

Jordan TOF Products, Inc.

Formerly R. M. Jordan Co., Inc.

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C-677 TOF LENS STACK & FLIGHT TUBE ASSY.

A flexible and inexpensive instrument that can be adapted for use in most vacuum chambers. Can be mounted in many orientations, and where the ions are created in places that are inaccessible to other types of mass spectrometers.

RESOLUTION:

Approximately 150-200 with gas phase molecules and Laser Excitation Ionization. Can be as high as 1000 with Supersonic Molecular Beam or Surface Ionization.

PATH LENGTH:

One meter or as required.

THE COMPLETE INSTRUMENT CONSISTS OF THE FOLLOWING:

C-677 LENS STACK & FLIGHT TUBE ASSEMBLY

An assembly of grids, steering plates and lens elements mounted on a feedthrough flange for insertion into the users experiment. These can be placed in the optimum position to extract, accelerate and focus ions through the flight tube and onto the detector.

D-603 TOF POWER SUPPLY

A single compact source for all the voltages used in a typical TOFMS. Choice of this unit should curtail instrument clutter in the immediate vicinity of the experiment. The same meter monitors all voltages. A voltage is only displayed while its monitor button is depressed. Each end of every cable is labeled to match the receptacle to which it connects.

Outputs are:

0 to +4,500V	A1 (Repeller Plate)
0 to +4,500	A2 (Extraction Grid)
0 to -5,000	VD (Detector Divider Box) All voltages required for the Detector.
-330 to +330	VX1 (Steering Plate)
-330 to +330	VX2 (Steering Plate)
-275 to +275	VY1 (Steering Plate)
-275 to +275	VY2 (Steering Plate)

C-701 DUAL MICROCHANNEL PLATE DETECTOR

A ground (or liner) potential input grid presents a flat, field free plane to the incoming ions. Two chevron mounted 18mm microchannel plates provide high gain (10^7) with sub-nanosecond rise time.

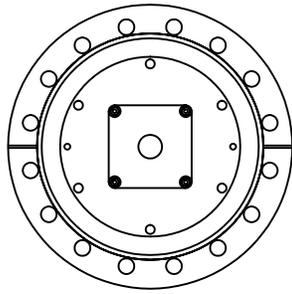
Signal Cable to the 50ohm anode is furnished. Shipped mounted on a 6" CONFLAT flange, baked and pinched off in its own vacuum housing. Note: 25mm and 40mm MCP detectors are also available for linear applications.

ACCESSORIES AVAILABLE

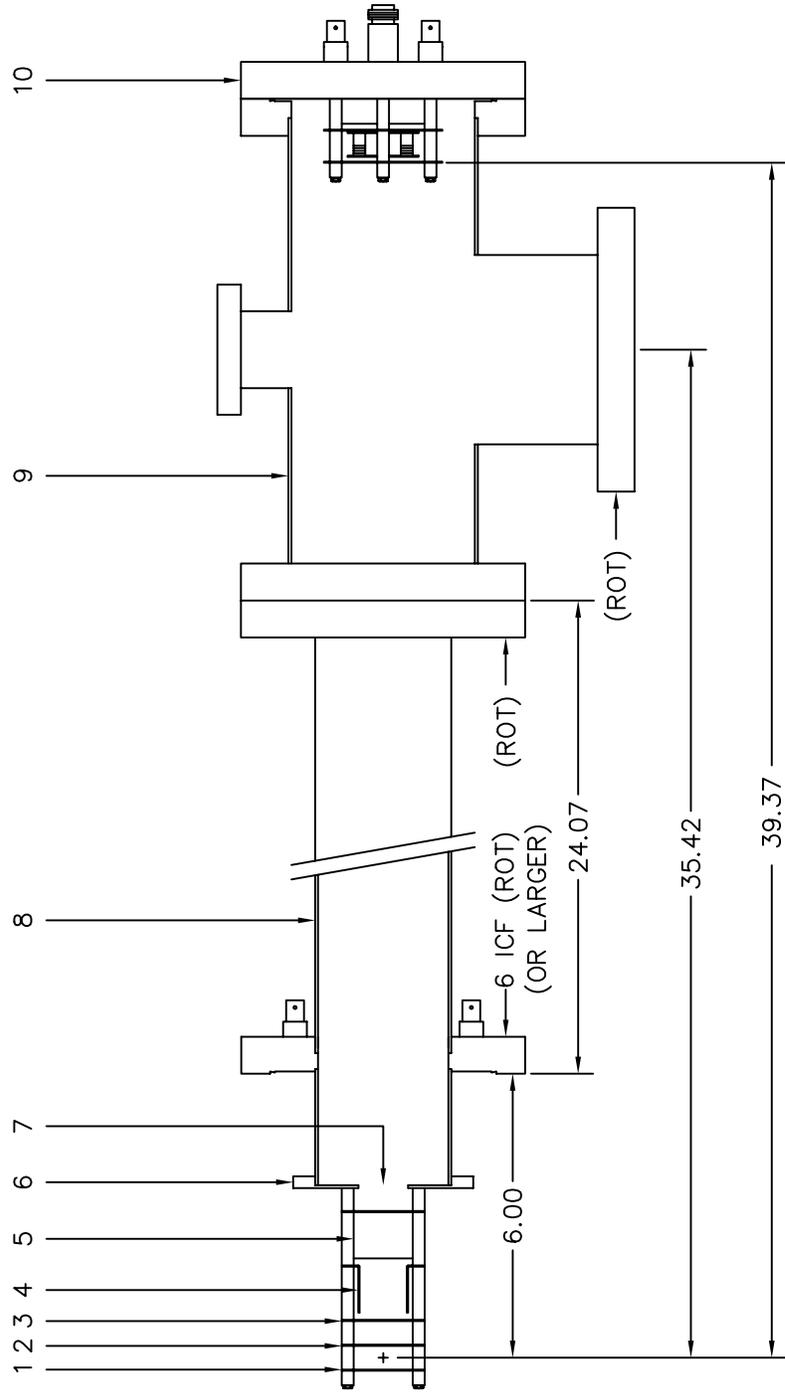
B-682 Shroud and Skimmer for differential pumping. Increases resolution to approximately 1,000 when used with a supersonic jet and laser ionization.

