



SISW BACKWARD CURVED CENTRIFUGAL FANS



HIGH PERFORMANCE SISW BC CENTRIFUGAL FANS

BSZ Series

Leading manufacturer of technologically Advanced Centrifugal Blowers Specifically designed and developed for high performance, reliability and energy efficiency.



SAGAR AIR PVT. LTD.

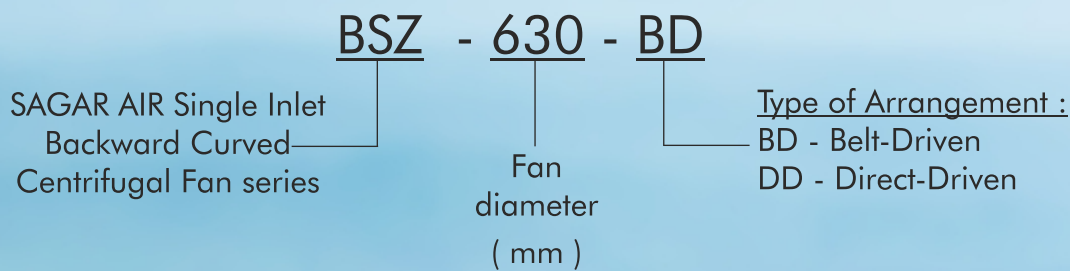
Introducing BSZ Series Centrifugal Fans

Superior Design for High Performance

Single Inlet Backward Curved Centrifugal Fan : BSZ Series

SAGAR AIR BSZ series fans are SISW centrifugal fans with high efficiency and practicality. These fans possess Single Inlet Backward Curved radial impeller with non-overloading characteristics. The fan is such designed to suit varied duties providing maximum air performance at minimal costs. Developed with the latest Indian Technology, these fans are power-packed with high performance and effectivity. Customers are offered various models for their selection as per their requirement. These fans have low noise operation and are green towards environment. These fans are known for their high air efficiency and find varied applications in many HVAC sectors.

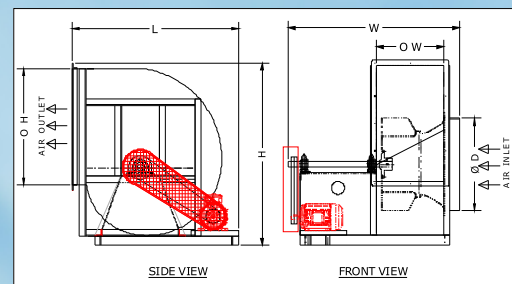
Product Coding :



BSZ - BD Model :

Single Inlet Backward Curve blades suitable for belt-driven applications.

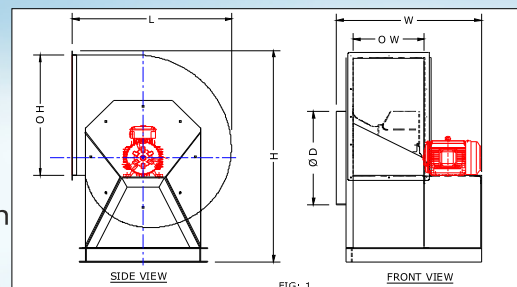
Fitted with Pillow Block bearings on a special frame externally for obstruction free inlet connection.



BSZ - DD Model :

Single Inlet Backward Curve blades suitable for belt-driven applications.

Fitted with an efficient yet powerful Direct Driven motor on a special frame externally for obstruction free inlet connection.



