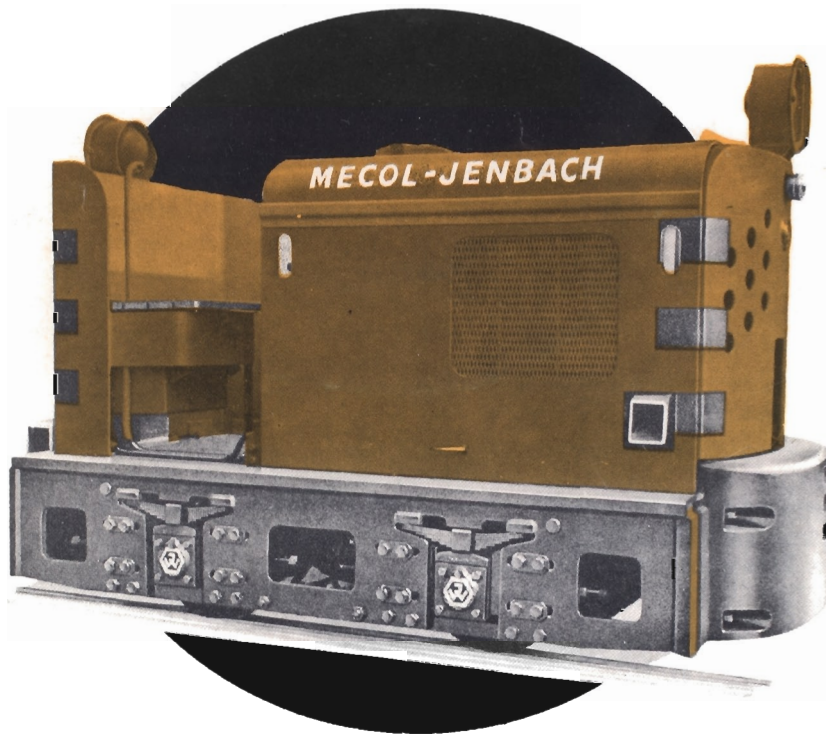


# MECOL-JENBACH Diesel Locomotives



1½ ton model • MJ-10

4 ton model • MJ-20

**MINE EQUIPMENT COMPANY** *Limited*

MONTREAL



SEPT ILES

TORONTO

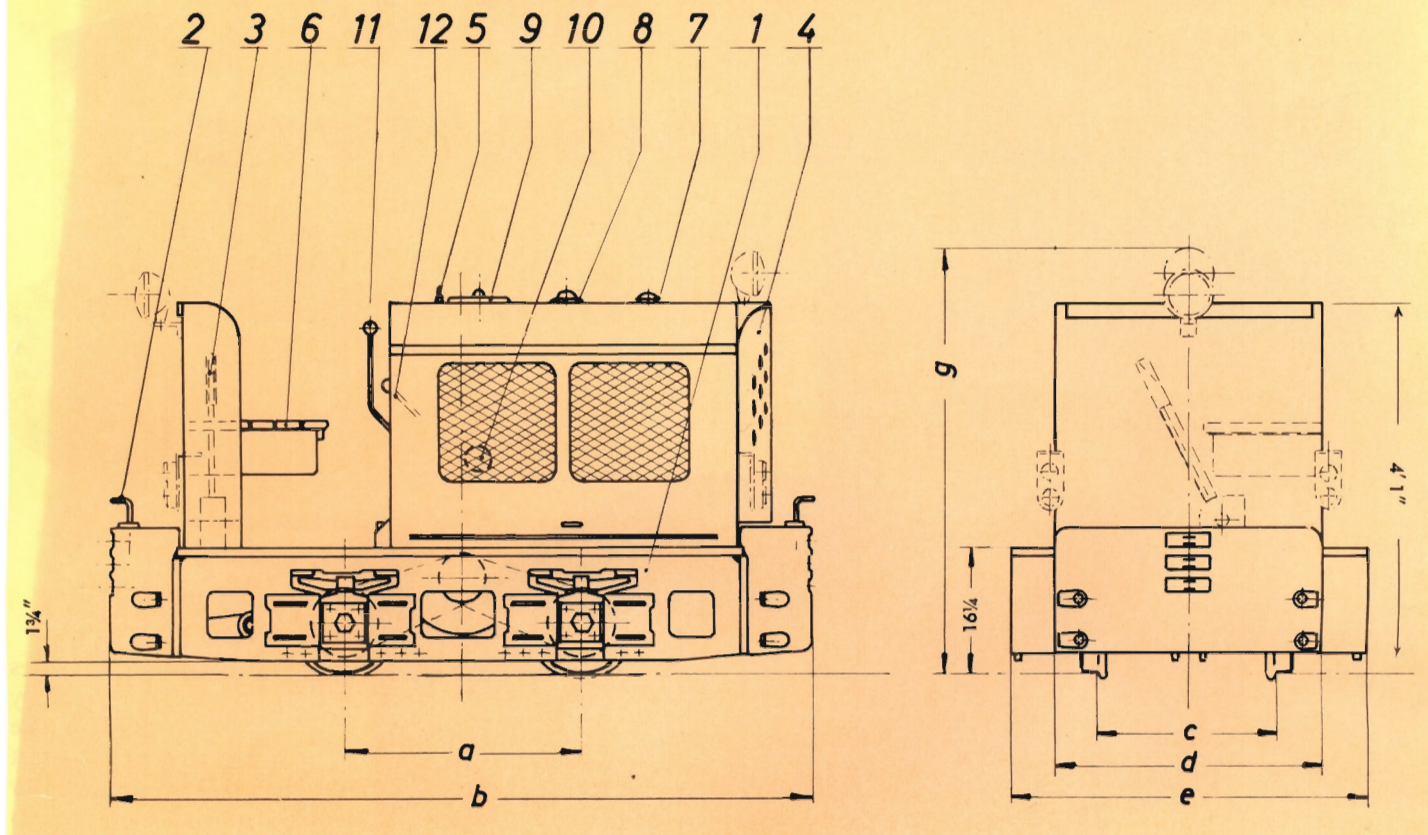
NORTH BAY

WINNIPEG

VANCOUVER

BULLETIN No. 101

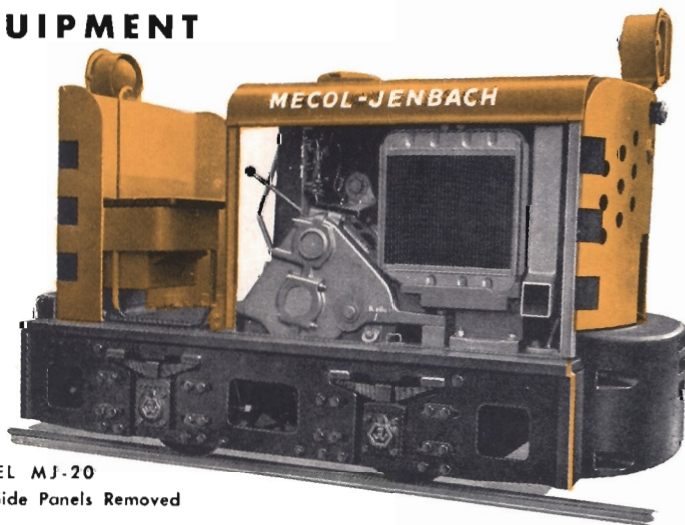
## DIMENSIONS AND EQUIPMENT



### DIMENSIONS

MODEL	A	B	C	D	E	G
MJ-10	23 <sup>3</sup> / <sub>4</sub>	5' 8"	24"	37"	37"	4' 5"
MJ-20	31 <sup>1</sup> / <sub>2</sub>	7' 8*	24"	37"	37"	4' 5"
			30" and 36"	48"	48"	4' 5"
			24/30 interchangeable	42 <sup>3</sup> / <sub>4</sub> "	42 <sup>3</sup> / <sub>4</sub> "	4' 5"
			24 /30/36 interchangeable	48"	48"	4' 5"
*Low Seat and Footwell Overall Length 8'-0 <sup>1</sup> / <sub>4</sub> ". If Bumpers Removed Reduce Overall Length by 1' 1 <sup>1</sup> / <sub>2</sub> ".						
SEAT HEIGHT :			Standard MJ-20	—	33"	above rail.
			Low Seat MJ-20	—	21 <sup>1</sup> / <sub>2</sub> "	above rail.