D-679 Liner to elevate the potential of the flight tube environment.

C-687 Sideport Tee for differential (or supplemental) pumping. Reduces the operating pressure in the flight tube to safe levels for the MCP's. Usually used in conjunction with the shroud, or a restriction between ion source and flight tube.



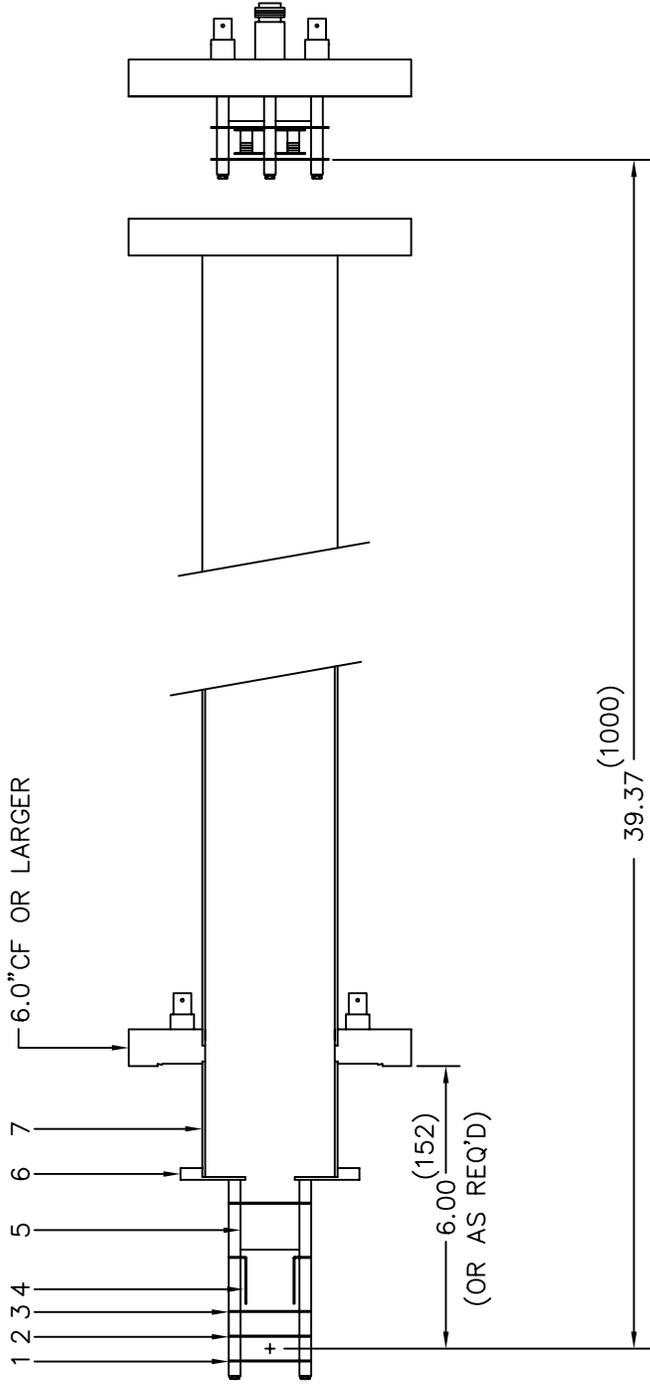
FLANGE SIZE OPTIONAL



1. REPELLER PLATE A1
2. EXTRACTION GRID A2
3. ACCELERATION GRID GND
4. "X" STEERING PLATES X1, X2
5. "Y" STEERING PLATES Y1, Y2
6. MOUNTING RING, 3.7" DIA
7. PUMPING RESTRICTION (IF REQ'D)
8. FLIGHT TUBE, 2.875" DIA
9. C-687 SIDEPORT TEE
10. C-701 18MM DUAL MCP DETECTOR

