

M-HET-CG625/1250-CLEANING-GUN--1.4



CG625/1250 TUBE CLEANING GUN OPERATING INSTRUCTIONS

CAUTION: WEAR PROTECTIVE EYEWEAR WHILE PREPARING CLEANING GUN AND DURING OPERATION. EAR PLUGS OR AN EAR COVERING IS ALSO RECOMMENDED.



- 1. The hose attached to the rear handle must be connected to a compressed air line preferably between 60 to 100PSI. It is recommended that the air be filtered and lubricated. The airline should be equipped with a moisture trap and filter. An automatic lubricator should be located as close to the unit as practical. Use a #10 light-weight oil or high speed spindle oil and adjust the feed to produce a slight oil mist at the exhaust.
- 2. The flexible hose connected to the front handle must be connected to a water supply. Standard plant pressure is sufficient. Turn on water supply and depress trigger on front handle until water begins to flow out of unit. This is in order to lubricate the seals in the chamber.
- 3. Attach the proper cleaning tool to the threaded end of the Cleaning Gun.

1.1 - OPERATION

- 1. If the tubes to be cleaned are completely clogged it is recommended that the short starter drill be used to create a pilot hole for the hollow drills. When using the starter drill water will not be flowing through the unit.
- 2. Attach the hollow drill of the proper diameter and length and make sure water supply is turned on at the source. Insert the carbide tip of the hollow drill into the hole created by the starter drill and depress the trigger on the front handle (open water valve slightly before the turbine is started). Do not force drill into tube. Apply light pressure and allow the drill to do the work giving the water sufficient time to back-flush deposits. Excessive force can clog the drill tip and subject the tube to damage. Depress trigger on front handle before entering each tube to assure water is flowing from tip of hollow drill.



WHEN THE HOLLOW DRILL AND EXTENSION TUBES ARE USED, DO NOT RUN DRY. ALWAYS TURN ON WATER SUPPLY AND DEPRESS TRIGGER ON FRONT HANDLE BEFORE STARTING.

CG625/1250 TUBE CLEANING GUN OPERATING INSTRUCTIONS

1.1 - OPERATION CONTINUED

INDUSTRIES

- 3. Water flow prevents the hole in the tip of the drill from becoming clogged, cools the drill, and flushes out deposit.
- 4. Depending on the type of deposit being cleaned, it may be necessary to clean the flute of the hollow drill. Simply scrape excess deposit from the flute with the blade of a screw driver or similar tool.
- 5. The drill should be held parallel to the tubes to be cleaned. This is especially important when first entering the tube. Once the carbide tip is fully into the tube, the drill will tend to center itself.
- 6. It may be desirable to protect the operator from water splashing by inserting the drill through a piece of cardboard or other material to form a shield.
- 7. If the tube is longer than 4 feet, it is suggested that a shorter drill be used first and then follow-up with a longer drill of sufficient length to go completely through the tube. This will prevent excessive bending of very long hollow drills. If tubes are accessible from both ends, it may be desirable to clean from each end.
- 8. Whenever possible, tubes should be in a horizontal position when being cleaned. When this is not possible, and tubes must be cleaned in vertical position, care must be taken to avoid allowing the weight of the Cleaning Gun to force the hollow drill into the tube too quickly.
- 9. As a final clean-up, it is recommended that the cutting/buffing tools be used on the extension tubes. Water flush must also be used in conjunction with these tools.
- 10. Stainless steel or black nylon brushes can also be used in addition to or instead of the cutting/buffing tools. These brushes are to be used on the extension tubes as above.



STAINLESS STEEL BRUSHES SHOULD NOT BE USED IN NON-FERROUS TUBES, AS THEY WILL LEAVE SCRATCHES IN THE TUBE WALL ON WHICH SCALE WILL ADHERE MORE READILY.

1.2 - MAINTENANCE & CARE

- 1. With proper care and operation, the Cleaning Gun will provide long and reliable service. It is recommended that all parts be wiped dry and cleaned after use. Should the hollow drill clog up at the tip, it should be detached from the Cleaning Gun and a stiff wire of suitable diameter be used for cleaning the tip. Then blow clean with compressed air from the tip end.
- 2. Before storing the tool it is recommended that small amount of light machine oil be squirted into the aiR hose. Then run drill for 5 to 10 seconds.