Rigid Construction

High Operational Performance

Sophisticated Design

Low and Inexpensive Maintenance

Superior Dynamic Balancing

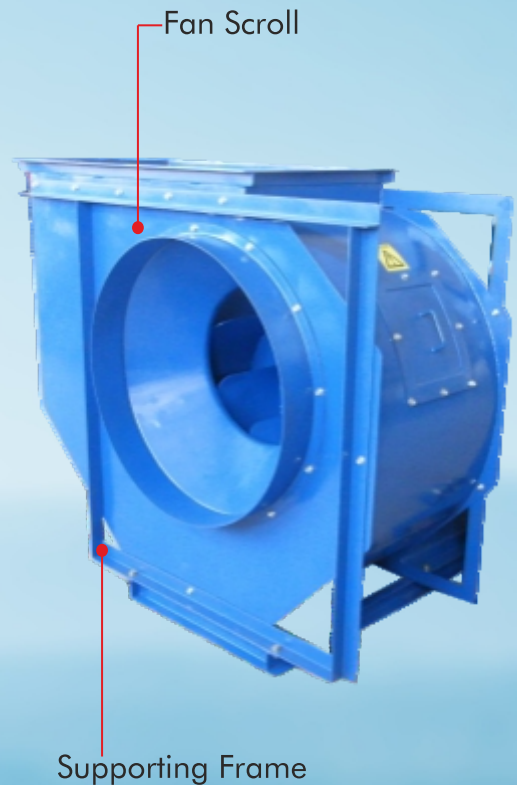
Low Operating Noise and Vibration

Construction Features :

High Durability. Guaranteed.

Fan Scroll Housing :

- The Fan Scroll Housing is made of galvanized Steel sheet (GI).
- The outlet of side plate is aerodynamically designed for maximum air flow efficiency and the scroll plate is fixed upon the side plates by electric spot welding.
- All Fan Scroll Housings have lubricating bore holes for possibility of secondary lubrication. A synthetic stopper is used to seal the holes for added protection.
- High Grade cold rolled sheet is used to make inlet flange. The inlet flange is finished with polyester powder coat.
- The outlet flange is made of Galvanised Steel (GI).
- On the whole , The Fan Scroll Housing is made rigid and strong by stringent manufacturing methods to make it full on quality and high on performance.

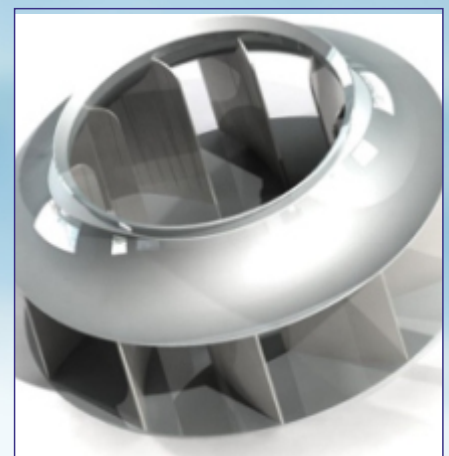


Supporting Frame :

- The frame is welded by an angle steel and flat steel.
- All frames are finished with a polyester powder coating to avoid corrosion and for a superior look.

Impeller :

- The Fan comprises of Backward Curve radial Impeller made of high grade cold rolled steel sheet and finished with polyester coat.
- These Impellers are welded, statically and dynamically balanced for maximum air performance and superior rigidity.



Inlet Cone :

- The provided inlet cones are made of high quality FRP designed aerodynamically for better efficiency.
- For fans of bigger sizes, Inlet cones are made of steel sheet for better efficiency.

Bearings :

- High Grade Pre-lubricated grooved ball bearings are used in all BSZ series fans. These ball bearings are sealed and self-centered for smooth functioning of the fan.
- High Quality self centered pillow block bearings are mounted.



Shaft :

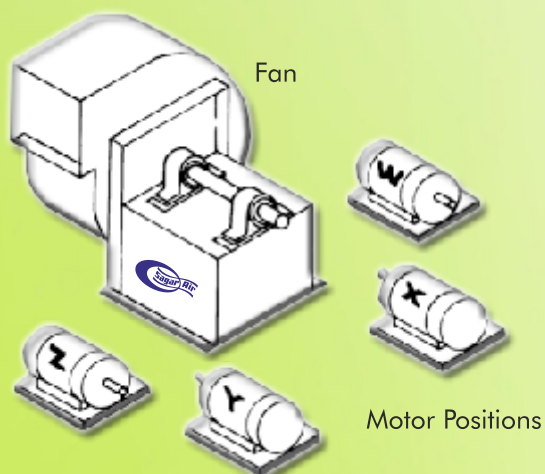
- Shafts are made of carbon steel bars (C45) which are pre-machined and stress tested prior to the installation.
- These shafts follow strict quality standards ensuring maximum precision, smoothness and fit.
- They are finished with polyester powder coat to avoid corrosion.