### EQUIPMENT

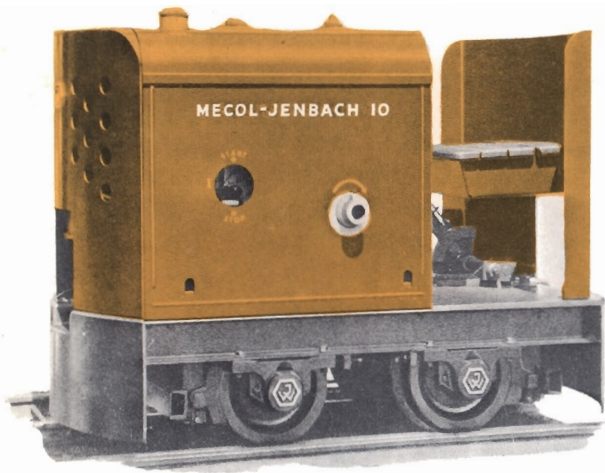


MODEL MJ-20  
with Side Panels Removed

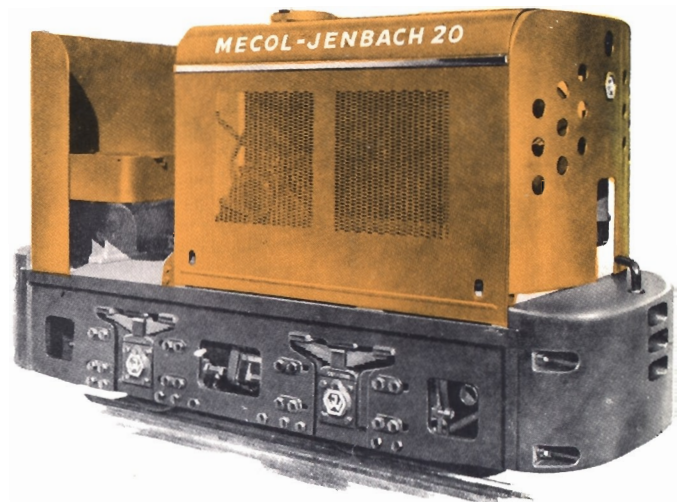
1. Chassis Frame
2. Coupling Hooks
3. Handbrake Lever
4. Perforated Plate for Engine
5. Sanding Equipment
6. Driver's Seat
7. Fuel Filling Cap
8. Water Filling Cap
9. Sandbox Lid
10. Hole for Starting Handle
11. Change-speed Lever
12. Reverse Gear Lever

# DIESEL LOCOMOTIVES

**MJ-10**



**MJ-20**



## Power Unit

The Power Unit is a JENBACH 4-stroke, horizontal diesel engine with pre-combustion chamber. Heavy flywheels are provided on either side for smooth running and to facilitate starting. A speed control lever working in conjunction with a sensitive governor provides a wide range of speeds for the engine and locomotive. The engine is fitted with a thermo-syphon cooling system with radiator. An oil bath air cleaner and exhaust silencer are provided. Fuel tank capacity is 2¾ Imperial gallons. A 12 volt electric starting system is fitted as standard equipment.

## Reduction Gear

Engine power is transmitted to the axles through a totally enclosed, dust-proof, reversing gear driven directly by the engine through a flexible coupling. The Model MJ-20 has a 2 speed gear box arrangement.

Special adjustable multi-plate clutches ensure smooth starting in either direction. All gears are of the constant mesh type, running in oil and all shafts are mounted in ball bearings.

## Exhaust Gas Analysis

The efficient combustion of the JENBACH diesel results in an exhaust gas with less than 0.05% CO by volume. Where required a water bath exhaust gas scrubber can be provided.

## Chassis

The chassis is of heavy duty welded construction. Axles are mounted in anti-friction bearings and are driven by roller chains. Wheels are machined cast steel and the frame is fitted with coupling hooks and bumper beams at both ends, the 4 ton Model MJ-20 bumpers are heavy castings with coupling slots.

Braking is by means of a ratchet type lever operating four brake shoes through adjustable brake rods. A tool box and sanding equipment are provided.

The Model MJ-10 can be supplied only for 24" gauge but the Model MJ-20 can be supplied in any fixed gauge from 24" up. The MJ-20 Locomotive can be supplied with adjustable gauge from 24" to 30" and from 24" to 30" to 36".

