

Grass TEC

Hinge
System

G* GRASS
The star in your cabinet





Open a whole new world of possibilities with the TEC 860 Hinge System from Grass.

When the door is special, why should the hinge be any different? Wherever there is a need for a proven, reliable hinge the first choice should be the TEC 860 Hinge System from Grass. For kitchen, bath and residential cabinetry, the TEC System offers a solution for every application.

The TEC 860 family includes the TEC 861 one-piece hinge, the TEC 862 two-piece hinge, and the TEC 864 one piece hinge with cam adjustment. All are available in a wide assortment of overlays, in both 42mm and 45mm boring patterns, and in an array of hinge and baseplate versions. The TEC Series is constructed of all-steel and nickel-finish components for optimal strength and durability, and features a shallow 10.5mm cup to work on a variety of doors with decorative edge trim and doors with thicknesses ranging from 1/2" to 3/4".

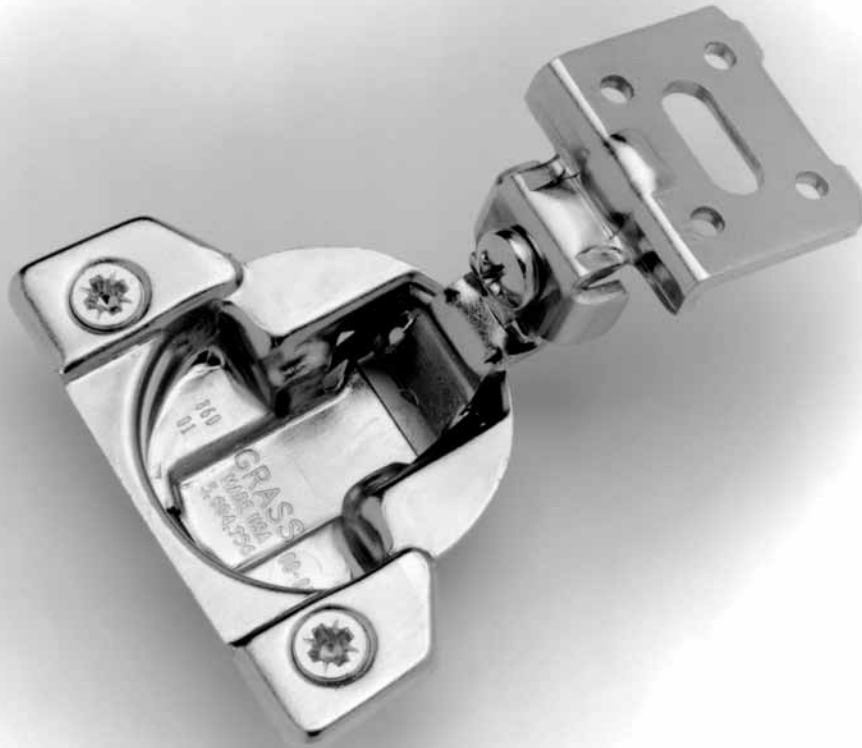
The TEC 860 Hinge System from Grass...a new world of possibilities.

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TEC Series Hinges

Features & Benefits



HINGE CUP is made of solid metal, available in screw-on or dowelled version.

All-Steel Mechanism: All moving mechanical parts, including pivot pins, linkages and springs are hardened to ensure long-term durability.

The TEC 860 features a shallow 10.5mm cup to accommodate a variety of decorative edge trims.

Zero Protrusion in a variety of overlays allows for pullouts.

2 Way Adjustment on TEC 861 and TEC 862. Height adjustment is available on all baseplates. The side adjustment is located on the hinge arm or by means of spacers.

3 Way Adjustment on TEC 864 hinge with depth adjustment achieved through cam.

Locating Tabs on the baseplates for easy mounting on face frames.

TEC 860 is available in the standard Grass 42mm pattern and 45mm boring pattern.

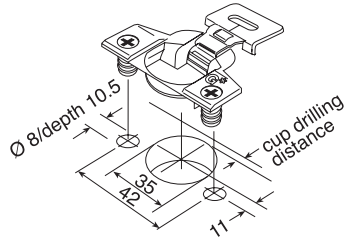
Steel Closing Mechanism is made of hardened steel with a coil spring to maintain the closing force throughout the life of the hinge.

Grass tests all products in an independent testing center to ensure a quality product.

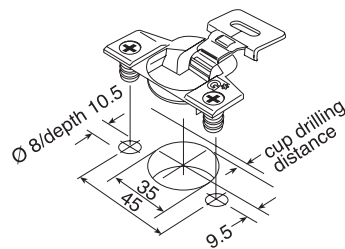
The Grass Promise. Lifetime Limited Warranty against defects in material and workmanship for as long as the original consumer owns the product.

TEC 860 Hinge Cup

TEC 860 VS8



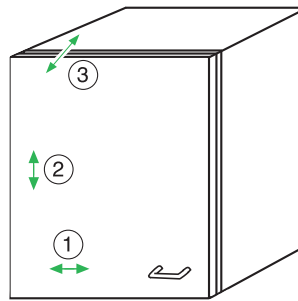
TEC 860 VS8-45



Adjustment Features

The Grass TEC 861 and 862 offer 2 dimensional adjustment for height and side adjustment. The TEC 864 offers 3 dimensional adjustment with the addition of cam depth adjustment. Adjustments allow for corrections of assembly and installation inaccuracies.

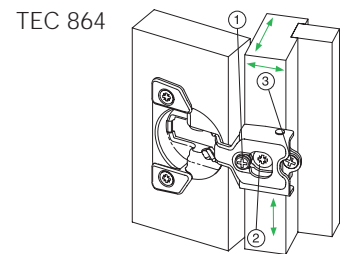
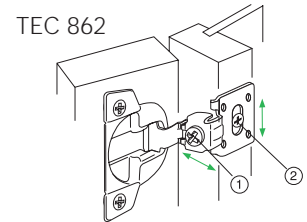
- ① Side Adjustment
- ② Height Adjustment
- ③ Depth Adjustment



TEC 860 Hinge Adjustments

Use Phillips screwdriver to adjust screws.

