

Interior Cabinet Width

Drawer Width = Interior Cabinet Width - 25 (1")

15 (9/16") **Min. Top Clearance** *

Side Clearance **12.5** (1/2")

Cabinet Profile Screws 606N (#6 x 5/8") or System screws

Opening

Max. Drawer Height Opening minus * **21** (13/16")

Tolerance Profile

Captive Profile

32 (1-1/4")

18.5 (3/4")

Bottom Clearance **6** (1/4")

Drawer Profile Screws 606N (#6 x 5/8") min. 3 per profile

* Minimum top clearance and maximum drawer height when drawer is of recommended length and tilting to remove is not desired.

Drawer profile mounting

Attach through sides or bottom

Position profiles flush with front of drawer box

Front

Width

Drawer length

See page 12 for profile installation
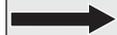
blum

Bottom mounted full extension drawer runners

| Runner Part No.	Nominal Length	Minimum Interior Cabinet Depth		Suggested Drawer Length		Over Extension	Cabinet & Drawer Profile Length	
430E8000	(32")	803	(31-5/8")	800	(31-1/2")		800	(31-1/2")
430E7500	(30")	753	(29-5/8")	750	(29-1/2")		750	(29-1/2")
430E7000	(28")	703	(27-11/16")	700	(27-9/16")		700	(27-9/16")
430E6500	(26")	653	(25-3/4")	650	(25-5/8")		650	(25-5/8")
430E6000	(24")	603	(23-3/4")	600	(23-5/8")		600	(23-5/8")
430E5500	(22")	553	(21-13/16")	550	(21-11/16")	30 (1-3/16") At suggested drawer length	550	(21-11/16")
430E5000	(20")	503	(19-13/16")	500	(19-11/16")		500	(19-11/16")
430E4500	(18")	453	(17-7/8")	450	(17-3/4")		450	(17-3/4")
430E4000	(16")	403	(15-7/8")	400	(15-3/4")		400	(15-3/4")
430E3500	(14")	353	(13-7/8")	350	(13-3/4")		350	(13-3/4")
430E3000	(12")	303	(11-15/16")	300	(11-13/16")		300	(11-13/16")
430E2500	(10")	253	(9-15/16")	250	(9-13/16")		250	(9-13/16")

* **For overlay drawer fronts.** Space requirements for inset drawers will vary according to front thickness. **A trial is recommended.**
** **At suggested drawer length.**

Specifications

Drawer and cabinet specifications

Panel cabinet installation

Cabinet Depth

Interior Depth

Setback **4** (1/8")

Cabinet Profile

Mounting Position **37** (1-7/16")

50 (1-15/16") **Min.**

3 (1/8") **Min. Top Clearance**

Drawer Length

Max. Drawer Height Opening minus 9 (3/8")

6 (1/4") **Bottom Clearance**

30 (1-3/16") **Over Extension**

Drawer profile mounting

Attach through sides or bottom

Position profiles flush with front of drawer box.

Front

Drawer width

Drawer length

Interior Cabinet Width

Drawer Width = Interior Cabinet Width - 25 (1")

3 (1/8") **Min. Top Clearance**

Side Clearance 12.5 (1/2")

Max. Drawer Height Opening minus 9 (3/8")

Opening

Captive Profile

Captive Profile

50 Min (1-15/16")

Bottom Clearance 6 (1/4")