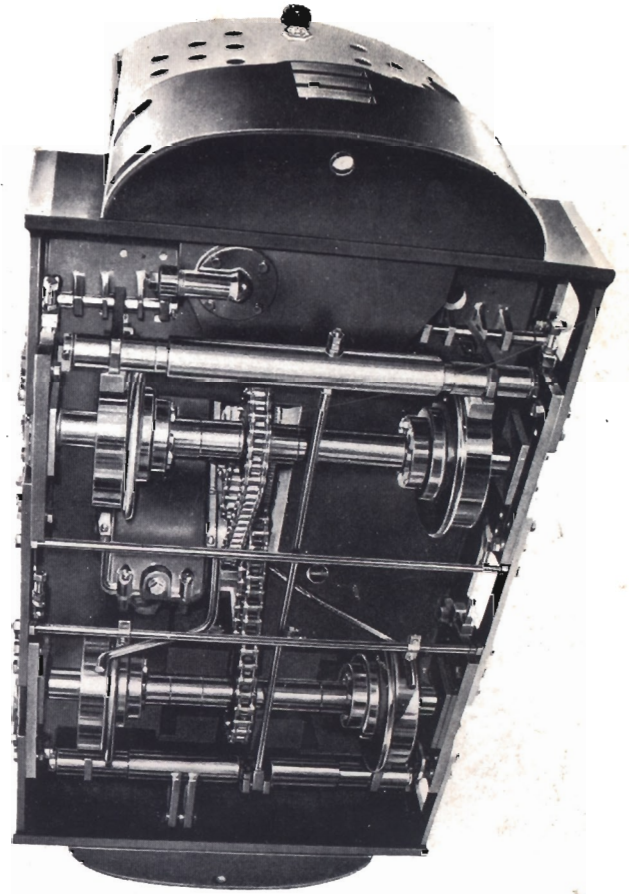
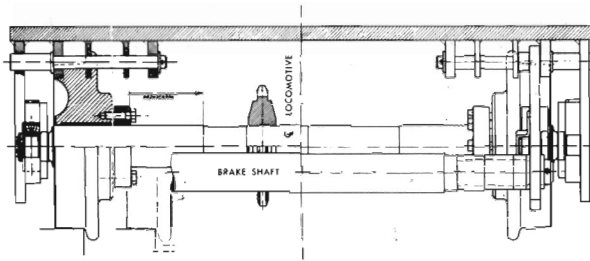
## Engine Cover

The front of the engine hood is of a heavy gauge (.200") perforated steel plate and the engine enclosure consists of heavy (.100") steel plates fitted with latch type fasteners for easy removal. Double thickness engine covers can be provided if required. Engine covers and end plates are painted high visibility yellow.

## TECHNICAL SPECIFICATIONS

MODEL	MJ-10	MJ-20
Engine BHP	10	20
Speed	2.5 - 5 MPH	2.8 - 5.6 MPH
Gauge	24"	24" - 30" - 36"
Minimum curve radius	19'	22'
Drawbar pull	560 lbs.	1980 lbs. First Gear 1100 lbs. Second Gear
Fuel consumption		
Max.	½ GPH	1 GPH
Average	¼ GPH	¼ to ⅓ GPH

ADJUSTABLE GAUGE



Where required, the MJ-20 can be supplied with adjustable gauge from 24" to 30" and from 24" to 30" and 36". Adjustment to any intermediate gauges is simply achieved by loosening wheel hub bolts, to reposition wheels.

TABLE OF HAULING CAPACITIES IN TONS

MODEL	GRADE	LEVEL	0.5%	1.0%	2.0%	2.5%	4.0%
MJ-10		28	19	14	9	8	6
MJ-20	1st Speed	99	66	45	33	28	20
	2nd Speed	56	36	26	16	14	9
BASED ON 20 LBS/TON TRACTIVE RESISTANCE							

WEIGHTS AND SHIPPING DIMENSIONS

MODEL	MJ-10	MJ-20
Weight, net lbs.	2,650	8,400
Weight, gross lbs.	3,250	9,300
Crated Dimensions	76"L x 49"W x 65"H	101"L x 46"W x 67"H
Crated Volume	142 cu. ft.	182 cu. ft.


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