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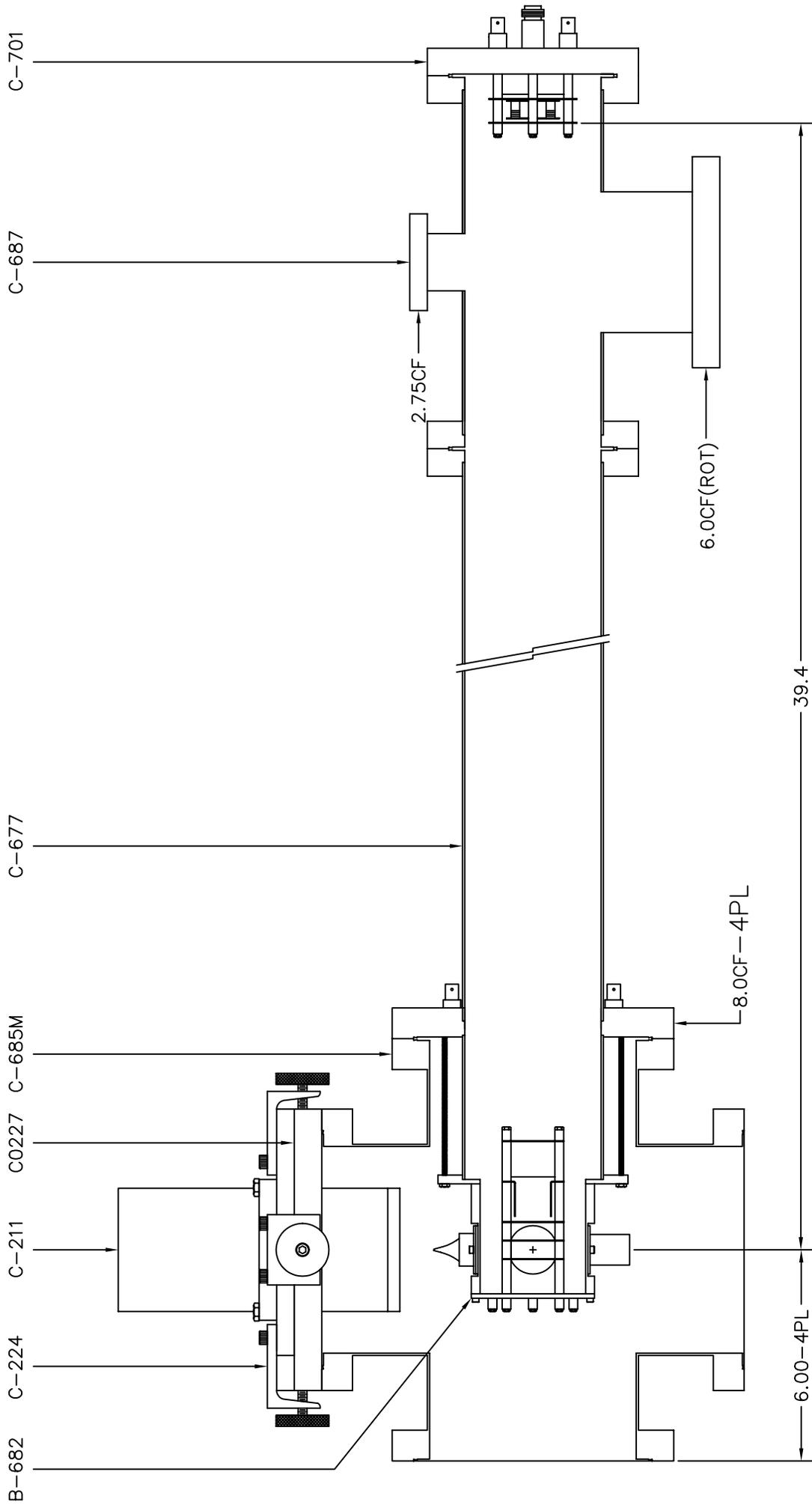


ILLUSTRATION DRAWING/TOFS/PSV
 R.M. JORDAN CO
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 TOFSILL