DC

DUCT RODDER INTRODUCTION

DCD offers one of the most comprehensive range of Duct Rodders available anywhere in the world - from the smallest 1/8" diameter Fish Tapes to the rugged 1/2" Duct Rodders.

THE ROD

DCD rods are manufactured from state-of-the-art materials formulated to offer the high performance & durability demanded by our customers.

The core of the rod is manufactured by the pultrusion process. This involves impregnating high strength continuous glass fiber filaments with a liquefied resin. The fibers are drawn in to a heated die where the resin matrix is cured, bonding the fibers together and allowing mechanical loads to be transmitted through the matrix and distributed amongst the fibers.

The resulting pultruded rod combines both the high stiffness required to push the rod through long

distances of ducting, with the flexibility to handle tight bends without damage. This inner core is then coated with a highly durable, scratch resistant polypropylene sheath which protects the core from mechanical damage.

THE FRAMES

Frames are also a feature of the DCD systems. The four largest sizes incorporate the new EZ-Tip™ feature; a larger footprint for stability; steel brake handles that will last forever; dual rod out-feeding positions and wheels inside the frame width. The two smallest sizes feature frames with the feedout built into the handle. All frames can be laid down on either side. These are just some of the design features that will make every unit more usable and friendly for the end user.

ROD SELECTION

Which is the right rod diameter for any given application? The rod selection is usually governed by several factors including:

- The size of ducting it is to be pushed through
- The distance the rod is to be pushed
- The number and tightness of bends in the ducting
- If the ducting is already occupied by cable

When being pushed through the duct, any rod will tend to form "sine waves", hitting the wall of the duct at certain intervals. Each time the rod comes in contact with the wall of the duct, it causes friction. The friction will build and eventually prevent the rod from being pushed any further. Small rod in large duct will make more frequent contact with the ducting; the same rod in smaller duct will make less frequent contact and therefore less friction so it can be pushed further. Large rod in small ducting is a good situation, but reduced flexibility of the rod may cause increased friction in the tighter bends.

The chart below is a rough guide as to rod diameter selection, but the above factors should all be taken into consideration before making the final selection.

Rod Dia.	Threaded Connection	Tensile Strength of Rod	Typical Strength of Glued Connection	Typical Strength of Screwed Connection	Minimum Bend Radius	Typical Max. Duct Dia.	Max. Length of Push or Pull
1/8"	#12 UNC	1,125 цв	140 LB	-	2"	1-1/4"	150 FT
3/16"	#12 unc	2,200 LB	350 LB	-	4"	2"	300 FT
1/4"	5/16" unc	4,070 LВ	800 LB	1,050 цв	7"	2-1/2"	400 FT
5/16"	5/16" UNC	7,700 LB	850 LB	1,100 цв	10"	3"	600 FT
3/8"	3/8" UNC	8,580 цв	1,150 цв	1,150 цв	12"	4"	800 FT
7/16"	3/8" UNC	11,000 LB	1,750 цв	1,200 цв	16"	8"	1,200 FT
1/2"	3/8" UNC	13,000 LB	1,900 цв	1,250 цв	18"	10"	1,000 FT

NOTE! ALL DUCT RODDERS ARE CUSTOM BUILT TO ORDER AND ARE NON-RETURNABLE EXCEPT FOR WARRANTY.

ALL REPLACEMENT RODS WILL BE SHIPPED IN A NEW CAGE FOR EASY REPLACEMENT ONTO THE FRAME. EXTREME CARE MUST BE TAKEN WHEN HANDLING LOOSE FIBERGLASS ROD AS IT STORES CONSIDERABLE ENERGY AND MAY CAUSE SEVERE INJURY.













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RUF ROD

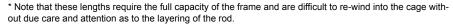
56500 SERIES - 1/2" DIAMETER

The 1/2" Ruf Rod completes the range of DCD Duct Rodders. <u>The storage basket is the same</u> as the for the 7/16" rod at 40" diameter and can store up to 1000 ft of the 1/2" fiberglass rod.

The Standard Ruf Rods include a female rod end, a swivel rod end and a pulling eye. The deluxe version includes accessories as listed below.

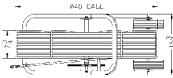
All accessories that attach to the rod can be glued on in the traditional manner or can be clamped on with set screws or they can be glued <u>and</u> clamped for extra security.

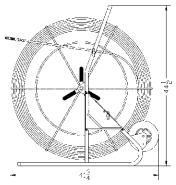
Deluxe 1/2" Rod	Rod Length	Weight	Replacement Rod	Deluxe Rod Accessories	
56500-400	400 FT	96 LB	56600-400		
56500-500	500 FT	109 цв	56600-500	1 Splice Connector	
56500-600	600 FT	122 LB	56600-600	1 FLEXIBLE GUIDE HEAD 1 ROLLER GUIDE 1 CLEVIS END 1 GLUE 3GM 1 ROD GRIPPER 1 ACCESSORY POUCH	
56500-700	700 FT	135 цв	56600-700		
56500-800	800 FT	149 цв	56600-800		
56500-900*	900 FT	162 LB	56600-900		
56500-1000*	1000 FT	175 цв	56600-1000		



For Standard Rodder units that do not include accessories shown above, add "X" to the part number.







DETECTABLE DUCT RODS

DCD Detectable Duct Rodders are available in 3/16", 5/16" and 7/16" diameter rods. They are available in the same lengths as the regular rodders and are mounted in the same frames. The purpose of the detectable rod is to be able to accurately locate existing ducting underground or to locate the position of a blockage within a duct.

Each DCD detectable duct rod unit is supplied with a terminal box mounted on the frame with male and female banana terminals for external hook up.

It is recommended that a Roller Guide (57150 series) be used in order to better make the connection between the end of the rod and the wall of the ducting. This is necessary in order to complete the circuit back to earth.

Any transmitter can then be hooked up to the terminal box with the second lead from the transmitter going to ground (spike into earth). Once switched on, the signal will be transmitted along the duct rod and a standard locator can then be used to locate the signal source from above ground.

DCD Also offers various stainless steel adapters for attaching a sonde unit to the swivel rod end.

The detectable duct rodders use 22 gauge copper wire.

Caution should be exercised when ordering long lengths because the signal will diminish with distance traveled.



EXTREME DANGER: Never use a Detectable Rodder in a live electrical environment.

ELECTRICAL SHOCK OR DEATH MAY RESULT IF CONDUCTIVE ROD TOUCHES EXPOSED CIRCUIT.

