

# JARVIS CLARK COMPANY

PRESENTS

## ***CLAYTON***

### 2 & 2½ TON TRAMMERS

#### **SAFETY FEATURES**

- Operator's Safety Guard
- Deadman Control
- Positive Cab Connection

#### **HIGH PERFORMANCE**

- Maximum Drawbar Pull
- Positive Four Wheel Traction
- Fully Sprung Chassis

#### **LONG LIFE ELECTRICS**

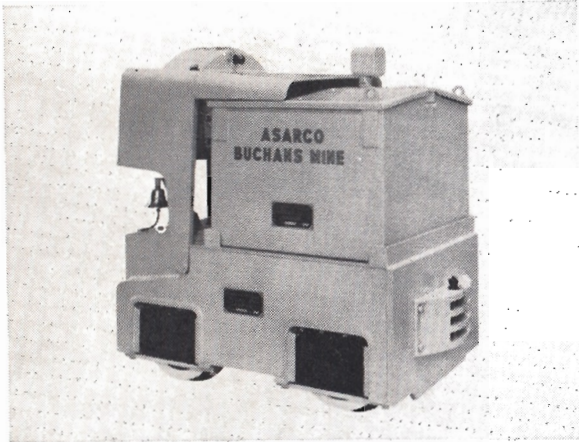
- Cam Contactor Controller
- Deadman and Overload Protection
- Conservatively Rated Motors
- High Quality Tubular Batteries

#### **LOW MAINTENANCE**

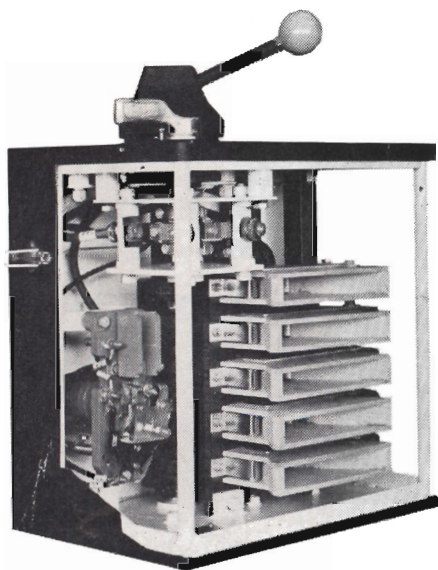
- Easy Access to all Components
- Stress Relieved Drive
- Simple Lever Brake



# COMPACT POWERFUL TRAMMERS



Ready for Caging



Clayton Controller



High Performance

Designed to meet even the most stringent caging requirements, this range of "Clayton" trammers has all the performance and maintenance features normally found only in larger locomotives. The basic drive arrangement and many of the components are the same on the 2 and 2½ ton trammers, except that the larger unit has heavier gearing and axles, in keeping with the higher horsepower and weight. A mine can use both sizes of machines — the 2 ton for development and short production hauls and the 2½ ton for heavier haulage work — without carrying duplicate stocks for both machines.

## POSITIVE FOUR WHEEL TRACTION

Both axles are positively driven by a single motor, but are allowed to move independently, following track irregularities, reducing derailment — but most important the Clayton drive provides the maximum possible traction and relieves the motor and drive from shock loads — AN EXCLUSIVE FEATURE ON ALL CLAYTON TRAMMERS.

## GOOD RIDING QUALITIES

All four wheels are individually mounted on double coil springs. Riding qualities are exceptionally good, even on rough track.

## EASY MAINTENANCE

Design simplicity of the Clayton trammers allows fast accessibility for maintenance to the drive, brake, journals and controller. A terminal block between the motor and controller allows each to be removed independently. Once the motor is disconnected, the entire drive may be removed in less than a half hour.

