

**TECHNICAL
BRIEF**

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SPECIFICATION
QUICKCHANGE® TRANSFER AND TRANSPORT MACHINE
MODEL 3 (TTM-3)

Barrier Systems Inc.'s TTM Model 3 is a self-propelled machine designed to transfer (move laterally from lane to lane) continuous lengths of Quickchange® Moveable Concrete Barrier (MCB) at speeds of up to 5 mph, or to pick up sections of the MCB and transport them (move them down the roadway) to a new operations site.

PHYSICAL DATA**DIMENSIONS**

Working length: 557 inches
 width: 174 inches

(12 foot transfer)

Height: 135-163 inches

Shipping length: 448 inches

width: 102 inches

height: 123 inches

Wheelbase:

365 inches

Weight:

37,000 pounds

Weight (while transferring barrier)

57,000 pounds

Turning Circle (front steer only)

150 ft diameter

Turning Circle (both ends steer)

75 ft diameter

POWER PLANT**MAIN ENGINE**

Diesel (150 nominal HP)

6 cylinder turbocharged diesel

Dry type air cleaner

Oil, fuel filters

Integral safety shutdown on high coolant temperature and/or low oil pressure and/or low hydraulic level and/or high hydraulic temperature

BACKUP ENGINE

Gas (8 HP)

Electric start

ELECTRICAL

12 volt DC negative ground
105 amp alternator

DRIVE SYSTEM

Closed-loop hydrostatic transmission
2 wheel drive
1-5 mph working range
20 mph top speed in high range
Integral pressure override

AUXILIARY HYDRAULIC SYSTEM

Pressure compensated piston pump
Rated at 19 gpm
Set at 2500 psi
Operates: Leg cylinders, side shift cylinders, steering cylinders

STEERING SYSTEM

Full power steering each end
Utilizes auxiliary hydraulic pump
Energy efficient closed center system

BRAKES

Spring applied, hydraulic released
On two wheels
Fail safe design
Parking / Emergency
Operable from either operator station

TIRES

14.00-20 24 ply rating such as:
 Michelin G20XPR22-LRM
 Goodyear Hard Rock Lug Xtra Wall Carrier
 or equivalent
120 psi

LIGHTING

Head / tail lights / turn signals each end
Backup lights / alarm each end
Flashing beacon and spotlight each end
Interior / clearance lights
Exterior (work) clearance lights

SERVICE CAPACITIES

Engine Oil (w/filter)	18 Quarts
Fuel Tank	55 Gallons
Cooling System (antifreeze to 0°F)	24 Quarts
Hydraulic Reservoir	60 Gallons
Planetaries	50 Ounces

TOW FITTINGS

One on each end - unit can be towed from either end.

TRANSFER SYSTEM (moves barrier laterally from lane to lane)

1. Infeed (pickup) section - engages barrier and lifts from road
2. Infeed transfer (turn) section - moves barrier through radius to diagonal path
3. Middle transfer section - transports barrier across roadway
4. Outfeed transfer (turn) section - realigns barrier to path parallel to original position.
5. Outfeed (pickup) section - lowers unit to pavement and releases barrier segments

CAPSTAN SYSTEM

Hydraulically powered system controls movement of barrier during transfer. It is mounted on the middle transfer section with controls at each end.

LATERAL MOVEMENT

The transfer system is attached to a hydraulically adjustable transfer frame set in steel ways. Transfer widths can be made from 4 to 18 feet. Transfers can be made at speeds of up to 5 mph. Tight radii, steep grades, or other special conditions will reduce operating speeds.

VERTICAL MOVEMENT

Hydraulics in the wheel column allow the entire TTM to be adjusted vertically. Barrier can be lifted up to 15 inches above the road bed allowing them to be placed on or taken off a raised curb or median. The TTM was not designed to pick up or set units at minus elevations (below road bed).

TRANSPORT SYSTEM (moves sections of barrier down the roadway)

The TTM-3 was designed to:

1. Carry 15 segments (approximately 50 feet) at one time.
2. Attain maximum speed when fully loaded of 5 mph, unloaded, 20 mph.
3. Pickup sections of barrier from road bed to a minimum height of 15 inches (optional).

STANDARD EQUIPMENT

Standard equipment includes all of the preceding (unless otherwise noted) and:

Operator station each end with seats, seat belts, controls

Front steering guide

Rear laydown guide wheel

Pickup sections (2)

Turn sections (2)

Emergency tow bar

OPTIONAL FEATURES

Canopy

4 wheel drive

Intercom

Additional filtration

For further information on the TTM Model 3, or to discuss your specific needs, please call or write Barrier Systems Inc.