



# VAST Enterprise Retread

Plant Management  
Software

Driving Business Performance





## Company Background

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### Established Reputation

Founded in 1984, MAM Software has established a strong reputation as a leading provider of professional business management systems and data solutions to the Automotive Aftermarket (AAM). This reputation is built upon our ability to consistently deliver reliable, innovative and economical software solutions that bring competitive advantages and increased profitability to our customers.

### The Aftermarket

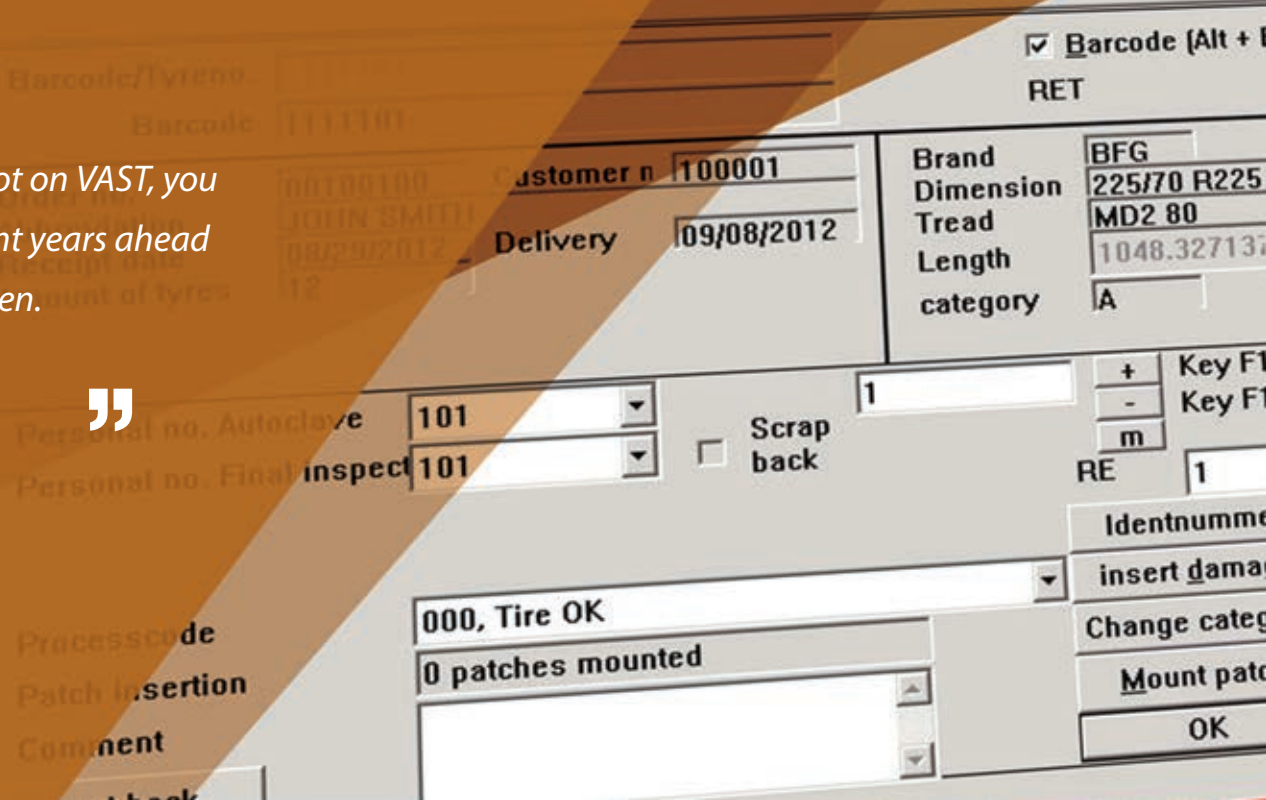
MAM enterprise systems are used and recommended by many of the leading businesses within the AAM. All told, thousands of companies – from single-site operations to multi-user, multi-site organizations – rely on MAM Software to manage their business. Our customers operate throughout the aftermarket in sectors such as:

- ▶ Parts warehousing
- ▶ Hard parts warehouse distributors
- ▶ Hard parts jobber wholesale and retail
- ▶ Body panel warehouse distribution
- ▶ Automotive electrical repair and distribution
- ▶ Undercar warehouse distribution
- ▶ Performance parts distribution
- ▶ Heating and cooling parts distribution

“ ...if you're not on VAST, you should be. It is light years ahead of anything I've seen.

Tom Pfau  
Meineke

”



## Overview

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A modern Windows based retread plant management solution

Modern tire retreading companies are requiring more intelligent and easier to use software to help manage the retread plant process. Fleets today are requiring more comprehensive information to help them manage their vehicles. VAST FA/R is a proven, Microsoft Windows-based retread plant management system that is used across Europe. Now available in North & South America, VAST FA/R can run as a stand-alone product, or be interfaced with your existing tire dealer management system.

