

I Application

The range of the BCI agitators presents vertical direct motor-driven agitators. These agitators are used in the processes of mixing, dissolution, dispersion and maintenance whenever powerful and high-speed agitation is required in the food processing, cosmetics, pharmaceutical or chemical industries.

The agitators are normally fitted to small volume tanks of up to 1.500 liters for work with low-viscosity products.

I Operating principle

The agitators are normally installed inside the tank either centrally with current deflectors, or offset, so that the offsetting itself prevents the rotation of the stirred product.

The rotation of the propeller makes the fluid flow to the bottom and then up to the surface of the product along the walls of the tank. The effect is promoted if the bottom of the tank is curved.

The Lineflux vigorously agitates the content of the tank promoting the mixing of the product while the saw tooth propeller promotes its dispersion.

I Design and features

Vertical agitator.

Sealing: V-ring and retainer.

Bearing support.

Propeller attached to shaft and shaft attached to the half-shaft by Allen studbolts.

IEC B14 motor, 1500 rpm, IP 55, F-class insulation.

Max. power 0.75 kW.

Lineflux propeller (Type 18).

Option



Saw tooth propeller

I Materials

Parts in contact with the product AISI 316L

V-ring and retainer NBR

Bearing support Aluminum

I Options

Double flushed mechanical seal.

V-ring and retainer: FPM.

One-piece shaft.

Shaft and propeller lined with plastic material for use with corrosive products.

Saw tooth propeller.

Welded propeller with Ra ≤ 0,4 μm surface finish.

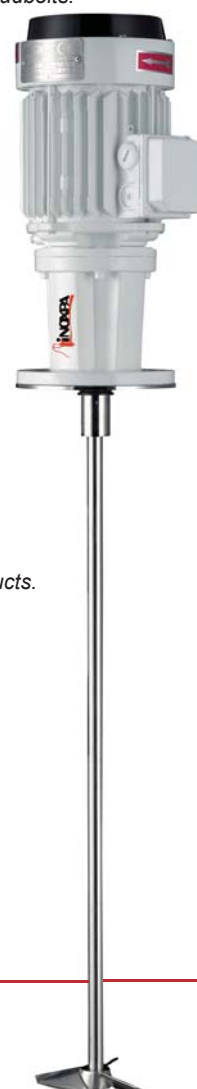
Motor shroud.

Motors with other protections.

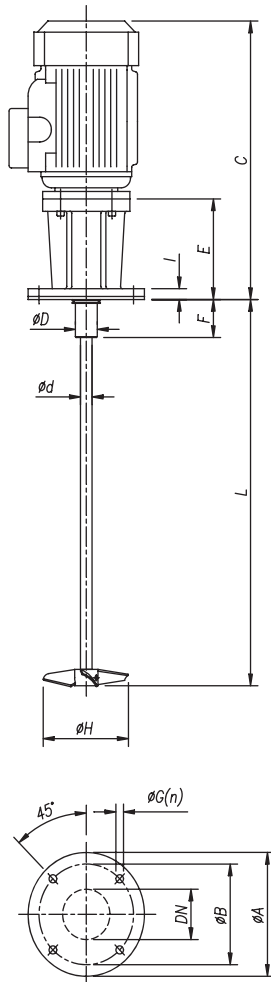
Motors: 950 rpm or 750 rpm.

Geared motors or variable speed drives.

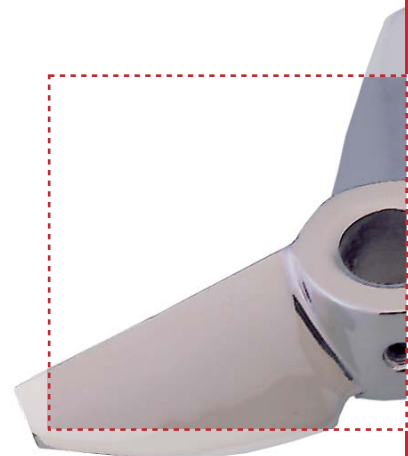
Pneumatic drive.



I Technical specifications and dimensions



Agitator base



AGITATOR TYPE		BCI 1.18-4007-1-100	BCI 1.18-4007-1-130	BCI 1.18-4007-1-150	BCI 1.18-6005-1-130	BCI 1.18-6005-1-150
Motor power	[kW]	0,75			0,55	
Speed	[rpm]	1415			940	
Volume [H ₂ O]	[m ³]	0,1 0,6	0,2 0,8	0,4 1,5	0,1 0,7	0,15 1
Dimensions	A	160				
	B	130				
	C	360				
	ØD	30				
	E	130				
	F	50				
	ØG	10,5 (4)				
	I	14				
Agitator shaft	Ød	16				
	L max.	1250				
Lineflux propeller	ØH	100	130	150	130	150
Weight	[kg]	16,5			17	

