



# TILLAGE

**AerWay®**

SETTING NEW STANDARDS FOR  
VERTICAL TILLAGE



*Advanced Aeration Systems*



**Jim Pallister – Pallister Farm Ltd.**  
Portage La Prairie, Manitoba  
Cash Crop – 13,500 acres – canola,  
edible beans, wheat and potatoes

**“ We believe in putting air into the soil, not soil into the air. Last Fall we purchased a new series 30 ft. (CCT) Close Coupled Tandem AerWay. Our prairie ground is wide open and we are very concerned about erosion and protecting our land.**

**The AerWay has helped us address these concerns. We can till the soil yet leave most of the stalks standing. The machine is easily adjusted to vary the degree of conservation tillage by simply moving the AerWay swing arms to mix in the crop residue. This helps to protect soils from erosion and allows the ground to warm sooner in the spring. We use the machine on our wheat, bean and canola ground. We are very pleased with our machine as it has met our expectations.**

**I would recommend the AerWay to farmers looking to reduce their tillage input costs while ”**

**WHERE YOU END UP DEPENDS  
ON HOW YOU START.**

# **Start Right with AerWay®**

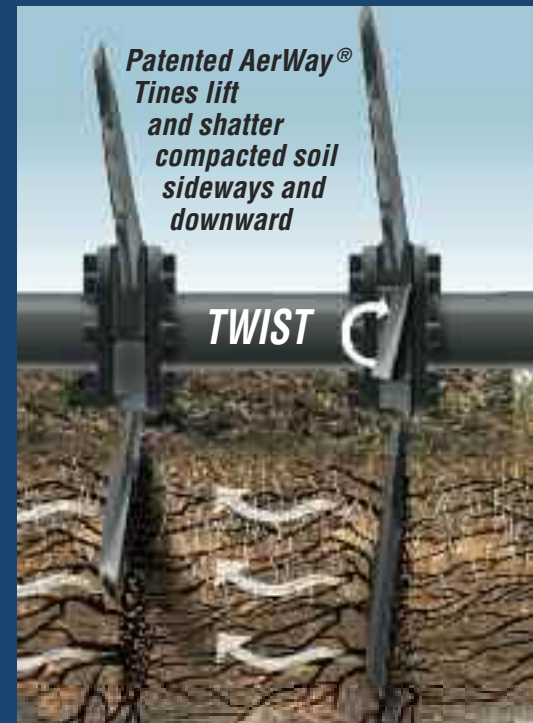
**AERATE AND TILL IN ONE PASS.**

The AerWay® family of patented “Vertical Tillage” tines are designed to relieve compaction, manage crop residue and to warm the loosened soil for seedbed preparation. The patented tine technology is available in both ShatterTine® and Leaf Tine® profiles.

AerWay “vertical tillage” is accomplished by the unique lean and twist of the tines designed to move soil laterally plus lift and fracture soils to 8 inches and deeper. New pathways are created for air and water movement, while maintaining the valuable protective surface residue.

With better soil conditions the plants respond with stronger roots and better yields. Farmers have also noticed greater moisture retention, less runoff, less erosion and more efficient use of their time, fuel and fertilizer.

For over 25 years, AerWay Single Roller Implements have lead the way in Vertical Tillage...and today it is still the standard that others try to copy. Talk to us about the Single Roller and Double Roller CCT AerWay models to determine which machine best suits your tillage needs.



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# AerWay® GOES TO THE HEART OF THE PROBLEM BY RELIEVING COMPACTION.

## SOIL BASICS

Three systems, physical, biological and chemical, work together to make soil productive. Soil scientists agree that the physical condition of soil is the key to efficient biological and chemical activity, which in turn determines how much plant life the soil can support.

## SOIL TILTH: WHY COMPACTION IS THE FARMER'S #1 ENEMY

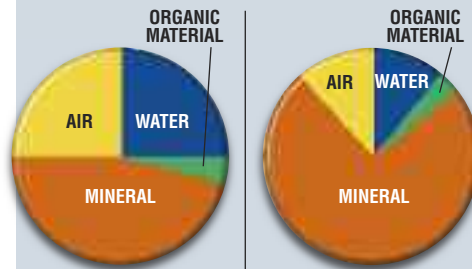
Soil tilth is a measurement of the balance between basic soil elements: air, mineral, water, and organic matter. The proper balance of these elements increase soil production by allowing efficient interaction of all the soil systems. Air and water balance in the soil is the key to good root growth.

