



Application Form

Have you or your work group found a better, faster or cheaper way to get your work done? Why not let everyone share in the success? Fill out the form below. Your best practice may even qualify for an award and be used throughout the state. Most of all, thanks for helping make MoDOT the best it can be.

1) Describe your best practice. *(Attach additional documents if needed.)*

This chipper is now a multifunctional machine that allows for year round usage also resulting in a reduction in time spent on shoulder repairs and reduces material wasted. This innovative idea improves the overall safety of the shouldering operation. This machine and its current attachments are easily changed from a chip spreader to a shouldering machine in less than 30 minutes. The shouldering wing can also be adjusted to repair a shoulder from one to six feet. The shouldering attachments were available from existing equipment currently on hand, a shoulder conveyer box, Monroe jr. wing and misc. hydraulic parts. The shouldering machine has proven to be a cost effective and safe unit by already completing more than 110 miles of shoulder repair in less time with no accidents.

2) How does MoDOT benefit from this best practice?

Saves money

Saves time

Simplifies work

Improves safety

Describe how:

(Improves Safety) Employees no longer have to stand in harms way between the Grader and Dump Trucks. The Shouldering Machine Operator and assistant can see what is going on in front the machine, has total control to shut the operation down quickly and has good communication with other coworkers on the machine.

(Saves Money) By utilizing one machine for multifunctional use in our year round operations, also this machine accurately places material in both chip seals and shouldering operations which reduces the amount of excess material wasted.

(Saves Time) The shouldering modification has allowed a reduction in time spent on shoulder repairs: this one machine can be shared district wide and still meets district goals. Operator of the Shoulder machine latches to the hitch of the trucks keeping the two units together, which reduces the amount of material spilled on pavement which we previously had problems with in our past practices. Both Chip Seal and Shouldering Operations are now a continues moving operation. This shouldering machine easily allows for one single pass to repair shoulders with various amounts of material needs.

(Simplifies Work) Employees only need to back up to the Chipper/ Shoulder Machine so they can be latched on and pulled. Truck drivers can concentrate on spotter showing them when to raise and lower their beds to dump material or to avoid overhead power lines.

3) When was your best practice implemented?

4) How much does it cost?

Total labor hours:

Total material costs:

5) What level of approval has your best practice received? (*Check all that apply*)

Immediate supervisor

Area supervisor

I need an Idea Advocate

District/Division head

Central Office staff

6) Contact information: Name:

Telephone:

District / Division:

Please save and send your completed form and any attachments to: Solutions@modot.mo.gov.

Or sign and mail your completed form through department mail to: Solutions At Work
Organizational Results
PO Box 270
Jefferson City MO 65102

(Signature if mailed)

(Date)

Thanks for helping make MoDOT a world-class organization!

Employees involved in the creation of this solution.

Name	Title Description
Keith Hartwig	- Maintenance Superintendent II
Jeff Miller	- Equipment Technician Supervisor
Garrett Gillesipe	- Equipment Technician Supervisor
Jason Harvey	- Roving Senior Equipment Technician
Doug White	- Regional Maintenance Supervisor
Donald Standley	- Maintenance Crew Leader
Eugene Oser	- Senior Maintenance Worker

Materials List

Hydraulic Hoses, Fittings and Valves	- \$780.42
Metal	- \$ 305.02
Bearings	- \$ 42.26

Major Components used for the construction of the Shouldering Machine.

Asset Value	Item Description	Asset Number
\$1,822	Salvaged 8 ft Wing	Salvage
\$ 733	Shouldering Machine	Salvage
\$2,789	Chipper Machine	G9151

Total
Value \$5,344 of Shouldering Machine



















HEARTLAND FARM & LAWN

Parts Invoice



JOHN DEERE

880 Hwy. Blvd.
Jigginsville, MO 64037
(660) 584-7434

91 N.W. 58 Hwy
Centerview, MO 64019
(660) 656-3600

25921 HWY 65 North
Carrollton, MO 64633
(660) 542-2485

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MO HWY AND TRANS DEPT
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MACON MO 63552 US

