

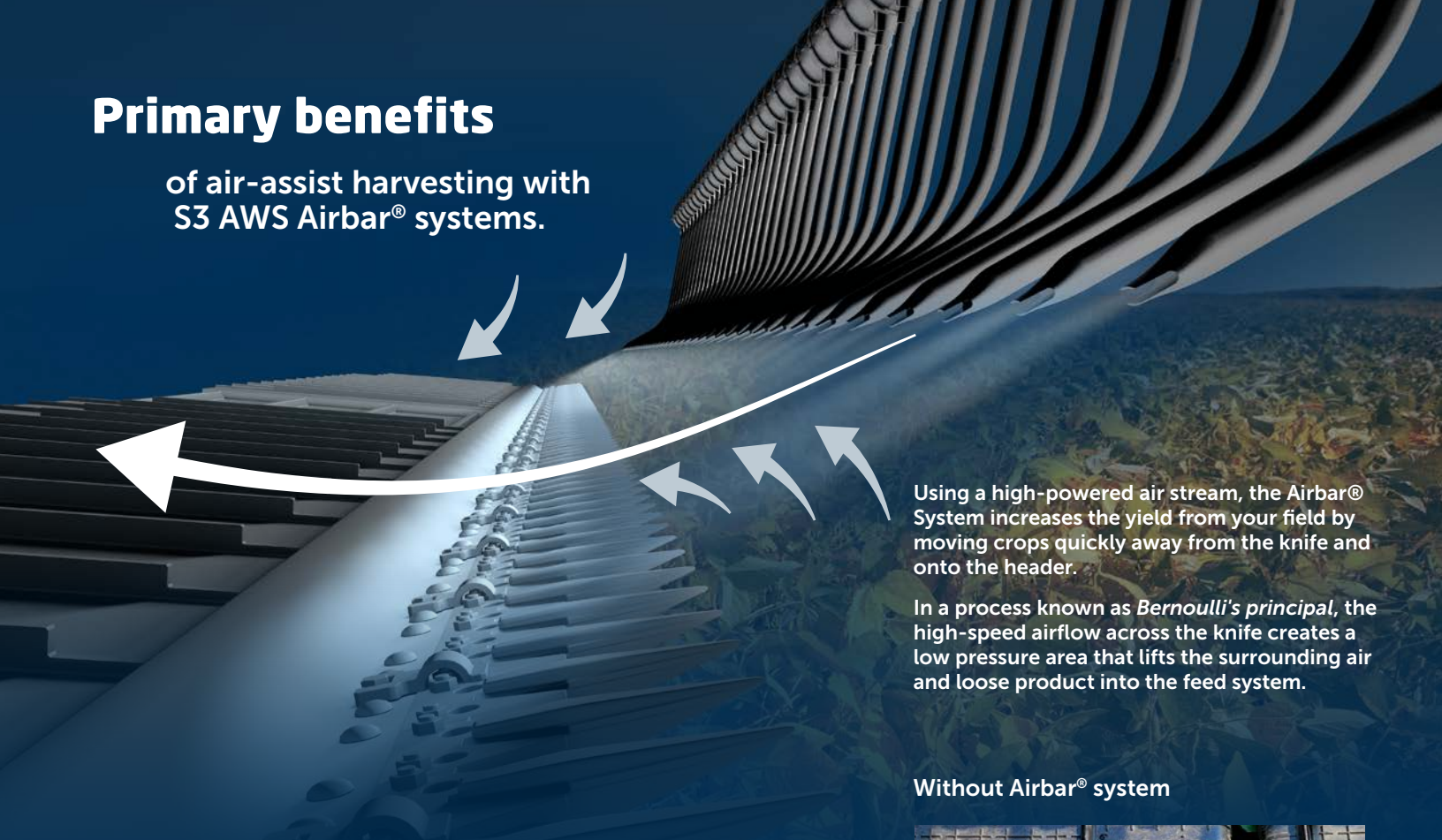


more **yield**  
from your **field**

with air-assist harvesting

# Primary benefits

of air-assist harvesting with S3 AWS Airbar® systems.



Using a high-powered air stream, the Airbar® System increases the yield from your field by moving crops quickly away from the knife and onto the header.