Compaction stresses plants because air and water are "squeezed" from the soil. Biological and chemical activities which depend on air and water become severely restricted. Root growth is impaired, crop production suffers.

## AIR AND WATER MOVE TOGETHER

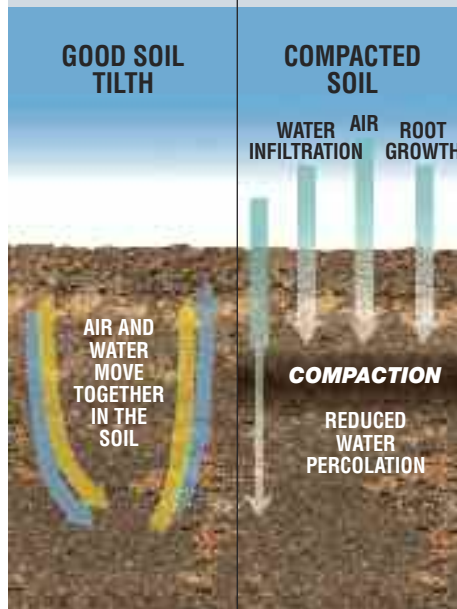
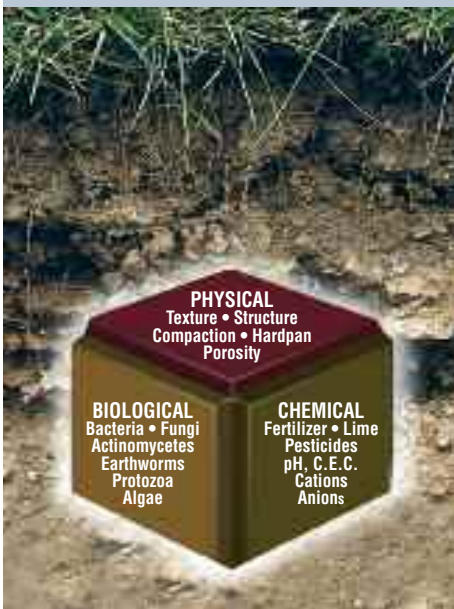
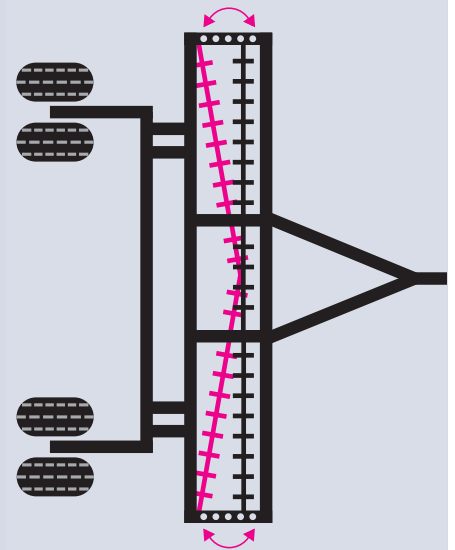
Correcting compaction makes a dramatic improvement in soil tilth. It is the most basic step you can take to improve crop production. That's because air and water move together in the soil profile. With proper air / water balance in the soil, all the biological and chemical systems work at peak efficiency.

Compaction makes both wet and dry soil conditions more severe. It reduces the water holding capacity of soil which makes drought conditions worse, and inhibits drainage to make wet conditions more troublesome.



## AerWay®'s QUICK ADJUST ADVANTAGE

The patented AerWay® Quick Adjust rollers allow you to control the degree of residue incorporation. For example, many farmers will run their AerWay® at 2 1/2 to 5° of swing angle for soybeans and increase it to 7 1/2 to 10° for corn residue.



