



TEAM[®] ESF

Electronic Sow Feeding

Feed the right amount to the right sow at the right time.

osbornelivestockequipment.com

Individual animal management without individual animal confinement.

Electronic sow feeding (ESF) provides individual animal feeding management without individual confinement, assisting in the total reproductive management of gestating, farrowing, and unbred sows and gilts housed in group pens.

As consumers continue to demand a more humane way of animal management, ESF has risen as the best alternative to conventional crated systems. Today, the investment in ESF equipment is less expensive when compared to these traditional crated systems, and proper facility design requires less area per animal.

ESF is the answer when group housing is needed and individual animal care is desired!



Get the ESF advantage.



IMPROVE SOW CONDITION

Feed sows what they need individually without individual confinement or competition.



MAXIMIZE SOW EFFICIENCY

Manage sows to peak body condition, resulting in increased litter size and milk production.



ELIMINATE FEEDING AGGRESSION

ESF eliminates aggression and anxiety resulting in calm animals and quieter barns.



REDUCE WASTE & LABOR

Automatically feed sows the right amount, eliminating waste from under or over feeding.

Electronic Sow Feeding: The Basics of How It Works

Successful electronic group management requires the adoption of a complete and proven system. The system includes the equipment, the facilities (whether new or existing), layout design, training and sow management methods. When properly managed, research indicates KPIs (key performance indicators) are equal to or better than traditional gestation stall systems.



RFID technology is at the heart of ESF Systems. Each animal is uniquely identified with an RFID tag.

Each sow or gilt is tagged with an RFID (radio frequency identification) tag. The system uses automated information-based equipment, called workstations, to perform specific actions based on an animal's unique identification. Both the fulfillment of these tasks and the associated biometrics are collected at the workstations.

With a TEAM (Total Electronic Animal Management) electronic feeding workstation, sows and gilts are fed a user-defined amount of feed

inside the individual feeding station, allowing animals to enjoy their meal in a private and protected setting. Other tasks completed by TEAM workstations can include marking animals

with dye for visual identification or sorting animals away from the main herd for special tasks.

Actions are completed at each TEAM workstation based on user-defined tasks through a connected personal computer equipped with the TEAM management software application. Commands are transferred from the PC to a small computer on each workstation which is responsible for identifying each animal and executing the commands. Additionally, information collected at each workstation is also transferred back to the PC and software, extending the ability of farm management personnel to understand the immediate status of, or know the location of every individual animal in the group.

Each animal is automatically identified by an electronic RFID ear tag whenever it enters a TEAM workstation. The ear tag allows the TEAM workstation to assign all actions to a record for each animal.



Workstations complete user-defined actions for individual animals after animals are uniquely identified via RFID.

TEAM® Electronic Sow Feeding



Fully automated management of sow feeding.

The primary component of the TEAM ESF System is the feeding workstation. This workstation is responsible for providing a private setting for each animal to feed based on their schedule. A user-specified amount of feed is dispensed to each animal based on their individual body condition, stage of gestation, and more.

The G-Station (Gestation Station) and ACCU-TEAM (Gestation Station with integrated weigh scale) feeding workstations are built to withstand the abuse of large sows and corrosive barn environment. The great features of these workstations include:



RUGGED CONSTRUCTION

TEAM ESF workstations are built with 900+ lbs. of hot-dipped galvanized steel to withstand the harsh barn environments and abuse from sows for many years.



STATIONARY TROUGH

Unlike others, TEAM ESF workstations feature a stationary, non-swivel trough so feed is always easily accessible. Fewer moving parts means less maintenance.



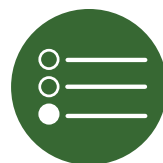
ROBUST, AIR-DRIVEN COMPONENTS

Corrosion-resistant, oversized, industrial air cylinders operate entrance gates on all TEAM workstations and are designed for minimal maintenance and longevity.



COMPREHENSIVE RECORDS

With TEAM, comprehensive records for each sow are maintained in a database, so all the management information you need is readily accessible whenever it's needed.



OPTIONS TO CUSTOMIZE

Select options like spray markers, dual feed hopper kits, divert gates, and even integrated animal scales for TEAM stations to manage sows and gilts to your requirements.



TEAM® Electronic Sow Feeding System & Accessories

- **PROVEN, RELIABLE SYSTEM** • ESF with TEAM is a proven and reliable system and has been used all around the world for 30+ years.
- **CUSTOMIZABLE WORKSTATIONS** • Accessorize TEAM workstations with spray markers, second feed hopper kits, and more to match your requirements.
- **OPTIONS IN LAYOUTS** • TEAM feeding stations can be successfully used in pens with static groups or large pens with dynamic groups. ESF layouts require less penning and provide more room for animals as compared to traditional stall systems.
- **STRONG CONSTRUCTION** • 900+ lbs. of hot-dipped galvanized steel makes up a majority of TEAM workstations, easily withstanding the harsh barn environment and abuse from large sows.



