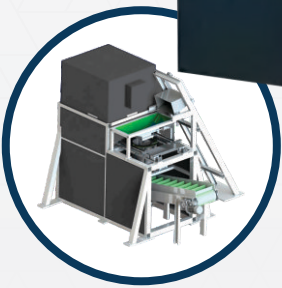


**FULLY AUTOMATIC / SEMI AUTOMATIC  
DIP SPIN MACHINES**



**Anti-corrosive and  
Performance Smart  
Coating Technologies**

For Surface  
Finishing Industry

## BHARAT COAT Dip Spin Machine Specifications:

Model Name	BCDS 200	BCDS 250	BCDST 400	BCST 500
Overall size L X W XH	1000x1000x1800	1500x1500x1890	2800x3500x2300	2900x2900x3200
Loading height	800 mm	800 mm	1300 mm	1300 mm
Parts loading	Manual	Manual	Through bucket elevator	Auto loader
Parts unloading	Manual	Manual	Through tilting basket on flat bed conveyor	Through tilting basket on flat bed conveyor
Basket size	200 mm	250 mm	400 mm	500 mm
Basket tilting	NA	NA	45 Deg	75 Deg
Basket load carrying capacity	5 kg	5 to 8 kg	35 kg	50 to 60 kg
Spin speed	200 - 400 RPM	200 - 500 RPM	200 - 500 RPM	200 - 500 RPM
Paint barrel	SS 304 leakproof	SS 304 leakproof	SS 304 leakproof with stirrer	SS 304 leakproof with stirrer, level indicator & temp. sensor
Paint barrel with water cooling jacket	NA	NA	Could be provided	Could be provided
Paint lifter movement	Pneumatic Cylinder	Pneumatic Cylinder	Hydraulic Cylinder	Hydraulic Cylinder
Machine operation	Semi Automatic	Semi Automatic	Fully Automatic	Fully Automatic
Operating panel	PLC with HMI	PLC with HMI	PLC with HMI	PLC with HMI
Machine power requirement	2 HP	3 HP	9 HP	14 HP
Machine weight approx.	250 kg	350 kg	2250 kg	6500 kg
Machine enclosure	NA	NA	NA	Provided for dust free atmosphere



### BHARAT COAT PRODUCTS

Shed No. 21, Fasteners Park,  
Village - Rupal, Taluka - Balva,  
Ahmedabad - 382220. (Gujarat, India)

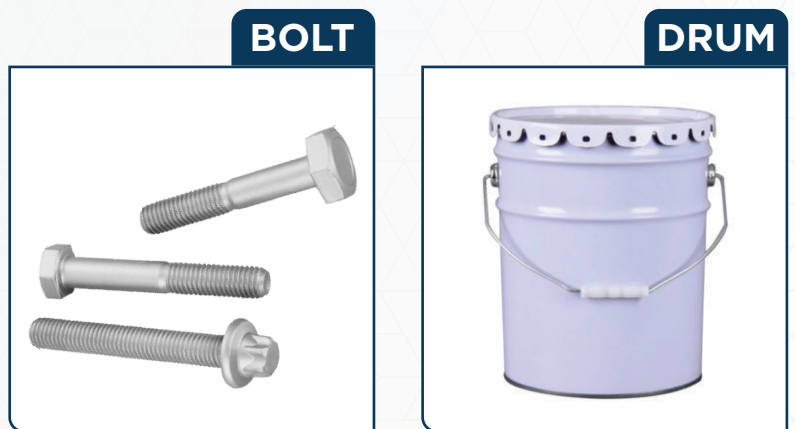
## BKOT 100

— Our Solvent Based-Base Coat comprises of Zinc and Aluminium Flakes to form a thin anti corrosive film. The coating is a single pack system. The coating is applied by dip spin or spray method.

It is a cost effective and superior corrosion protection system with resistance to Auto Fluids & chemicals providing SST of 1200Hrs+.

### Characteristics:

- Colour : Silver Grey
- Application viscosity : 40-45 sec. on Zhan cup 2 for Dip-spin & 25-30 for Spray application
- Thickness : 8-12  $\mu$
- Application Method : Dip/Spin, Spray
- Pre treatment : Degreasing & Shot blasting
- Thinner : BKOT 130
- Sacrificial behaviour : Yes
- Curing : 30min. at 220 C°
- Cof : 0.12-0.18  $\mu$ tot
- Chrome content : Nil