Dimensions in millimeters (inch equivalents as noted)
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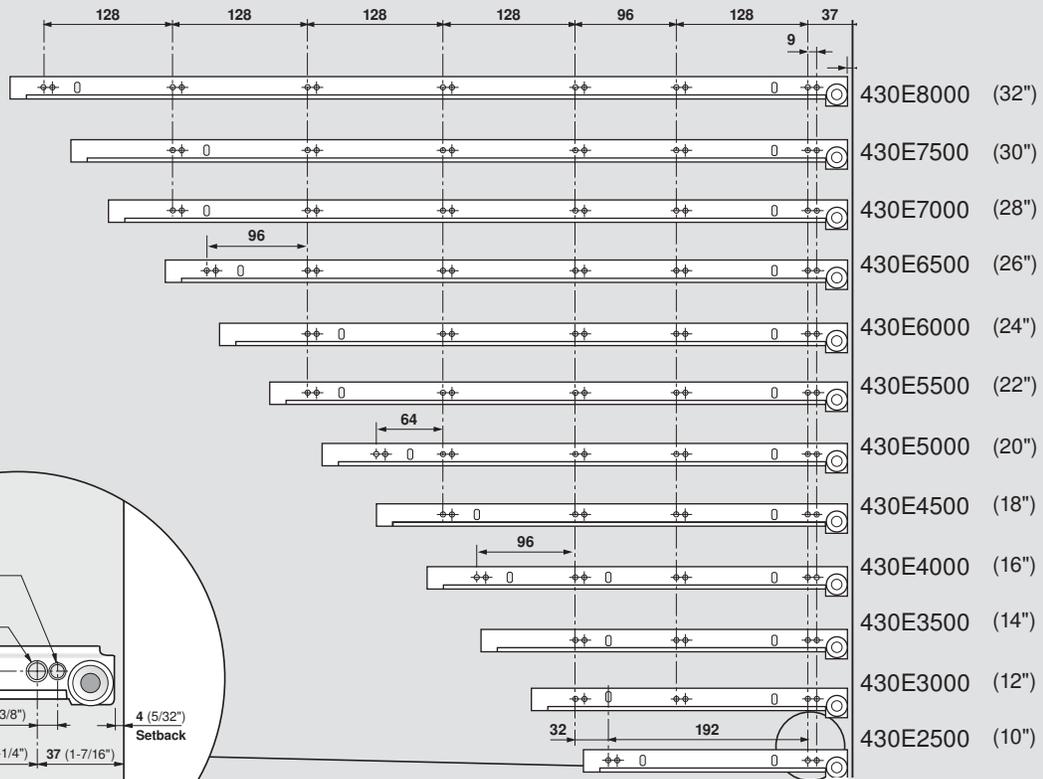
Assembly of bottom mounted full extension drawer runners

Cabinet and drawer profile assembly

Cabinet profile

Intermediate profile
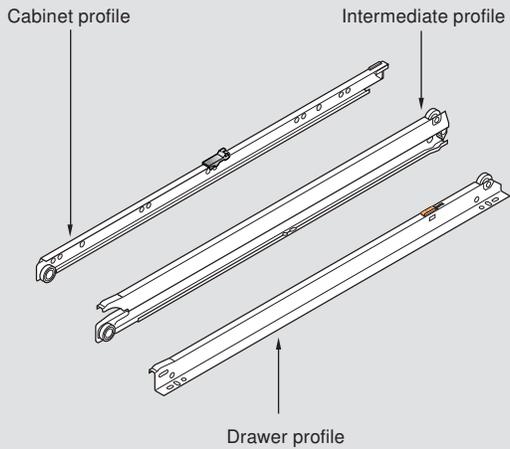
Drawer profile

Mount cabinet profile to side panel

1

Plastic detent stop to top

Roller to front
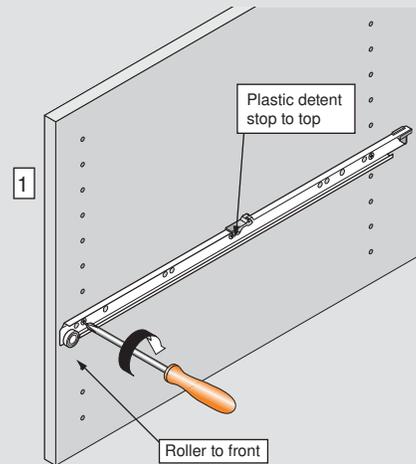
Install intermediate profile

2

Rear roller through gap

Front hook section over cabinet profile roller
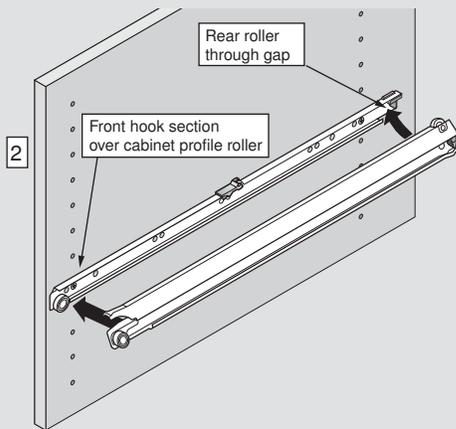
Slide intermediate profile into position

