

**YOUR  
HOME FOR  
HOUSINGS.**



TRANSMITTER  
HOUSINGS  
MELLERED

\* Heartland Construction Equipment \* (800) 688-2878 \* hcrweb.com \*

Featuring a precision-machined design for quick installation and sonde removal, our durable selection of super-nozzled housings can accommodate everything from mini to maxi rigs, transforming the way you get the job done.

# SIDE-LOAD TRANSMITTER HOUSINGS FOR DIGITRAK TRANSMITTERS\*

- Heat-treated, chrome-moly alloy for maximum strength and durability
- Removable tail-piece increases longevity of housing
- More slots for better signal strength and battery life
- Side load housings available in bolt-on and thread-on styles
- Incorporates the Super Nozzle designed to minimize clogging
- The Supernozzle is used for all blade style housings

**1600-1712** Supernozzle



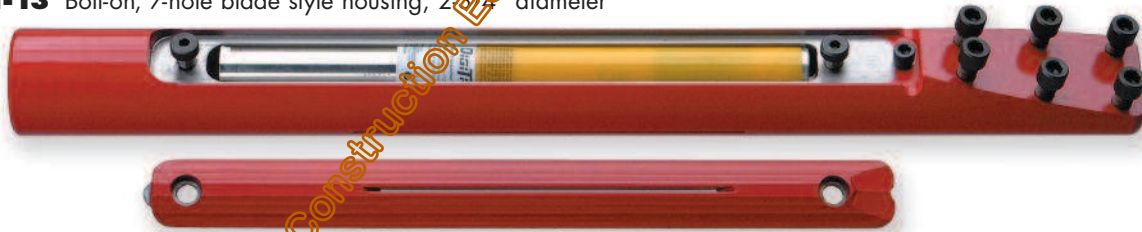
**1720-HM-09** Bolt-on, 3-hole blade style housing, 2" diameter with locking bolt – for Mini Digitrak Transmitter



**1725-HT-13** Bolt-on, 7-hole blade style housing, 2-1/2" diameter



**1727-HT-13** Bolt-on, 7-hole blade style housing, 2 3/4" diameter



**1632-HT-13** Bolt-on, 7-hole blade style housing, 3-1/4" diameter



\* DigiTrak is a registered trademark of Digital Control Incorporated, Renton, WA



To place an order or find a dealer **800-833-1252**

Fax 24 hours a day: **805-614-9548**

**www.melfredborzall.com**



**1725-HT** Screw-on bit style housing, 2-1/2" diameter with Timing Mechanism

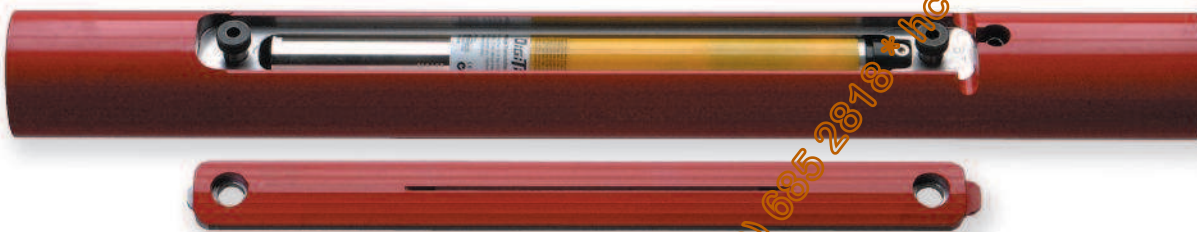


■ Timing Mechanism on all 1725, 1727, 1632, 1927 and 1932 models

**1727-HT** Screw-on bit style housing, 2-3/4" diameter with Timing Mechanism



**1632-HT** Screw-on bit style housing, 3-1/4" diameter with Timing Mechanism



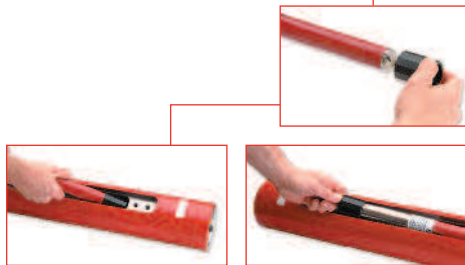
**1742-HT** Screw-on bit style housing, 4-1/4" diameter with Locking Bolt & Timing Mechanism



