



PHOTO OPTIC TRACER & DRIVE SYSTEM

REPLICATOR™ 900



A modern replacement
for older ECT
Tracer/Drive Systems

- Cost-effective modernization solution
- Designed to easily mount in the same location as older ECT panels
- Pulse-width-modulated drive system maximizes performance
- Typical system includes operator control panel, drive amplifier, optical tracer and two motor/ gearbox assemblies

Performance Benefits

REPLICATOR 900 is specially designed to be a cost-effective replacement for older ECT Drive and Tracer Systems on cantilever shape cutting machines while providing modern capabilities. It is available from the Burny Division of Cleveland Motion Controls, internationally known for dedicated shape cutting controls and drive systems that improve productivity and reduce costs.

The REPLICATOR 900 replacement package includes an operator control panel and drive amplifier in one console, an optical tracer, and two performance-matched motor and gearbox assemblies with cables. The console is designed to mount in the same location as the older ECT. In most cases, the new motor/gearbox assemblies will also bolt up to the existing motor/gearbox mounts.

Design Features

REPLICATOR 900 offers numerous design features to maximize quality and productivity. Easy-to-use adjustments on the console allow operators to easily adjust kerf and speed. Automatic "lead-in" and "lock-on" adjustments allow operators to preselect clockwise or counter-clockwise direction of torch travel (once the tracer has located the pattern) and to automatically stop motion if the pattern is lost. A forward offset (or lead) adjustment provides accurate tracing at lower speeds while minimizing the rounding of corners. In addition, pulse-width-modulated drive technology provides high quality cutting performance at both low and high speeds.

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Full Function ECT Replacement Panel

Along with replacing older ECT Tracer/Drive Systems on cantilever machinery, the REPLICATOR 900 operator console provides full function drive and tracer control. Included are eight directional buttons for jog positioning, drive and tracer speed controls and a kerf compensation control.

Complete Drive & Tracer System

The REPLICATOR 900 drive and tracer system includes a 2-axis pulse-width-modulated-amplifier with tachometer feedback, a tracing eye with cable and two motor/gearbox assemblies. It is

capable of tracing speeds up to 40 inches per minute (1 M/M) on square corners, 80 inches per minute (2 M/M)* on radius corners larger than 0.1 inches (2.5mm), and traverse speeds up to 250 inches per minute (6 M/M), all dependent on machine condition and weight.

Easily Installed. Easy to Learn and Operate

The REPLICATOR 900 is designed to use existing bolt holes and to be easily installed in the same location as the older ECT Drive & Tracer System. Once installed, machine operators can become proficient in its operation in a matter of hours.

STANDARD DESIGN, CONSTRUCTION AND FUNCTIONAL SPECIFICATIONS

1. Includes an operator control panel and pulse-width-modulated drive amplifier in a single enclosure, one optical tracing eye and two performance-matched motor/gearbox assemblies with cables.
2. Operator control panel enclosure designed to mount in the same location as the ECT enclosure and to use the same panel opening and mounting holes. In most cases, the motor/gearbox assemblies bolt to existing mounts as well.
3. Operator panel includes:
 - Eight directional jog buttons for torch positioning and lead-in direction.
 - Speed potentiometer and High/Low/Off speed range switch.
 - Kerf compensation potentiometer provides compensation in the range of $\pm 0.060"$ (± 1.5 mm).
4. Capable of tracing speeds up to 40 IPM (1 M/M) on square corners, up to 80 IPM (2 M/M)* on radius corners larger than 0.1 inches (2.5 mm), and traversing speeds up to 250 IPM (6 M/M), all dependent on machine condition and weight.
5. Acceptable for operating environments between 32° and 120° F (0 - 50° C) in relative humidity of 5 - 95%.
6. Tracing eye follows minimum line widths to .028" (.7 mm) with a recommended line width of .040" (1mm). (Template appearance and condition may affect tracer performance.)

* High speed tracing may require special template preparation and the addition of a wider line (4 mm line thickness) to activate corner slowdown function.

Note: In an effort to keep our products updated with the latest technological advancements, we reserve the right to change or modify specifications without notice. Please consult factory before ordering.

BURNY DIVISION

World Headquarters
7550 Hub Parkway
Cleveland, OH 44125-5794
Phone: (216) 524-8800
Fax: (216) 642-2199

**etek Industrie-
Elektronik GmbH**
Werkstrasse 5
D-64732 Bad König, Germany
Phone: 49 (0) 6063-9314-0
Fax: 49 (0) 6063-5492

Singapore Branch
2, Loyang Way 1,
Singapore 508703
Phone: (65) 545-6960
Fax: (65) 545-6983

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Motion Controls**
An IMC Company