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LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



# MACHINE EQUIPMENTS



## NOZZLE DRILLING & MARKING EQUIPMENT

### NOZZLE DRILL STATION

Nozzle Drill Station a vertical miller is designed to shape nozzles. Luke Drilling Machine is powerful, precisely constructed and easy to operate. It has high accuracy performance. It provides the most secure and rigid placement of the nozzles to be drilled as well as allowing for precision movement of the nozzle during the drilling process. Floor mounted drills are also permitted for use in Luke Field Nozzle Drilling Station, however are not recommended as they do not provide the same level of precision as the aforementioned models.



LK 7972001  
Nozzle Drill Station

#### Indexing/Dividing Head

An indexing head is required as part of the drill press assembly. The indexing head provides secure fastening of the nozzle of the drilling station. In addition the indexing head, when attached to the drill press, allows for precise angular rotations of the nozzle, ensuring even, accurate and correct spacing of drill points.

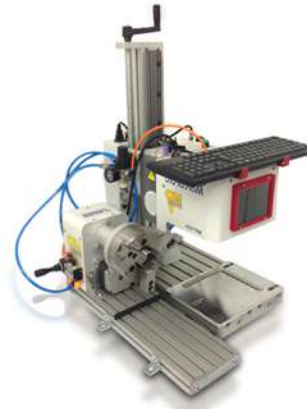
#### Drill Bits

Luke Field Nozzle Drilling Stations are required to contain the following sets of drill bits:

- Wire Gauge Set #1
- Fractional Inch, 1/16" - 21-/32" in 1/64" increments, 39 pieces
- Lettered bits A-Z, 26 pieces
- Center Point Punch
- Countersink bits, #2 for holes 0.25" and smaller, #5 for holes larger than 0.25"
- Burr Tool

### NOZZLE MARKING & LABEL MARKING MACHINE

Luke's marking machine is use to mark permanent logo, part number, and manufacturing details on the top of the nozzle. . Luke recommends drill lubricant be applied during process because it reduces the amount of drill bit breakages.



LK 7972002  
Nozzle Marking and  
Label Marking Machine

#### FEATURES

- Independent, stand along design, no PC needed
- 110/200V power auto shift
- User friendly software, use keyboard to operate it easily in 5.7" color TFT-LCD screen including 3rd axis rotary marking option
- Above 400M memory space with file management function can save at least 30,000 files, USB slot for PLT drawing importing, exporting and saving
- With VGA ports for extra monitor, RS232 and I/O for PLC or PC communication
- Apply on nozzle

#### SPECIFICATONS

- Marking Area: 100 x 100mm (MP100i)
- Marking Height: 320mm max
- Text Height: 1mm - 100mm
- Text Fonts: 8 standard fonts with space and width compression
- Working Power: Air pressure 2-5 bar max, electric 110/220 Volt 160W
- Marking Speed: 1-4 letter/sec (3-2mm text) adjustable
- Marking Style: Linear text with angles, Arc or circular marking serial number, date and logos
- Accessories: Foot switch, 3rd axis DRT, Nameplate fixture, Name plate feeder, I/O cable
- Machine Dimensions: 535x240x771mm (L x W x H)
- Weight: 35 kg



## MODEL LV227 LIQUID TRANSFER & VAPOR RECLAIM MACHINE

A machine that is specifically designed for handling Clean Agents. It is a very high operationally efficient unit, since it is possible to transfer and recover HFC-227ea clean agent using single unit. It is able to recover the maximum amount of product from the source tank, this machine is also extremely cost effective. There are two separate sections in the LV227 unit. The first section completes the transfer of the liquid HFC-227ea from cylinder and its pressurization with nitrogen at 24 or 42 bar. The second section allows the residual vapor of HFC-227ea to be recovered from the source/storage cylinder/tank.



LK 7972003

### MAIN COMPONENT AND DEVICES

#### Pumping Section

- Pressure gauges for inlet pressure of HFC-227ea filling pressure and nitrogen inlet pressure control Indicator lights for: pump section activated, pump on and overload protection indication
- Filling pump with 3 ceramic pistons, brass head, and stainless steel valves
- Pressure relief valve
- Pressure switch.

#### Vapor Recovery Section

- Pressure gauges for inlet pressure and recovery pressure control
- Indicator lights for recovery section activated, recovery unit on and overload protection indication
- Two stage compressor
- Forced ventilation air condenser
- Pressure relief valve
- Pressure switch.

### TECHNICAL FEATURES

#### Pump Specifications

- Flow rate (kg/min): 6
- Maximum Working Pressure (bar): 70

#### Recovery Section Specifications

- Flow rate (kg/min): 0.7
- Maximum Working Pressure (bar): 21
- Recovery Efficiency (%): about 90%

#### Overall Specifications

- Voltage/Frequency (VAC/Hz): 400/50
- Power (kW): 4
- Dimensions (L x W x H)(mm): 1250 x 700 x 1590
- Weight: 300 kg