**FROM A 10' STRAIGHT FRAME  
SINGLE ROLLER TO A 30' CCT  
FOLDING TANDEM ROLLER**

**INNOVATIVE  
UNIQUE  
RUGGED  
DEPENDABLE  
VALUE  
PERFORMANCE  
QUALITY  
VERSATILE**



# IT ALL COMES DOWN TO THE BOTTOM LINE.

Rising input costs along with uncertain commodity prices are placing greater demands on today's farmers. AerWay® owners have told us that they get Versatility, Value, Reliability and Superior Yields from their AerWay System. AerWay not only meets these requirements – it exceeds them!

**VERSATILE** – The AerWay's Quick Adjust feature allows you to easily vary the roller swing angle to meet your tillage and cropping demands. You can “fine tune” your vertical tillage choices ranging from 0° for minimum disruption to a maximum of 10° for more aggressive soil movement, residue mixing and additional warming.

**VALUE** – The AerWay can be used full season and is readily adaptable to no-till, minimum till and conventional till practices, helping you meet and exceed your conservation goals.

## **AN ALL-SEASON IMPLEMENT** –

Ideal in the springtime for warming and drying soils. Some farmers enjoy a 6° F temperature increase in their “AerWayed” soil during spring planting. Better root zone development, more consistent stands and less wear and tear on their planting equipment was also evident. Post harvest use allows your soils to breathe and promotes better residue breakdown giving earlier and better planting conditions in the spring.

**DEPENDABLE** – All the components for the frame, rollers, tines and bearings were chosen for strength and durability to withstand the demands of day to day farming.

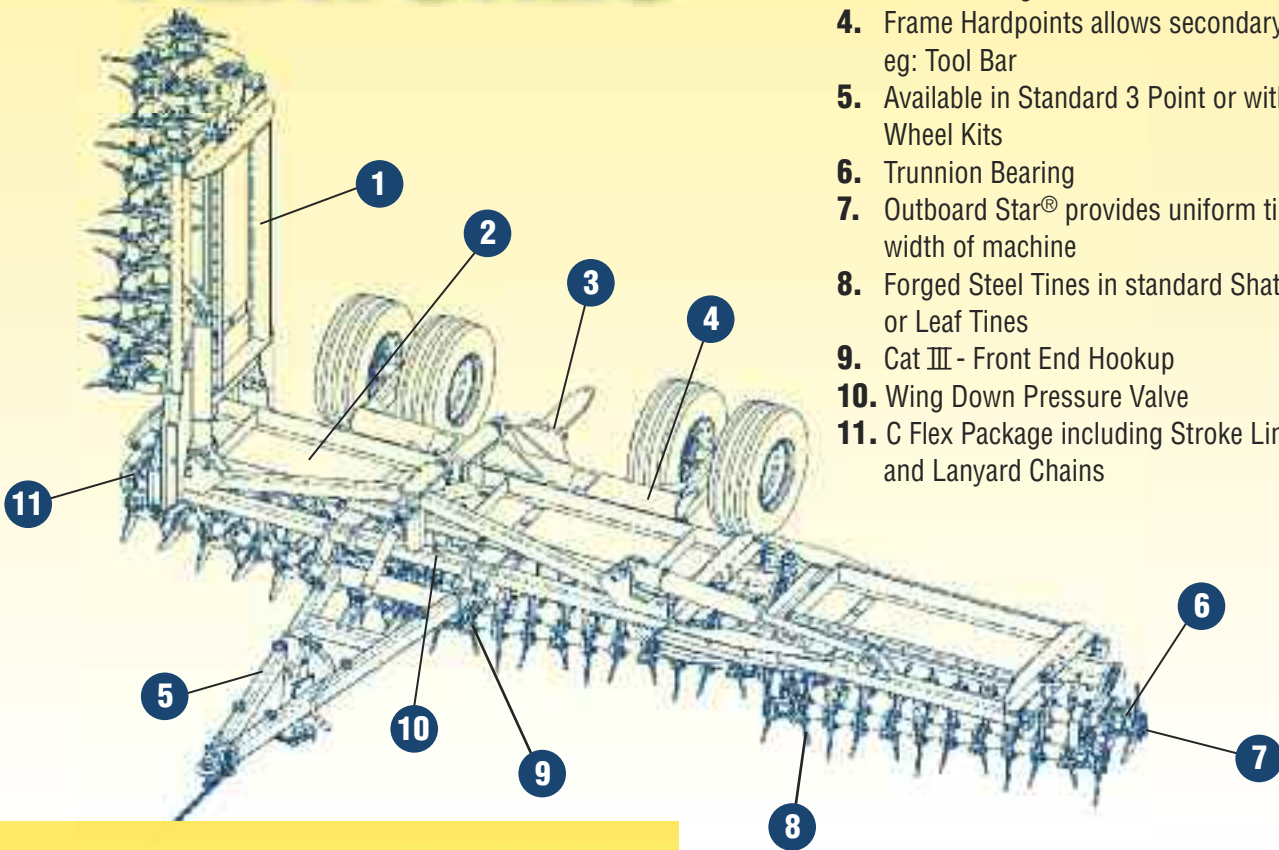
**OUTSTANDING YIELDS** – AerWay users are getting top yields with lower input costs and that's when **“IT ALL COMES DOWN TO THE BOTTOM LINE”**.