### After application on substrate:

No.	Name of Test	Procedure	Results	Comment
<b>PHYSICAL TESTS</b>				
01	Coating Layer Thickness		8-12 Micron	By Thickness Gauge
02	Adhesion	ISO-10683	Pass	7Nm/ 12mm <sup>2</sup>
03	Hardness of Film	By pencil	>5 H	
<b>CHEMICAL TESTS</b>				
01	MEK	20 Rub	Pass	
02	Automotive Oil & Fuel Tests	Dip	Pass	
<b>PERFORMANCE TESTS</b>				
01	SST	ASTM B117	Pass 1200 - 1500 Hours	SGS Test Report
02	COF Test	ISO16047	0.15 +/-0.03 tot	
03	5 times Torquing & SST	ISO16047	Pass 700 Hours	Pass after 5 times torquing

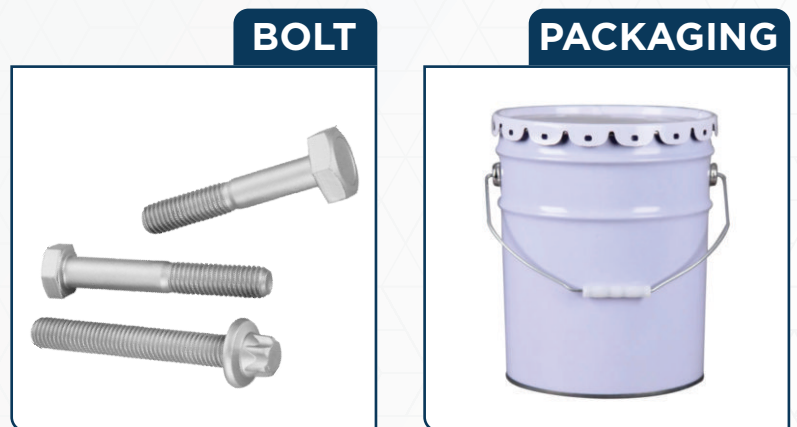
## BKOT 120

— BKOT 120 has Zinc and Nano Carbon Crystals to form 60-80 microns thickness for threaded hardware. The coating is applied by dip spin or spray method. This is an ideal alternative for HDG and mechanical galvanizing. No gauge fitment issues or re tapping required for threaded hardware.

Duplex coating system which comprises of 2 coats of BKOT 120 base plus 1 sealer top coat.

### Characteristics:

- Colour : Zinc Grey
- Application viscosity : 30-35 sec. on Zhan cup 2 for Dip-spin & 25-30 for Spray application
- Thickness : 50-60  $\mu$
- Application Method : Dip/Spin, Spray
- Thinner : BKOT 130
- Curing : 30min. at 220 C°
- Chrome content : Nil



### After application on substrate:

No.	Name of Test	Procedure	Results	Comment
<b>PHYSICAL TESTS</b>				
01	Coating Layer Thickness		50-60 Micron	By Thickness Gauge
02	Adhesion	ISO-10683	Pass	7Nm/ 12mm <sup>2</sup>
03	Hardness of Film	Pencil Test	>4 H	
<b>CHEMICAL TESTS</b>				
01	MEK	20 Rub	Pass	
02	Copper Sulphate by dipping	4 times	Pass	
<b>PERFORMANCE TESTS</b>				
01	SST	ASTM B117	Pass 1200 - 1500 Hours	Alternate to HDG
02	Visible White Rust		100-300 Hours	No white rust above 300 Hours

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## BKOT 900

— Water reducible, nano zinc aluminium flake, anti-corrosive, chrome VI free coating. It can be applied via Dip Spin or Spray Application method.

The coating comes in Part A, B and C as a 3-pack system. BKOT 900 is a unique coating system with highest corrosion and mechanical properties even at lowest coating thickness. It is a cost effective and superior corrosion protection system with resistance to Auto Fluids & chemicals providing SST of 1000Hrs.

### Characteristics:

- Colour : Silver
- Application viscosity : 80-100 sec on Zhan cup 2
- Thickness : 8-12  $\mu$
- Pre treatment : Degreasing & Shot blasting
- Application Method : Dip/Spin, Spray
- Curing : 30min. at 330 C°
- Cof : 0.12-0.18  $\mu$ tot

### BOLT



### PACKAGING



### After application on substrate:

No.	Name of Test	Procedure	Results	Comment
<b>PHYSICAL TESTS</b>				
01	Coating Layer Thickness		8-12 Micron	By Thickness Gauge
02	Adhesion	ISO-10683	Pass	7Nm/ 12mm <sup>2</sup>
03	Hardness of Film	By pencil	>4 H	
<b>CHEMICAL TESTS</b>				
01	MEK	20 Rub	Pass	
02	Automotive Oil & Fuel Tests	Dip	Pass	
<b>PERFORMANCE TESTS</b>				
01	SST	ASTM B117	Pass 1000 Hours	
02	COF Test	ISO16047	0.15 +/-0.03 tot	
03	Heat Resistance	300°c for 96 Hours	500 Hours SST	

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# BHARAT COAT WATER BASE TOP COATING SERIES

## BKOT TS

Water reducible thermosetting cross-linked alloy system in combination with PTFE and other organic binder & Zinc Aluminium flakes. BKOT TS can be applied on base coat like BKOT 900, Zinc plating and other zinc-based surfaces. The coating is applied by Dip sin or Spray followed by curing into oven for 200-220 C°-25 minutes.

