



Model 5R

Heavy-Duty Performance for Today's Rail Demands

The Model 5R Switch Machine delivers modern design, operational efficiency, and heavy-duty durability – engineered to meet the evolving performance demands of today's rail networks.



KB SIGNALING™

Model 5R Mainline Switch Machine

Key Benefits

- Hand Throw Lever
- 20 or 110 VDC
- 3-wire motor control
- Eliminates floating of lock rod required for 90-day circuit controller test (Fast Test)
- Drop-in replacement for GRS or M23 layouts
- With 4000 lbs throwing force, Model 5R easily moves either rigid trackwork or long turnouts with helper systems
- In-hand and throw mode correspondence and locking are achieved
- Split camber design prevents against “shaved” lock rods
- Modular subcomponent layout reduces replacement downtime
- Mechanical latch-out



General Description

The Model 5R is the next-generation of KB Signaling mainline switch machines. Model 5R offers a contemporary solution for today's rail transport demands. KB Signaling has created a product where significant attention has been placed on reducing FRA test times, and lessening workforce challenges related to switch machines.

Customer Benefits

Reduced Test Time

The FRA quarterly circuit controller test is simplified through an internal mechanism that eliminates the time-consuming “floating” of the lock rod. This feature reduces field test time resulting in increased track availability.

Intuitive Maintenance

The modular design simplifies product use for easy assimilation with maintainers. A maintenance free gearbox, unobstructed view of moving parts, visible correspondence contacts, and many other maintainer-friendly features make this a simple product to maintain.

Innovative Design

With the patented internal split-link cam bar, the Model 5R protects against “shaved” or worn lock rod notches. By preventing the cam bar from forcing itself through a fouled Lock Rod notch (widening the notch), failed obstruction tests are reduced. This feature allows you to correct track related adjustments before they start to wear internal machine components which can also lead to unplanned train stops.

More Power

With more available thrust than ever before, the Model 5R is an ideal solution for long turnouts, switch points plagued by extreme environments, substandard track conditions, and new rigid trackwork.

Model 5R Mainline Switch Machine

Specifications

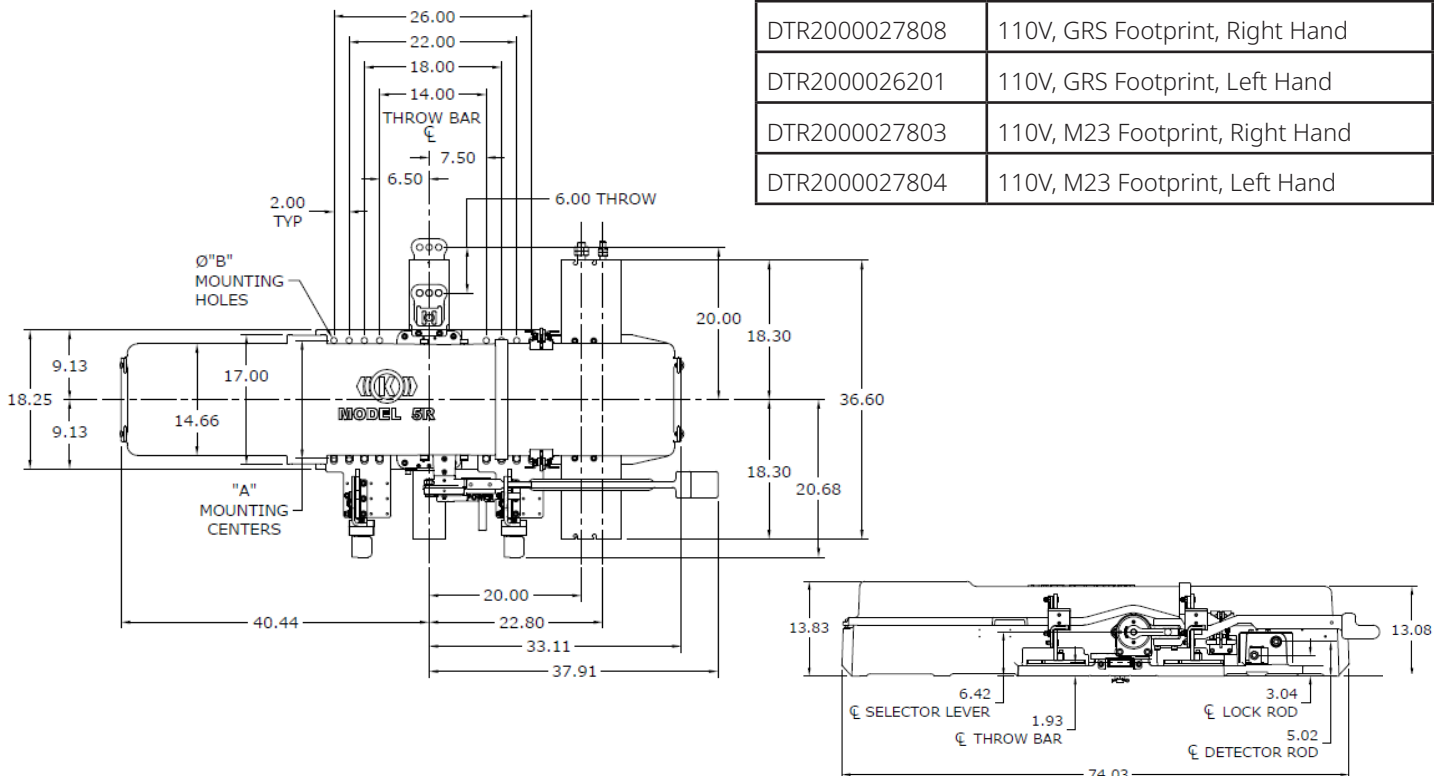
Application	Single Switch, Derail, Cross-Overs, Single Slip Switch
Motor Voltage	20-Vdc or 110-Vdc
Motor Control	3-Wire
Throw Force	5,000 lb. available thrust
Throw Distance	6 inches
Throw Time	25 sec. (20V, 435:1 Gear Ratio), 4 sec. (110V, 217:1 Gear Ratio)
Operating Current Draw	2-5 Amps (nominal)
Footprint	GRS or M23 Layout
Design Architecture	Electromechanical (no electronics)
Clutch Settings	Mechanical friction disk (adjustable for overload relay)
Heaters	Included (24 and 110 V)
Operating Temperature	-40°C to 70°C
Weight	1,100 pounds

Footprint And Mounting Options

FOOTPRINT	"A" (CENTERS)	"B" (HOLE SIZE)	NORMAL BOLT
GRS	15.50	0.813	3/4
M23	16.00	0.938	7/8

Ordering Information

DTR2000027811	20V, GRS Footprint, Right Hand
DTR2000027812	20V, GRS Footprint, Left Hand
DTR2000026139	20V, M23 Footprint, Right Hand
DTR2000026138	20V, M23 Footprint, Left Hand
DTR2000027808	110V, GRS Footprint, Right Hand
DTR2000026201	110V, GRS Footprint, Left Hand
DTR2000027803	110V, M23 Footprint, Right Hand
DTR2000027804	110V, M23 Footprint, Left Hand



Contact your KB Signaling Business Development Manager
Call 1-800-825-7090, or Email us at aso.techsupport-kb@alstomgroup.com for more information today.

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