**AerWay®**



# FEATURES

1. Straight Frame Units available in 10' to 20' widths  
Folding Frame Units available in 20' to 30' widths
2. Integrated Weight Trays
3. Self Levelling Rear Hitch
4. Frame Hardpoints allows secondary attachments eg: Tool Bar
5. Available in Standard 3 Point or with Pull Type Wheel Kits
6. Trunnion Bearing
7. Outboard Star® provides uniform tillage across width of machine
8. Forged Steel Tines in standard Shattertines® or Leaf Tines
9. Cat III - Front End Hookup
10. Wing Down Pressure Valve
11. C Flex Package including Stroke Limiters, and Lanyard Chains



## FRAME CONFIGURATION

Both the Standard and CCT machine are available in sizes ranging from 10 ft. through to 30 ft. nominal widths. The Standard models consist of a single roller system with four tines per row with standard 7-1/2" tine spacing. The patented CCT (Close Coupled Tandem) uses two overlapping tined rollers with three tines per row giving you more pockets and fractures per acre. The unique rollers work together as the lead roller fractures and loosens the soil and the second roller incorporates and mixes the residue for better residue breakdown and field finish. AerWay's new Close Coupled Tandem (CCT) can benefit those looking for increased tillage and meets the needs for reducing tillage passes to save on fuel and manpower.





### **WING DOWN PRESSURE VALVE**

The Wing Down Pressure Valve is now standard on all Folding Wing Models. Although the down force valve is pre-set at the factory it can easily be adjusted in the field to suit varying ground conditions. This allows the operator to transfer weight from the center frame to the wings. The need for additional weight will vary with ground conditions.



### **OUTBOARD STAR® DESIGN**

The Outboard Star is used to give uniform tillage spacing across the width of the machine. The star consists of a heavy duty machined hub and a flange ring system for fastening the tines.



### **HEAVY DUTY BEARING**

Trunnion mount, large capacity 50mm (2") bearings are now used on all AWST and AWFT AerWay machines. The self aligning bearings provide greater radial and axial load capacities. The bearings employ a robust seal system and are greaseable.



### **C-FLEX – LOAD DAMPENING SYSTEM**

C-Flex springs are standard on all AWST and AWFT AerWay machines. This feature is designed to help protect the tined rollers from impact and shock loads encountered in stony ground conditions. Other protective features include a Travel Protection Bumper and Lanyard Chain.

# **AerWay System Options**

### **REAR TOOL BAR**

The AWST and AWFT frames are designed to accept an optional rear tool bar. This allows the user to attach the AerWay to some of his own finishing tools i.e. harrows and rolling baskets to ensure that the land is ready for a smooth and successful planting.

### **ROLLING BASKET WITH INTEGRATED COIL TINE HARROW COMBO**

The Rolling Baskets come in a variety of widths for both rigid and folding models. The standard configuration consists of three (3) rows of Coil Tine Harrows and one (1) single row 14 inch heavy duty basket.

