



## Professional Accessories for Stirrer Shafts



CAT. NO.: C 520-...

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### **BOLA Magnetic Stirrer Heads**

Ideal stirrer coupling for PTFE-jacketed stirrer shafts from BOLA



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### **BOLA Globe Stirrer Couplings**

Ideal for balancing misalignment of axes between agitator and stirrer shaft



CAT. NO.: C 448-...

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### **BOLA Stirrer Blades**

Can be used as single stirrer or step stirrer



Scan the QR code to access the German version of the brochure.



## BOLA Magnetic Stirrer Heads - good to know.



easy disassembly  
of all parts for  
cleaning



powerful power trans-  
mission up to 90 Ncm



excellent chemical  
resistance



high durability  
made of Hastelloy® or  
borosilicate glass



no grease required /  
safe to run dry



high speed of up to  
max. 1.500 rpm



drive shaft fixed for  
your safety



gas-tight power trans-  
mission through magnets,  
suitable for vacuum



# BOLA Magnetic Stirrer Heads (P-MRK)

Material: PTFE, Glass      Temperature resistance: from -100 °C bis +240 °C      Chemical resistance: +++ universal



FDA conform

CE

GLASS

**Product description:** Ideal stirrer head for PTFE-jacketed stirrer shafts from BOLA. Consisting of capsuled drive shaft (stainless steel) with ball bearings, rotor and lower bearing made of PEEK-Compound and a hot-low shaft made of borosilicate glass or Hastelloy®. Requires little space due to compact construction. No leakage or memory effects due to non-porous, welded rotor. Compression fittings for safe fixing of stirrer shaft and optimum power transmission. Joint-Cone with nut (Safe-Lab) for easy locking and unlocking of the ground joint. Square size 6 mm for accepting an agitator or a stirrer coupling.



For stirrer shaft dia d mm	Height H mm	Size NS	L2 Insertion length of shaft mm	Drive shaft D O.D. mm	Cat. No.:	*recomm. price EUR
8	145	29/32	95	50	C 520-24	1.073,22
10	145	29/32	95	50	C 520-28	1.148,51
10	145	45/40	95	50	C 520-48	1.104,85

## A Receiver made of borosilicate glass

» universal chemical resistance

will be delivered with a receiver made of borosilicate glass. All parts coming in contact with the medium are metal-free, i.e. they are made of different plastic compounds or glass and provide a very good chemical resistance. This version is especially suitable for applications with chemically highly aggressive or highly pure products and biocompatible.

NEW

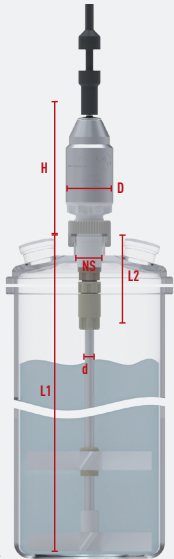
CE

## B Receiver made of Hastelloy®

» robust construction

will be delivered with a receiver made of Hastelloy®. Compared to glass, Hastelloy® is unbreakable and provides high chemical resistance. This version is especially suitable for applications with frequent disassembly of the stirrer shaft as there is no risk of glass breakage when inserting the stirrer shaft into the receiver.

For stirrer shaft dia d mm	Height H mm	Size NS	L2 Insertion length of shaft mm	Drive shaft D O.D. mm	Cat. No.:	*recomm. price EUR
8	145	29/32	95	50	C 530-08	1.253,53
10	145	29/32	95	50	C 530-10	1.287,44
10	145	45/40	95	50	C 530-15	1.245,03



### Applications:

- » Suitable for all BOLA Stirrer Shafts jacketed with PTFE. Ideal for reactor lids with center ground joint.
- » L1 The max. shaft length corresponds to the internal height from the top of the ground joint to the vessel bottom.



Loosen combi nut



Insert ground joint body



Fix ground joint body



Bake ground joint



Loosen ground joint



Free ground joint

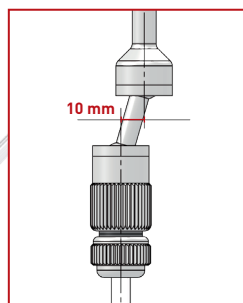
## BOLA PRACTICAL TIP

### Protecting glass stirrer shafts effectively

For protection against breaking, for example due to misalignment of axes simply use our globe stirrer coupling. It is very lightweight and therefore has only low centrifugal force.



