

# SG1600-WL

## RECIPROCATING GANTRY TYPE PRECISION SANDING, GRINDING, AND POLISHING MACHINE

### APPLICATIONS

SG1600-WL is equipped with single wide abrasive belt head, wet operation. It is gantry structured, meaning the working table is able to carry the work piece to move back and forth reciprocally under the wide abrasive belt head to process multiple passes on the work piece to achieve the optimal desired surface requirement such as specific surface roughness. There are several different ways to "clamp" the work piece, most commonly: vacuum suction table or electro-magnetic table. For achieving specific roughness on a work piece, a specific combination of wide abrasive belt is required, usually goes from coarse to fine grit. To avoid exchanging abrasive belt frequently, up to 4 wide abrasive belt heads is configurable. A fine surface roughness of Ra 0.4 $\mu$ m can be achieved.



### MACHINE CHARACTERISTIC OVERVIEW

- Wet operation
- Reciprocating process, work piece will be processed multiple passes. No need to feed in work piece repeatedly.
- Wet operation to prolong abrasive life span, and cool down the parts during the process to minimize parts deformation. Water soluble cutting fluid is used.
- Wet operation to greatly reduce metal particle dispersing into air
- Automatic cutting fluid filtration unit



### TECHNICAL DATASHEET

Maximum working width	63"
Working thickness range	4"
Conveyor feeding rate	6.6 ft - 30 ft/min
Maximum working length	98"
Working accuracy	$\pm 0.001$ "
No. of wide abrasive belt head	1-4
Total power	107 HP
Machine weight	9921 lbs
Machine dimension	315" x 138" x 91"