Optional Accesories :

- Casing Drain : This is a useful option when fans are exposed to the atmosphere or when operating at high humidity.
- Outlet and Inlet Flanges : available on request.
- Guards : Inlet guards, non-drive end shaft guards, discharge guards are available on request.
- Silencers : Silencers provide effective sound attenuation. These are available on request.
- Inspection Doors : available on request.

Motor Position Layout :

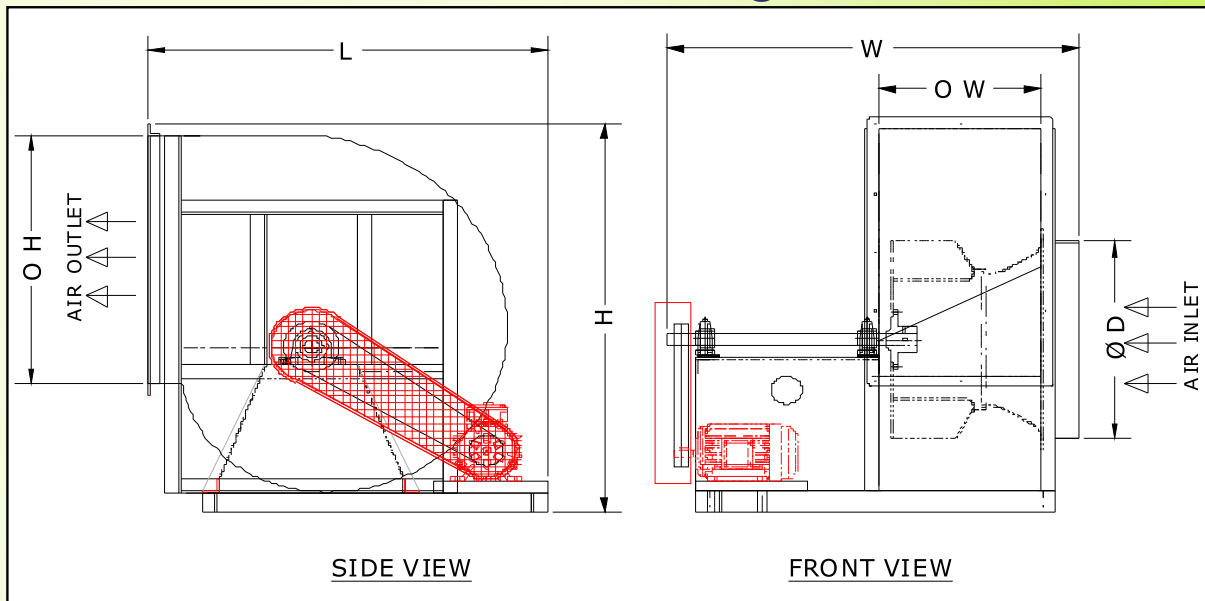


The layout of the motor, indicated by symbols Z, Y, X, W is seen perpendicular to the mounting surface of the fan. Motor is mounted at either position Z or W by default.

However, X and Y motor positions are very rarely used.