- ① Side Adjustment
- ② Height Adjustment
- ③ Depth Adjustment

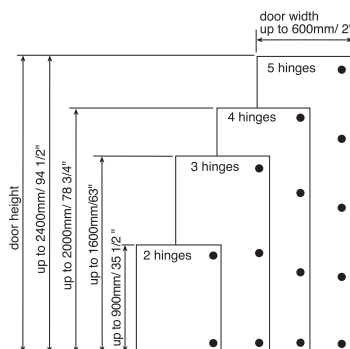


Recommended Number of Hinges per Door

The number of hinges required depends on the size, weight and quality of the door. The distance between the hinges should be spaced as wide as possible. Use the diagram below to determine number of hinges needed.

For doors to 24" wide, weighing up to
 20lbs. - 2 hinges
 20 - 40 lbs. - 3 hinges
 40 - 60 lbs. - 4 hinges

These recommendations are for doors without accessory attachments only.



TEC 860 Hinge Adjustments

Do's

- Use Phillips screwdriver for adjusting hinges.
- Attach baseplate using ALL available screw holes.
- Keep hinges as close to top and bottom of door as possible. Max. recommended distance 75mm (3") from end of door.
- Make sure hinge arm is 90 degrees to door.
- Make sure doors do not bind when opening.
- Make a trial mounting to ensure accuracy.

Don'ts

- Don't exceed max. cup drilling distance. Door will bind on hinge or frame.
- Don't overuse the hinge adjustments.
- Don't overload the door (mirrors, racks, etc.)
- Avoid doors which are wider than they are tall.
- Don't overtighten the wood screws.

TEC 864

108° Face Frame Hinge Series with Cam Adjustment

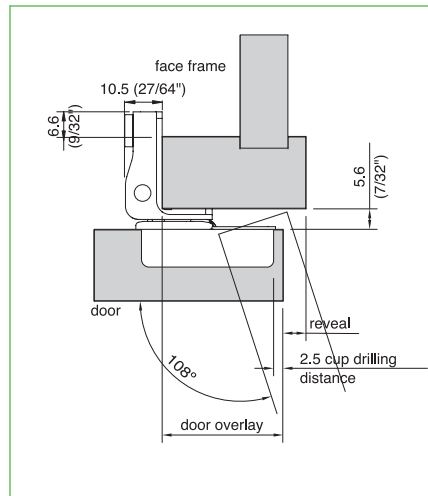
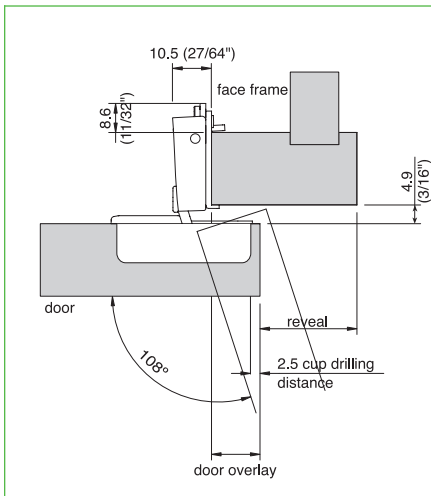


- 3-dimensional hinge
- One piece hinge and plate combination with micro side adjustment and cam depth adjustment
- Available in standard 42mm pattern and 45mm pattern
- Locating tabs for easy mounting on frames
- Height adjustment in elongated screw hole
- Competitively priced
- All metal construction, nickel finish
- Works on door thickness from 13mm (1/2") to 19mm (3/4")

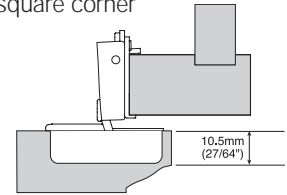
TEC 864
wrap-around baseplate

TEC 864
side mount baseplate

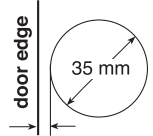
Maximum Door Thickness and Cup Drilling



Maximum Door Thickness:
For 864 13mm (1/2") to 19mm (3/4") square corner



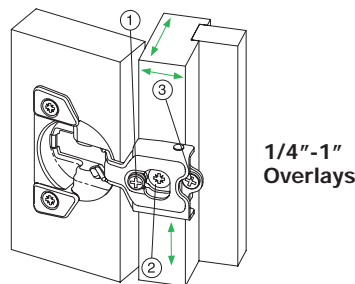
Cup Drilling Depth:
10.5mm (27/64")
Cup Drilling Distance:
2.5mm (3/32") - 3.5mm (9/64") depending on application



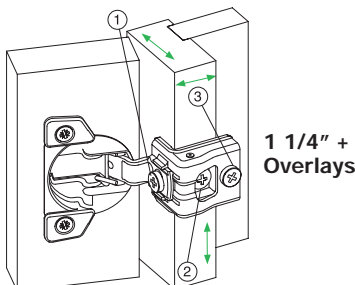
Hinge Adjustments

- ① Side Adjustment +/-1.5mm
Rotate screw clockwise or counterclockwise.
- ② Height Adjustment +/-2mm
Loosen screw 2, align door, tighten screw 2.
- ③ Depth Adjustment +2.5/- .5mm
achievable through cam adjustment

Hinge fastening screw:
#6 x 5/8" FHP, #6 x 1/2" FHP
Baseplate fastening screw:
#10 x 3/4" RHP



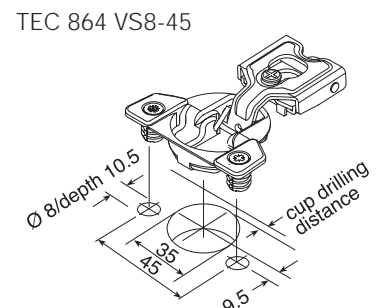
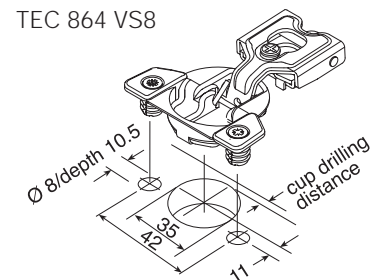
1/4"-1"
Overlays



1 1/4" +
Overlays

Installation Measurements

For hinge series 864



IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.