## BOLA Globe Stirrer Coupling - good to know.



+ for stirrer shafts made of glass, stainless steel or coated with PTFE

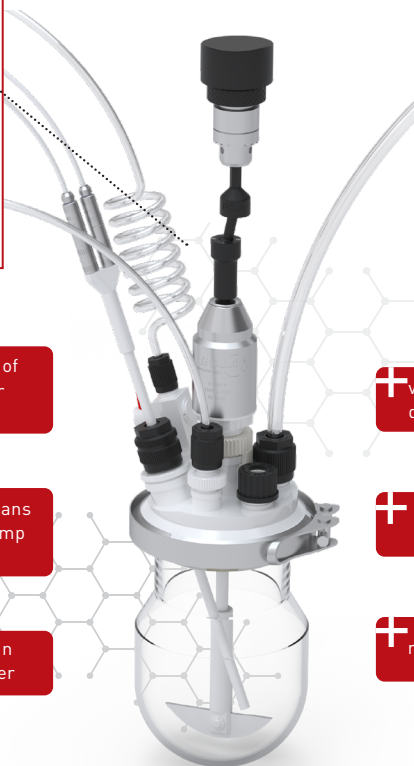
+ simple assembly by means of screw joints with clamp rings

+ pivot (length 90 mm) can be shortened by the user

+ very low centrifugal forces due to low weight

+ suitable for both left- and right-handed rotation

+ no resonance



# BOLA Globe Stirrer Couplings

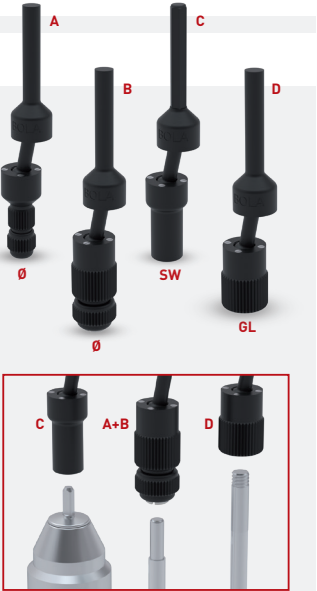
Material: POM  
Temperature resistance: from -30 °C bis +100 °C  
Chemical resistance: ++ sehr gut



**Product description:** Made of POM, a plastic material with a good mechanical strength, powerful transmission of up to 300 Ncm, suitable for a speed of up to 1.200 rounds per minute, maximum misalignment of axes 10 mm.

	Opening for stirrer shaft mm	Upper dia. mm	Total length mm	Cat. No.:	*recomm. price EUR
NEW A	Ø 4,0	8	190	C 394-01	137,24
A	Ø 4,0	10	190	C 398-04	134,46
NEW B	Ø 6,5 and 10,0	8	190	C 394-02	139,18
B	Ø 6,5 and 10,0	10	190	C 398-08	126,20
NEW B	Ø 8,0 and 10,0	8	190	C 394-03	129,11
B	Ø 8,0 and 10,0	10	190	C 398-12	129,17
C	Inner-square SW6	SW8	180	C 399-12	136,51
D	GL 10	10	170	C 393-12	164,13

**Applications:**  
Ideal for balancing misalignment of axes between agitator and stirrer shaft, suitable for glass, metal or BOLA stirrer shafts.



# BOLA Stirrer Bearings

Material: PTFE, PPS  
Temperature resistance: from -15 °C bis +200 °C  
Chemical resistance: +++ universal



FDA conform

**Product description:** Ground joint cone made of PTFE with sealing rings on the outside to prevent sticking of the connection and to reduce danger of breaking glass. A special gasket made of PTFE and an FPM o-ring which is compressed by a GL screw cap provide a good sealing of the stirrer shaft. This gasket can be exchanged after wearing.

Cone NS European standard	For stirrer shaft dia. mm	Total length mm	Thread of screw cap GL	Cat. No.:	*recomm. price EUR
NS 19/26	6	63	18	C 424-04	41,39
NS 19/26	8	65	25	C 424-05	38,97
NS 24/29	8	69	25	C 424-08	47,42
NS 24/29	10	70	25	C 424-09	56,26
NS 29/32	6	72	18	C 424-12	45,22
NS 29/32	8	74	25	C 424-13	44,09
NS 29/32	10	72	25	C 424-14	41,85
NS 45/40	10	80	25	C 424-16	54,78
NS 45/40	16	86	32	C 424-18	61,60