Heatland Construction Equipment \* (800) 635 2878 \* hceweb.com \*

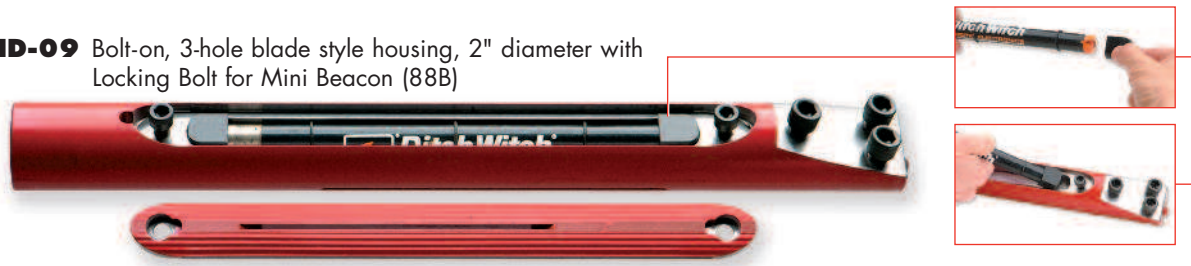
**Transmitter Housings for Digitrak**

Drill Rig Model	Configuration	Part #
DD65/mini Digitrak transmitter	2" dia. side-load, for 3-hole blades 1.21"-6 box X Ditch Witch 3-bolt	1720-HM-09
D7x11, D10x15, D6x6 6010, DD1	2-1/2" dia. side-load, screw-on bit 2" IF box X 2" IF box	1725-HT
D7x11, D10x15, 6010, DD1	2-3/4" dia. side-load, for 7-hole blades 2" IF box X Vermeer 6-bolt	1725-HT-13
D16x20, D18x22, D20x22, D24x26 DD1215, DD1416	2-3/4" dia. side-load, screw-on bit 2" IF box X 2" IF box	1727-HT
D16x20, D18x22, D24x26 DD1215, D20x22, DD1416	2-3/4" dia. side-load, for 7-hole blades 2" IF box X Vermeer 6-bolt	1727-HT-13
D24x40, D33x44, D36x50, DD3238, DD3, DD4, 6030	3-1/4" dia. side-load, screw-on bit 2-3/8" API-R box X 2-3/8" API-R box	1632-HT
D24x40, D33x44, D36x50, DD3238, DD3, DD4, 6030	3-1/4" dia. side-load, for 7-hole blades 2-3/8" API-R box X Vermeer 6-bolt	1632-HT-13
D50x100, D80x100, DD6, DD8	4-1/4" dia. side-load, screw-on bit 2-7/8" IF box (rear) X 2-7/8" API-R box (front)	1742-HT



# SIDE-LOAD TRANSMITTER HOUSINGS FOR DITCH WITCH SUBSITE® BEACON

**1920-HD-09** Bolt-on, 3-hole blade style housing, 2" diameter with Locking Bolt for Mini Beacon (88B)



**1927-HD-14** Bolt-on, 5-hole blade style housing, 2-3/4" diameter



**1932-HD-14** Bolt-on, 5-hole blade style housing, 3-1/4" diameter



**1932-HD-15** Bolt-on, 6-hole blade style housing, 3-1/4" diameter



\* Heartland Construction Equipment \* (800) 685 2818 \* hceweb.com \*

\* Ditch Witch, JetTrac and Subsite are registered trademarks of Charles Machine Works, Perry, OK



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**1927-HD** Screw-on bit style housing, 2-3/4" diameter with Timing Mechanism



**1932-HD** Screw-on bit style housing, 3-1/4" diameter with Timing Mechanism



**1942-HD** Screw-on bit style housing, 4-1/4" diameter with Timing Mechanism



**Transmitter Housings for Subsite Beacons**

Drill Rig Model	Configuration	Part #
JT520/mini Subsite beacon (88B)	2" dia. side-load, for 3-hole blades, 88B 1.21"-6 box X Ditch Witch 3-bolt	<b>1920-HD-09</b>
JT920, JT920L, JT921, JT1220, JT2020, JT1720, JT1720 Mach1	2-3/4" dia. side-load, for 5-hole blades, 86B 2" IF box X Ditch Witch 5-bolt	<b>1927-HD-14</b>
JT920, JT920L, JT921, JT1220, JT2020, JT1720, JT1720 Mach1	2-3/4" dia. side-load, screw-on bit, 86B 2" IF box X 2" IF box	<b>1927-HD</b>
JT2720	3-1/4" dia. side-load, for 5-hole blades, 86B 2-3/8" API-R box X Ditch Witch 5-bolt	<b>1932-HD-14</b>
JT2720, JT2720 Mach1, JT3020, JT4020, JT4020 Mach1	3-1/4" dia. side-load, for 6-hole blades, 86B 2-3/8" API-R box X Ditch Witch 6-bolt	<b>1932-HD-15</b>
JT2720, JT2720 Mach1, JT3020, JT4020,	3-1/4" dia. side-load, screw-on bit, 86B 2-3/8" API-R box X 2-3/8" API-R box	<b>1932-HD</b>
JT7020, JT4020 Mach1, JT8020 Mach1	4-1/4" dia., side-load, screw-on bit, 86B 2-7/8" IF box (rear) X 2-7/8" API-R box (front)	<b>1942-HD</b>



