

# MICHIGAN

# ALLROUNDER

## AUTOMATIC ATTACHMENT COUPLER SYSTEM



*MORE THAN JUST LOADERS...*





## THE ALLROUNDERS MORE THAN JUST LOADERS...

■ Wherever the work is tough and varied, and demands for rapid and efficient materials handling are high, the Michigan Allrounders are unbeatable. They have been designed and developed to meet your needs for versatility and capacity. With the choice of five machines and over 100 different attachments, you can always choose the right combination for maximum productivity.

■ The highly effective loader linkage on the Michigans give you excellent lift height and reach while maintaining precise control of loads throughout the lifting range.

■ These machines are highly maneuverable and easy to operate. To achieve high production, the operator must have an efficient and comfortable working environment. Michigan Allrounders provide a quiet, safe and comfortable cab. This results in higher production and job satisfaction.

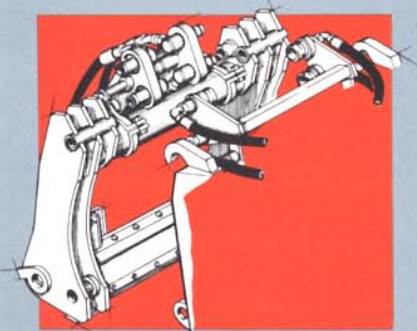
■ The Allrounders are successfully at work all over the world in many varied material handling applications. This is the result of accumulated "know-how," advanced technology, and adds to their reputation for excellence.



## "THE ORIGINAL" AUTOMATIC ATTACHMENT COUPLER SYSTEM

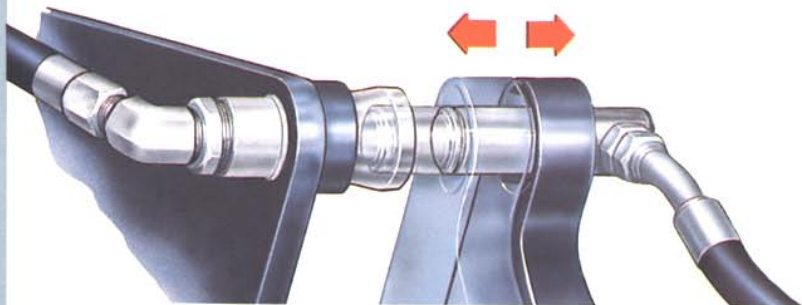
The Allrounders are first in the world to offer automatic hydraulic coupling of attachments. Machine wide variety of material handling tasks can take advantage of the benefits of the ease and speed of this feature. Together, the quick coupler attachment bracket and this new Automatic Hose Coupler allow the operator to quickly and safely change hydraulically powered attachments without leaving the cab. Not only does it save time, but it also spares the operator the job of manually connecting and disconnecting the hydraulic lines, a particularly desirable feature in cold weather.

The Automatic Hose Coupler is a patented invention that won Håkan Johansson of Jämtland, Sweden the 1986 Alfred Noble Award Of Development at the National Exhibition SKAPA '86 in Stockholm. Simply put, it is unique in the material handling industries. This invention is now owned, patented and manufactured exclusively by VME Group N.V.





LER  
LER



**AUTOMATIC HYDRAULICS**  
**U.S. PATENT #4208163**



NT

used in a  
of this new  
the oper-  
only does it  
ulic lines,

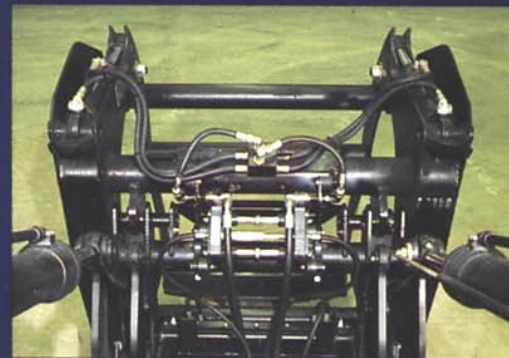
veden the  
ole in con-  
marketed



With the controls at his fingertips, the operator can now change hydraulic powered attachments without leaving the cab.



A simple touch of a dash mounted rocker switch while moving the 3rd valve lever activates the mechanism which connects the male and female hydraulic couplings.



Excellent visibility is maintained with the Automatic Attachment Coupler System.



The Automatic Attachment Coupler System gives the operator the ability to change to the correct attachment for safe, efficient operation even for short periods of time.



# AUTOMATIC ATTACHMENT FAMILY

## The Allrounder System: More Than Just an Attachment Bracket

- The Automatic Attachment Coupler System
- The Quick Coupler Attachment Bracket
- The Automatic Hose Coupler
- Parallel Linkage
- Long Reach
- High Lift Height
- Automatic Powershift Transmission (Std)
- Optional Eight Speed Transmission;  
Low Range Manual,  
High Range Automatic
- Standard Three Spool Valve Hydraulics
- Up to Six Hydraulic Functions Available
- Dual Circuit Hydraulics
- A Family of Compatible Factory Designed Proven Attachments
- Over Thirty Years Experience



### EIGHT SPEED TRANSMISSION

The optional eight speed transmission is used when lower speeds are required to operate special attachments such as: snow blowers, brush cutters, brooms and graders. The automatic transmission has high-low gear ranges with manual range selection. This provides for low machine travel speeds and high hydraulic flow for attachment operation.



### OPTIONAL DUAL CIRCUIT HYDRAULICS

The optional dual circuit hydraulic system is equipped with two pumps, a gear pump that always delivers oil through the main control valve, and a piston pump with manually adjustable displacement. Selected by a switch on the instrument panel, the piston pump's output can be delivered either through the main control valve or directly to the attachment. This allows the main hydraulic system to position the attachment without interrupting the attachment functions.



## VME Americas Inc.

A subsidiary of VME Group N.V.  
23001 Euclid Avenue  
P.O. Box 178017  
Cleveland, Ohio 44117-8017



**VOLVO BM**  
**MICHIGAN**  
**EUCLID**

FORM NO. L1-000  
Printed in U.S.A. (2/87)