In a process known as *Bernoulli's principal*, the high-speed airflow across the knife creates a low pressure area that lifts the surrounding air and loose product into the feed system.

When added to a combine header, the S3 AWS Airbar® reduces or eliminates shatter-loss and allows for significantly increased ground speed.

The high-velocity air stream that is applied to the knife through the out-front manifold, carries loose materials across the cutting head and into the feeder-house, increasing yields by as much as 4 bushels per acre on average.

Knives are kept free of debris, increasing cutting efficiency and eliminating unnecessary wear, breakage and downtime.

**Improved feeding:** The high-speed airflow keeps the cutting head clear and operating at maximum efficiency, reducing equipment wear.

**Reduced shatter loss:** Air pressure carries loose product into the feeder-house preventing crop loss and increasing yields by as much as 4 bushels per acre.

**Faster ground speed:** Improved crop flow across the header allows for substantial increases in ground speed.

**Increased operating efficiency:** The S3 AWS Airbar® creates a more even flow of material through the feeder-house by eliminating waste-material build up, increasing cutting and feeding efficiency. This reduces knife and internal component wear and operating time.

Without Airbar® system



With Airbar® system



# Features



The Airbar® System manifold is front-mounted and functions in tandem with the existing reel.

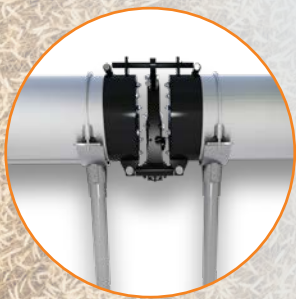
Model-specific arm brackets allow manifold to move with factory reel adjustment.

Nozzles tailored to each header model provide even air-flow distribution.

View from cab is unobstructed with the air manifold mounted directly in front of the reel.

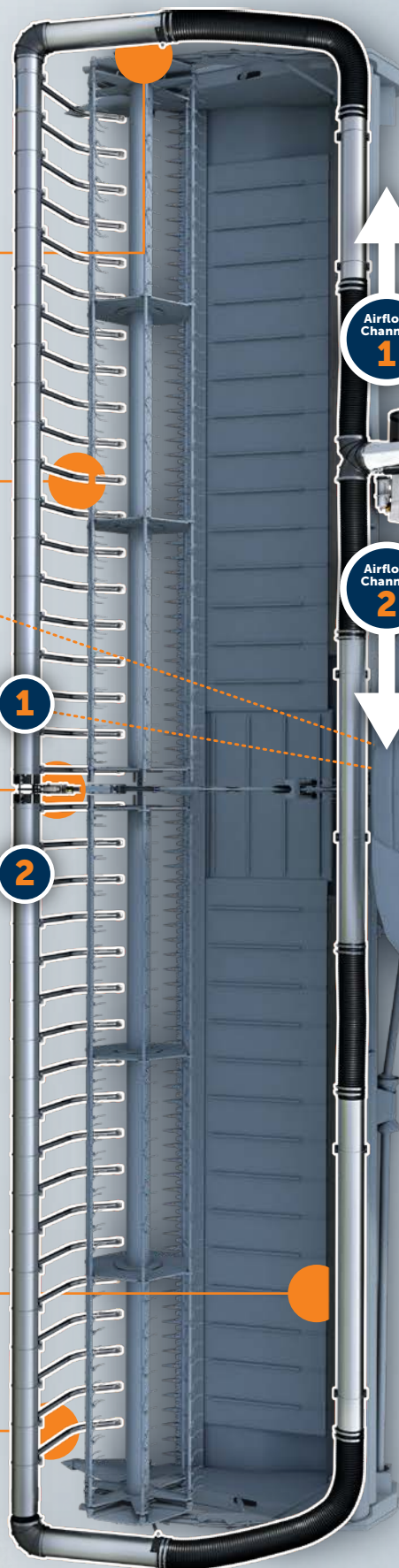
Adjust nozzle position on the fly, using in-cab controls.

Both airflow channels are terminated here, to provide maximum, clean airflow to the end of each channel.



Draper Brush, Sump Saver & Stainless Steel Floor Kits are available for a variety of headers.

2-piece nozzle construction with durable, lightweight die-cast mounting saddle.



Reduced trash intake with vertically mounted fan behind the header.

