



The Fact Safe And Cost Effective Way to Apply Shorerete



THE HALMAN EN CRETER

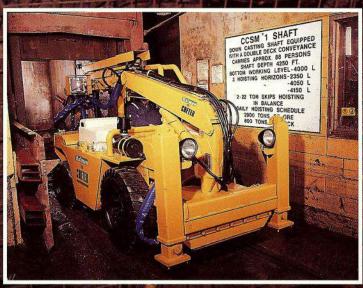
Developed in 1988 the Halman EN Creter is the proven way to reduce the cost and improve the safety of shotcreting operations in hard-rock mining.

The Halman EN Creter is an extremely compact, reliable, and versatile-portable shotcreting manipulator designed to allow a single operator to efficiently apply shotcrete to vertical and overhead rock faces without the need for seissor trucks and manually operated hoses and no zles.

PRODUCTIVE AND COST EFFECTIVE

Connected to your existing shotcrete pumps, the Halman EN Creter can drastically increase your total shotcrete throughput, reducing your manpower requirements, and saving your mine both time and money. The continuously oscillating spray head rotates the shotcrete stream throughout the application area, permitting an operator to easily produce an evenly distributed, uniform depth shotcrete layer with minimal blowback.

With additional time-saving features such as fully hydraulic, remote controlled stabilizers, and an optional utility/personnel carrier, the Halman EN Creter is designed to move quickly from work site to work site with a minimum of setup time.



Pictured above, The Halman EN Creter exits a 5 by 14 foot man-cage at INCO Limited's Copper Cliff South Mine.

SEPERIOR OPERATOR SACETY

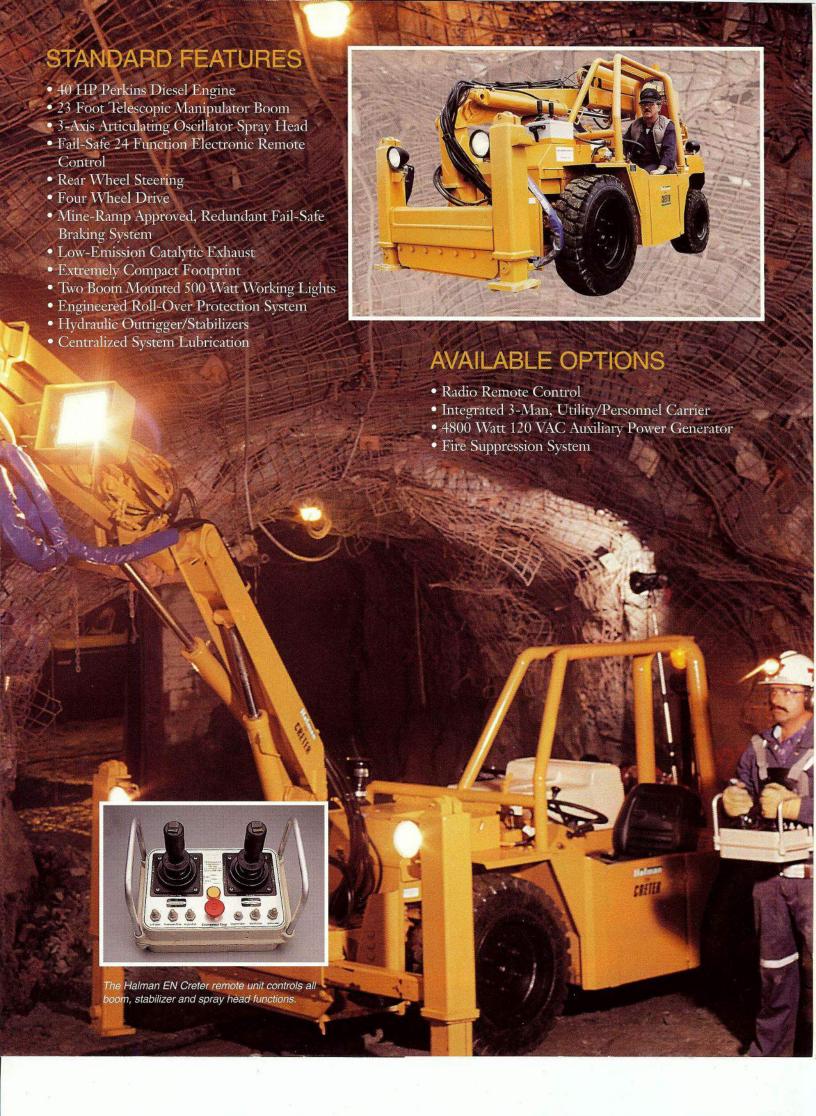
The Halman EN Creter virtually eliminates the health and safety hazards of manual shotcreting. The entire operation is controlled at a safe distance through a sophisticated and fail-safe electronic remote control system.

