



## REMOTE CONTROL WELD INDEXER



The Gullco remote controlled indexing system is typically used to automate orbital overlay welding or surfacing applications. After each activation of the rotation limit switch the motorized arm will travel a preset distance, in a preset direction at a variably controlled speed (indexing) to produce the desired weld pattern. Variations on the process parameters are available to the operator through the easy to use programmable control.

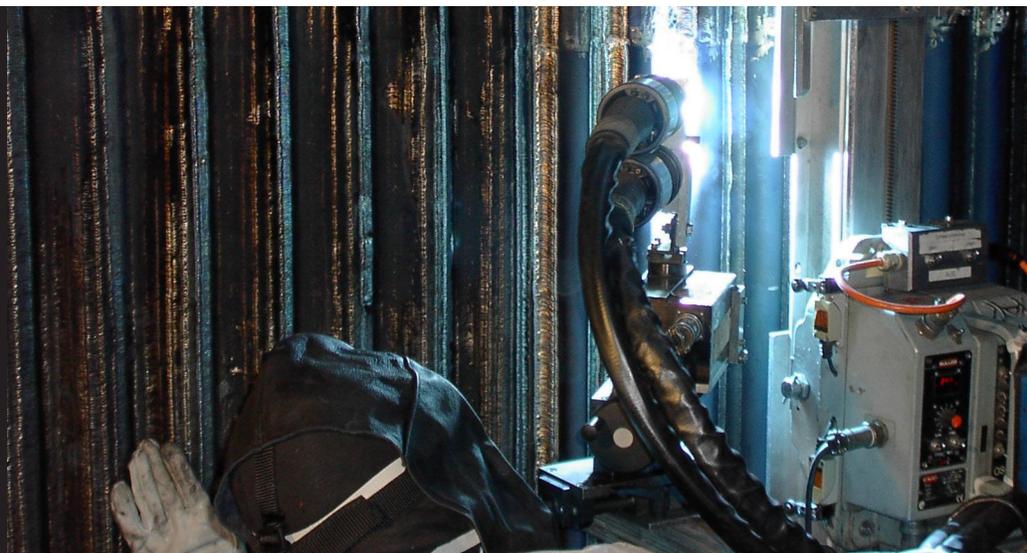
The remote controlled indexer system is used through the world to automate and improve quality and efficiency of single or multi head overlay or surfacing operations. Welding guns/torches are mounted on the end of the motorized rack arm and are parallel to the workpiece. Detrimental factors such as poor or awkward accessibility, operator fatigue, or inconsistent weld quality are eliminated with this automated process.

*Automates Overlay and Cladding Welding Operations*

MODELS AVAILABLE FOR USE WITH RIGID AND FLEXIBLE TRACK SYSTEMS

# GULLCO

WELDING AND CUTTING



## SPECIFICATIONS

The remote control indexer comes with a variety of features including arc signal relay which provides integrated arc activation signals and is not dedicated to any specific welding equipment.

Incorporating the Gullco GSP style control capable of interfacing with the indexer motorized rack box, the rack box limit switches, rotational limit switches and the arc activation signal to provide programmable welding cycles for a variety of overlay and cladding applications. The control offers user programmable parameters to allow fine-tuning and precise control of the weld cycle.

Indexing Motorized Rack Box: Complete with limit switches and activators to prevent rack arm overrun, high torque gear motor to provide precise repeatability of the rack arm indexing distance. Standard assembly combines heavy duty 8" (203 mm) long rack box with 1-1/8" (29 mm) sq. x 36 (914 mm) long rack arm. Other lengths available.

Safety is greatly enhanced by the use of Gullco's low voltage (24V), highly advanced controls and power supply system. Three line voltage inputs, 42, 115 and 230 VAC, single phase, 50/60 Hz, are available (see chart below).

Flex or Rigid KAT® Travel Carriage: with microprocessor pulse width modulation motor controls offering operator interface of forward, stop, reverse and infinitely variable control of the speed, within the range of the models. Travel speeds of the KAT® and rack box are electronically controlled using an optical tachometer on the back of each gear-motor. Through the use of this closed loop, feedback circuitry, each motor control can obtain accurate and constant speed control of the equipment when running in any plane, regardless of the load (within the rating of the equipment). The length of the KAT® travel path is pre-set by positioning the Track Stops at each end of the desired path. They engage and activate limit switches on the KAT® Travel Carriage to: automatically stop the travel carriage and reverse its movement, activate the control that indexes the rack arm and signals the welding gun to weld or not weld during indexing.

### RIGID KAT® AUTO-WELD

MODEL	SPEED RANGE
L	0.5 to 16.4 IPM (1.2 to 41.6 cm/min)
M	1 to 32.7 IPM (2.5 to 83.1 cm/min)
H	2.7 to 88.4 IPM (6.7 to 224 cm/min)

Select a speed range and voltage to determine your Rigid KAT® Indexer Model Number.

VOLTAGES	
MODEL	INPUT SUPPLY
A	42 VAC
B	115 VAC
C	230 VAC

### REMOTE PENDANT CONTROL KIT

For use with the Rigid and Flexible Track KAT® Indexer System. Comprising of Remote Pendant (no control) attached to 8 ft. (843.84 cm) control cable on one end and KAT® control blanking plate on the other end with internal connectors at each end. This remote pendant uses the GSP controls removed from the KAT® Carriage. This kit can be easily field installed (or factory installed at no charge)

### FLEX KAT® AUTO-WELD

MODEL	SPEED RANGE
L	0.8 to 25.8 IPM (2 to 65.4 cm/min)
M	1.5 to 51.5 IPM (3.9 to 131 cm/min)
H	4.2 to 139.1 IPM (10.6 to 353 cm/min)

Select a speed range and voltage to determine your Flex KAT® Indexer Model Number.

VOLTAGES	
MODEL	INPUT SUPPLY
A	42 VAC
B	115 VAC
C	230 VAC

### Remote Control Indexer for Miscellaneous Rotation Equipment

Comprising of one (1) control box with switches for rack arm jog, cycle start and speed potentiometer. Index distance setting in a range from 0.01 to 9.99 in increments of 0.01. A single limit switch on 15 ft. (4572 mm) cable to provide 1/8" (29 mm) rack arm 36" (914 mm) long providing 24" (609 mm) of variable speed arm travel 1 to 32.7" (25 to 83.1 cm) per minute with limit switches to prevent rack arm over-travel and to stop the wire feeder. Two (2) adjustable rack arm limit switch stops and one (1) four-motion welding gun holder.



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