108° Face Frame Hinge Series with Cam Adjustment

TEC 864 Minimum Reveal (measured in millimeters)	Door thickness			
	16	17	18	19
TEC 864	3.2	3.9	4.6	5.1

Ordering Information Packaging: 300 pieces	VS = vertical steel cup, VS8 = vertical steel cup with two 8mm dowels,		VS8-45 = vertical steel cup with two 8mm dowels in 45mm boring pattern		
	Description - Nickel Finish	Item #	Baseplate	Overlay	
TEC 864 – Screw-on 42mm Boring Pattern	TEC 864VS (08-02)	02930	wrap-around	1/4"	
	TEC 864VS (08-01)	03046	side mount	1/4"	
	TEC 864VS (82-02)	02926	wrap-around	1/2"	
	TEC 864VS (82-01)	03026	side mount	1/2"	
	TEC 864VS (83-02)	02958*	wrap-around	3/4"	
	TEC 864VS (83-01)	02962*	side mount	3/4"	
	TEC 864VS (37-02)	02922	wrap-around	1"	∅
	TEC 864VS (37-01)	02946	side mount	1"	∅
	TEC 864VS (31-02)	02934	wrap-around	1 1/4"	∅
	TEC 864VS (31-01)	03050	side mount	1 1/4"	∅
	TEC 864VS (16-02)	02938	wrap-around	1 3/8"	∅
	TEC 864VS (16-01)	03088*	side mount	1 3/8"	∅
	TEC 864VS (33-02)	02942*	wrap-around	1 1/2"	∅
	TEC 864 Dowelled 42mm Boring Pattern	TEC 864VS8 (08-02)	02928	wrap-around	1/4"
TEC 864VS8 (08-01)		03044	side mount	1/4"	
TEC 864VS8 (82-02)		02924	wrap-around	1/2"	
TEC 864VS8 (82-01)		03024	side mount	1/2"	
TEC 864VS8 (83-02)		02956*	wrap-around	3/4"	
TEC 864VS8 (83-01)		02960*	side mount	3/4"	
TEC 864VS8 (37-02)		02920	wrap-around	1"	∅
TEC 864VS8 (37-01)		02944	side mount	1"	∅
TEC 864VS8 (31-02)		02932	wrap-around	1 1/4"	∅
TEC 864VS8 (31-01)		03048	side mount	1 1/4"	∅
TEC 864VS8 (16-02)		02936	wrap-around	1 3/8"	∅
TEC 864VS8 (16-01)		03086*	side mount	1 3/8"	∅
TEC 864VS8 (33-02)		02940*	wrap-around	1 1/2"	∅
TEC 864 Dowelled 45mm Boring Pattern		TEC 864VS8-45 (08-02)	02929	wrap-around	1/4"
	TEC 864VS8-45 (08-01)	03045	side mount	1/4"	
	TEC 864VS8-45 (82-02)	02925	wrap-around	1/2"	
	TEC 864VS8-45 (82-01)	03025	side mount	1/2"	
	TEC 864VS8-45 (83-02)	02957*	wrap-around	3/4"	
	TEC 864VS8-45 (83-01)	02961*	side mount	3/4"	
	TEC 864VS8-45 (37-02)	02921	wrap-around	1"	∅
	TEC 864VS8-45 (37-01)	02945	side mount	1"	∅
	TEC 864VS8-45 (31-02)	02933	wrap-around	1 1/4"	∅
	TEC 864VS8-45 (31-01)	03049	side mount	1 1/4"	∅
	TEC 864VS8-45 (16-02)	02937	wrap-around	1 3/8"	∅
	TEC 864VS8-45 (16-01)	03087*	side mount	1 3/8"	∅
	TEC 864VS8-45 (33-02)	02941*	wrap-around	1 1/2"	∅

∅ Zero Protrusion- Door does not protrude into opening

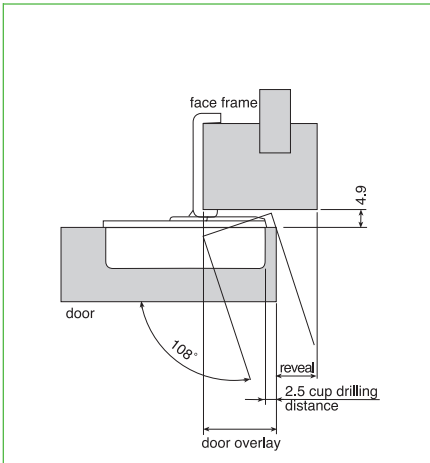
TEC 862

108° Face Frame Hinge Series

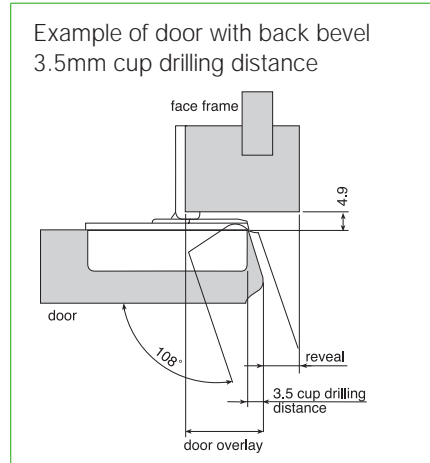


- Available in standard 42mm pattern and 45mm pattern
- Two piece hinge and baseplate combination for side adjustment
- Locating tabs for easy mounting on frames
- Height adjustment in elongated screw hole
- Competitively priced
- All metal construction, nickel finish
- Works on door thicknesses from 13mm (1/2") to 19mm (3/4")

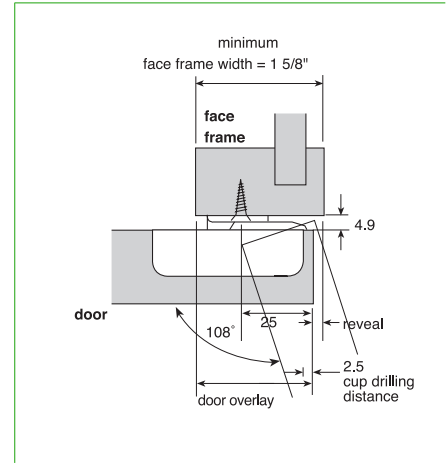
TEC 862
wrap-around baseplate



TEC 862
with side-mount baseplate

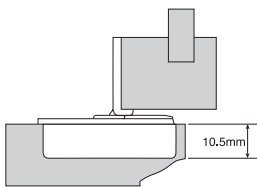


TEC 862
with face-mount baseplate

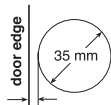


Maximum Door Thickness and Cup Drilling

Maximum Door Thickness:
For 862 19mm (3/4") square corner



Cup Drilling Depth: 10.5mm (27/64")
Cup Drilling Distance: 2.5mm (3/32") - 3.5mm (9/64") depending on application

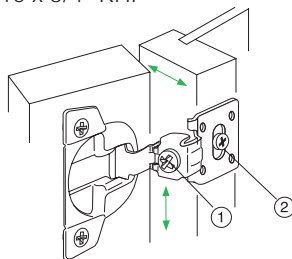


Hinge Adjustments

① Side Adjustment +/-2mm
Loosen screw 1, align door, tighten screw 1.

