

# ELECTROPLATING EQUIPMENT

Optical disc stamper production at its best—the next generation

## Modec.line

### Features

- Highest uptime and output
- Outstanding repeatability and process stability
- Fully automatic cleaning, stripping and coating process
- Simple operator handling
- Operator touch screen PC with Ethernet interface
- HD-DVD and Blu-Ray approved
- Lowest maintenance requirements
- Most efficient process
- Meets highest demands



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Media Services Group and technotrans jointly announce a cooperative agreement whereby Media Services will represent technotrans in the North American optical media market. Media Services will add technotrans galvanic and related equipment to the already impressive array of equipment and service they offer to optical disc replicators.

“Media Services Group will be augmenting, rather than replacing, technotrans’ sales efforts in North America”, according to Robert Szokolay, Vice President of technotrans america, inc., technotrans AG’s American subsidiary. “We’ll continue to provide service and spare parts for technotrans equipment, as well as installing our equipment sold by Media Services”, said Mr. Szokolay. “But we’re very impressed with Media Services’ established customer base and solid commitment to providing quality equipment and services. Therefore, we think MSG will be a key asset in furthering our efforts to penetrate the North American market. It’s a good fit.”

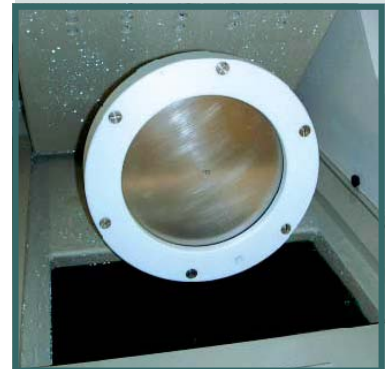
Ed Virgie stated that technotrans is one of the few companies willing to invest into Research and Development in order to constantly improve the speed and quality of their equipment. They also are positioned to be the industry leader in electroplating of HD DVD and Blu-ray formats.

Media Services Group has been serving the Optical Disc Industry since 2001. They offer a variety of services including new and used equipment sales, consumables sales and support.

With the addition of the technotrans line of galvanic and related products, they are now truly a one-stop shop for post-mastering optical disc replication equipment and service.

technotrans AG manufactures high precision electroforming equipment. Together with its subsidiaries and agents around the globe it is the worldwide leader in providing electroforming equipment to the optical disc industry.

This is collaboration between a world market leader manufacturer and a domestic service provider leader. The synergy between technotrans and Media Services Group should bring better products and service to more of the American market.



# Technical data

## modec.spb automatic cleaning and treatment system

### Dimensions

Width	1460 mm / 57.5 inch
Depth	1450 mm / 57.1 inch
Height	2170 mm / 84.6 inch
Exhaust box	350mm / 13.8 inch

### Jig

Jig for stamper	adjustable for all stamper sizes
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### Compressed air

Pressure	4-6 bar / 60 –90 psi
Consumption	~ 10 l/ stamper
Connection hose	6 mm / 0.2 inch
Oxygen pressure	~ 1 bar

### Exhaust air

Extraction	1 x 125 mm / 5 inch
Consumption	300m3 / h
Suction pressure	approx. 200Pa

### Electrical Supply

Elec. Connect.	400 V $\pm$ 5% / 50/60 Hz / 3Ph / N / PE
Power Consumption max.	7kW
Amperage	20A

### Program characteristics

Number of programs	4
Program steps per program	27

## modec.ts surface treatment system

### General Data

Cabinet width	1,460 mm / 57.5 inch
Cabinet depth	1,450 mm / 57.1 inch
Cabinet height	2,170 mm / 84.6 inch
Weight approx.	400 kg

### Electrical Supply

Elec. Connect.	400 V / 3Ph / N / PE / 50 / 60 Hz
Power Consumption	5kW / 7A

### Spin chuck

Max. Rotation:	2000 rpm
Stamper Size:	138– 250 mm
Exhaust:	D75

### Optional

Cooling air connection:	D100
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## modec.eps 3 cell electroplating system

### Dimensions

Width	1,460 mm / 57.5 inch
Depth	1,450 mm / 57.1 inch
Height	2,170 mm / 84.6 inch

### Volume

Each cell approx.	30 liters / 7.9 US gallon
Tank approx.	300 liters / 79.0 US gallon

### Electrical data

Power supply	400 V $\pm$ 5% / 50/60 Hz / 3Ph / N / PE
Power Consumption max.	21kW
Amperage	35A
Plating current	0-100 A (0-200 A optional)
Plating voltage	0-25V
Residual Ripple	<250mV

### Cooling air / exhaust

Air cooling connection (opt.)	1 x 100 mm / 4 inch
Air consumption for cooling approx.	300 cbm / h; min. 15°C/ MAX. 20°C
Exhaust connection (optional)	on request

### Cooling water

Pressure	4-6 bar / 60-90 psi
Flow rate max.	500 l / h at 14– 18 °C

### Program characteristics

Number of programs	54
Program steps per program	1-99
Repetition factor per current step	1-99
Time per program step	1– 32,000 sec
Current alteration per program step :	$\pm$ 0—100 A ( $\pm$ 0-200 A optional) step 0.1 A

