

NES 700 Series Manway Cannon

Otherwise known as the “sludge buster” a name which adequately describes the use of the Manway cannon. Fits to a tank manway with the cannon, camera and light on the inside of the tank and the manway entrance closed over with its adjustable cover plate. The cannon is used to jet water or cutter stock hot or cold via the specially designed cannon interchangeable nozzle. The operator controls the operation from his console and screen with a single joystick where he has full view of the operation inside the tank. The cannon direction and inclination is hydraulically orientated as is the camera pan and tilt. Camera 20:1 electronic zoom with auto focus and iris b/w NTSC or PAL. The camera and light are fitted with a lens washer. Video recording facilities available as standard. Suction fitting incorporated allowing product to be drawn off the tank. Hydraulic Power is supplied from an electrical power pack mounted onto a frame with umbilical cord with all services to the cannon. The umbilical is stored on a hose reel. High-pressure washer for lens washing piped via the umbilical.

All intank electrics are classified for use in Zone 1 areas.

Manway cannon camera and light Specification.

General: Pan 340 degrees

Tilt 170 degrees

Hydraulic drive X 2

Fluid sealing to 1500 psi max

Camera: Low light (0.1 lux)

Auto Iris

Auto Focus

Zoom 12:1 + 4X Digital

Camera Housing: NEC Class1 Div1 Groups B,C&D

Light 110v HPS 100w 9600 bare lamp lumens

Class 1 Division 1 Groups C&D

Connections Class 1 Division 1 Group C&D plug and socket for umbilical connection

Unit is fitted with DAS Nozzles giving the following characteristics:-

Nozzle Naval brass with stream straighteners incorporated

Nozzle data in US Gal/min as follows:-

Supply Pressure PSI	Typical Nozzle Diameter							
	5/8"		3/4"		7/8"		1"	
	Flow GPM (ft)	Jet Length	Flow GPM (ft)	Jet Length	Flow GPM (ft)	Jet Length	Flow GPM (ft)	Jet Length
120	129	72	162	84	226	90	290	95
150	149	81	184	100	248	100	319	105
175	158	84	193	110	257	105	334	110

**7/8 and 3/4 nozzles are supplied with unit
Manway Cannon additional specifications
Adapter Adjustable for 24 , 30 and 36" manways**

New features

- **Manual and automatic camera focus control**
- **Removable bulkhead plate on manway adaptor**
- **Adaptor for for top manway use**