Taking today's retread software to a new level, VAST FA/R offers a unique solution which:

- ▶ Supports company-specific business rules
- ▶ Is very user-friendly
- ▶ Is fast to implement
- ▶ Is easily integrated into existing systems
- ▶ Is multi-lingual



Barcode/Tyreno. 1111101  
Barcode 1111101

Order no. 00100100 Cust.-No. 100001  
Abbreviation JOHN SMITH  
Receipt date 08/29/2012 Delivery 09/08/2012

Brand BFG  
Dimens. 225/70 R225  
Tread MD2

Personal no. 101  
casing type SILVERTOWN EXTRA MILE

Processcode 504, Repair

category A age 86 weeks RE 1

Residual pattern in

Comment

OK

Barcode RET

#	Damages
0	Test
0	Nailhole
0	Test2

tread	Cat	Purchase	AT	KK	RE	proc.

## What you gain with VAST FA/R

Optimize your processes by utilizing VAST FA/R

Our experience in the tire industry and the consideration of our customers' requirements and experiences guarantee the suitability of our retreading program in practice.

### Key features

- ▶ Decreased administrative costs, even with increasing production, due to total process monitoring and process control
- ▶ Process optimization based on real long-term data
- ▶ Trouble-free interchange of staff members during the production process
- ▶ Reduced error risk due to machine interfaces and defined rules
- ▶ Reduced production costs due to efficient deployment of staff and material
- ▶ Optimized material stock due to integration in supply chain systems
- ▶ Productivity increase due to automation
- ▶ Increased quality awareness of the staff due to detailed production documentation
- ▶ Shorter processing times, high product quality and a transparent production process increase customer confidence and strengthen existing customer relations
- ▶ Automated data exchange with tire trade programs prevents media breaks and multiple data capturing
- ▶ Individual reports and statistics enable detailed evaluations

“ Our team estimates repair work more accurately and completely. ”

Jason Allbert  
Precision Tune Auto Center

## Seamless integration of Production, Warehouse & Office

FA/R controls and documents the production of the retreading process in both cold and mold cure environment, from the receipt of casings to the delivery of the finished product. Based on memorized process data, FA/R enables the regular optimization of processes within the retreading plant.

### Key features

- ▶ FA/R functions:
- ▶ Planning and control of production orders in pre-cure and mould cure retreading processes
- ▶ Dynamic data management, situation related data disposition and capturing
- ▶ Complete production documentation
- ▶ Logistics support due to mobile data capturing
- ▶ Material disposition with integration in supply chain systems
- ▶ Extensive statistic evaluations and reports
- ▶ Electronic data exchange with tire trade systems

Barcode/Tyreno. 1111101 RET  Barcode (Alt + B)

Order no.	00100100	Brand	BFG
Customer no.	100001	Tire size	225/70
Abbreviation	JOHN SMITH	Rim size	R225
Receipt date	08/29/2012	Tread	MD2
Delivery	09/08/2012	Form	

Personal no. Buffing 101 Width 80 length 1048.3271

Processcode 000, Tire OK Side wall protection n  Scrap back

casingtype SILVERTOWN EX new category A

Comment

## Flexibility and Scalability

Due to its scalability in connection with extensive adaptive features, FA/R can be adjusted to different user environments and grow with changing requirements. After setting up a start configuration the system can, according to the needs, be extended in its depth (new stations) or in its functions (new modules). Many data interfaces assure the communication with existing IT applications (tire trade) and ERP systems.

### Key features

- ▶ Perfected functionality
- ▶ Useful modularity
- ▶ High scalability
- ▶ Fast implementation

“ VAST’s reporting features give us a much clearer picture of each store’s everyday operations.”

Mike Holmes  
Virginia Tire & Auto

”

DOT	tiresize	Rimsizes	Brand	tread	Complete	Scrap
M5H3HPX0111	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>
M5H3HPX0511	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>
M5H3HPX0212	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>
M5H3HPX0311	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>
M5H392X0110	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>
M5H392X0111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>
M5H392X0112	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>
M5H39EX1111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>
M5H39EX1111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>

## Core Module

Secured data basis, clear rules, flexibility due to parameterization

The FA/R core module contains the central data for the entire system. Extensive functions assure the adaptation of the system to the operative processes of the retreading plant. Plausibility checks, established user rights and clear rules guarantee an economic utilization of the solution.