*"We used a Melfred Borzall 1632-HT-13 housing with the Excalibur blade to make a 500' bore through tough, rocky soil. They were good tools, worked well in the tough conditions and the prices were very reasonable."*

**George Turner**  
Spokane Ditch & Cable, Inc., Spokane, WA

\* Hearland Company Equipment \* (800) 685 2878 \* hceweb.com \*



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# HIGH-FLOW TRANSMITTER HOUSINGS

Ideal to use with your mud motor

**D287** 3-5/8" High-Flow Housing



- Numerous fluid passages surround the transmitter giving maximum flow with minimum pressure drop
- End-load design for maximum torsional, compressive, and bending strength
- One housing can accommodate 2-cell, 4-cell and cable transmitters from DigiTrak, and Subsite 86B beacons
- Sizes to accommodate rigs from 20,000 to 300,000 lbs. pullback

Check out our **Rock-It Mud Motors** on page 20

## High-Flow Housings

Description	Housing Threads	Part #
3-1/4" dia. housing, 31" long Ideal for Vermeer* D24x40, D33x44, Ditch Witch JT2720, JT520 Mach1, Astec* DD3238, DD3 & 6030	2-3/8" API Reg box (fwd) 2-3/8" API Reg box (rear)	<b>D285</b>
3-5/8" dia. housing, 31" long Ideal for Vermeer D36x50, D40x40, Ditch Witch JT3020, JT4020 Mach1, Astec DD4	2-3/8" API Reg box (fwd) 2-3/8" API Reg box (rear)	<b>D287</b>
4-1/4" dia. housing, 35" long Ideal for Vermeer D50x100, D80x100, Ditch Witch JT7020, Astec DD6, DD8,	2-7/8" API Reg box (fwd) 2-7/8" IF box (rear)	<b>D308</b>
4-7/8" dia. housing, 35" long Ideal for Vermeer D80x120, D100x120, Ditch Witch JT8020, Astec DD9014, DD10	3-1/2" API Reg box (fwd) 3-1/2" IF box (rear)	<b>D315</b>
6-3/8" dia. housing, 35" long Ideal for 140,000 lbs	4-1/2" API Reg box (fwd) 4-1/2" IF box (rear)	<b>D196</b>

\* Vermeer is a registered trademark of Vermeer Mfg. Co., Pella, IA  
Astec is a registered trademark of Astec Underground, Loudon, TN

## BOLT-ON BIT BODIES

For screw-on bit style housings

**1932-15** 6-bolt Ditch Witch bolt-on bit body



**1742-23** 6-bolt Vermeer 5/8" bolt-on bit body

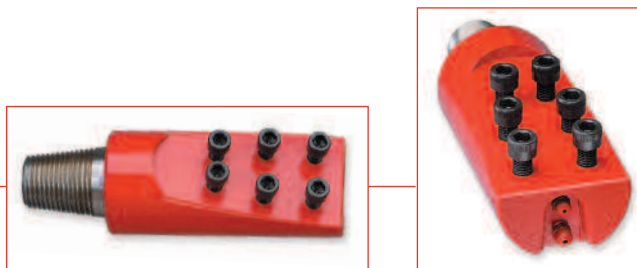


## Bolt-On Bit Bodies

Other bolt patterns and threads can be special ordered.

Description	Thread	Housing	Part #
6-bolt Vermeer, 1/2" bolt	2" IF pin	1725-HT, 1727-HT	<b>1725-13</b>
6-bolt Vermeer, 1/2" bolt	2-3/8" API-R pin	1932-HT, D285, D287	<b>1632-13</b>
6-bolt Vermeer, 5/8" bolt	2-7/8" API-R pin	1742-HT, D308	<b>1742-23</b>
5-bolt Ditch Witch, 12mm bolt	2" IF pin	1927-HD	<b>1927-14</b>
5-bolt Ditch Witch, 12mm bolt	2-3/8" API-R pin	1932-HD, D285, D287	<b>1932-14</b>
6-bolt Ditch Witch, 16mm bolt	2-3/8" API-R pin	1932-HD, D285, D287	<b>1932-15</b>
6-bolt Ditch Witch, 20mm bolt	2-7/8" API-R pin	1942-HT, D308	<b>1942-25</b>