Technical Specs : Belt-Driven

Side Discharge

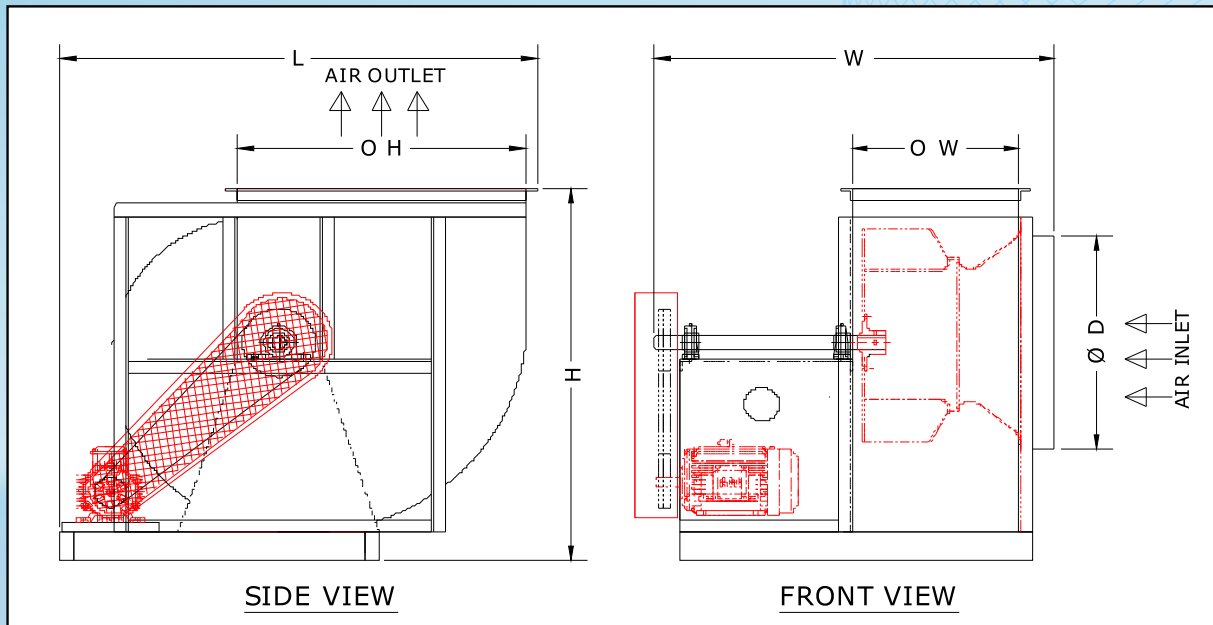


Fan Model	Air Volume		Overall Dimensions mm			OV (m/s)	Fan Opening	Air Inlet	TYPICAL OPERATING POINT MOTOR KW		
	CFM	CMH	L	W	H				TSP - MM		
BSZ - 355	2000	3400	800	760	750	9.1	262x452	355	1.1	1.5	2.2
BSZ - 400	2500	4250	900	800	810	9.1	292x505	400	1.1	1.5	2.2
BSZ - 450	3000	5100	1000	950	950	8.6	328x567	450	1.5	2.2	2.2
BSZ - 500	4000	6800	1500	1000	1250	9.2	500 x 500	500	1.5	2.2	3.7
BSZ - 560	5000	8500	1500	1150	1250	9.1	560 x 560	560	2.2	3.7	5.5
BSZ - 630	6000	10200	1500	1300	1500	8.8	630 x 630	630	3.7	3.7	5.5
BSZ - 710	8000	13600	1700	1500	1550	9.3	710 x 710	710	3.7	5.5	5.5
BSZ - 800	10000	17000	2000	2000	1700	9.2	800 x 800	800	5.5	5.5	7.5
BSZ - 900	13000	22100	2000	2300	1700	9.2	900 x 900	900	5.5	7.5	11
BSZ - 1000	16000	27200	2300	2500	2000	9.3	1000 x 1000	1000	7.5	8.8	13

- Casing :Galvanized Iron fan casing for sizes upto BSZ-560 , MS Welded Construction above sizes above .
- Motor System : Equipped with Highly efficient and powerful Belt Driven Foot Mount motor of high quality which provides reliable air delivery at nominal maintenance costs. The motor is Squirrel caged induction motor with Class F insulation.

