

## First-Round Winner

Innovations Challenge  
<http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm>

April 2014

Prepared by Customer Relations  
Missouri Department of Transportation

## Casing Advancer



### Description

Implementing the Casing Advancer involves drilling through bridge decks that are going to be replaced. This allows the drilling team to obtain geotechnical data in areas which had previously been inaccessible due to the locations in streams and lakes. The Casing Advancer has the ability to remove the drilling bit and perform SPT (standard penetration test) at different intervals of the bore hole. Upon encountering bedrock, the drill rods and drill bit are removed leaving the casing in place at which time the core barrel is inserted and samples are taken of the bedrock formation.

### Benefit

The Casing Advancer eliminates the cost of renting barges to mobilize drilling equipment or outsourcing to a private drill company. It reduces the time needed to provide geotechnical data for designing a new structure. It also improves safety by allowing drill crews to drill on bridge deck rather than on a barge. Last February the Casing Advancer was used on a project and the cost per boring was \$5,075. On a similar job in 2007, MoDOT paid a private drill company \$14,350 per boring.

### For More Information:

Contact Dale Glenn at [dale.glenn@modot.mo.gov](mailto:dale.glenn@modot.mo.gov) or (573) 526-4341.

Additional photos can be seen at the Innovations Challenge homepage: <http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm>



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**SALES INVOICE**

SI-752175

2/7/2013

1

<b>Customer</b>		<b>Contact</b>		<b>Ship To</b>			
MISSOURI D.O.T. DALE GLENN 1617 MISSOURI BLVD JEFFERSON CITY MO 65102 UNITED STATES				CUST. PICK UP EARTH CITY 4061 WEDGWAY COURT EARTH CITY MO 63045 UNITED STATES			
<b>Account</b>	<b>Terms</b>	<b>Due Date</b>	<b>Account Rep</b>	<b>Schedule Date</b>			
100349	CREDIT CARD	2/7/2013	TIM DUNLAP	1/13/2013			
<b>Sales Order</b>	<b>PO #</b>	<b>Reference</b>	<b>Ship VIA</b>	<b>Page</b>	<b>Printed</b>		
SO-752146			CUSTOMER PICKUP	1	2/7/2013 9:02:45AM		
<b>L Item</b>	<b>Description</b>	<b>Order</b>	<b>Ship</b>	<b>Price</b>	<b>UM</b>	<b>Discount</b>	<b>Amount</b>
1 2110006	ADVANCER, HW CASING ASSEMBLY	1	1	\$2,975.00	EA		\$2,975.00
2	**CONSISTING OF THE FOLLOWING ITEMS**						