- Allows blades to be used on Thread-On style and High Flow housings
- Incorporates the Super Nozzle designed to minimize clogging



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## TAIL PIECES

- Extends the life of your transmitter housing
- Don't throw away your housing just because the threads are worn out
- Allows different threads to be used on a single housing

**1632-L43M** Navigator D24x26, D24x40



**1932-L54F** JetTrac JT2720



\* Navigator is a registered trademark of Vermeer Mfg. Co., Pella, IA

### Tail Pieces

1720 Style Housing Drill Rig Model	Connection	Part #
JetTrac JT520	EZ Connect 2 starter rod x taper thread pin	1720-L520F
Astec DD65	Quick-Disconnect starter rod x taper thread pin *	1720-L65M
1725, 1727, or 1927 Style Housings Drill Rig Model	Connection	Part #
Navigator D7x11, D10x15	Quick-Disconnect starter rod x 2" IF pin	1725-L42M
Navigator D16x20, D18x22, D20x22	Quick-Disconnect starter rod x 2" IF pin	1725-L43M
JetTrac JT920, JT920L	EZ Connect 2 starter rod x 2" IF pin	1927-L55F
JetTrac JT1220	EZ Connect 2 starter rod x 2" IF pin	1927-L58F
JetTrac JT1720, JT1720M1, JT2020	EZ Connect 2 starter rod x 2" IF pin	1927-L54F
Astec DD1215, DD1416	Quick-Disconnect starter rod x 2" IF pin	1927-L58F
Astec DD2024	Quick-Disconnect starter rod x 2" IF pin	1927-L54F
2" IF pin x RTF, cross-over for use with RT couplings on pgs. 40-41		1725-RTF
1632 and 1932 Style Housings Drill Rig Model	Connection	Part #
Navigator D24x26, D24x40, D33x44	Quick-Disconnect starter rod x 2-3/8" API-R pin	1632-L43M
JetTrac JT2720	EZ Connect 2 starter rod x 2-3/8" API-R pin	1932-L54F
JetTrac JT2720 Mach 1	EZ Connect 2 starter rod x 2-3/8" API-R pin	1932-L56F
JetTrac JT2720 Mach 1	Direct to drill rod thread x 2-3/8" API-R pin	1932-36M
JetTrac JT3020 Mach 1	EZ Connect 3 starter rod x 2-3/8" API-R pin	1932-L59F
JetTrac JT4020, JT4020 Mach 1	EZ Connect 2 starter rod x 2-3/8" API-R pin	1932-L57F
JetTrac JT4020	Direct to drill rod thread x 2-3/8" API-R pin	1932-42M
Astec DD3238	Direct to drill rod thread x 2-3/8" API-R pin	1632-38F
1742 Style Housing Drill Rig Model	Connection	Part #
JetTrac JT7020, JT8020 Mach 1	Direct to drill rod thread x 2-7/8" IF pin	1742-72M
Navigator D50x100	Direct to 2-7/8" FS drill rod x 2-7/8" IF pin	1742-50F
Navigator D80x100	Direct to 3-1/2" FS drill rod x 2-7/8" IF pin	1742-80F

Other threads are available. Call for pricing.

## REPLACEMENT BOLTS FOR YOUR BLADES AND MBDD HOUSINGS

Directional Depot offers a large variety of replacement bolts for your blades and housings. Call for complete selection.

### Replacement Bolts for Housings

For 1625, 1725, 1727 Housings	Part #
Lid bolt	1625-HSHS-05
Locking bolt	SHCS-3/8"x1/2"
For 1632, 1927, 1932 Housings	Part #
Lid bolt	1632-HSHS-06
Locking bolt	SHCS-3/8"x1/2"

### Replacement Bolts for Blades

Bolt Pattern	Part #
-09, 3-bolt Ditch Witch	SHCS10Mx30M
-14, 5-bolt Ditch Witch	SHCS12Mx25M
-15, 6-bolt Ditch Witch, 16mm	SHCS16Mx35M
-25, 6-bolt Ditch Witch, 20mm	SHCS20Mx40M
-13, 6-bolt Vermeer	SHCS1/2"x1"
-23, 6-bolt Vermeer	SHCS5/8"x1-1/4"

**1625-HSHS-05**



**1632-HSHS-06**



**SHCS1/2"x1"**



**SHCS20MMx40MM**



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