

SELF ADJUSTING BORING BAR PACKING

High temperature chevron packing is spring-loaded to insure positive, leakproof sealing without packing adjustments. Line pressure does not enter case.

RUGGED CONSTRUCTION

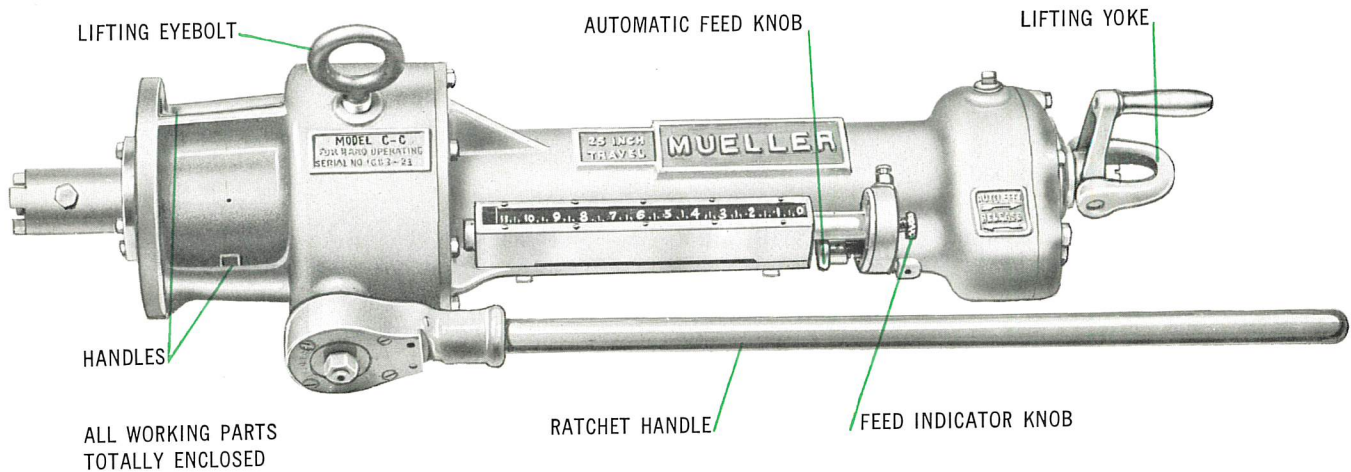
All working parts totally enclosed to permit complete lubrication and to prevent damage from dirt or other foreign material and from rough handling.

HANDLING EASE

Telescopic arrangement of working parts adds strength and rigidity and greatly reduces overall length and weight. Conveniently placed handles, eyebolt and lifting yoke permits easy handling of the machine — manually or with hoisting equipment.

AUTOMATIC FEED

Machines include a positive automatic feed during the cutting operation.

**FEED INDICATOR**

Easily set feed indicator shows amount remaining to be cut when in automatic feed.

RAPID HAND TRAVEL

When not cutting, the boring bar may be quickly and easily advanced or retracted by hand. Rapid advancement and retraction of the boring bar reduces time of operation.

TOOLS

Tools are available for making lateral connections using tapping sleeves and valves, gate valves or standard fittings in cast iron pipe, asbestos-cement pipe, cement-lined cast iron pipe, concrete pipe and steel pipe.



