

for low-cost haulage at every level

ATLAS 1½-TON CAGEABLE

STORAGE BATTERY LOCOMOTIVE

TYPE "J"



The Type J Locomotive with cab retracted can be hoisted on a 48" cage. The retracted cab is locked in position with the same heavy keys which hold it rigidly in the operating position. The heavy steel floor plate when lowered into place positively locks the cab to prevent accidental retraction.



The Type J Trimming Locomotive is the simplest in design, and consequently, shows the lowest operating cost. It is driven by spur gears, of the automobile type, mounted on alloy steel shafts, with ball bearings throughout, all totally enclosed in an oil-tight housing. All parts, excepting the motor, are lubricated from one central reservoir. Spur gears are the most efficient type of gearing, so this locomotive can do the most work per battery charge.

The simplicity of the Type J is no accident. It was deliberately designed for mass production methods, and as a consequence, it provides superior performance and low operating cost at a favorable figure. When, eventually parts must be renewed, the simple design insures proper fitting of parts without requiring adjustments. This results in lower maintenance.

It costs less to build. It costs less to operate.

SPUR-GEAR DRIVE — Simple and dependable. The most efficient means of power transmission.

TOTALLY ENCLOSED — One housing encloses the entire mechanism. All parts, excepting motor, lubricated by the splash system. Axles sealed against entrance of dirt and water.

ANTI-FRICTION BEARINGS — Maintain proper gear mesh, thus lengthening life of the gearing.

WHEELS MOUNTED — On taper fits to insure easy replacement of worn wheels. Secured by large nuts at ends of axles.

SPECIFICATIONS

Length overall for caging	42"
Length overall when operating	60"
Width overall	33"
Height to top of battery box with battery of standard height	45"
Height over headlight with battery of standard height	50"
Add 6" for high type battery	
Trock gauge	18" to 24"
Wheels—Ruled Steel	14"
Chilled Iron or Steel Tired Wheels can be furnished.	
Wheels fitted on taper for easy removal.	
Wheel Base	20"
Rated Drawbar Pull	400 lbs. @ 3.5 MPH
Starting Drawbar Pull—	
with Steel Wheels	900 lbs.
with Cast Iron Wheels	750 lbs.
Speed	2.5 to 6.5 MPH
Weight Chassis only	7500 lbs.
Weight with 20 cells, 15 plate, standard height, lead acid battery, about	3800 lbs.
Weight with 20 cells, 15 plate, high type, lead acid battery, about	4400 lbs.
Weight with 40 cells, Edison A5	3380 lbs.
Weight with 40 cells, Edison C5	3700 lbs.
Motor —Series Wound, Ball Bearings, Totally Enclosed, 4½ HP.	
Drive —Spur Gear, Totally Enclosed, Ball Bearing, with minimum number of spur gears driving both axles.	
Control —Drum type, with single handle, semi-parallel fields, all metal construction, drip-proof.	
Brakes —Drum type, on armature shaft, operated by forged steel hand lever in cab, with cushioning spring.	
Anti-Friction Bearings —At main journals, and all bearings of drive.	
Headlight —Reversible type, with built-in switch.	
Battery Box —Can be lifted off or rolled off sideways, using Atlas Battery Changing Station.	
Ampere Hour Meter —Sangamo Type N21 enclosed in waterproof case.	
Charging Plug and Receptacle —300 Ampere capacity, standardized type.	
Circuit Breaker —Protects against sudden overloads, and also provides thermal time protection.	