② Height Adjustment +/-2mm
Loosen screw 2, align door, tighten screw 2.

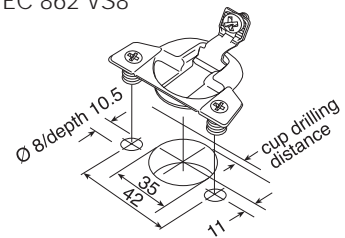
Hinge fastening screw:
#6 x 5/8" FHP, #6 x 1/2" FHP
Baseplate fastening screw:
#10 x 3/4" RHP



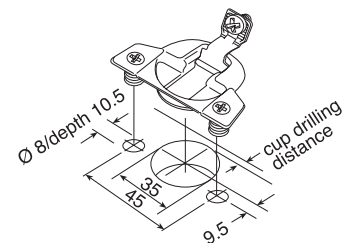
Installation Measurements

For hinge series 862

TEC 862 VS8



TEC 862 VS8-45



IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.

TEC 862 Minimum Reveal (measured in millimeters)

Door thickness

	16	17	18	19
TEC 862	3.2	3.9	4.6	5.1

Ordering Information

Packaging:
600 pieces 
(50 pieces per interior bag)

VS = vertical steel cup,

VS8 = vertical steel cup with two 8mm dowels,

VS-45 = vertical steel cup in 45mm boring pattern,

VS8-45 = vertical steel cup with two 8mm dowels in 45mm boring pattern

	Description - Nickel Finish	Item #	Baseplate	Overlay
TEC 862 Hinge Cups	TEC 862VS	02800		
	TEC 862VS8	02801		
	TEC 860VS-45	02802		
	TEC 862VS8-45	00113		
TEC 862	TEC 862-19	29155	face mount	Variable (min 1 3/8")
Loose Baseplates	TEC 862-81	39725	wrap-around	3/8"
	TEC 862-68	39720	side mount	3/8"
	TEC 862-77	39724	side mount	7/16"
	TEC 862-82	39726	wrap-around	1/2"
	TEC 862-22	29158	side mount	1/2"
	TEC 862-70	39722	side mount	9/16"
	TEC 862-69	39721	side mount	5/8" ∅
	TEC 862-21	29157	side mount	15/16" ∅
	TEC 862-20	29156	side mount	1" ∅
	TEC 862-31	39710	wrap-around	1 1/4" ∅
	TEC 862-15	29151	side mount	1 1/4" ∅
	TEC 862-17	29153	side mount	1 5/16" ∅
	TEC 862-16	29152	wrap-around	1 3/8" ∅
	TEC 862-13	29149	side mount	1 7/16" ∅
TEC 862-33	39712	wrap-around	1 1/2" ∅	
TEC 862-12	29148	side mount	1 1/2" ∅	

∅ Zero Protrusion- Door does not protrude into opening

U.S. Patent #5,826,305 and #5,604,956

TEC 862

108° Face Frame Hinge Series

Ordering Information

Packaging:

300 pieces 

VS8 = vertical steel cup with two 8mm dowels,

VS8-45 = vertical steel cup with two 8mm dowels in 45mm boring pattern

	Description - Nickel Finish	Item #	Baseplate	Overlay
TEC 862 Assemblies	TEC 862VS8 NI (19)	02814	face mount	Variable (min 1 3/8")
42mm Boring Pattern	TEC 862VS8 NI (81)	02886	wrap-around	3/8"
	TEC 862VS8 NI (68)	02866	side mount	3/8"
	TEC 862VS8 NI (77)	02874	side mount	7/16"
	TEC 862VS8 NI (82)	02891	wrap-around	1/2"
	TEC 862VS8 NI (22)	02817	side mount	1/2"
	TEC 862VS8 NI (70)	02870	side mount	9/16"
	TEC 862VS8 NI (69)	02868	side mount	5/8" ∅
	TEC 862VS8 NI (21)	02816	side mount	15/16" ∅
	TEC 862VS8 NI (20)	02815	side mount	1" ∅
	TEC 862VS8 NI (31)	02818	wrap-around	1 1/4" ∅
	TEC 862VS8 NI (15)	02810	side mount	1 1/4" ∅
	TEC 862VS8 NI (17)	02811	side mount	1 5/16" ∅
	TEC 862VS8 NI (16)	03209	wrap-around	1 3/8" ∅
	TEC 862VS8 NI (13)	02806	side mount	1 7/16" ∅
	TEC 862VS8 NI (33)	02820	wrap-around	1 1/2" ∅
	TEC 862VS8 NI (12)	02805	side mount	1 1/2" ∅
TEC 862 Assemblies	TEC 862VS8-45 NI (19)	02829	face mount	Variable (min 1 3/8")
45mm Boring Pattern	TEC 862VS8-45 NI (81)	02887	wrap-around	3/8"
	TEC 862VS8-45 NI (68)	02867	side mount	3/8"
	TEC 862VS8-45 NI (77)	02875	side mount	7/16"
	TEC 862VS8-45 NI (82)	02892	wrap-around	1/2"
	TEC 862VS8-45 NI (22)	02832	side mount	1/2"
	TEC 862VS8-45 NI (70)	02871	side mount	9/16"
	TEC 862VS8-45 NI (69)	02869	side mount	5/8" ∅
	TEC 862VS8-45 NI (21)	00123	side mount	15/16" ∅
	TEC 862VS8-45 NI (20)	02830	side mount	1" ∅
	TEC 862VS8-45 NI (31)	02833	wrap-around	1 1/2" ∅
	TEC 862VS8-45 NI (15)	03211	side mount	1 1/4" ∅
	TEC 862VS8-45 NI (17)	03212	side mount	1 5/16" ∅
	TEC 862VS8-45 NI (16)	02826	wrap-around	1 3/8" ∅
	TEC 862VS8-45 NI (13)	03210	side mount	1 7/16" ∅
	TEC 862VS8-45 NI (33)	02835	wrap-around	1 1/2" ∅
	TEC 862VS8-45 NI (12)	02824	side mount	1 1/2" ∅