### **PULL TYPE WHEEL KITS**

Pull Type Wheel Kits are designed to convert the machinery into a "Trail" unit with tires rearward. This eliminates the stress on your 3 point lift arms by transferring the weight to the drawbar. A level lift hitch drawbar is standard and integrated with the kit to enable the user to pull other implements or finishing tools. The tongue comes with a heavy duty top link and superior double drop parking jack, making tractor hookup easy. The kits are available in a variety of wheel types and load capacities.

### **SCRAPER SYSTEM FOR ROLLERS**

Scrapers are now being offered for units working in challenging or high residue conditions. Ask your Dealer if this option is recommended to your application.

### **BALLAST BLOCKS**

For hard compacted ground conditions ballast blocks are available in 550 and 750 lb weights. All Wing Machines come equipped with weight hold down straps. See your Dealer for ballast recommendations.

### **LIGHTING KIT**

Includes two lights and two universal mounting brackets and harnesses. Users are solely responsible for identifying and satisfying the requirements of the local Highway Traffic Act.



**Casey Kunes – Hemdale Farms**  
 Seneca Castle, New York  
 Over 3000 Acres - Diversified Farming  
 Operation - Dairy and Field Crops

**“** *The AerWay machines have helped us tremendously with our overall soil and manure management program. Several years ago we bought a 15' AerWay which we pulled behind our deep ripper to work all of our corn, snap bean and cabbage ground. We liked the job it did so well, that last year we added a new AWF-25' Next Generation AerWay to our equipment line. Being good stewards of the land is very important to us. Use of the AerWay has reduced compaction and given us savings by using less fuel and fertilizer. We would recommend the AerWay* **”**  
 to other farmers.

# AWST/AWFT FRAME CONFIGURATIONS

## AWST AerWay DATA – STRAIGHT FRAME

**C-FLEX AerWay®** – available in 7.50" effective tine spacing

MODEL NUMBER	CULTIVATION WIDTH	TRAVEL WIDTH	# OF TINES	WEIGHT	HORSEPOWER REQUIRED
AWST100	10'	9' 8"	64	2225 lbs	60-100
AWST125	12.5'	12' 2"	80	2515 lbs	75-125
AWST150	15'	14' 8"	96	2800 lbs	90-150
AWST200	20'	19' 8"	128	4200 lbs	120-200

**CCT AerWay®** – available in 3.75" or 5.00" effective tine spacing

MODEL NUMBER	CULTIVATION WIDTH	TRAVEL WIDTH	# OF TINES	WEIGHT	HORSEPOWER REQUIRED
			3.75" 5.00"		
AWST100-CCT	10'	10'	96 72	3150 lbs	90-150
AWST125-CCT**	12.5'	12.5'	120 N/A	3725 lbs	115-190
AWST150-CCT	15'	15'	144 108	4300 lbs	135-225
AWST200-CCT	20'	20'	192 144	6000 lbs	180-300

**\*\* NOT AVAILABLE IN 5.00" TINE SPACING**

## AWFT AerWay DATA – FOLDING FRAME

**C-FLEX SINGLE ROW AerWay®** – available in 7.50" effective tine spacing

MODEL NUMBER	CULTIVATION WIDTH	TRAVEL WIDTH	# OF TINES	WEIGHT	HORSEPOWER REQUIRED
AWFT200	20'	10' 9"	128	5475 lbs	120-200
AWFT25N	25'	10' 9"	160	6300 lbs	150-250
AWFT25W	25'	15' 9"	160	6300 lbs	150-250
AWFT300	30'	15' 9"	192	7125 lbs	180-300

**CCT AerWay®** – available in 3.75" or 5.00" effective tine spacing

MODEL NUMBER	CULTIVATION WIDTH	TRAVEL WIDTH	# OF TINES	WEIGHT	HORSEPOWER REQUIRED
			3.75" 5.00"		
AWFT200-CCT	20'	10' 9"	192 144	6950 lbs	180-300
AWFT25N-CCT	25'	10' 9"	240 180	8100 lbs	225-375
AWFT25W-CCT	25'	15' 9"	240 180	8100 lbs	225-375
AWFT300-CCT	30'	15' 9"	288 216	9225 lbs	270-450



Advanced Aeration Systems

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