3

Install drawer profile

4

Drawer profile roller slides over intermediate profile roller and into track
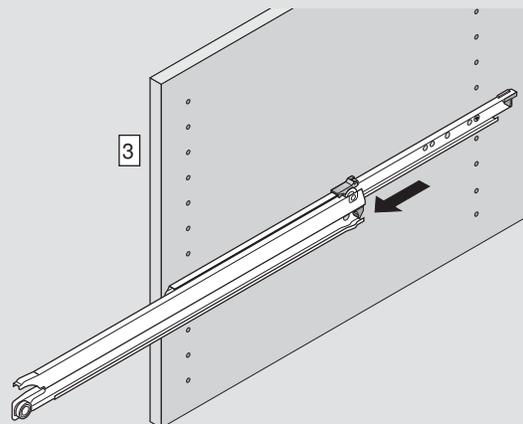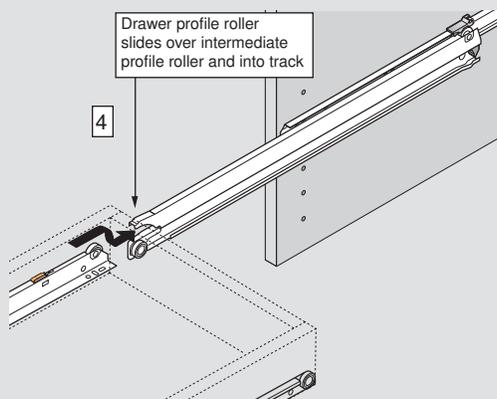
Engage drawer removal lock

5

Lock

Unlock

Dimensions in millimeters (inch equivalents as noted)
Subject to technical modifications without notice. © 2012
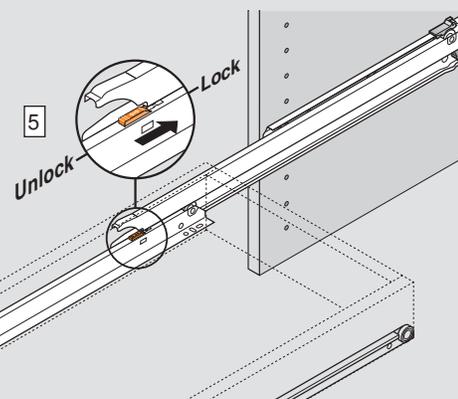
# Special application

## STANDARD series with roll-out tray mounted to Blum universal drawer brackets

295.4000
Universal Drawer Bracket

Mounting Screw
M4 x 1/4"

16 (5/8")

30
(1-3/16")

612TH Screws
(#6 x 1/2" Truss Head)
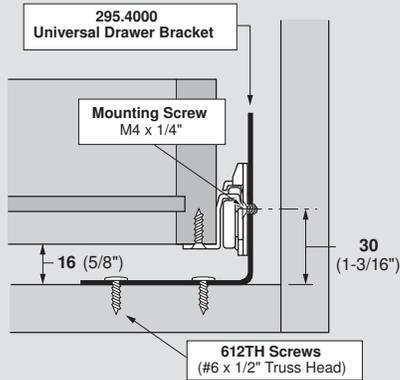
Roll-out tray with 230M runner

295.4000
Universal Drawer Bracket

Mounting Screw
M4 x 1/4"

18 (3/4")

62
(2-1/2")