∅ Zero Protrusion- Door does not protrude into opening

TEC 861 Square Hole Design

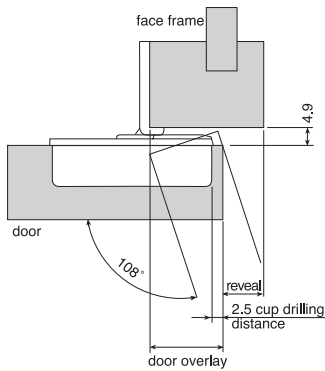
108° Face Frame Hinge Series



- One piece hinge and baseplate combination designed with depth adjustment
- Locating tabs for easy mounting on frames
- Height adjustment in elongated screw hole
- Depth adjustment to allow for warped doors
- Competitively priced
- Shallow 10.5mm cup for variety of door profiles
- Works on door thicknesses from 13mm (1/2") to 19mm (3/4")

TEC 861 Square Hole

Example of square edge door with 2.5mm cup drilling distance

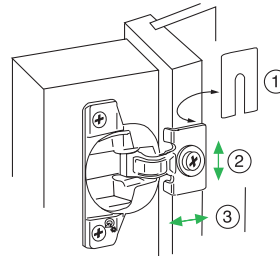


Hinge Adjustments

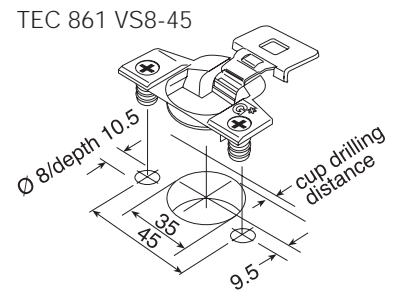
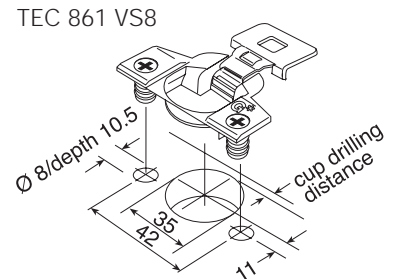
- ① Side Adjustment: Achieved with use of 1.5mm (1/16") spacer
- ② Height Adjustment +/-2mm
Loosen screw, align door, tighten screw
- ③ Depth Adjustment +1.5mm
Loosen screw, align door, tighten screw

Hinge fastening screw:
#6 x 5/8" FHP, #6 x 1/2" FHP

Baseplate fastening screw:
#8 x 3/4" Washer head



Installation Measurements



IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.

TEC 861 Minimum Reveal (measured in millimeters)

Door thickness

	16	17	18	19
TEC 861	3.2	3.9	4.6	5.1

Ordering Information

Packaging:

400 pieces

VS= vertical steel cup,

VS8 = vertical steel cup with two 8mm dowels,

VS8-45 = vertical steel cup with two 8mm dowels in 45mm boring pattern

	Description - Nickel Finish	Item #	Baseplate	Overlay
TEC 861 - Square Hole	TEC 861VS (47)	02909	side mount	7/16"
	TEC 861VS8 (47)	02807	side mount	7/16"
	TEC 861VS8 (46)	02808	side mount	1/2"
	TEC 861VS8-45 (46)	02856	side mount	1/2"

U.S. Patent #5,604,956 Re: 34.995

TEC 861

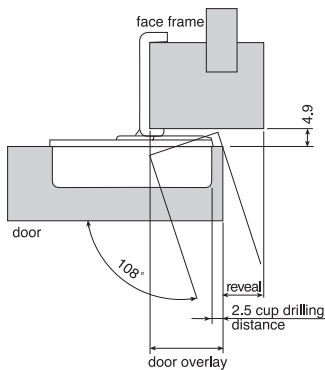
108° Face Frame Hinge Series



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- One piece hinge and baseplate combination
- Locating tabs for easy mounting on frames
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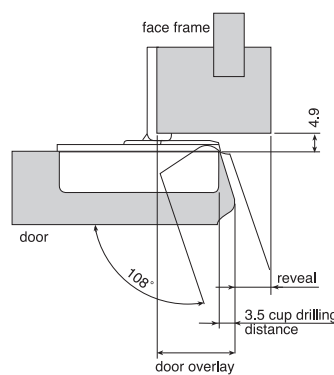
TEC 861
wrap-around baseplate

Example of square edge door with 2.5mm cup drilling distance



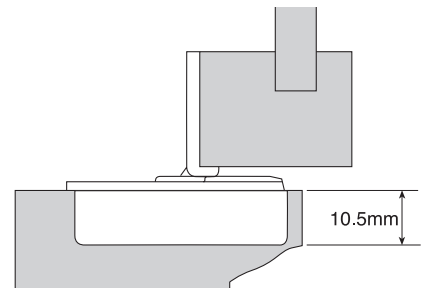
TEC 861
with side-mount baseplate

Example of door with back bevel 3.5mm cup drilling distance



Maximum Door Thickness

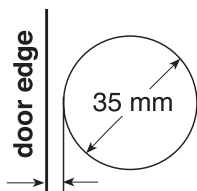
For 861 13mm (1/2") to 19mm (3/4") square corner



Note allowance for deep profiles on door edge

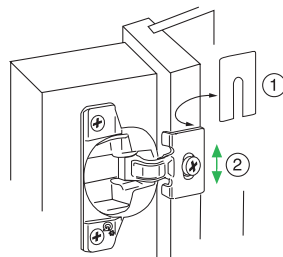
Cup Drilling

Cup Drilling Depth: 10.5mm (27/64")
Cup Drilling Distance: 2.5mm (3/32") - 3.5mm (9/64") depending on application