OUTSTANDING RELIABILITY

We recognize that in continuous shotcreting operations, machine up-time is absolutely critical. For this reason, the Halman EN Creter is an extremely rugged unit, designed to meet the strenuous demands of the mining industry.

COMPACT AND PORTABLE

When fully retracted, the Halman EN Creter has a footprint 56 inches wide by 14 feet long - small enough to drive directly into and out of the smallest mine cages, allowing you to lower the unit down your shaft without disassembly or slinging.



Halman **EN Creter Specifications**

Engine:

Perkins model 104-19, 4 cylinder water cooled

diesel rated 40HP at 2800 RPM

Transmission:

•Hydromatic A4V-DA/A6VM-DA

•Main pump A4V-40DA, variable capacity auto power control and direction changer

• Motor A6VM 80DA variable

Operating pressure 420 BAR+10 Bar

Brakes:

Mine approved triple redundant fail safe

braking system

Exhaust:

Mine approved catalytic system

Transport

Dimensions:

Length: 174" Width: 56"

Height: 72"

Weight: 4,100 kg.

Main Carrier:

Manitou "Miner" 4 wheel hydrostatic

drive rough terrain "Buggie" Model

4RM20HPM

Boom:

Remote Controls: •24 function electronic,

including 25 foot cable

Spray Head:

·3-axis continuously oscillating

Tires:

•Kat-trak super heavy duty 26 ply pneumatic

mine tires

Stabilizers:

•Fully hydraulic independently controlled

•Lateral extension 25"

Vertical Extension 18"

Driving Lights:

•2 front, 2 rear

Additional

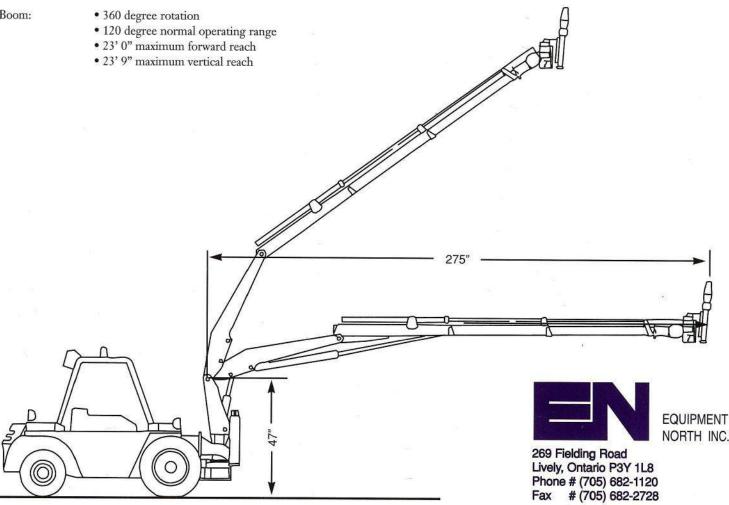
Features:

•Audible Back -Up Alarm

•Flashing dome light

•10 lb. ABC dry type fire extingusisher

•Ground Clearance: 9.5"



Weights, dimensions and capacities are approximate. All specifications are subject to change without notice.

Produced by Jason McKibbon Photography (705) 671-2667