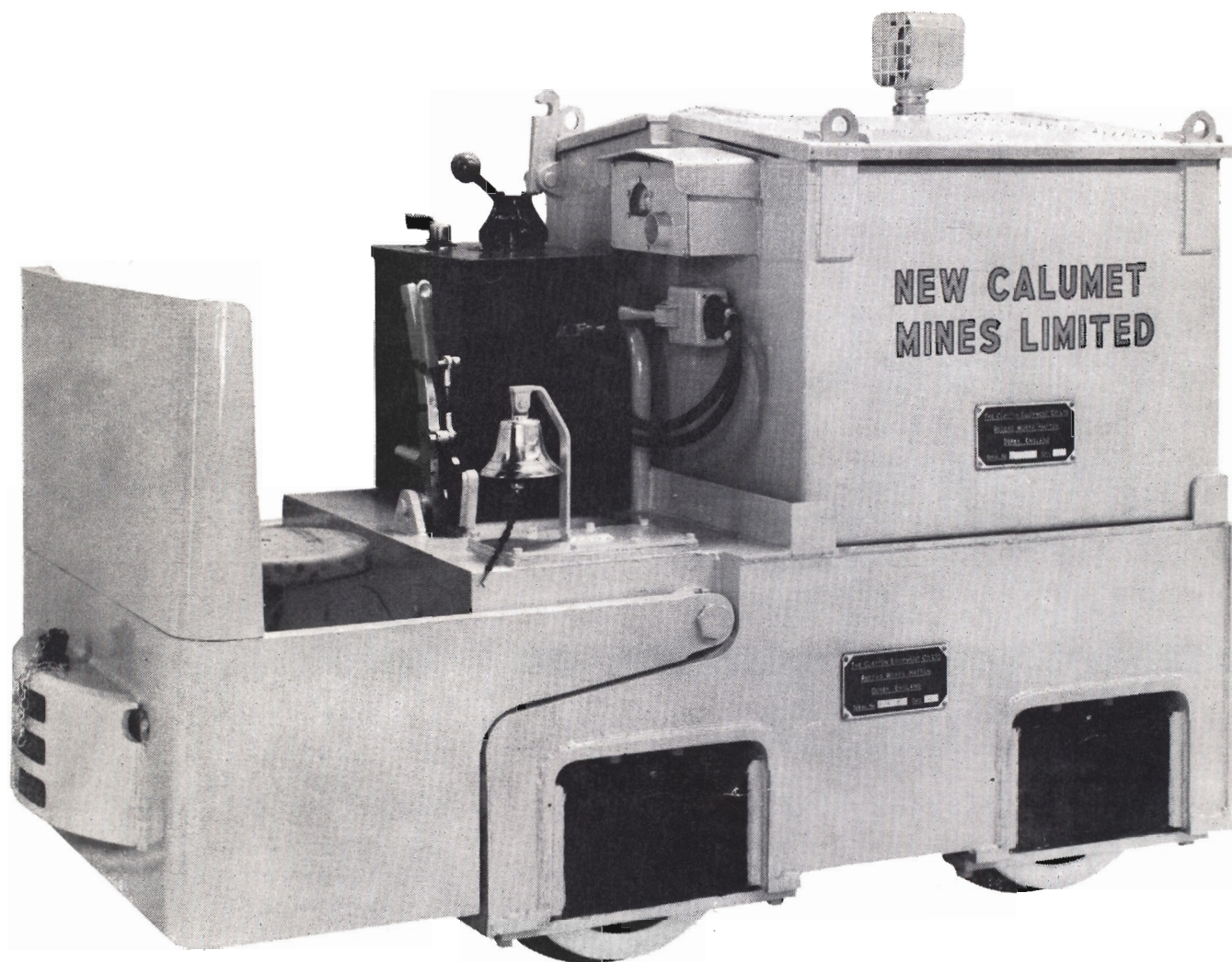
## SAFETY FEATURES

Operator's safety guard is standard.

Deadman built into the controller is standard.

With the Clayton folding cab design, the cab butts against the frame — accidental folding or telescoping is impossible.

All machines are painted high visibility safety yellow.



## ***ENGINEERED ELECTRICS INSURE TOP PERFORMANCE***

“Clayton” manufacture their own motors and controllers, which are specifically designed for these trammers — properly engineered and conservatively rated. Check the following:

### **CAM CONTACTOR CONTROLLER**

Five contactors provide smooth even acceleration and each is cam operated for quick opening to reduce arcing and extend tip life. Blow out coils are provided on high amperage contactors. All wiring is at the rear, to allow easy access to all components.

An exceptionally rugged case provides protection for all components and shafts have seals for water protection.