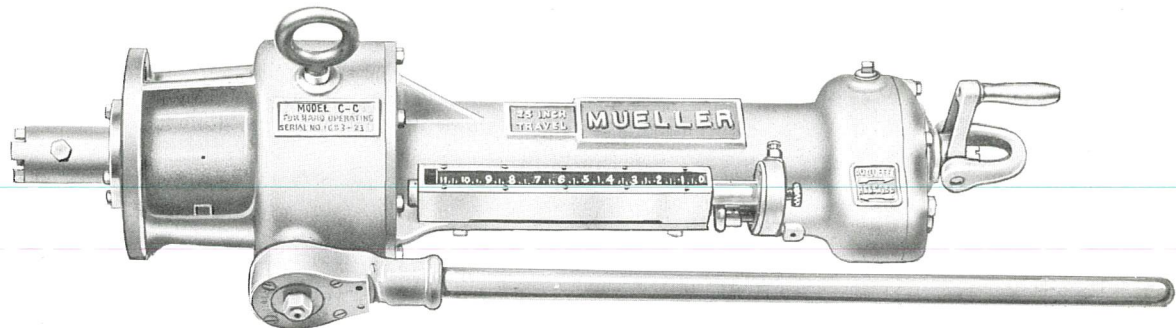
CC-25 DRILLING MACHINE

DRILLING MACHINES

SECTION

2

FOR DRILLING OPERATIONS 2" TO 12" INCLUSIVE UNDER PRESSURE



CC-25 MACHINE AND EQUIPMENT FURNISHED

Shipped in Strong Wooden Chest
Total Shipping Weight: 380 pounds
Machine Weight only: 210 pounds

CAPACITY AND USE:

The CC-25 Drilling Machine is hand operated for making cuts from 2" to 12" inclusive in any size of main. This machine has automatic tool feed and is equipped with feed indicator.

Used with MUELLER Tapping Sleeves and Valves, Gate Valves or standard fittings, it will make cuts 2" to 12" inclusive under pressure for lateral connections. (Section 20)

Used with proper MUELLER equipment, it will insert a 4", 6" or 8" special MUELLER Gate Valve into a main of equal size under pressure. (Inserting Valves-Section 22)

WORKING PRESSURE AND TEMPERATURE:

500 p.s.i. Maximum Working Pressure at 100° F.

500° F. Maximum Temperature Rating at 250 p.s.i.

The working pressure or temperature rating is reduced accordingly if any attachment, valve or fitting subjected to pressure or temperature during the drilling operation has a maximum working pressure or temperature rating less than that specified above.

LENGTH OF TRAVEL:

25" — This is adequate for all sizes of MUELLER Tapping Sleeves and Valves, and MUELLER Inserting Valves within the capacity of the machine.

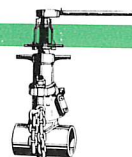
EQUIPMENT FURNISHED WITH EACH MACHINE:

Ratchet Handle
Socket Wrench
4 — Double Open End Wrenches
Allen Wrench
8 — $\frac{5}{8}$ " x 3" Bolts and Nuts — Machine to Adapter
8 — $\frac{11}{16}$ " D-Type Washers — Machine to Adapter
1 — Gasket — Machine to Adapter
Cutting Grease

EQUIPMENT TO BE SELECTED:

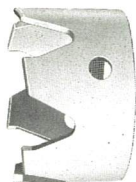
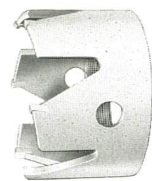
See page 2-18 and 2-19 for equipment required for use with Tapping Sleeves and Valves to make lateral connections. See Section 22 for equipment for Inserting Valves.

ORDER MACHINE BY QUANTITY AND CATALOG NUMBER



MUELLER CO.
DECATUR, ILL.

2-17

SHELL CUTTER
FOR CAST IRONSHELL CUTTER
TUNGSTEN CARBIDE TIPPED

CUTTER HUB



PILOT DRILL

PILOT DRILL
TUNGSTEN CARBIDE TIPPED

DRILL

SELECT THE FOLLOWING EQUIPMENT FOR MAKING LATERAL CONNECTIONS TO CAST IRON, CEMENT-LINED CAST IRON, ASBESTOS-CEMENT, CONCRETE AND STEEL MAINS BY DRILLING THROUGH **TAPPING SLEEVES AND VALVES:**

SHELL CUTTER—According to size of tapping valve and type of main to be cut.

CUTTER HUB —According to size of shell cutter.

PILOT DRILL —According to size of shell cutter and type of pipe to be cut.

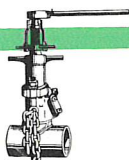
DRILL —Replaces shell cutter, cutter hub and pilot drill.