Hinge Adjustments

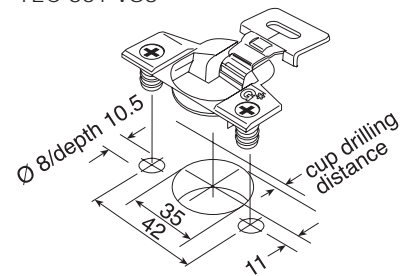
- ① Side Adjustment: Achieved with use of 1.5mm (1/16") spacer
 - ② Height Adjustment +/-2mm
Loosen screw, align door, tighten screw
- Hinge fastening screw:
#6 x 5/8" FHP, #6 x 1/2" FHP
Baseplate fastening screw:
#10 x 3/4" RHP



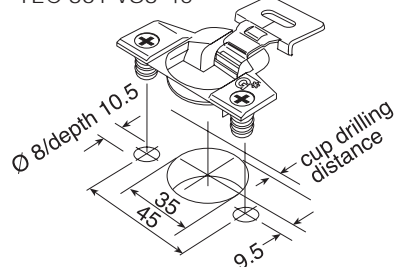
Shown with spacer 860-076

Installation Measurements

TEC 861 VS8



TEC 861 VS8-45



108° Face Frame Hinge Series

IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.

TEC 861 Minimum Reveal (measured in millimeters)

	Door thickness			
	16	17	18	19
TEC 861	3.2	3.9	4.6	5.1

Ordering Information

Packaging:
400 pieces 

VS = vertical steel cup,

VS8 = vertical steel cup with two 8mm dowels,

VS-45 = vertical steel cup in 45mm boring pattern,

VS8-45 = vertical steel cup with two 8mm dowels in 45mm boring pattern

	Description - Nickel Finish	Item #	Baseplate	Overlay
TEC 861 - Screw-on	TEC 861VS (08) *	02795	wrap-around	1/4"
42mm Boring Pattern	TEC 861VS (06)	02789	wrap-around	7/16"
	TEC 861VS (35)	02906	side mount	7/16"
	TEC 861VS (05)	30726	wrap-around	1/2"
	TEC 861VS (34)	02911	side mount	1/2"
	TEC 861VS (10)	30724	wrap-around	9/16"
	TEC 861VS (07)	02793	side mount	5/8" ø
TEC 861 - Dowelled	TEC 861VS8 (08) *	02794	wrap-around	1/4"
42mm Boring Pattern	TEC 861VS8 (65)	02876	side mount	5/16"
	TEC 861VS8 (67)	02880	side mount	3/8"
	TEC 861VS8 (06)	02788	wrap-around	7/16"
	TEC 861VS8 (35)	02859	side mount	7/16"
	TEC 861VS8 (05)	30725	wrap-around	1/2"
	TEC 861VS8 (34)	02865	side mount	1/2"
	TEC 861VS8 (10)	29138	wrap-around	9/16"
	TEC 861VS8 (54)	02860	side mount	9/16"
	TEC 861VS8 (07)	02792	side mount	5/8" ø
TEC 861-45 - Dowelled	TEC 861VS8-45 (08) *	02796	wrap-around	1/4"
45mm Boring Pattern	TEC 861VS8-45 (06)	02790	wrap-around	7/16"
	TEC 861VS8-45 (35)	02862	side mount	7/16"
	TEC 861VS8-45 (05)	00108	wrap-around	1/2"
	TEC 861VS8-45 (34)	02864	side mount	1/2"
	TEC 861VS8-45 (10)	02798	wrap-around	9/16"
	TEC 861VS8-45 (07)	30727	side mount	5/8" ø

* Use spacer # 00264 or # 00047

ø Zero Protrusion- Door does not protrude into opening

U.S. Patent #5,604,956 Re: 34.995

TEC 872

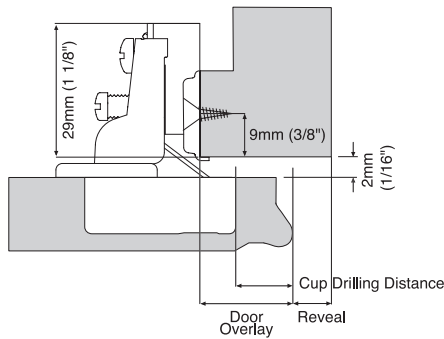
110° Face Frame Hinge Series



- 1/2" overlay achievable on profile door
- Available in standard Grass 42mm pattern and 45mm pattern
- 3-dimensional hinge
- All metal construction, nickel finish
- Height adjustment in elongated screw hole
- Minimal gap between the door and frame
- Minimal protrusion into cabinet

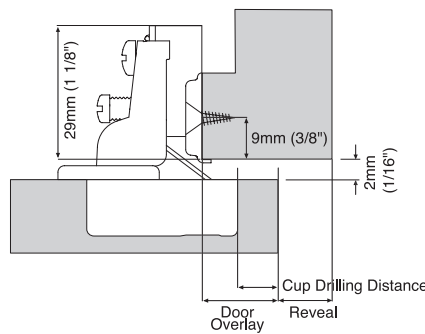
1/2" Overlay (Achievable on profile door)

Maximum Door Overlay: 15mm (9/16") using all available side adjustment.



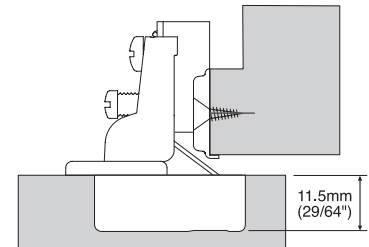
11/16" Overlay

Maximum Door Overlay: 19mm (3/4") using all available side adjustment.



Maximum Door Thickness

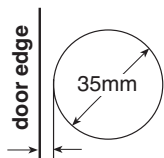
Maximum Door Thickness for 872: 19mm (3/4") square corner.



Cup Drilling

Cup Drilling Depth: 11.5mm (29/64")

Cup Drilling Distance: 3.0mm (1/8") to 7.0mm (9/32")



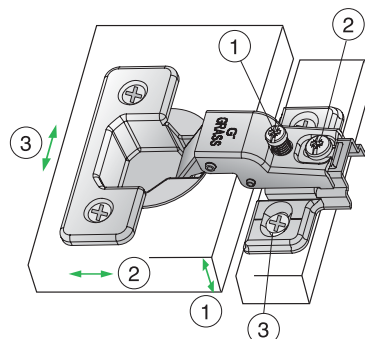
Hinge Adjustments

- ① Side Adjustment +/-2mm
- ② Depth Adjustment +2mm
- ③ Height Adjustment +/-2mm

Note: Use a POZIdrive screwdriver for hinge adjustment.