### Key features

- ▶ Basic data administration (clients, suppliers, tires, treads, text blocks, staff, process codes...)
- ▶ Parameterization settings
- ▶ Rules, plausibility checks
- ▶ Rights administration
- ▶ Order control, delivery
- ▶ Items on stock
- ▶ Order department
- ▶ Production documentation



Barcode/Tyreno. 5678901		RET		<input checked="" type="checkbox"/> Barcode (Alt + B)	
Order no.	20120829	Customer	100001	Brand	BST
Abbreviation	JOHN SMITH	Delivery	09/08/2012	Dimension	315/80 R22.5
Receipt date	08/29/2012			Tread	WHL 10
				Length	1000
				category	A

Personnel no. Builde	101	<input type="checkbox"/> Sidewall reinf.
Building dimension		gradation
circumference	12.000 in	GI-Profil
Inventory reduction	1 pcs	alpin
Cushion gum	1/16 X 1 TUFF BOND SS RM	

OK

## Production Control

Far-sighted and on the right track

Production control, which is the heart of the solution, receives information in real time from the production process in order to provide the production manager at all times with an exact process overview and hence allow for fast and Computer-aided production control in pre-cure and mould cure retreading processes with FA/R secure planning and control. The production manager is supported by rules which are adjusted to the user's requirements and saved within the system.

### Key features

- ▶ Production planning
- ▶ Allocation and gathering of relevant data at the production stations
- ▶ Automated data exchange with machines and lines
- ▶ Integrated rules for defined reactions to special situations
- ▶ Tire resetting
- ▶ Casing failure or quality degrading
- ▶ Change of treads
- ▶ Change of moulds
- ▶ Automated material administration
- ▶ Foreman function for monitoring and control

“ The (VAST) support team is knowledgeable, professional and helpful, and the system is easy to use.

”

Tom White  
Tiresource

A screenshot of a web-based customer information form. The form is titled "Customer admin" and "Delivery address". It contains the following fields and values:

Customer name 1	401972
Customer name 2	John Smith Tires
Street	123 Main Street
Country	
Abbreviation	John Smith Tires
Telephone	(815) 555-1234
Fax	
Contact	
Language	English
Letter code	
Comment	

## Supply Chain Interface

Interface to POS/ billing & inventory control software

VAST FA/R is an integrated solution with MAM Software's VAST Tire Dealer Management System. Although FA/R may be run stand-alone it also includes a 3rd party interface module so it can be connected to your existing ERP or Point of Sale software. FA/R's 3rd party interface gives you:

- ▶ Management of raw materials
- ▶ Automatic transfer of finished retreads to the commercial centers
- ▶ Bill partial or complete customer orders
- ▶ Automated customer contract pricing
- ▶ Automatic update of material master data
- ▶ Integration of new profiles
- ▶ Order ban on profiles being phased out
- ▶ Production ban on profiles

Order processing  
Entering orderdata

Order no. 00100100  
Customer no. 100001  
Abbreviation JOHN SMITH

back to order processing    Order data

Linecode	Barcode	DOT	tiresize	Rimsize	Brand	tread	Complete	Scrap back	Finished
RET	1111101	M5H3HPX0111	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RET	1111102	M5H3HPX0511	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RET	1111103	M5H3HPX0212	225/70	R225	BFG	MD2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RET	1111104	M5H3HPX0311	225/70	R225	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R&R	1111105	M5H392X0110	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R&R	1111106	M5H392X0111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
R&R	1111107	M5H392X0112	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
R&R	1111108	M5H39EX1111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C&C	1111109	M5H39EX1111	225/70	R19.5	BFG	HTR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Computer-Aided Tire Retreading

As an organization and control tool within the retreading plant, FA/R considerably increases the work efficiency at all company levels, from the general manager down to the production, administrative and warehouse staff!

### Productivity increase

- ▶ Online information
- ▶ Fast and faultless identification of casings and retreaded products

### Cost-cutting

- ▶ Reduced administrative effort
- ▶ Optimized line and staff deployment
- ▶ Avoiding cost drivers

### Quality assurance

- ▶ Improved quality awareness of the staff due to detailed documentation
- ▶ Defined rules and plausibility checks decrease failure risks

### Better customer satisfaction

- ▶ Shortened delivery times due to reduction of cycle times and optimal material disposition
- ▶ Improving product quality means less complaints
- ▶ Auto-information system for traders

- ▶ Exact treatment of scrapped casings and complaint management

### Improved flexibility

- ▶ Order planning based on customers' orders and warehouse production with regard to material and disposition stock
- ▶ Facilitated handling due to utilizing the casing account

### Process optimization

Real process data provide the data basis for valuable productivity evaluations on:

- ▶ Staff
- ▶ Shifts and factories
- ▶ Products
- ▶ Machines
- ▶ Material flow

and enable a continuous process optimization

# Driving Business Performance