ADAPTER —See Page 2-19.

FOR CAST IRON PIPE	SIZE OF TAPPING VALVE							
	2"	2 1/4"	3"	4"	6"	8"	10"	12"
Shell Cutter			55693	50816	55266	52754	80547	80549
Cutter Hub			88101	54526	54501	54653	54661	54491
Pilot Drill			33976	59844	59845	64245	54489	54489
Drill	88342	88342						
FOR CEMENT-LINED CAST IRON PIPE & ASBESTOS-CEMENT PIPE:								
Shell Cutter				83114	80545	80546	80547	80549
Cutter Hub				54526	54501	54653	54661	54491
Pilot Drill *				52158	74869	74870	74871	74871
Drill *	83077	83077						
FOR CONCRETE PIPE & ASBESTOS-CEMENT PIPE:								
Shell Cutter **				83203	83134	83135	83140	83141
Cutter Hub				83202	63740	63739	64240	33107
Pilot Drill **				83201	83056	83056	83137	83139
FOR STEEL PIPE:								
Shell Cutter				63730	63790	63795	64207	83118
Cutter Hub				88101	54526	54501	54653	54491
Pilot Drill				33976	63686	36005	64244	36338
Drill	88342	88342						

*These tools, marked CEM-RES, are for use with cement-lined cast iron pipe. They may also be used for asbestos-cement pipe.

**The Shell Cutters and Pilot Drills are Tungsten Carbide Tipped to provide a strong sharp cutting edge which will resist abrasive action encountered when cutting concrete pipe. When cutting concrete pipe these tools must be power operated. We also recommend these tools for cutting asbestos-cement pipe, cement-lined cast iron pipe and cast iron pipe, because they will make a greater number of cuts before sharpening. For asbestos-cement pipe, tools may be hand operated; however, they should be power operated when cutting cement-lined cast iron pipe and cast iron pipe. The outside diameter of the Shell Cutters is 1/2" less than the nominal size of the tapping valve. This undersize design greatly reduces the wear on the outside edge of the Shell Cutters when making a lateral connection the same size as the main being cut and reduces travel required to complete cut.



CC-25 AND C1-25 MACHINE EQUIPMENT

DRILLING MACHINES

SECTION 2

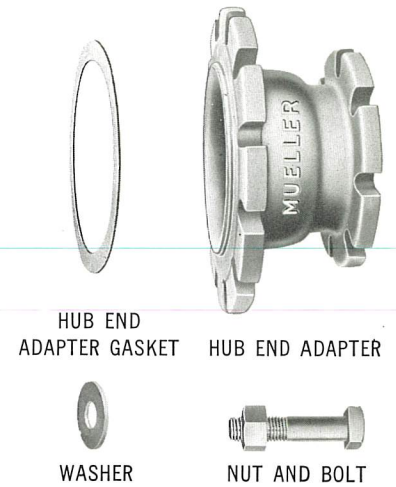
SELECT THE FOLLOWING TAPPING VALVE ADAPTERS FOR USE WITH THE DRILLING EQUIPMENT SHOWN ON THE OPPOSITE PAGE (2-18)

ADAPTER — According to the size and type of tapping valve to be used.

FOR H-640, H-642, H-643, H-660, H-662 & H-663 RING-TITE & HUB END TAPPING VALVE:	SIZE OF TAPPING VALVE							
	2"	2 1/4"	3"	4"	6"	8"	10"	12"
Adapter Complete (including gasket, bolts, nuts and washers)	83360		83361	83362	83363	83364	83365	83366
Adapter Only	54631		54560	54527	54515	54537	54658	54548
Adapter Gasket Only	59771		59772	59773	59774	59775	54677	54686
Bolts & Nuts Only	54806		56682	56682	54162	54162	94407	94407
Number Required	6		6	6	6	6	8	10
Washers Only	54597		58321	58321	92576	92576	98919	98919
Number Required	12		12	12	12	12	16	20