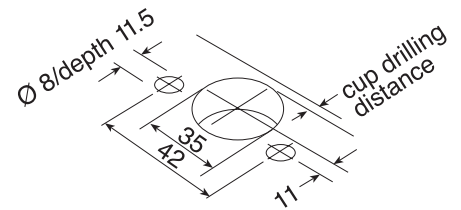
Fastening Screws: #6 x 5/8" FHP, #6 x 1/2" FHP

Baseplate Screws: #6 x 5/8" FHP, #6 x 3/4" FHP

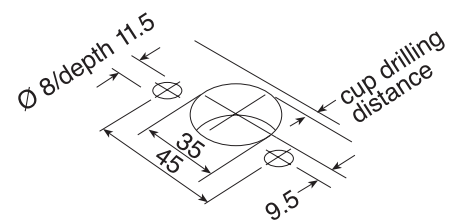


Installation Measurements

TEC 872 VS8



TEC 872 VS8-45



TEC 872-22 Overlay Chart

Cup drilling distance	Door Overlay
3	9 (23/64")
4	10 (25/64")
5	11 (7/16")
6	12 (15/32")
7	13 (1/2")

TEC 872-18 Overlay Chart

Cup drilling distance	Door Overlay
3	13.5 (17/32")
4	14.5 (9/16")
5	15.5 (5/8")
6	16.5 (21/32")
7	17.5 (11/16")

IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.

Ordering Information

Packaging:

Hinges: 500 Bulk Box

Baseplates: 500 Bulk Box

VS = vertical steel cup,

VS8 = vertical steel cup with two 8mm dowels,

VS-45 = vertical steel cup in 45mm boring pattern,

VS8-45 = vertical steel cup with two 8mm dowels

in 45mm boring pattern

	Description	Item #	Overlay
TEC 872 Hinges	TEC 872 VS	43726	
	TEC 872 VS-45	43727	
	TEC 872 VS8	43728	
	TEC 872 VS8-45	43729	
TEC 872 Baseplates	872-18 side mount	43730	11/16"
	872-22 side mount	43731	1/2"
TEC 872 Hinge & Baseplate Assemblies	TEC 872 VS8 (18)	43736	11/16"
	TEC 872 VS (22)	43734	1/2"
	TEC 872 VS8 (22)	43732	1/2"
	TEC 872 VS8-45 (22)	43733	1/2"

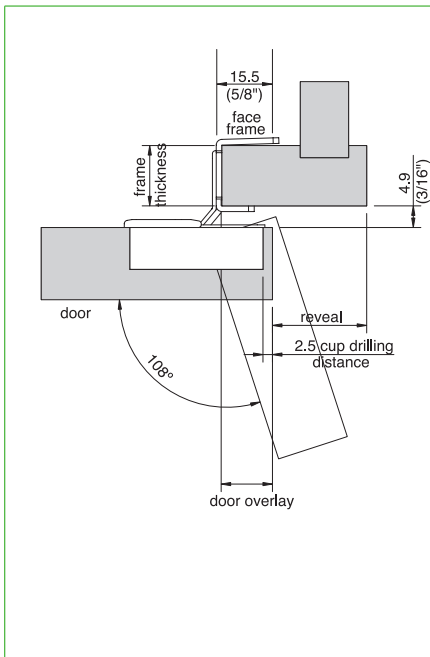
TEC 861 for MDF

108° Face Frame Hinge Series for MDF Frame Material



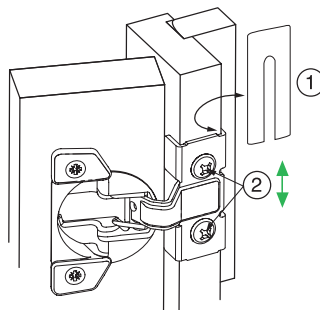
- Designed for MDF frame material
- Patented wrap design prevents splitting of frame material
- All metal construction with heat tempered band arm
- Required door size is 1" larger than opening
- 108° opening angle
- Heat tempered self-closing mechanism
- Two-way adjustment
- Meets and exceeds KCMA standards

TEC 861 for MDF



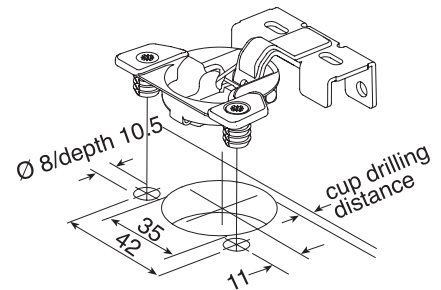
Hinge Adjustments

- ① Side Adjustment: Achieved with use of 1.5mm (1/16") spacer
 - ② Height Adjustment +/-2mm
Loosen screws, align door, tighten screws
- Hinge fastening screw:
#6 x 5/8" FHP, #6 x 1/2" FHP
Baseplate fastening screw:
#8 x 3/4" RHP-TR



Shown with spacer #00209

Installation Measurements



IMPORTANT

To determine the correct application, Grass strongly recommends a trial mounting for all hinges and baseplates.

TEC 861 Minimum Reveal (measured in millimeters)

Door thickness

	16	17	18	19
TEC 861	3.2	3.9	4.6	5.1

Ordering Information

Packaging:

250 pieces

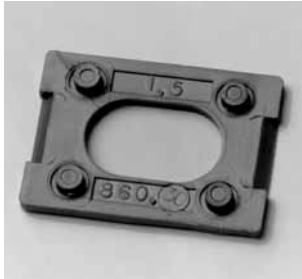
VS8 = vertical steel cup with two 8mm dowels,

	Description - Nickel Finish	Item #	Frame Thickness	Overlay
TEC 861 for MDF	TEC 861VS8 (85)	30396	1/2"	1/2"
	TEC 861 VS8 (93)	30397	5/8"	1/2"
	TEC 861 VS8 (94)	30398	3/4"	1/2"
Spacer	1.5mm (1/16") slotted for #30396 (100pcs)	00209		
Screws	#8x3/4" RHP-TR ZP (500)	81018		

