

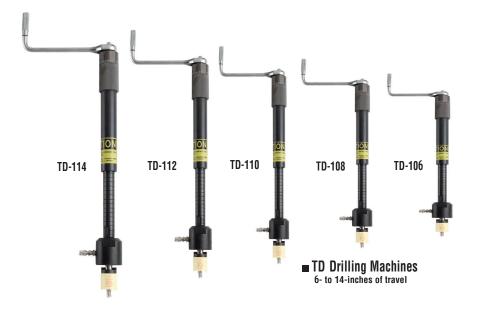
T.D. Williamson

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Supercedes: 2000.002.02 (05.2006)

Pipe Sizes: 1/2- to 2-inch



## **Description**

Drilling machines are used to make connections to pipelines, tanks and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

The TD-XX or TD-1XX Drilling Machine is a manual or power-driven machine which taps into pipe while under pressure. It is used for making taps on 1/2- through 2-inch (DN 13 - DN 50) pipe without shutdown. It can be used to install 3/4- through 2-inch completion plugs in tapping nipples to permit recovery of tapping valves and to install TDW PIG-SIG® Scraper Passage Indicators.



■ Hole Saw (various sizes)

#### **Features**

The model TD-XX or TD-1XX Drilling Machine is available in several versions: models have total travel lengths ranging from 6- to 14-inches (depending on the version).

The TD Drilling Machine is very compact, from 18.6- to 35.3-inches in total length (depending on version). O-ring seals take the place of adjustable packing. O-Ring Top seal keeps water and dust away from the thrust bearing.

The TD Drilling Machine meets NACE Standard MR0175-93, sulfide stress cracking resistant metallic material for oilfield equipment. Its maximum working pressure is 740 psig (50bar). Its operating temperature is -20°F (-29°C) to 180°F (82°C).

Other features include: Lightweight 14 pounds for the TD-12 (other models range from 9 to 17 lbs depending on length). Versatile 1/16- through 2-inch taps. This machine is compatible with TD Williamson's T-101 Drilling Machine. It allows for easy completion plug installation, since the feed mechanism matches our SHORTSTOPP threaded completion plug at 12 threads per inch. Black liquid nitride corrosion resistant finish is the latest in protective coatings.

## Options

T.D. Williamson is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

Optional O-Rings can be provided to accommodate different service applications.

The TD Drilling Machines are furnished with a ratchet crank for manual operation. An optional hand-held air motor can also be used.

Adapter piece can be either 1-inch NPT male or a 2-inch NPT female that offers compatibility to the T-101.

Note: Boring bar length also varies with adapter type. Drill is recessed with 1-inch NPT male adapter (Model TD-XX), resulting in no separate adapter required when used with a 1-inch NPT valve.



**■** 1-inch Threaded Adapter



2000.002 - p2

ling Machine	Item	Lb.	Kg.	Part Number	
	TD-XX (1-inch NPT male end)			05-1088-0000-SUFF	
	TD-1XX ( 2-inch NPT female end)			05-1088-1000-SUFF	
	Includes:				
	Ratchet Crank			00-1443-0001	
	Cap			05-1088-0006	
TT .	Purge Valve			00-6390-0001	
	Optional Equipment:				
TON	Air Motor Pistol Grip	6	3	00-1508-0001	
	Air Motor Angle Grip	8	4	05-2160-0000	
The cap locks the feed and rotation of machine to set and retrieve	Drive Socket			00-1509-0002	
completion plugs. (12 tpi)	Steel Carrying Case (Std.)	15	7	05-1088-0500-xx	
	Plug Holder for 2-inch THREAD-O-RING™ Plug	Plug Holder for 2-inch THREAD-O-RING™ Plug			
	Plug Holder for 2- and 3-inch SHORTSTOPP® Co	Plug Holder for 2- and 3-inch SHORTSTOPP® Completion Plug			

# **Operating Specifications**

## Maximum Operating Pressure/Temperatures

740 psi (50 bar) @ -20°F - 180°F (-29°C - 82°C)

 $^{\star}$  Note: For higher temperature rating, consult factory.