FOR H-665, H-667 & H-668 MECHANICAL JOINT TAPPING VALVE:	2"	2 1/4"	3"	4"	6"	8"	10"	12"
Adapter Complete (including gasket)	83432	83464	83367	83368	83369	83370	83371	83372
Adapter Only	52161	52494	46269	46268	46267	46266	46265	46264
"O" Ring Adapter Gasket Only	52162	43922	46387	46388	79020	46389	46390	46391
Bolts, Nuts & Washers	2 ea. 36445	2 ea. 36445	Furnished with each Mechanical Joint Tapping Valve					

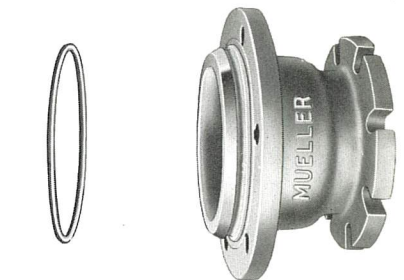
2" and 2 1/4" Adapter includes 2 bolts and nuts, part number 36445



HUB END ADAPTER GASKET HUB END ADAPTER



WASHER NUT AND BOLT

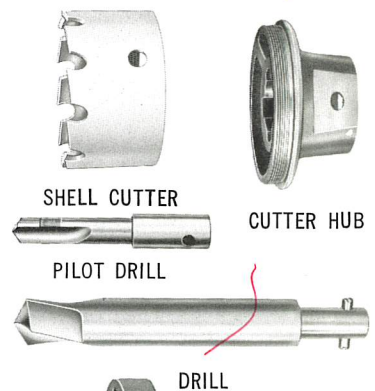


"O" RING ADAPTER GASKET MECHANICAL JOINT ADAPTER

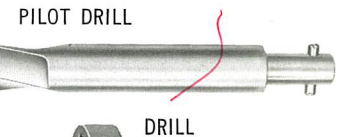
SELECT THE FOLLOWING EQUIPMENT FOR MAKING LATERAL CONNECTIONS TO STEEL MAINS BY DRILLING THROUGH GATE VALVES OR STANDARD FITTINGS:

- SHELL CUTTER — According to size of valve or fitting to be used.
- CUTTER HUB — According to size of shell cutter.
- PILOT DRILL — According to size of shell cutter.
- DRILL — Replaces shell cutter, cutter hub and pilot drill.
- ADAPTER — According to size and type of valve or fitting to be used.

Size of Gate Valve or Fitting	2"	3"	4"	6"	8"	10"	12"
Size of Shell Cutter or Drill	1 1/2"	2 1/2"	3 1/2"	5 1/2"	7 1/2"	9 1/2"	10 13/16"
Shell Cutter		33518	33519	36004	33999	33244	33243
Cutter Hub		88338	88340	63978	33996	33250	33107
Pilot Drill		33976	33976	36005	64244	36338	36338
Drill	88341						



SHELL CUTTER CUTTER HUB

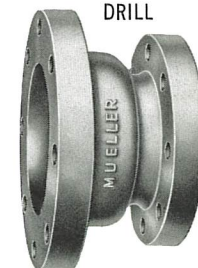


PILOT DRILL DRILL

Type of Inlet Flange	Maximum Working Pressure*	Size of Gate Valve or Fitting						
		2"	3"	4"	6"	8"	10"	12"
150 Pound	230 p.s.i.	78951	78954	78957	78962	78967	78972	78977

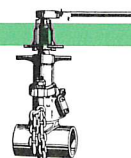
*This is the maximum working pressure of the adapter at 100° F. This working pressure must be reduced accordingly if any attachment, valve, fitting or machine, subjected to pressure during the use of this adapter, has a maximum working pressure less than that specified above.

NOTE: When using these adapters with standard gate valves, check to be sure there is sufficient travel to complete the cut if special fittings are used to attach the gate valve to main being cut.



STEEL ADAPTER

ORDER BY QUANTITY, PART NUMBER AND PART NAME



**MUELLER CO.
DECATUR, ILL.**