### **BUILT IN DEADMAN CONTROL**

As an integral part of the controller, a deadman is standard. It works through the handle so that the operator must first depress

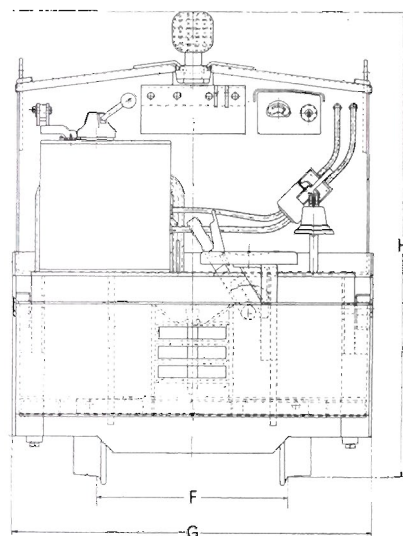
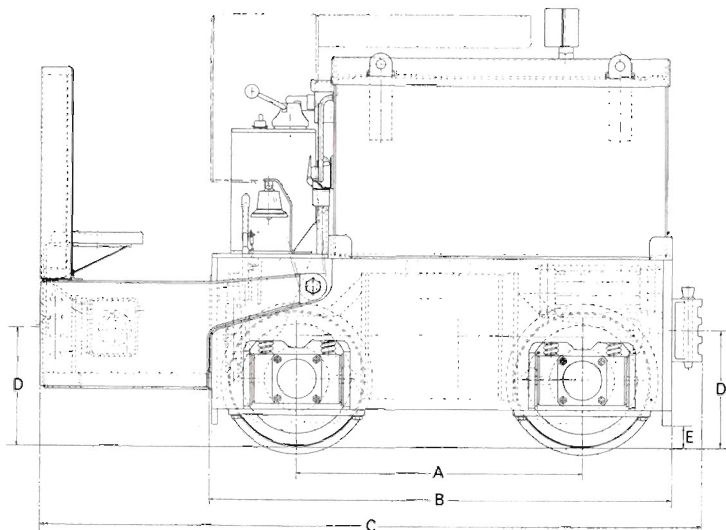
the main handle before the locomotive can be moved. If at any time he releases the handle the electric supply is cut off and he must return to neutral to move the locomotive.

With the deadman protection it is impossible to leave the locomotive “ON” — protecting the locomotive and eliminating the possibility of fire when the locomotive is left unattended.

### **ANTI-PLUGGING DEVICE AND OVERLOAD PROTECTION**

A separate reverser is provided and interlocked with the main cam to reduce the possibility of plugging. Self resetting overload relay protects the motor and controller from damage.

The deadman, reverser, main contactor and overload relay are all located in the controller proper — easily accessible for maintenance.



## SPECIFICATIONS

	2 Ton		2 1/2 Ton	
	STANDARD		STANDARD	HI-POWER
*Operating Weight	4,000-4,200 lbs.		5,000 lbs.	5,450 lbs.
Locomotive Chassis Only	2,600 lbs.		3,300 lbs.	3,500 lbs.
Motor Horsepower	6 HP @ 50 volts		6 HP @ 50 volts	8 HP @ 60 volts
Drawbar Pull at One Hour Rate	510 lbs.		525 lbs.	700 lbs.
Speed at One Hour Rate	3.6 m.p.h.		3.5 m.p.h.	3.75 m.p.h.
Maximum Speed	6 m.p.h.		6.5 m.p.h.	7 m.p.h.
*Maximum Drawbar Pull	1,150 lbs.		1,450 lbs.	1,560 lbs.
Wheel Diameter	14"		14"	16"
‡Battery Cells (13 Plate Standard)	25		25	30
Light — Sealed Beam	12 volt		12 volt	12 volt

(\*) Weight and maximum drawbar pull will increase with larger than standard batteries.

(‡) Batteries are available in a wide range of cell sizes and ampere hour capacity.

## DIMENSIONS

	2 Ton		2 1/2 Ton	
	STANDARD		STANDARD	HI-POWER
A — Wheel Base	27 1/4"		27 1/4"	31"
§B — Caging Length	48"		48"	52 1/2"
C — Operating Length	73 1/2"		73 1/2"	78 1/2"
D — Coupler Height			Variable to suit Customers Car	
E — Track Clearance	2 3/4"		2 3/4"	2 1/2"
F — Track Gauge	18"-24"-30"-36"		18"-24"-30"-36"	24"-30"-36"
G — Overall Width — 18"-24"	38 3/4"		38 3/4"	38 3/4"
	30"		38"	43"
	36"		43"	43"
H — Operating Height	52 3/8"		52 3/8"	55 1/2"

(§) Caging length is with front coupler removed — add 4" for caging length with coupler on.

NOTE:—Dimensions may be varied slightly to suit special conditions.



Sold and Serviced In Canada By  
**Jarvis Clark Company Limited**

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