Drilling Machine Specifications	Item	inches	mm	
	Boring Bar Extension/Revolution	0.083	2.1	
	Feed Mechanism	Hand-Fed	d Machine	

### TD Drilling Machines -1-inch Male End (NPT)



Model	Travel (inches)	Lbs.	Overall Length	Part Number	
TD-06	6	9	18.6	05-1088-0000-06	
TD-08	8	10	22.6	05-1088-0000-08	
TD-10	10	11	26.6	05-1088-0000-10	
TD-12	12	14	30.6	05-1088-0000-12	
TD-14	14	15	34.6	05-1088-0000-14	

### TD Drilling Machines - 2-inch Female End (NPT)



Model	Travel (inches)	Lbs	Overall Length	Part Number
TD-106	6	11	19.3	05-1088-1000-06
TD-108	8	12	23.3	05-1088-1000-08
TD-110	10	14	27.3	05-1088-1000-10
TD-112	12	16	31.3	05-1088-1000-12
TD-114	14	17	35.3	05-1088-1000-14



2000.002 - p3

								2000.002 -
		Drill Diame				Drill Length		
Drills for TD-XX	Inches		DN		Inche	S	mm	Part Number
	1/2		12.7		6		150	05-1096-0005
	9/16		14.3		6		150	05-1096-0006
	5/8		15.9		6		150	05-1096-0007
	11/16		17.5		6		150	05-1096-0008
	3/4	3/4		19.1			150	05-1096-0009
	13/16		20.6		6		150	05-1096-0010
	7/8	7/8 22.2			6		150	05-1096-0011
		* Drill Holder for 1/16- to 5/32-inch drills * Drill not included						05-1099-XXXX
Orills for TD-1XX	Drill Diameter Inches DN		Drill Le Inches		Length Val		ve Size mm	Part Number
7.110 101 12 17.11	1/2	12.7		6	150	1-1/4 - 2	32-50	05-0203-0005
	1/2	12.7	2	22-1/4	565	1	25	05-0189-0001
	3/4	19.0	2	6	150	1-1/4 - 2	32-50	05-0203-0009
	3/4	19.0	2	22-1/4	565	1	25	05-0189-0002
	1	25.0		6	150	1-1/4 - 2	32-50	05-0203-0012
	1-1/4	32.0		6	150	1-1/2 - 2	40-50	05-0203-0013
	1-7/16	36.5		7-3/8	187	1-1/2 - 2	40-50	05-0193-0001
lole Saws/Cutters and Holder Pilots for TD-1XX		Nominal Tap Size Inch DN		ctual Diameter mm			-Size Holder Pilot Part No.	Not Size-on-Size Holder Pilot Part No.
ole Saws/Gullers and Holder Filots for TD-TAX	1	25	1-1/16	26.1		151-0033	05-1095-0000	05-1095-0000
	1-1/4	32	1-5/16	33.3		151-0005	05-1093-0000	05-1093-0000
	1-1/4	38	1-9/16	39.7		151-0009	05-0275-0000	05-0290-0000
	2	50	1-7/8	47.6		179-0009	05-0277-0000	05-0290-0000
	Nor	minal		47.0	0)-0	179-0002	Maxim	um Pressure
	·	er Diamete						Drilling Machine)
hreaded Valve Adapters for TD-1XX	Inches		N		Part Numb		psi	Bar
(Not required for TD-XX model)	1		!5		06-1223-0		740	50
	1-1/4		2		00-0757-0		740	50
	1-1/2		38		00-0757-0011		740	50
	2		60		00-0706-0		740	50
	3	8	10	0	6-1303-000	01-02	740	50
	Nomi	Nominal Size			Minimum Para			
alve Dimensions for Making Taps	Inches		N	Minimum Bore				
and Dimensions for making Taps	1					Inches 15/16	mm 24	
	-		25					
	2	5	50			2-1/16	52.4	