Driven by a quiet and efficient fan with a reliable and easily serviceable belt drive assembly.

Regulate air-throttle volume and nozzle position on the fly, using in-cab controls.

more **yield**  
from your **field**



**AIRBAR<sup>®</sup> FD**  
FLOW DYNAMICS

**AIRBAR<sup>®</sup> FDX**  
FLOW DYNAMICS

## FLOW DYNAMICS

The S3 AWS Airbar Flow Dynamics<sup>®</sup> (FD) system (FD and FDX models) introduces an entirely new level of airflow-system engineering. Airbar FD<sup>®</sup> models feature a closed-circuit, twin-channel airflow system that pressurizes the twin air manifolds independently from both ends.

With each airflow channel terminated at the front-centre of the manifolds, high-pressure airflow is delivered smoothly and evenly to the end of each channel, with no opposite-airflow turbulence from the channels meeting.

With pressure-hungry header widths of over 45' in mind, the patent pending Flow Dynamics<sup>®</sup> system delivers up to a 25% increase in evenly-distributed nozzle pressure.

For the ultimate in air-assist harvesting performance, the Airbar FDX<sup>®</sup> model includes the high-output X-model fan & chassis system, adding up to an additional 25% airflow.

**Available for both draper and auger headers.  
All makes and models.**

**The Airbar<sup>®</sup> model employs a single-channel, wraparound, closed-circuit air system. With the fan and chassis centrally located on the combine header and powered by the feeder house reverser gear, the airflow travels around the back and across the front of the header from a single airflow channel.**

### Features, all models:

- 42" or 48" nozzles are contoured and optimized for each header model.
- Does not interfere with the factory reel.
- Drive system optimized for in-field serviceability with industry standard components.
- Drive ratio matched to combine model to ensure optimum airflow.
- In-cab control of air throttle & nozzle position.
- 2-piece nozzle construction with durable, lightweight die-cast mounting saddle.
- Durable, 1, 2 or 3-piece aluminum manifold.
- Manifold is designed for each combine make and model.

**AIRBAR<sup>®</sup>**



# Fan & chassis

**S3 AWS AIRBAR<sup>®</sup> FDX**  
FLOW DYNAMICS  
model shown

Screen rotation.

Self-clean airflow.

The fans on all Airbar<sup>®</sup> systems are powered by an easily accessible and high-efficiency belt-and-pulley drive system. The drive system was engineered to provide an efficient transfer of power with no heat strain.

Fabricated from durable light-weight materials, the fan is easily mounted and serviced. The simple system design means low operational costs. All Airbar<sup>®</sup> fan and drive systems feature the Service Master Chassis with pillow-block bearings and a drop-in frame design for serviceability in all scenarios for maximum uptime.

## Rotary-Screen Nozzle

The Rotary-Screen Nozzle supplies a stream of high velocity air to the rotary intake screen, removing dust and debris. This allows for improved airflow, cleaner sampling and reduced equipment wear and maintenance. This feature is standard on complete Airbar<sup>®</sup> systems.

**Xmodel**  
Fan & chassis

The Airbar<sup>®</sup> FDX model features the largest and most advanced fan and drive assembly. The X-model airflow provides up to an additional 50% of air pressure for the ultimate performance in air-assist harvesting.

# Accessories

## Draper Brush Kit

The S3 AWS Airbar® Draper Brush Kit helps maintain consistent canvas tension during harvest. Debris is prevented from entering the rear of the canvas and building up on the drive rollers.

A stainless steel deflector and fine-bristle brush provide the seal, reducing crop loss and header maintenance. Available for all popular draper models.

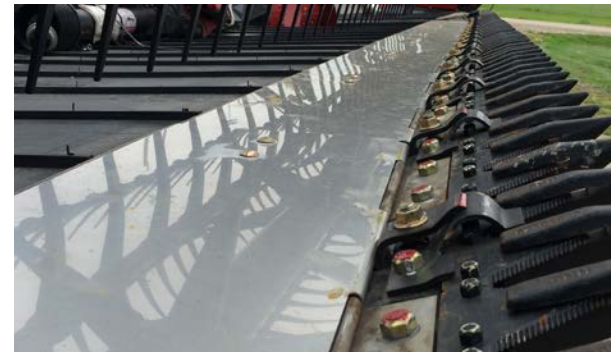
- Model-specific configurations
- Durable stainless-steel construction
- Fine-bristle polymer brush provides a tight seal.