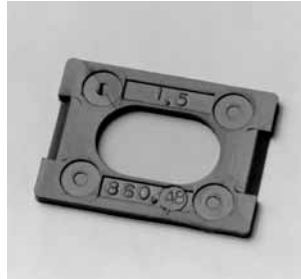
U.S. Patent #s 5,604,956, 6,167,590, 6,125,510, 6,170,121

TEC 860 Spacers

860-030



860-048



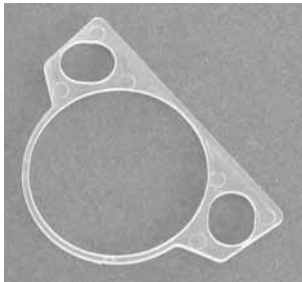
860-076



860-075



Hinge Cup Spacer



Screws

Screws



Bits

Bit Set



No Tip Bit Set



Ordering Information

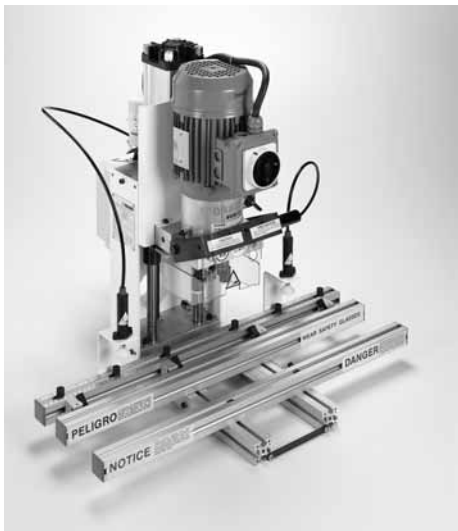
	Description	Item #	Packaging
Spacers	860-030 Plastic spacer w/ pin, 1.5mm (1/16")	88881	200
	860-048 Plastic spacer w/o pin, 1.5mm (1/16")	00264	200
	860-076 Plastic spacer w/ slot, 1.5mm (1/16")	00047	200
	860-075 Plastic spacer w/ lip 1.5mm (1/16")	00041	200
	Hinge Cup Spacer 1.3mm (1/16")	00284	100
Screws	#10 x 3/4" RHP, NI	81007	500
	#8 x 3/4" Washer Head Screws	81010	500
	#6 x 5/8" FHP, NI	81001	500
	#6 x 1/2" FHP, NI	81014	500
Drill Bits	American Bit Set (1x35mm RH, 2x8mm LH)	00213	each
	No Tip Bit Set (1x35mm RH, 2x8mm LH)	00008	each

Ecopress

Pneumatic and Manual Drilling and Insertion Machines

Ecopress - Pneumatic

- Easy add-on gearbox for 32mm drilling
- Bore depth automatically sets to material thickness
- Functional design
- Accurate fence is easily adjusted
- Chip removal by air
- Easy, fast and efficient operation
- Easy maintenance



Basic Outfit

Work table 450 x 730mm
 Pneumatic holddown kit
 5-spindle gearbox for hinges,
 baseplates and Zargen
 2 side stops, left
 1 side stop, right
 1 side stop, 13mm, right
 Insertion arm
 Tool set
 Operating instructions

Note: Bits not included
 Power supply
 Pneumatic: 80 psi compressed air, dry

Ordering Information

Description	Item #
Ecopress 440v/3ph	94559
Ecopress 220v/3ph	91932
Ecopress 220v/1ph	91931
Ecopress 110v/1ph	91933

Ecopress - Manual

- Easy add-on gearbox for 32mm drilling
- Bore depth automatically sets to material thickness
- Functional design
- Accurate fence is easily adjusted
- Easy, fast and efficient operation
- Easy maintenance
- No air required



Basic Outfit

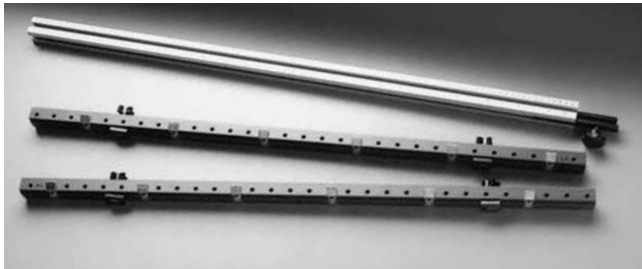
Work table 450 x 730mm
 5-spindle gearbox for hinges,
 baseplates and Zargen
 2 side stops, left
 1 side stop, right
 1 side stop, 13mm, right
 Insertion arm
 Tool set
 Operating instructions

Note: Bits not included

Ordering Information

Description	Item #
Ecopress 220v/1ph	91935
Ecopress 110v/1ph	91934

Extension Bar and Line Boring Guide



Gearbox and Insertion Dies



Ordering Information

Packaging: Each

Description	Item #
Ecopress TEC 872 Insertion Die	00057
Ecopress TEC 860 Insertion Die-Plastic	30683
Ecopress TEC 860 Insertion Die-Aluminum	00012
Ecopress 5-spindle gearbox for line boring	93785
3703/3803/383VS8 Insertion Die	90282
3903VZ8 Insertion Die	37552
3000 Straight Baseplate Insertion Die	90267
173/373/673VS8 Insertion Die - Plastic	30687
173/373/673VS8 Insertion Die - Aluminum	00011
193/393VZ8 Insertion Die	94351
Atlas 9603 VZE Insertion Die	00055
Extension Bar, Type 1, 360-1360mm (1 pc)	37535
Extension Bar, Type 2, 1360-2360mm (1 pc)	37536
Line Boring Guide	13967
Linebore Guide for Hinging	30915
1/4" Ring Pin	30916
Ecopress Side-to-Side Stop	13902
Revolving Stop for Ecopress	93834
Additional Stop, Left	89610
Additional Stop, Right	89510
Additional Stop Quick Change Ratchet	30394
Raised Panel Stop	00292
Side Stop, Right Hand, 13mm	90520
Side Stop, Right Hand, 15mm	92045
Fence Pin	90521
2mm Spacer for Depth Stop	30952
3mm Spacer for Depth Stop	30951
5mm Spacer for Depth Stop	30950
GMI TEC 860 Insertion Die	30684
GMII TEC 860 Insertion Die	30685
860 I/D plate for GMI/GMII Insertion Die	30686
GMII TEC 872 Insertion Die	30657



The star in your cabinet

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