

ELECTRO-SPARK DEPOSITION DEVICE  
**DepoSerieS**

Electro-Spark Deposition  
**SparkDepo**  
 MODEL 200 300 500



Innovative Technology of Coating and Overlay  
 for Maintenance and Repair.

**Higher Performance Coating & Overlay Model with 2 Applicators.**

□ Set BF ( SparkDepo MODEL 300 Coating & Overlay set )		Qty.
Power Supply	SparkDepo MODEL 300	1
Applicator	Standard	3m . . . . . 1
	Miniature	3m . . . . . 1
	Vibrating	3m . . . . . 1
Remote Controller		3m . . . . . 1
Ground Cable with Clamp		3m . . . . . 1
for Shield Gas	Flow Gage for Argon Gas *1	1
	Cylinder for Argon Gas *1	1
	Gas Hose with Couplers	3m . . . . . 1
Safety Gear	Protective Goggles	1

Set "C" for coating & set "O" for overlay are also available.  
 \*1 Japanese standard only.

			Qty.	
Electrodes	Coating	WTC-90	1 × 3 × 100mm	10
		WTC-90	φ3 × 100mm	10
	Overlay	WTC-90-H	φ5 × 100mm	10
		SD-01	φ1.6 × 100mm	10
		SD-01	φ2.4 × 100mm	10
		SD-01	φ3.2 × 100mm	10
		SD-01	φ4.0 × 100mm	10
Carrying Case				1
Dolly *1				1
Operating Manual				1

\*1 for Power Supply Unit, Cylinder etc.

## Specification

### | Power Supply

Spec.	Model No.	SparkDepo		
		200	300	500
Input ( AC V, Single Phase )		AC100・110・200・220/50/60Hz		
Max. Electricity Consumption ( KVA )		1.6	2.0	2.5
Size ( W X D X H mm )		W323 × D420 × H410		
Weight ( kg )		31.4	31.8	32.6
Secondary Output ( V )	HIGH	150		
	MID	100		
	LOW	50		
Max. Capacitance ( $\mu$ F )		2022	3022	5022
Frequency Range ( Hz ) <sup>1)</sup>		60 ~ 2,000		
Coating	Surface Roughness (Rmax) <sup>2)</sup>	3 ~ 100	3 ~ 100	3 ~ 200
	Max. Coating Thickness ( $\mu$ m )	100	150	200
	Speed Ratio <sup>3)</sup>	0.8	1.0	1.3
Overlay	Electrode Dia. ( $\phi$ mm )	$\leq$ 6.0	$\leq$ 8.0	$\leq$ 10.0
	Speed and Thickness Ratio <sup>3)</sup>	0.8	1.0	1.3

<sup>1)</sup> Spark/Sec.

<sup>2)</sup> Data with an electrode: WC-Co  $\phi$ 3mm

<sup>3)</sup> Indicate variability based on SparkDepo Model 300 with Max. Power by using large electrodes.

### | Applicator

Spec.	Model	Standard Applicator	Miniature Applicator	Vibrating Applicator	Ultra Sonic Applicator <sup>2)</sup>
Max. dia. ( $\phi$ mm )		9	4	4	25
Length ( mm )		302	234	205	150
Weight ( kg )		2.6	1.0	0.8	0.12
Motion of electrode ( rev./minute )		Rotation 0 ~ 1,050rpm	Rotation 2,000 ~ 8,000rpm	Vibration ( forward-backward ) 3,000/min ( 50-hz ) 3,600/min ( 60-hz )	Vibration ( forward-backward ) 12,000/sec
Electrode size ( mm )		$\phi$ 1 ~ 10	$\phi$ 1 ~ 4	$\phi$ 1 ~ 3 Flat : 1 × 3 Square : 2 × 2 etc.	Flat : 1 × 3
Application	Coating	●	●	●	●
	Overlay	●	●	—	—
	Grinding <sup>1)</sup>	—	●	—	—

<sup>1)</sup> The applicator can be used as a drill tool by attaching the proper tools rather than an electrode.

<sup>2)</sup> Vibratory unit Size : 120 × 215 × 70mm Weight : 1.5kg



Standard Applicator



Miniature Applicator



Vibrating Applicator



Ultra Sonic Applicator

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### | Electrodes . . . . .

#### : Electrodes for Coating

Sintered composites of carbides, nitrides, as well as cermets of metal, and Mo, Ni, Ti, Ta, Zr, Nb, Au, etc.

#### : Electrodes for Overlay

All electrodes containing more than 50% metal by weight and/or alloy can be used for overlay.



WTC-80 (Coating)



SD-01 (Overlay)



AL-02 (Overlay)



CU-02 (Overlay)



**TechnoCoat®**

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