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SALESMAN	ORDER NO.	RO. NO.	PHONE	INVOICE DATE	TIME	INVOICE NO.		OFFICE USE		
331		03004393		08JAN07	10:18	03	3003300			
QUANTITIES				PART NUMBER	DESCRIPTION	BIN	PRICES			OFFICE USE
ORDERED	SHIPPED	B/O	✓				LIST	NET	EXTENSION	
				***** * FINANCIAL PLAN NO: 00249 * * PURCHASE * * FARM PLAN # *****9948 * AUTHORIZATION # 245679 * * PROD CODE # 120 * DEALER BANK # 46000153 * * PARTS * * This purchase is subject to the terms of the Farm Plan * * Credit agreement.* I grant Farm Plan a purchase money * * security interest, except as limited in that agreement, in * * the goods described. * *****						
				MAKE: JD	MODEL:	SERNO:		HRS:		
	297			N X431-12-RL	BULK HOSE	WHSE	1.15	.53	157.41	PC
	7			N X10143-12-12	HOSE FITTI	PP07	9.41	9.41	65.87	PC
	1			N X11343-12-12	HOSE FITTI	PP07	27.61	18.11	18.11	PC
	2			N X13943-12-12	ELBOW FITT	PP16	28.22	23.14	46.28	PC
	2			N X10643-10-6	HOSE FITTI	PP12	10.54	10.54	21.08	PC
	2			N X10643-8-6	HOSE FITTI	PP12	6.05	4.96	9.92	PC
	204			N X431-6-RL	BULK HOSE	PP	.58	.27	55.08	PC
	2			N AT33033	FITTING	Z-4	20.67	20.67	41.34	PC
	2			N AT32332	ELBOW FITT	Z-2	11.13	11.13	22.26	PC

Terms net cash. All accounts not paid by 10th of month following purchase are subject to a finance charge at a monthly rate of 1.5%. Annual rate 18%.

SHIP VIA

DESCRIPTION	ACCOUNT	AMOUNT
PARTS		
SALES TAX		

I certify the items on this invoice are for agricultural use. If these items are not used exclusively for this purpose, I will be liable for the tax, interest & penalty.

SIGNED _____

PLEASE PAY THIS TOTAL ▶

CONTINUE

HEARTLAND FARM & LAWN

1880 Hwy. Blvd.
Higginsville, MO 64037
(660) 584-7434

91 N.W. 58 Hwy
Centerview, MO 64019
(660) 656-3600

25921 HWY 65 North
Carrollton, MO 64633
(660) 542-2485

Parts Invoice



JOHN DEERE

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SALESMAN	ORDER NO.	RO. NO.	PHONE	INVOICE DATE	TIME	INVOICE NO.
331		03004393		08JAN07	10:18	03 3003300

QUANTITIES				PART NUMBER	DESCRIPTION	BIN	PRICES			OFFICE USE
ORDERED	SHIPPED	B/O	✓				LIST	NET	EXTENSION	
					***** PARTS HOURS MON.-FRI. 7:30AM-5:00PM SAT.-7:30AM-12NOON. TWENTY DOLLAR AFTER HOURS PARTS CHARGE CALL TOLL FREE 1-800-214-3337. ***** INVOICE CONTAINS 269.22 DISCOUNT					

Terms net cash. All accounts not paid by 10th of month following purchase are subject to a finance charge at a monthly rate of 1.5%. Annual rate 18%.

SHIP VIA

DESCRIPTION	ACCOUNT	AMOUNT
PARTS TAXABLE		
PARTS NONTAXBLE		437.35
MISC TAXABLE		
MISC NONTAXABLE		
SALES TAX		

I certify the items on this invoice are for agricultural use. If these items are not used exclusively for this purpose, I will be liable for the tax, interest & penalty.