Cone NS European standard	For stirrer shaft dia. mm	Total length mm	Thread of screw cap GL	Cat. No.:	*recomm. price EUR
24/40	8	80	25	C 429-14	56,09
24/40	10	80	25	C 429-18	57,06

**Applications:** Suitable for vacuum, perfect bearing for stainless steel, glass and BOLA Stirrer Shafts





## BOLA Stirrer Blades - **good to know.**

+ clamp screw ensures torsion-proof fastening on the stirrer shaft

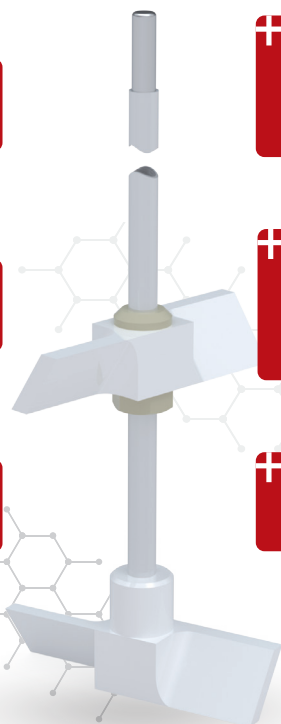
+ suitable for stirrer shafts made of glass, stainless steel or jacketed with PTFE

+ blades can be fixed at requested height and independent from the direction of rotation

+ Stirrer blade made of PTFE and clamp screws made of PEEK-Compound offer an excellent chemical and thermal resistance.

+ Stirrer shafts can be enlarged for several stages by means of our stirrer blades for a better mixing high and slim vessels.

+ individual blade shapes for optimized mixing can be manufactured on request



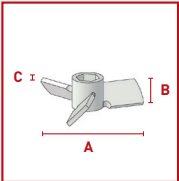
# BOLA Stirrer Blades

Material: PTFE      Temperature resistance: from -100 °C bis +240 °C      Chemical resistance: +++ universal      Stirring effect: bottom-up

## Type: BOLA Propeller Blades

FDA conform

Shaft dia. mm	Wrench size	Dimensions according to drawing			Cat. No.:	*recomm. price EUR
		A	B	C		
8	15	75	18	3	C 440-08	87,14
10	19	75	18	3	C 440-10	86,61

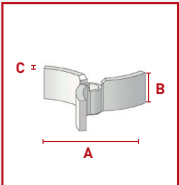
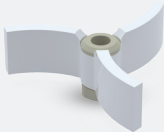


**Applications:** The product is sucked bottom-up, good axial flow with low shear force.

## Type: BOLA Impeller Blades

FDA conform

Shaft dia. mm	Wrench size	Dimensions according to drawing			Cat. No.:	*recomm. price EUR
		A	B	C		
10	19	60	25	6	C 443-08	118,59
10	19	100	25	6	C 443-10	102,50
10	19	150	25	6	C 443-14	302,70



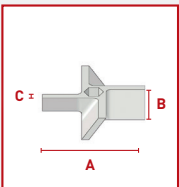
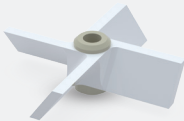
**Applications:** Very good and gentle stirring due to blades which are bent backwards, low shear force.

## Type: BOLA Propeller with 4 Blades

FDA conform

NEW

Shaft dia. mm	Wrench size	Dimensions according to drawing			Cat. No.:	*recomm. price EUR
		A	B	C		
8	15	50	18	4	C 448-08	108,21
10	19	75	20	5	C 448-09	165,04
10	19	100	20	5	C 448-10	315,79
10	19	140	20	5	C 448-20	413,35
10	19	200	20	5	C 448-28	594,39
16	32	140	25	12	C 448-36	474,74
16	32	200	25	12	C 448-42	652,43

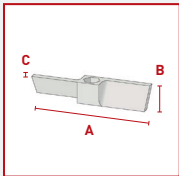
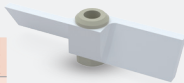


**Applications:** The product is sucked bottom-up, good axial flow with low shear force.

## Type: BOLA Paddle

FDA conform

Shaft dia. mm	Wrench size	Dimensions according to drawing			Cat. No.:	*recomm. price EUR
		A	B	C		
8	15	80	18	4	C 446-08	77,99
10	19	80	20	5	C 446-10	75,44
10	19	110	20	5	C 446-12	76,12
10	19	140	20	5	C 446-14	100,34
16	32	200	25	12	C 446-16	138,13



**Applications:** The product is sucked bottom-up, very good axial flow with shear force.



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