## Floor Kits

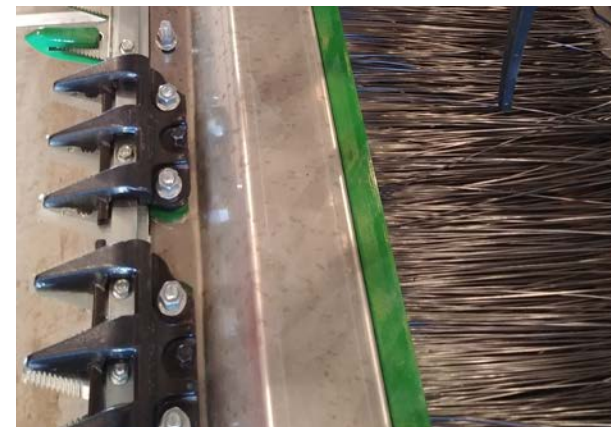
The S3 AWS Airbar® Floor Kit replaces the factory stone-dam floor with a low-profile, stainless-steel panel for improved feeding. The improved profile of these Floor Kits further enhance the performance of our proven Airbar systems.

Floor Kits are available for select models of John Deere, Case IH and New Holland.



## Sump Saver

S3 AWS Airbar® Sump Savers are available for MacDon® and John Deere® flex draper heads. A stiff brush fastened to the front of the stone-summ (directly behind the knife), provides a smooth transition of crop-flow onto the in-feed belt while allowing stones to drop down through the bristles and into the sump.



# Accessories

...keep harvest on the move

## Uptime Kit

The service life and reliability of the Airbar® system is unparalleled. For those moments of necessary maintenance or repair however, the Uptime Kit is always a great idea. Reduce downtime by always having common maintenance items on-hand.

Airbar® Uptime Kits are available for all models of Airbar Systems.

### Kit includes:

- Primary drive belt
- Secondary shaft
- 1 3/8" pillow block bearings (4 sets)
- Nozzles & gaskets (2 sets)
- Nozzle U-bolts (2)



## Service & Support

With strong roots in both agriculture and the equipment industry, S3 AWS Airbar® understands the importance in offering the highest level of product support and customer service to its customers and dealer network.

Should issues arise mid-harvest, you can trust our dedicated support team will be available for diagnostics and service for our entire line of products.

Contact a member of  
our support team today:

**1-877-348-0066**

or email an inquiry to:  
**info@awsairbar.com**



More yield from your field



**S3 AWS Airbar**

3890 Wellington St  
Mitchell ON N0K 1N0  
Canada

Toll Free: 877-348-0066  
Phone: 519-348-0066  
Fax: 519-348-0061



**S3 Manufacturing**

**South Building**  
2180 Oman Drive  
P.O. Box 1780  
Swift Current SK S9H 4J8  
Canada

Toll Free: 844-441-3030  
Phone: 306-773-0646  
Fax: 306-773-9318



**S3 Wireform**

**North Building**  
2180 Oman Drive  
P.O. Box 1207  
Swift Current SK S9H 3X4  
Canada

Toll Free: 844-441-1010  
Phone: 306-773-0644  
Fax: 306-773-1188



**S3 Delta Harrows**

800 South Fremont St  
Shenandoah IA 51601  
USA

Toll Free: 877-874-3020  
Phone: 712-246-3020  
Fax: 712-246-3022



**S3 Air Systems**

605 & 732 North Railway St E  
P.O. Box 1212  
Swift Current SK S9H 3X4  
Canada

Toll Free: 844-441-2020  
Phone: 306-773-0646  
Fax: 306-773-9318



**S3 Brandworx**

**North Building**  
2180 Oman Drive  
P.O. Box 1780  
Swift Current SK S9H 4J8  
Canada

Phone: 306-773-0647



Industrial product development solutions.

**S3groupltd.com**

**North Building**  
2180 Oman Drive  
P.O. Box 39  
Swift Current SK S9H 3V5  
Canada

Phone: 306-773-0644  
Fax: 306-773-1188