CG625/1250 TUBE CLEANING GUN ACCESSORIES

TO ORDER SELECT THE OUTSIDE DIAMETER AND GAUGE WALL OF THE TUBE(S)

TO ORDER SELECT THE INSIDE DIAMETER OF THE TUBE(S) IN THE TUBE I.D. SECTION BELOW

TUBE O.D. (BWG) TUBE DRIVING DRIVING TUBE EXTENSION BRUSH I.D. COUPLING TUBE COUPLING TUBE COUPLING AP-DRILLS	TWIST	
LD. COUPLING TUBE COUPLING TUBE COUPLING AP-DRILLS	CTD-DPILLS	
	OTD-DIVICES	BRUSHES
1/4" (23-24) 3/8" (14) .212-227 DC-187 DT-187 N/A N/A N/A N/A	CTD-187	
3/8"(14-15)	CTD-218	
3/8" (15-16) 1/2" (10) .244259 DC-218 DT-218 TC-218 ET-218 N/A AP-234	CTD-234	
3/8" (17) 1/2" (11) .260275 DC-218 DT-218 TC-218 ET-218 N/A AP-250 3/8" (18) 1/2" (11) .275290 DC-218 DT-218 TC-218 ET-218 N/A AP-265	CTD-250 CTD-265	
3/6 (16) 1/2 (11) 1/2 (12) DC-210 D1-210 D1-210 <thd1-210< th=""> <thd1-210< th=""> <thd1-2< td=""><td>CTD-203</td><td></td></thd1-2<></thd1-210<></thd1-210<>	CTD-203	
3/8" (20-22) 1/2" (13) .306321 DC-250 DT-250 TC-250 ET-250 N/A AP-296	CTD-296	
1/2"(14) 5/8"(9) .322337 DC-250 DT-250 TC-250 ET-250 N/A AP-312	CTD-312	
1/2"(14) .338353 DC-250 DT-250 TC-250 ET-250 N/A AP-328	CTD-328	
1/2"(15-17) 5/8"(10-11) .359389 DC-312 DT-312 TC-312 ET-312 BC-312 AP-343	CTD-343	
1/2"(18) 5/8"(12) .390420 DC-312 DT-312 TC-312 ET-312 BC-312 AP-375	CTD-375	
5/8" (13) .421452 DC-375 DT-375 TC-375 ET-375 BC-375 AP-406	CTD-406	S
5/8" (14-15) 3/4" (9-10) 453-483 DC-375 DT-375 TC-375 ET-375 BC-375 AP-437	CTD-437	E
5/8" (16-17) 3/4" (11) .484514 DC-437 DT-437 TC-437 ET-437 BC-437 AP-468 5/8" (16-17) 3/4" (11) .484514 DC-437 DT-437 TC-437 ET-437 BC-437 AP-468 5/8" (16-17) .3/4" (12) .545 .545 .00 .037	CTD-437	E
5/8" (18) 3/4" (12) .515545 DC-437 DT-437 TC-437 ET-437 BC-437 AP-500 3/4 (13) .546577 DC-437 DT-437 TC-437 ET-437 BC-437 AP-501	CTD-500 CTD-531	в
3/4 (13)	CTD-551 CTD-562	R
3/4" (14-15) .578608 DC-500 DT-500 TC-500 ET-500 BC-500 AP-562	CTD-562	U
3/4"(16-17) 7/8"(11) .609639 DC-500 DT-500 TC-500 ET-500 BC-500 AP-593	CTD-593	S
3/4" (18) 7/8" (12) .640675 DC-500 DT-500 TC-500 ET-500 BC-500 AP-625	CTD-625	Ĥ
7/8"(13) 676-706 DC-500 DT-500 TC-500 ET-500 BC-500 AP-656	CTD-656	
7/8" (14-15) 1" (9) .707737 DC-500 DT-500 ET-500 BC-500 AP-687	CTD-687	S
7/8" (16-17) 1" (10-11) .738769 DC-562 DT-562 TC-562 ET-562 BC-562 AP-718	CTD-718	E
7/8"(18) 1"(12) .770800 DC-562 DT-562 TC-562 ET-562 BC-562 AP-750	CTD-750	С
1"(13) 1 1/4"(5) .801831 DC-562 DT-562 TC-562 ET-562 BC-562 AP-781	CTD-781	Т
1"(14-15) 1 1/4"(6) .832862 DC-625 DT-625 TC-625 ET-625 BC-625 AP-812	CTD-812	
1"(16-17)	CTD-843	0
1"(18) 1 1/4" (7-8) .895925 DC-625 DT-625 TC-625 ET-625 BC-625 AP-875 1 1/2" (2) .926956 DC-625 DT-625 TC-625 ET-625 BC-625 AP-906	CTD-875 CTD-906	N
11/4" (9-10) .957-987 DC-625 DT-625 TC-625 ET-625 BC-625 AP-937	CTD-900 CTD-937	Р
1 1/4" (11) 1 1/2" (3) 988-1.024 DC-625 DT-625 TC-625 ET-625 BC-625 AP-968	CTD-968	G