Technical Specs : Belt-Driven

Top Discharge

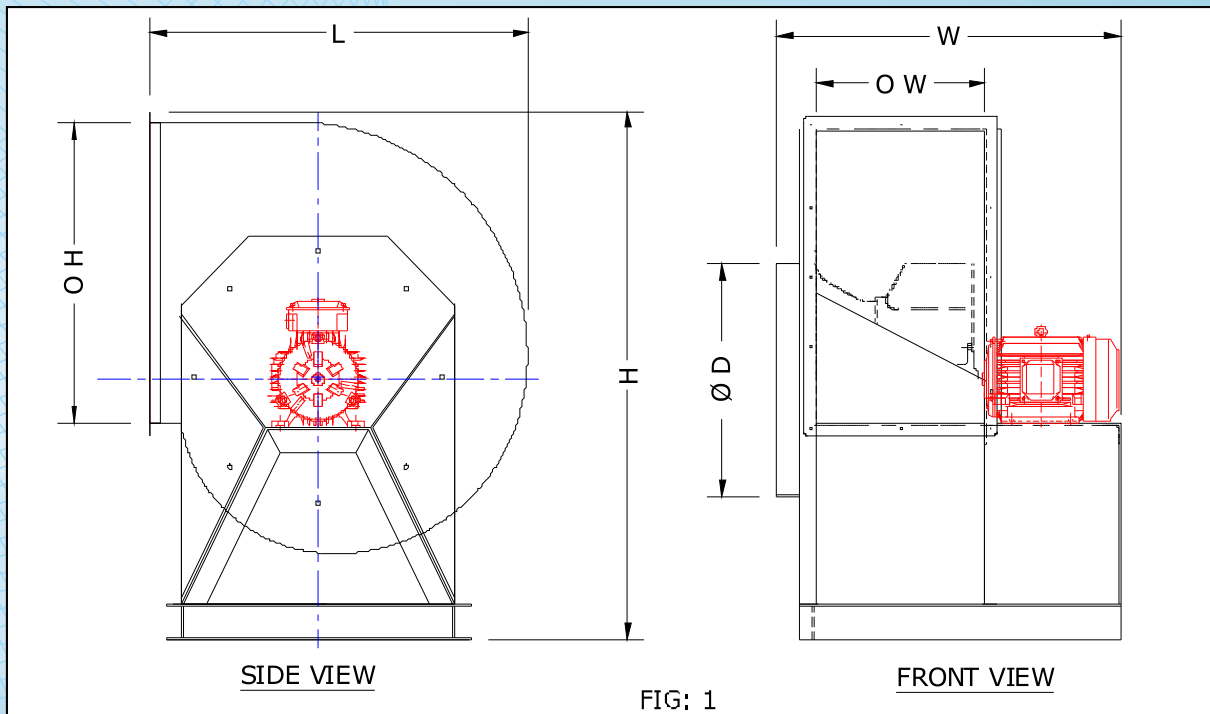


Fan Model	Air Volume		Overall Dimensions mm			OV (m/s)	Fan Opening	Air Inlet	TYPICAL OPERATING POINT		
									MOTOR KW		
	CFM	CMH	L	W	H		OWxOH	D	50	75	100
BSZ - 355	2000	3400	1000	800	700	9.1	262x452	355	1.1	1.5	2.2
BSZ - 400	2500	4250	1050	800	750	9.1	292x505	400	1.1	1.5	2.2
BSZ - 450	3000	5100	1100	900	850	8.6	328x567	450	1.5	2.2	2.2
BSZ - 500	4000	6800	1200	950	900	9.2	500 x 500	500	1.5	2.2	3.7
BSZ - 560	5000	8500	1300	1150	1050	9.1	560 x 560	560	2.2	3.7	5.5
BSZ - 630	6000	10200	1400	1200	1150	8.8	630 x 630	630	3.7	3.7	5.5
BSZ - 710	8000	13600	1600	1300	1300	9.3	710 x 710	710	3.7	5.5	5.5
BSZ - 800	10000	17000	1700	1400	1400	9.2	800 x 800	800	5.5	5.5	7.5
BSZ - 900	13000	22100	1900	1600	1550	9.2	900 x 900	900	5.5	7.5	11
BSZ - 1000	16000	27200	2100	1750	1700	9.3	1000 x 1000	1000	7.5	8.8	13

- Casing :Galvanized Iron fan casing for sizes upto BSZ-560 , MS Welded Construction above sizes above .
- Motor System : Equipped with Highly efficient and powerful Belt Driven Foot Mount motor of high quality which provides reliable air delivery at nominal maintenance costs. The motor is Squirrel caged induction motor with Class F insulation.

