

Uniloy is proud to introduce this month's web posting which features Uniloy Structural Foam Nozzle Assemblies. Uniloy not only supplies the complete nozzle assemblies engineered for your application but all the replacement parts.



Foam Nozzle



Web Nozzle

What Nozzles do:

The nozzle assemblies are one of the most important parts of the machine. They are mounted to the melt manifold on the non-mold side of the stationary platen and are used to disperse plastic to areas in the mold or molds. The nozzle locations are engineered to make sure that the plastic flow is optimal. This allows good parts to be produced given the tonnage of the machine you are using.

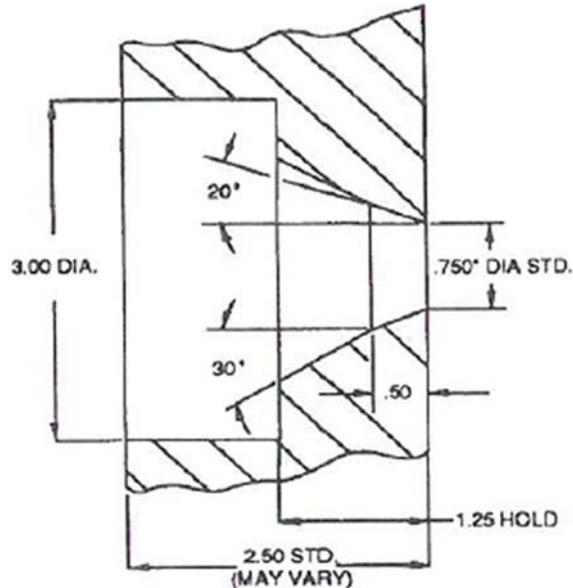
In this posting we are providing you with the drawings of the different nozzle assemblies used on structural foam machines and parts lists for the wear parts you will need to replace. As part of the drawings we are also providing you with the means to determine what the lengths of your rods and tubes are along with how many heater bands you will need.

Benefits of Uniloy Nozzles:

- Built to OEM specifications and tolerances.
- Made with materials that are tested and proven.
- Stack up heights consistent to prevent plastic leaks and blow backs.
- Most parts in stock.
- Engineering support and documentation of assemblies

Platen to Tip Dimensioning:

Each nozzle is made to fit the platen to tip dimension of the area in the mold it needs to service. The platen to tip dimension is arrived at by measuring the distance from the back of the mold where it meets the stationary platen (the left edge of the drawing below) to the front of the seat in the mold (the right edge of the drawing below). The diagram below shows what the seat of the mold should look like. The cross section shows a mold with a platen to tip dimension of 2.50 inches (this dimension can vary and be over 65 inches). It also shows the opening and the angular dimensions needed to have a good fit for your nozzles.



The platen to tip dimension is then used to determine the final length of the nozzle, along with the platen thickness and the distance from the center of the melt manifold to the rear of the stationary platen.

Identifying Nozzle Parts:

There are 2 types of nozzles used and they are broken down into sub categories:

STRUCTURAL WEB

STRUCTURAL FOAM

[5/8 standard flow
\(152666\)](#)

[5/8 standard flow
\(144809\)](#)

[5/8 high flow \(159884\)](#)

[5/8 high flow \(144808\)](#)

[7/8 high flow \(144223\)](#)

If you click on the appropriate sub category above, you will see the assembly drawing for that nozzle type and then you can use the parts lists below to determine the part number of what you require.

STRUCTURAL FOAM NOZZLE PARTS LIST

REF#	QTY	DESCRIPTION	P/N	WEB		STRUCTURAL FOAM		
				5/8 ROD	5/8 ROD	5/8 ROD	5/8 ROD	7/8 ROD
				STD	HIGH	STD	HIGH	HIGH
				FLOW	FLOW	FLOW	FLOW	FLOW
1	1	SCHEFFER CYLINDER	10409690	-	-	X	X	X
1	1	SCHEFFER WEB CYLINDER	10409601	X	X	-	-	-
3	4	CYL MOUNTING ROD	10409687	-	-	X	X	X
3	4	CYL MOUNTING ROD	10409832	X	X	-	-	-
4	1	NOZZLE BLOCK W/EARS	10409561	X	-	X	-	-
4	1	NOZZLE BLOCK W/EARS	10409554	-	X	-	X	-
4	1	NOZZLE BLOCK W/EARS	10409732	-	-	-	-	X
5	1	COUPLING	10409688	-	-	X	X	X
5	1	ADJUSTABLE STOP	10410656	X	X	-	-	-
10	1	NOZZLE TUBE SEAL	10410660	-	X	-	X	X
10	1	NOZZLE TUBE SEAL	10410070	X	-	X	-	-
11	1	NOZZLE TIP	10409555	-	X	-	X	-
11	1	NOZZLE TIP	10410185	X	-	X	-	-
11	1	NOZZLE TIP	10410214	-	-	-	-	X
11	1	HEATED NOZZLE TIP	10409812	-	X	-	-	-
11	1	HEATED NOZZLE TIP	10410451	X	-	-	-	-
12	1	INSULATING TIP	10410174	X	X	X	X	-
12	1	INSULATING TIP	10410215	-	-	-	-	X
20	1	NOZZLE CAP	10410058	X	X	X	X	X
21	1	THERMOCOUPLE	10410076	-	-	X	X	X
21	2	THERMOCOUPLE	10410076	X	X	-	-	-
26	2	METAL ORING	10410269	X	X	X	X	X
34	1	THREAD SEAL 5/8 HIGH TEMP	700749	X	X	-	-	-
34	1	THREAD SEAL 5/8	39790	X	X	-	-	-
35	1	THREAD SEAL 7/8	39791	X	X	-	-	-
36	1	MCHSCR 10-32X1/4	249016	X	X	-	-	-
38	1	MANATROL VALVE	1130030	X	X	-	-	-
43	1	HEATER BAND FOR TIP	10504311	X	-	-	-	-
43	1	HEATER BAND FOR TIP	10410641	-	X	-	-	-
		HEATER BAND FOR TUBE	10410066	X	-	X	-	-
		HEATER BAND FOR TUBE	10410646	X	-	X	-	-
		HEATER BAND FOR TUBE	10410625	-	X	-	X	X
		HEATER BAND FOR TUBE	22925	-	X	-	X	X

The parts listed are typical but could be different for your machine(s). Most parts are in stock but in the event we run out, it may take up to 6 weeks to fill your order.

Sales and Service:

For more information including pricing and any other machine upgrade or for parts replacement please contact your Uniloy Parts Representatives. Trained Uniloy Service Representatives are available to assist in the installation of these parts and packages at your facility.