SIGNED _____ *Jeffrey W. Miller*

PLEASE PAY THIS TOTAL ► **437.35**

HEARTLAND FARM & LAWN

Parts Invoice



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1880 Hwy. Blvd.
Higginsville, MO 64037
(660) 584-7434

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25921 HWY 65 North
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(660) 542-2485

Douglas White

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SALESMAN	ORDER NO.	RO. NO.	PHONE	INVOICE DATE	TIME	INVOICE NO.
342		03004399		08JAN07	13:04	03 3003303

QUANTITIES				PART NUMBER	DESCRIPTION	BIN	PRICES			OFFICE USE
ORDERED	SHIPPED	B/O	✓				LIST	NET	EXTENSION	
	252			MAKE: X431-6-RL	MODEL: BULK HOSE	SERNO: PP	.58	.27	68.04	0
	1			N AT32332	ELBOW FITT	Z-2	11.13	11.13	11.13	PC
	1			N AT35599	ELBOW FITT	Z-4	12.99	12.99	12.99	PC
	2			N X10643-8-6	HOSE FITTI	PP12	6.05	4.96	9.92	PC
	2			N X13943-6-6	ELBOW FITT	PP12	13.71	11.24	22.48	PC
<p>*****</p> <p>PARTS HOURS MON.-FRI. 7:30AM-5:00PM SAT.-7:30AM-12NOON. TWENTY DOLLAR AFTER HOURS PARTS CHARGE CALL TOLL FREE 1-800-214-3337. *****</p> <p>INVOICE CONTAINS 85.24 DISCOUNT</p>										

Terms net cash. All accounts not paid by 10th of month following purchase are subject to a finance charge at a monthly rate of 1.5%. Annual rate 18%.

SHIP VIA	DESCRIPTION	ACCOUNT	AMOUNT
	PARTS TAXABLE		
	PARTS NONTAXABLE		124.56
	MISC TAXABLE		
	MISC NONTAXABLE		
	SALES TAX		
PLEASE PAY THIS TOTAL			124.56

I certify the items on this invoice are for agricultural use. If these items are not used exclusively for this purpose, I will be liable for the tax, interest & penalty.

SIGNED _____

HEARTLAND FARM & LAWN

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Doug White

SALESMAN	ORDER NO.	RO. NO.	PHONE	INVOICE DATE	TIME	INVOICE NO.
332		03004528		16JAN07	11:49	03 3003393

QUANTITIES				PART NUMBER	DESCRIPTION	BIN	PRICES			OFFICE USE
ORDERED	SHIPPED	B/O	✓				LIST	NET	EXTENSION	

* FINANCIAL PLAN NO: 00249 *										
* PURCHASE *										
* FARM PLAN # *****9948 AUTHORIZATION # 396774 *										
* PROD CODE # 120 DEALER BANK # 46000153*										
* PARTS *										
* This purchase is subject to the terms of the Farm Plan *										
* Credit agreement.* I grant Farm Plan a purchase money *										
* security interest, except as limited in that agreement, in*										
* the goods described. *										

				MAKE:	MODEL:	SERNO:			HRS:	0
1				N AP23053	ELBOW FITT	Z-1	8.75	8.75	8.75	PC
336				N X431-6-RL	BULK HOSE	PP	.58	.27	90.72	PC
2				N X10143-8-6	HOSE FITTI	PP02	5.95	4.88	9.76	PC
2				N X10643-6-6	HOSE FITTI	PP03	5.66	4.64	9.28	PC

PARTS HOURS MON.-FRI. 7:30AM-5:00PM										
SAT.-7:30AM-12NOON.										
TWENTY DOLLAR AFTER HOURS PARTS CHARGE										
CALL TOLL FREE 1-800-214-3337.										

INVOICE CONTAINS 108.34 DISCOUNT										

Terms net cash. All accounts not paid by 10th of month following purchase are subject to a finance charge at a monthly rate of 1.5%. Annual rate 18%.

SHIP VIA	DESCRIPTION	ACCOUNT	AMOUNT
	PARTS TAXABLE		
	PARTS NONTAXBLE		118.51
	MISC TAXABLE		
	MISC NONTAXABLE		
	SALES TAX		
PLEASE PAY THIS TOTAL ▶			118.51

I certify the items on this invoice are for agricultural use. If these items are not used exclusively for this purpose, I will be liable for the tax, interest & penalty.

SIGNED *Doug White*