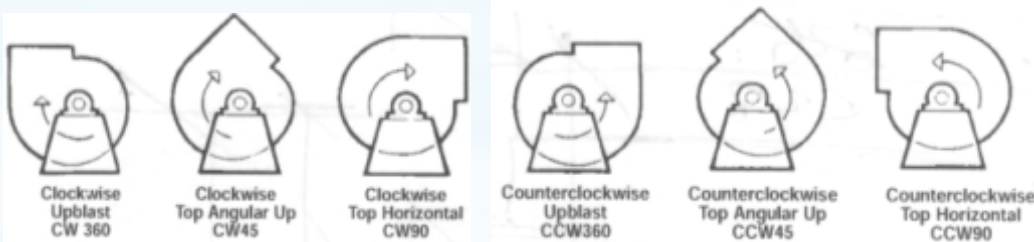


Technical Specs : Direct -Driven



Fan Model	CFM AT TOTAL STATIC PRESSURE				MOTOR		Overall Dimensions mm						OV (m/s)	Fan Opening OWxOH	Air Inlet D	STATIC EFF %
	50	60	75	90	RPM	KW	FRONT DIS			TOP DIS						
							L	W	H	L	W	H				
BSZ - 500	4600	4000	3400	1762	1440	2.2	800	770	1150	800	770	1050	9.2	500 x 500	500	65.3
BSZ - 560	6925	6545	5789	5000	1440	3.7	950	900	1250	1200	810	1150	9.1	560 x 560	560	67.1
BSZ - 630	10475	9914	9352	8829	1440	5.5	1150	1100	1150	1150	1100	1200	9.5	630 x 630	630	72.9
BSZ - 710	9431	8500	6598	4331	1000	5.5	1165	1180	1400	1300	1250	1200	9.9	710 x 710	710	67.2
BSZ - 800	14555	13755	12156	10000	1000	5.5	1350	1300	1400	1350	1300	1400	9.2	800 x 800	800	72.8

- Casing : Rigid Galvanized Iron fan casing.
- Fully Rotatable Fan System in 3 orientations for various requirements
- Motor System : Equipped with Highly efficient and powerful Direct drive motor of high quality which provides reliable air delivery at nominal maintenance costs. The motor is Squirrel caged, Direct Drive induction motor with Class F insulation.



Fan Ordering Form :

Fan Details	
Fan Type :	<input type="checkbox"/> DIDW <input type="checkbox"/> SISW <input type="checkbox"/> Forward Curved <input type="checkbox"/> Backward Curved
Type of impeller :	
Model (if known) :	
Type of Drive :	<input type="checkbox"/> Belt <input type="checkbox"/> Direct <input type="checkbox"/> Coupling
System arrangement :	<input type="checkbox"/> Only Fan <input type="checkbox"/> Complete with drive system
Fan Rotation :	<input type="checkbox"/> CW <input type="checkbox"/> ACW
Fan Discharge :	<input type="checkbox"/> 90 <input type="checkbox"/> 180 <input type="checkbox"/> 270 <input type="checkbox"/> 360 <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
Motor Position (refer the diagram) :	
Air Flow Rate :	<input type="checkbox"/> CFM <input type="checkbox"/> CMH _____ Pa _____ atmos
Static Pressure :	
Total Pressure :	
Fan RPM :	Max: _____ Min: _____
Noise level :	<input type="checkbox"/> dB <input type="checkbox"/> dBA <input type="checkbox"/> °C <input type="checkbox"/> K
Ambient Temperature :	
Air Density (if different from standard) :	_____ kg/m ³
Motor Details	
Motor Power :	<input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> HP <input type="checkbox"/> kW
No of poles :	
RPM (if different from standard model) :	
Voltage :	<input type="checkbox"/> 220 V <input type="checkbox"/> 440 V <input type="checkbox"/> 415 V
Phase :	<input type="checkbox"/> 1 - ph <input type="checkbox"/> 3 - ph
Frame Size :	<input type="checkbox"/> IEC <input type="checkbox"/> others
Preferred make :	Brand : _____
Plug-in Accessories :	
	<input type="checkbox"/> Inspection doors <input type="checkbox"/> Drain plug <input type="checkbox"/> flexible duct
	Vibrational Isolators : <input type="checkbox"/> Rubber <input type="checkbox"/> Floor-mounted <input type="checkbox"/> Spring <input type="checkbox"/> Ceiling-hanging
	<input type="checkbox"/> Silencers : <input type="checkbox"/> With pod outlet <input type="checkbox"/> Without pod inlet <input type="checkbox"/> Both outlet and inlet
	<input type="checkbox"/> Counter -Flanges : <input type="checkbox"/> L-Type <input type="checkbox"/> U-Type <input type="checkbox"/> Flat <input type="checkbox"/> Inlet <input type="checkbox"/> outlet
Special Requirements :	
	<input type="checkbox"/> Painting <input type="checkbox"/> Powder coating <input type="checkbox"/> Hot-dipped galvaizing <input type="checkbox"/> spark resistance <input type="checkbox"/> Heat resistance



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