Its unique coating system provides highest anti corrosion and mechanical properties. Various CoF value can be provided in this sealer top coat.

### Characteristics:

- Colour : Silver Grey
- Application viscosity : 25-30 sec on Zhan cup 2 for Dip-Spin & 18-20 for spray application.
- Thickness : 5-8  $\mu$
- Application Method : Dip/Spin, Spray
- Curing : 30min. at 200-220 C°
- Cof : 0.12-0.18  $\mu$ tot

### BOLT



### PACKAGING



### RECOMMENDED BASE COAT:

Acid Zinc Plating | Alkaline Zinc Plating | BKOT 100 | BKOT 900

### After application on substrate:

No.	Name of Test	Procedure	Results	Comment
<b>PHYSICAL TESTS</b>				
01	Coating Layer Thickness		4-6 Micron	By Thickness Gauge
02	Adhesion	ISO-10683	Pass	7Nm/ 12mm <sup>2</sup>
03	Hardness of Film	Pencil Test	>4 H	
<b>CHEMICAL TESTS</b>				
01	Automotive Oil & Fuel Tests	Dip	Pass	
02	Acid test- 2PH	Dip	Pass (30 Sec.)	
<b>PERFORMANCE TESTS</b>				
01	SST	ASTM B117	500 Hours	Additional to Base Coat
02	COF Test	ISO16047	0.15 +/-0.03 tot	Others on request

# BHARAT COAT WATER BASE TOP COATING SERIES

## BKOT TBK

— Water reducible hydrophobic topcoat sealer for base coats like BKOT 900, Zinc plating and other zinc-based surfaces. The coating is applied by Dip spin or Spray followed by curing into oven for 200-220 C° -25 minutes.

Its unique coating system provides highest anti corrosion and mechanical properties. Various CoF values can be provided in this sealer topcoat.

### Characteristics:

- Colour : Black-Semi Glossy
- Application viscosity : 20-30 sec. on Zhan cup 2 for Dip-Spin & 20-25 for Spray application.
- Thickness : 5-8  $\mu$
- Application Method : Dip/Spin, Spray
- Curing : 30min. at 200-220 C°
- Cof : 0.12-0.18  $\mu$ tot
- UV Resistance

### BOLT



### PACKAGING



### RECOMMENDED BASE COAT:

Acid Zinc Plating | Alkaline Zinc Plating | BKOT 100 | BKOT 900

### After application on substrate:

No.	Name of Test	Procedure	Results	Comment
<b>PHYSICAL TESTS</b>				
01	Coating Layer Thickness		4-6 Micron	By Thickness Gauge
02	Adhesion	ISO-10683	Pass	7Nm/ 12mm <sup>2</sup>
03	Hardness of Film	Pencil Test	>4 H	
<b>CHEMICAL TESTS</b>				
01	Automotive Oil & Fuel Tests	Dip	Pass	
02	Acid test- 2PH	Dip	Pass (30 Sec.)	
<b>PERFORMANCE TESTS</b>				
01	SST	ASTM B117	500 Hours	Additional to Base Coat
02	COF Test	ISO16047	0.15 +/-0.03 tot	Others on request

## BKOT TC

— Water reducible-transparent topcoat sealer for base coats like BKOT 900, Zinc plating and other zinc-based surfaces. This coating has excellent coverage and thus provides excellent sealant capabilities for Base coats. It passes various chemical and oil test required for automotive fasteners.

The coating can be applied by dip sin or spray method followed by curing for 150 C° 25-30 mins. Various Cof values are available in this sealer topcoat.

### Characteristics:

- Colour : Clear
- Application viscosity : 20-30 Zhan cup 2
- Thickness : 2-3  $\mu$
- Application Method : Dip/Spin, Spray
- Curing : 30min. at 150 C°
- Cof : Can be customised

### BOLT



### PACKAGING



### RECOMMENDED BASE COAT:

Acid Zinc Plating | Alkaline Zinc Plating | BKOT 100 | BKOT 900 | BKOT 120

## OTHER ORGANIC TOP COATS



BKOT TBU



BKOT TG



BKOT TCP

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