



THE SLAGGER[®]

Automated self-cleaning cutting table that increases arc-on time by drastically reducing cleaning downtime.

THE **SLAGGER**[®] SELF-CLEANING CUTTING TABLE



THE SLAGGER® BLADE CLEANING MECHANISM Cleaning takes minutes and should be done

once per day or shift for best results.



THE SLAGGER® BLADE Shown moving under a swinging zone divider during the cleaning cycle.



THE SLAGGER[®] BLADE Shown pushing slag into Slag Bucket. (Optional)



OPTIONAL TABLE EQUIPMENT AND SLAT TRAYS



REMOVABLE SLAT TRAY ASSEMBLY Fabricated structure with slats and built-in shields for damper doors allowing slats to be replaced quickly in modules, rather than individually. Drawings available for users to make replacements. Optional designs include standard slats for drilling applications.



SLAG BUCKET

Fits into a pit located in the floor at the front of the table where slag is deposited at the end of the cleaning cycle. There is one bucket for each Slagger[®] Blade. When the bucket is full, integral lifting eyes can be used to remove and empty the bucket. When not in use, the Slag Bucket and pit is covered by a pneumatically operated door. (Optional)



SLAG SCOOP Rests on the floor and is hooked to the front of the table. Slag is pushed into the Slag Scoop at the end of the cleaning cycle and when the scoop is full, integral lifting eyes are used to remove and empty the scoop. (Optional)

SLAT TRAY OPTIONS



Serrated slat trays with bass pins for drilling applications (above) is one of the multiple slat tray options offered by Messer Cutting Systems.

Messer Cutting Systems offers multiple slat tray options for your cutting tables. Slat trays are designed for plasma, oxyfuel, laser cutting and drilling applications. Upgrading your slats provides superior cut results and improves the longevity of your table. Contact your sales representative to find out which slat trays would be beneficial to your production process.

DAMPER DOORS FOR SMOKE AND DUST REMOVAL



PNEUMATIC DAMPER DOORS Actuated by a mechanical cam on the cutting machine.



DAMPER DOOR OPEN Inside table view of open damper door after mechanical cam actuation.



DAMPER DOOR CLOSED Inside table view of closed damper door without mechanical cam actuation.

DUST COLLECTORS

Dust collectors are available for use with The Slagger[®]. Smoke is drawn from the table to a cartridge type smoke and dust collector. The size of the dust collector and fan are based on table width and types of cutting torches. On/off functions are automatically controlled by the Global Control or manual switches. Smoke and dust collectors provide a cleaner and safer working environment.

CARTRIDGE STYLE DUST COLLECTOR

Fan, filter cartridges, electrical and pneumatic controls automatically clean the cartridges in one unit.

SPARK TRAP

Placed in the ductwork between the table and the collector capturing hot, heavy particles from the air stream. The particles settle, preventing them from traveling to the collector.

CONNECTING DUCTWORK

Connects the table, spark trap, and dust collector. Supplied by customer is standard, by Messer is optional.



THE SLAGGER[®] CUTTING TABLE ADVANTAGES

The Slagger[®] is a patented cutting table developed at Messer Cutting Systems with a leading metal fabrication company. The Slagger[®] automates the removal of slag produced from plasma, oxyfuel and laser cutting. No need to manually clean the table as the Slagger[®] Blade does all the work in minutes.

The Slagger[®] Blade is propelled with a positive rack and pinion drive. To clean the table, the operator runs the cutting machine into its park position, which sets the safety circuit. The Slagger[®] drive is then turned on, moving the blade forward with the slag ahead of it. Utilizing a unique design, the Slagger[®] Blade opens and passes under each of the downdraft zone swinging dividers automatically as it passes along. Once the Slagger[®] has passed, the swinging divider returns to its vertical position to restore smoke removal airflow. When the Slagger[®] Blade reaches the end of the table, the slag is pushed outside of the table for disposal.

COMPONENTS

The Slagger[®] cutting table is a complete package with all the necessary components included to meet your cutting needs.

TABLE FRAME AND SUPPORT SURFACE

Maximum workpiece thickness for the standard table is 4" (100mm). Tables for thicker material are available. Standard table sizes are available to meet the specific requirements of the cutting machine.

THE SLAGGER® BLADE

Each table is divided into lengthwise bays by the side wall and duct modules. The Slagger[®] Blade runs within each lengthwise bay. Each blade travels the entire length of the table and pushes slag and small parts out of the table and into a collection area or an optional Slag Bucket or Slag Scoop.

AUTOMATIC TABLE CLEANING AND SMALL PARTS RETRIEVAL

- Table cleaning time reduced up to 95% compared to a water table.
- Eliminate the need to stop cutting for long periods to remove slag.
- Small parts that fall through are retrieved during the cleaning cycle without having to reach into the table. Retrieval efficiency is dependent upon part size.
- The Slagger[®] cleaning time for an average size 12'x 50' (3.7m x 15.25m) cutting table is five minutes, compared to one or two shifts with a conventional water cutting table of the same size.
- Production is increased and costs are decreased by reduced cleaning time and low labor requirements.

SLAGGER® TABLE DESIGN PACKAGE BY MESSER INCLUDES:

- Table side and duct walls.
- Frame and pneumatic door.
- Drawings to fabricate all internal table components, slats or slat trays to complete the table.

THE SLAGGER® TABLE MEASUREMENTS



UNIQUE ZONED AND DUCTED TABLE

The Slagger[®] includes a zoned downdraft table with mechanically operated damper doors actuated by a cam on the end truck of the machine. The damper doors automatically open as the machine passes over the zone where cutting is occurring.

INCREASED EFFICIENCY

- Zones are automatically activated.
- Only 50% of any one zone needs to be covered for effective smoke removal and reduced material handling. Covered area must be located near the duct side of the table for best smoke removal.
- Pass-through zone dividers allow automatic cleaning of slag.
- Engineered dust collection system provides effective smoke removal for cleaner operation.



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