FG-TG2000

ELECTRONIC FEEDING WORKSTATIONS

Catalog Number	Description Metal Parts	Animal Capacity (Head)	Feed Capacity (lbs kg)	Overall Dimensions		
				Length (in cm)	Width (in cm)	Height (in cm)
FG-TG2000	G-Station™ Galvanized Steel	60-70	150 68	116 295	63 160	77 196
FG-TG3000	ACCU-TEAM™ Galvanized Steel	60-70	150 68	116 295	63 160	77 196

* Feed capacity based on 42 lbs. per ft³.

“ We are happy with our Osborne TEAM group sow management system. The precise control of feeding eliminates feed waste. Our sows are in better condition. The TEAM software feed curves allow us to feed the right amount at the right time resulting in bigger, heavier pigs. Our production is every bit as good as our conventional units.

— Duane R. - Garnavillo, Iowa ”

TEAM® Electronic Sow Feeding



ELECTRONIC DIVERTING WORKSTATIONS

Catalog Number	Description	Application
FG-TD2000	D-Station™ 60° Exit	Diverts animals away from main herd for special tasks.
FG-TD2100	D-Station™ Parallel Exit	Diverts animals away from main herd for special tasks.

OPTIONAL WORKSTATION ACCESSORIES

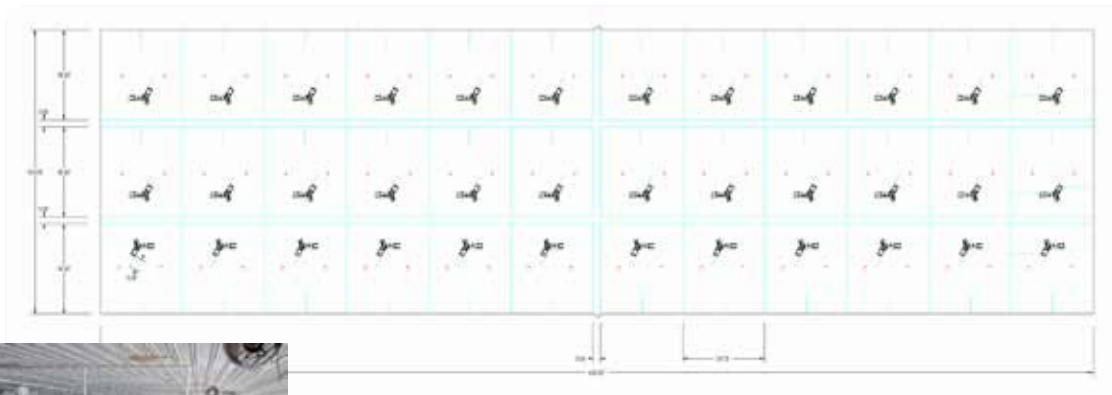
Catalog Number	Description	Application
FEEDING WORKSTATIONS		
KG-G27400	Divert Gate Kit	Secondary exit from a workstation that sorts animals into a divert passageway or holding pen as they exit.
KG-TS2000	Switch-LOK™ Kit for Split-Pen Feeding	Used when a workstation is used for two pens of animals without mixing groups.
FG-TG2026	Second Feed Hopper Kit	Allows individual dispensing of a single feed, blend of two feeds, or blend of feed and supplement to animals.
KP-AW100	Spray Marker Kit	Marks animals with spray marker dye for visual identification as they visit the workstation.
DIVERTING WORKSTATIONS		
FS-SS0570	Safety By-Pass Gate	Provides animals with open access to all pens in case of workstation power or air failure.
FG-TG2025	Workstation Anti-Lying Bar	Prevents animals from lying in entrance or exit passageway of workstation.
KP-AW100	Spray Marker Kit	Marks animals with spray marker dye for visual identification as they visit the workstation.