612TH Screws
(#6 x 1/2" Truss Head)
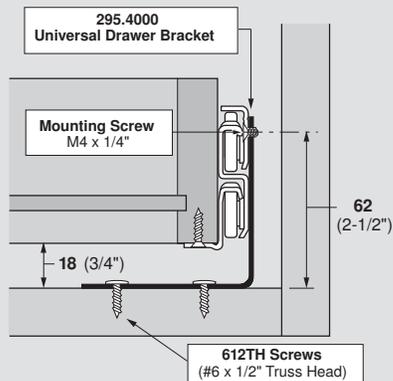
Roll-out tray with 430E runner
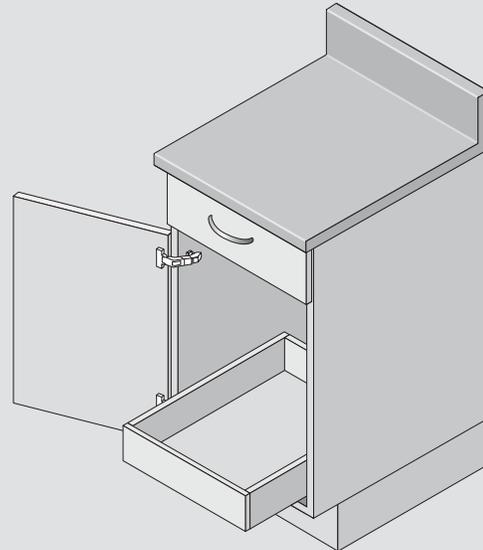
Runner mounting bracket

For mounting Blum runners to the floor
of a cabinet (roll-out tray).

64 (2-9/16")
48 (1-7/8")
16 (5/8")
M4 tapped holes
34 (1-5/16")
58 (2-11/16")
62 (2-7/16")
30 (1-3/16")
68 (2-11/16")
7 (1/4")
15 (1/16")
5 (3/16")
16 (5/8")
32 (1-1/4")
48 (1-7/8")
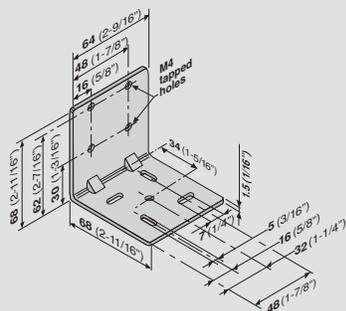
	Part No.
Universal bracket kit	**295.4000**
Installation screws	**612TH**

Dimensions in millimeters (inch equivalents as noted)
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13

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Accessories

For 230M runners

Synthetic, neutral color
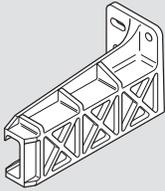
	Part No.
230M socket set	**602320**
230M RH	**602300**
230M LH	**602301**
Installation screws	**612TH**

Cabinet profile spacers

With split dowel

Without split dowel
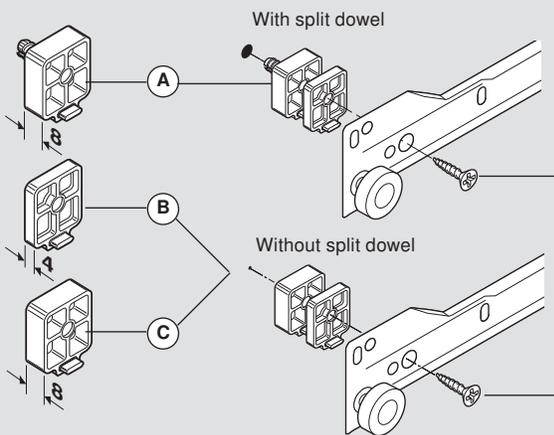
Used to space runners away from cabinet side to clear door prtrusion on interior roll-out trays.

Two thicknesses available that can be stacked up to **24** (15/16")

Synthetic, neutral color

IMPORTANT: Use spacers on front, middle and rear of each cabinet profile for adequate support.

Use #6 FH screw that penetrates cabinet side at least **13** (1/2")

		Part No.
(A)	**8** (5/16") with Ø**5** (3/16") x **11** dowel for linebore mounting	**320M0188**
(B)	**4** (5/32") stackable	**320M0048**
(C)	**8** (5/16") stackable	**320M0088**

Heavy duty spacer
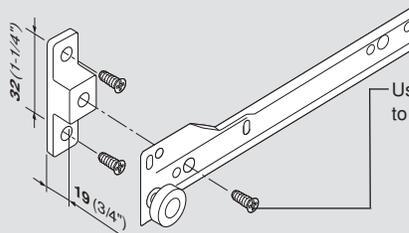
32 (1-1/4")

19 (3/4")

Use 3 deep thread system screws to attach runner to spacer and spacer to cabinet side

	Part No.
32 (1-1/4") x 19 (3/4")	**60.2750.0000**

Dimensions in millimeters (inch equivalents as noted)
Subject to technical modifications without notice. © 2012

Accessories

Door Protectors

For pull-out surrounds to prevent damage to doors.