1 1/4" (12) 1 1/2" (4) 1.025-1.055 DC-625 DT-625 TC-625 ET-625 BC-625 AP-1000	CTD-1000	Ũ
1 1/4" (13) 1 1/2" (5) 1.025-1.086 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1031	CTD-1031	
1 1/4" (14-15) 1 1/2" (6) 1.087-1.117 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1062	CTD-1062	н
1 1/4" (16-17) 1 1/2" (7) 1.1181149 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1093	CTD-1093	E
11/4"(18) 11/2"(8) 1.150-1.180 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1125	CTD-1125	48
1 1/2" (9) 1 3/4" (2) 1.181-1.211 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1156	CTD-1156	
11/2"(10) 13/4"(3) 1.212-1.242 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1187	CTD-1187	
1 1/2" (11) 1.243-1.280 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1218 1 1/2" (12) 1 3/4" (4) 1.281-1.311 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1218	CTD-1218	
1/2" (12) 1 3/4" (4) 1.281-1.311 DC-750 DT-750 ET-750 BC-750 AP-1250 1 1/2" (13-14) 1 3/4" (5) 1.312-1.342 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1281	CTD-1250 CTD-1281	
11/2" (15-16) 1 3/4" (6) 1.343-1.374 DC-750 DT-750 TC-750 ET-750 BC-750 AP-1312	CTD-1201	
1 1/2" (17-18) 1 3/4" (7) 1.375-1.405 DC-750 DT -750 TC-750 ET-750 BC-750 AP-1343	CTD-1343	
1 3/4"(8) 2"(1) 1.406-1.436 DC-750 DT -750 TC-750 ET-750 BC-750 AP-1375	CTD-1375	
1 3/4" (9) 2" (2) 1 437 1 467 DC-750 DT -750 TC-750 ET-750 BC-750 AP 1406	CTD-1406	
1 3/4" (10) 2" (3) 1.468-1.499 DC-750 DT -750 TC-750 ET-750 BC-750 AP-1437	CTD-1437	
1 3/4" (11) 2" (4) 1.500-1.530 DC-750 DT -750 TC-750 ET-750 BC-750 AP-1468	CTD-1468	
1 3/4" (12) 1.531-1.561 DC-750 DT -750 TC-750 ET-750 BC-750 AP-1500	CTD-1500	
1 3/4" (13) 2" (5) 1.562-1.592 DC-1000 DT-1000 TC-1000 ET-1000 BC-1000 AP-1531		
1 3/4" (14-15) 2" (6) 1,562-1,592 DT-1000 TC-1000 ET-1000 BC-1000 AP-1562 1 4/4" (14-15) 2" (6) 1,562-1,592 DT-1000 TC-1000 ET-1000 BC-1000 AP-1562		
1 3/4" (16-17) 2" (7) 1.625-1.655 DT-1000 TC-1000 ET-1000 BC-1000 AP-1593 1 3/4" (18-19) 2" (8) 1.656-1.686 DT-1000 TC-1000 ET-1000 BC-1000 AP-1625		
1 3/4"(18-19) 2"(8) 1.656-1.686 DT-1000 TC-1000 ET-1000 BC-1000 AP-1625 1 3/4"(20-21) 2"(9) 1.687-1.717 DT-1000 TC-1000 ET-1000 BC-1000 AP-1656		
2"(10) 1.718-1.749 DT-1000 TC-1000 ET-1000 BC-1000 AP-1036 2"(10) 1.718-1.749 DT-1000 TC-1000 ET-1000 BC-1000 AP-1687		
2"(11) 2 1/4"(3) 1.750-1.780 DT-1000 TC-1000 ET-1000 BC-1000 AP-1718		
2"(12) 2 1/4"(4) 1.781-1.811 DT-1000 TC-1000 ET-1000 BC-1000 AP-1750		
2" (13-14) 2 1/4" (5) 1.812-1.842 DT-1000 TC-1000 ET-1000 BC-1000 AP-1781		
2" (15-16) 2 1/4" (6) 1.843-1.874 DT-1000 TC-1000 ET-1000 BC-1000 AP-1812		
2" (17-18) 2 1/4" (7) 1.875-1.905 DT-1000 TC-1000 ET-1000 BC-1000 AP-1843		
2"(19-20) 2 1/4"(8) 1.906-1.936 DT-1000 TC-1000 ET-1000 BC-1000 AP-1875		
2"(21-22) 2 1/4"(9) 1.937-1.967 DT-1000 TC-1000 ET-1000 BC-1000 AP-1906		

Note: Larger sizes available, consult factory