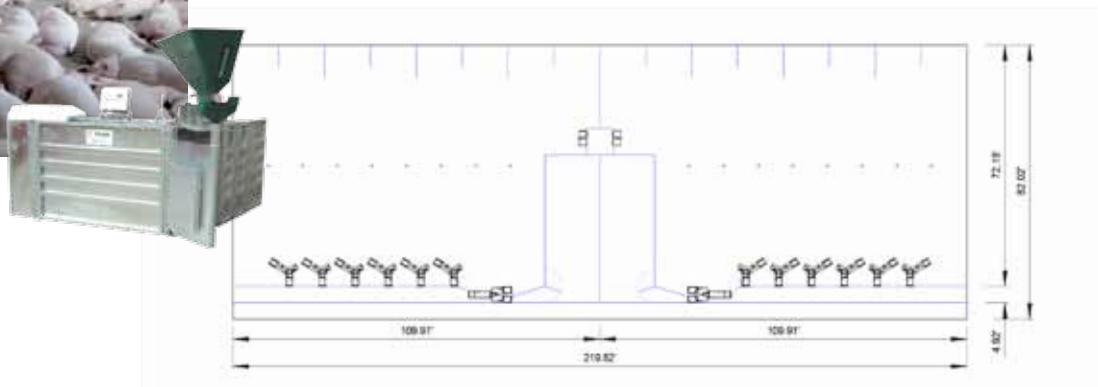
TEAM® Design Considerations

The versatility of many equally acceptable barn layout configurations may be one of the most important benefits of managing sows with TEAM. Such versatility permits the low-cost conversion of existing gestation or finishing barns to ESF, rather than investing in expensive conventional stall barns. TEAM works well on fully slatted or partially slatted floors, and feeding stations can be placed in many different locations throughout the pen. By taking into account space allocation, pen shape, floor type, feed delivery, ventilation, animal flow, facility cost, lighting, and more, an Osborne Design Specialist assists each customer on proper design so each piece of equipment operates at peak performance.

Small Pen Layout: Static Group



Large Pen Layout: Dynamic Group



TEAM® Electronic Sow Feeding

The **TEAM Software Application** for Windows transfers, collects, stores, and displays all the information collected by a network of TEAM workstations. Data presented with TEAM is displayed in user-friendly individual and group reports, summarizing production and performance data.

TEAM® SOFTWARE	
Description	Application
TEAM Software	Transfers, collects, stores, and displays information collected by connected TEAM Workstations.

Setting and monitoring feed and animal performance data is easy with the TEAM software application. A variety of records may be entered for individual or groups of animals, and reports and tools are available informing system operators of current animal and feeder performance. Some features and reports of the TEAM software include:

ANIMAL MANAGEMENT

- Animal Production Summary
- Animal Status
- Animal Records

ANIMAL & GROUP ACTIONS

- Treatment Action
- Condition Action
- Divert Action

ANIMAL & GROUP REPORTS

- Feed Summary Report
- Feed Attention Report
- Animal Performance Report



FEED CURVE SETUP

Create up to 20 different feed curves to perfectly match animal requirements, condition, and more.



ANIMAL PRODUCTION SUMMARY

Review individual animal information including parity, summary of actions, condition score, and more.



ANIMAL CONDITION ACTION

Record and review animal conditions based on a five-point scale and automatically update feed curves.



ANIMAL TREATMENT ACTION

Record new and review various historical treatment information for individual animals.



FEED SUMMARY REPORT

Displays a record of feed consumption for individual animals in tabular or graphical form.



CALENDAR ATTENTION REPORT

Displays animals meeting user-selected actions requiring timely attention for various actions.



ANIMAL STATUS REPORT

Displays animals meeting user-selected characteristics like group, condition, location, and more.



IMPORT/EXPORT FROM OTHER SOFTWARE

Import or export batch files of animal information to and from other management applications like PigCHAMP.



“ We have 1, 600 sows, and the old system was too labor-intensive. There was a lot of feed wastage and more competition, and the numbers weren't good. TEAM is extremely easy to learn with the help of Osborne's technical support, and we saw 200 percent improvement. It performs very well, and feed allocation is most valuable. The TEAM system is very simple, and I can always call an Osborne service tech.

With the old system, there was a small pen feed drop, and we had a hard time with management. There was a lot of feed wastage, uneven sow conditions and a lot of lameness.

I would definitely consider using it in other barns.

— Nathan K., Folton, SD

The Osborne automated feeding system does a good job of keeping our group housed gestating sows of various age and parity in optimal body condition while still allowing them freedom of movement.

— Curt Z., Washington, IL ”

Improve your key performance indicators with ESF.

Our early studies of electronic sow feeding at our Demonstration Farm, and in cooperation with about 100 early adopters of ESF in North America, clearly indicate that key performance indicators (KPIs) in real-world conditions can meet - or even exceed - those for sows housed in traditional gestation crates with proper system management.

TEAM ESF vs. GESTATION STALLS

A 3 YEAR COMPREHENSIVE STUDY*

Key Performance Indicator	TEAM ESF	Gestation Stalls	Difference	.P-Value
Return to Estrus, %	94.5	91.7	+ 2.8	< 0.05
Seven Days Post-Wean	72.0	68.4	+ 3.6	< 0.05
Farrowing Rate, %	94.3	89.4	+ 4.9	< 0.05
Litter Birth Weight, lbs.	39.0	36.8	+ 2.2	< 0.001
Litter Wean Weight, lbs.	125.8	123.8	+ 2.0	<0.001

* Reference: Bates, Edwards, and Korthals, 2003, Lvsstk. Prod. Sci. 79, 29-35.

Patent and trademark information available at osborne-ind.com/ip.



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