Fixed to the underside of the drawer. For 230M and 430E runners. Symmetrical. Epoxy coated steel, with synthetic rollers cream color.
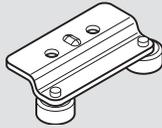
|	Part No.
	298.2200

Space requierments

230M runner

15

34 min.
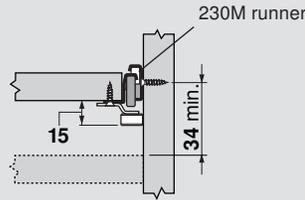
Assembly
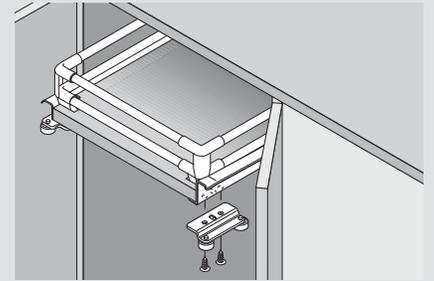
Deep thread wood screws

Nickel plated

	Part No.
#6 x 5/8", #2 Phillips	**606N**
#6 x 5/8", #2 POZI	**606P**

Truss head wood screws
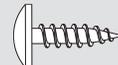
Zinc plated

#6 x 1/2", #2 Phillips	**612TH**

Deep thread system screws
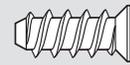
Used to attach cabinet profiles

Pilot bore Ø5 (3/16") hole

	Part No.
11.5 (7/16"), #2 POZI	**661.1150.HG**
13 x(1/2"), #2 POZI	**661.1300.HG**

Bumpers

Dia.   Thk.
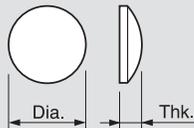
- Cushions door closing
- Clear with a self-adhesive back

	Part no.
Ø7.5 (9/32") x **2** (3/32")	**FX4041**
Ø12 (15/32") x **3.5**(1/8")	**SJ5312**

POZI DRIVER and bits

A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.

POZI   Phillips

Tick marks
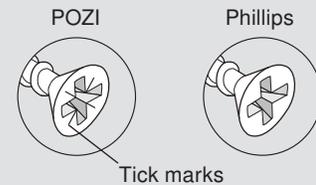
	Part no.
#2 POZI DRIVER	**POZI DRIVER**
1/4" Magnetic bit holder	**BIT HOLDER**
#2 x 1" POZI bit insert	**POZI BIT #2x1**
#2 x 2" POZI bit insert	**POZI BIT #2x2**

blum

Assembly Tools

Drawer front adjuster

Nylon housing with pre-mounted 8-32 steel nut. For 4-sided drawers. Adjusts height and side-to-side by **5 (3/16")**.

10.5 (7/16")   **Ø20** (13/16")
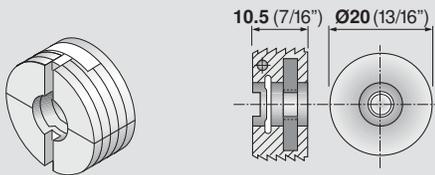
	Part No.
Drawer front adjuster	**295.1000.21**
MINIPRESS ram	**MZM.0095**
Ø20 rt handed drill bit	**M01.ZB20.02 RH**

Marking gauge

For marking center holes for knock-in drawer front adjusters

For wooden 4-sided drawes.

10 (3/8")   **Ø20** (13/16")
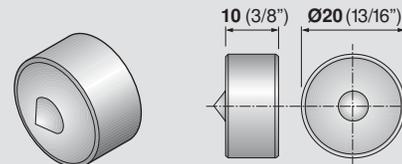
Part No.
65.2950.10

Using the drawer front adjuster and marking guage
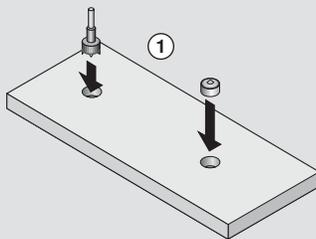
1. Bore for front adjusters. Insert marking gauges into drawer front.
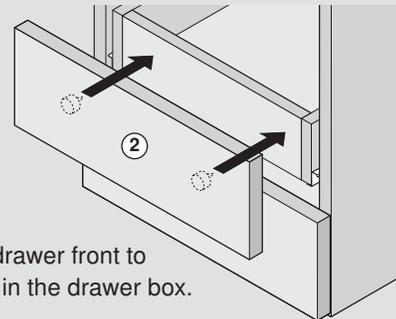
2. Align the drawer front to make marks in the drawer box.
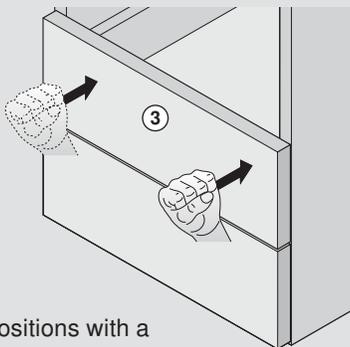
3. Mark fixing positions with a light tap onto the drawer front.
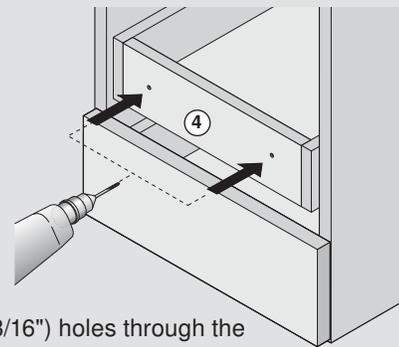
4. Drill **Ø5** (3/16") holes through the drawer box.
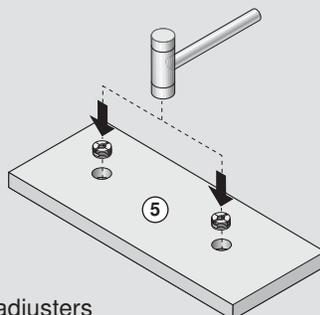
5. Insert drawer front adjusters manually or with a MINIPRESS insertion ram
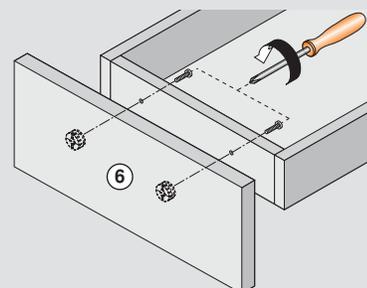
6. Install and adjust drawer front.

Dimensions in millimeters (inch equivalents as noted)
Subject to technical modifications without notice. © 2012

Assembly Tools

MINIFIX

For precise positionng of cabinet profile fixing screws.

For 230M and 230E runners
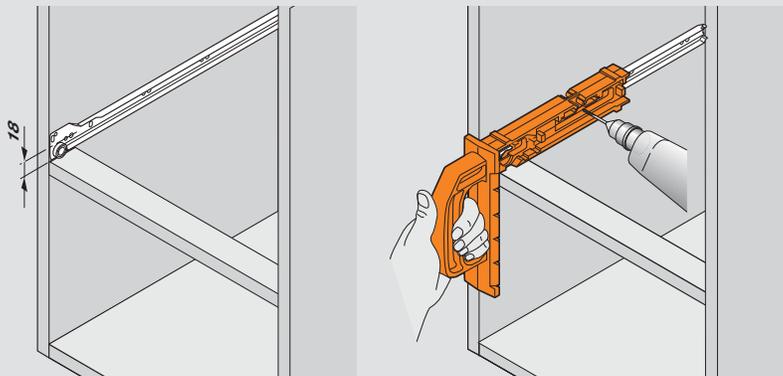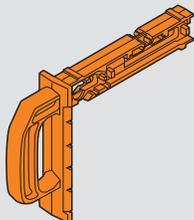
Part No.

65.3300

Blum, Inc. Headquarters, Stanley NC

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.

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