

# Toll

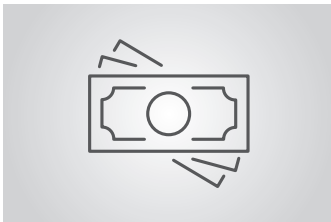
## Toll barrier



### For rapid toll processing

Rapid, reliable, and economical processing of vehicles is essential when collecting toll charges at bridges, tunnels and on roads. Toll series barriers from Magnetic have been specially designed for this situation. The innovative MHTM™ drive at the heart of the barriers is characterized by its speed, lack of maintenance and energy efficiency, thus keeping long-term costs down. The Toll barriers can be adapted to meet individual requirements: there are five models with opening times

of from 1.3–0.3 s, which can be equipped with a variety of control devices, flanges and barrier arms. All barrier packages are provided with a swing-away flange as standard. In the case of a collision with a vehicle, the barrier arm is released and can be manually re-engaged afterwards. This protects the barrier arms, vehicle, and drive unit. There is also the optional auto-return-swing-away flange for the foam barrier arms, which automatically re-engages after a collision with a vehicle.



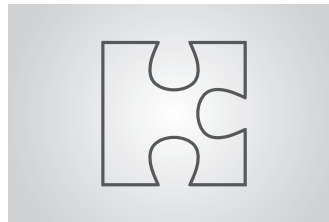
#### Effective toll processing

Toll barriers from Magnetic are the optimum solution for all toll applications thanks to their speed, reliability and low operating costs. Thanks to their high energy efficiency, extremely long service lives, and simple maintenance, barriers from Magnetic are particularly cost-effective – an investment that will certainly pay off!



#### Innovative drive technology

The MHTM™ drive unit operates energy-efficiently, quietly, and maintenance free. Its high torque ensures best possible operation even under extreme weather conditions.



#### Individual configuration

Five models, three control units, three different barrier arm types – the Toll barriers can be individually adapted to your requirements. Our staff can help you figure out which configuration best suits your application.



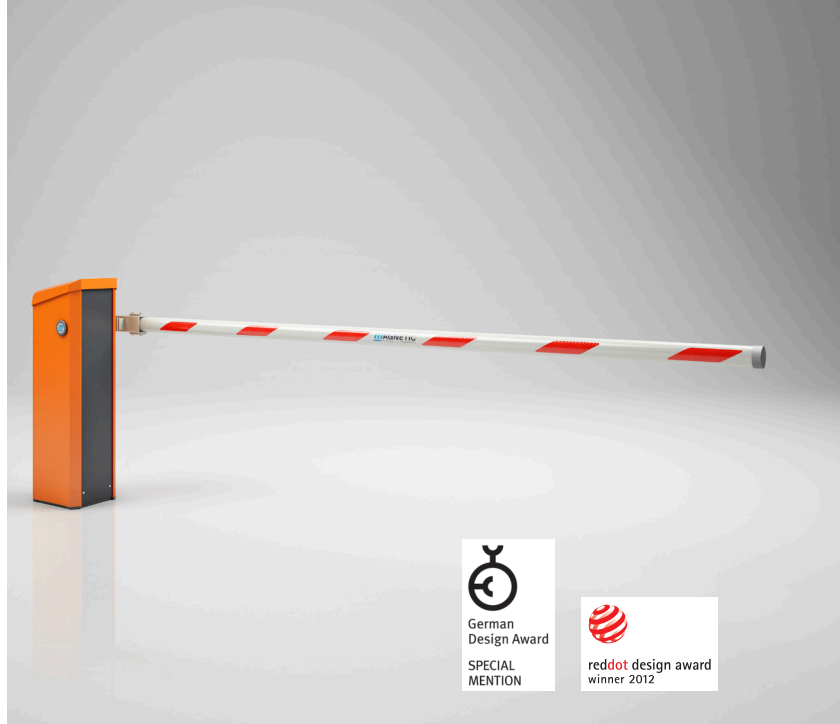
#### Easy access to components

Two simple steps: control systems and the drive unit are easily reached by removing the top cover and front plate. This increases user-friendliness and accelerates commissioning and service.

# Toll

## Toll barrier


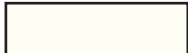
- > Opening and closing times as fast as 0.3 s
- > Very low operating costs thanks to the efficient and durable MHTM™ drive
- > Ease-of-use and optimum accessibility thanks to well thought-out design
- > Acclaimed design: German Design Award 2014 and red dot design award 2012
- > Designed for 10 million opening and closing cycles




Technical Data	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
Barrier width	max. 12 ft	max. 10 ft	max. 10 ft	max. 10 ft	max. 12 ft (with 2 barriers)
Opening/closing time	1.3 s	0.9 s	0.7 s	0.6 s	0.3 s
Power consumption	max. 95 W	max. 95 W	max. 225 W	max. 320 W	max. 450 W (ea.)
Drive technology	MHTM™	MHTM™	MHTM™	MHTM™	MHTM™
Voltage	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz
Duty cycle	100 %	100 %	100 %	100 %	100 %
Housing dimensions (W x D x H)	12.4 x 14.2 x 43.9 in	12.4 x 14.2 x 43.9 in	12.4 x 14.2 x 43.9 in	12.4 x 14.2 x 43.9 in	12.4 x 14.2 x 43.9 in
Enclosure rating	IP 54	IP 54	IP 54	IP 54	IP 54
Temperature range	-22 - +133 °F	-22 - +131 °F	-22 - +131 °F	-22 - +131 °F	-22 - +131 °F
Weight	approx. 92.6 lb	approx. 92.6 lb	approx. 94.8	approx. 97 lb	approx. 97 lb

Features	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
Standard color	RAL 2000, RAL 9010	RAL 2000, RAL 9010	RAL 2000, RAL 9010	RAL 2000, RAL 9010	RAL 2000, RAL 9010
Barrier arm type	3 models available	3 models available	3 models available	3 models available	2 models available
Control system	3 models available	3 models available	3 models available	MGC w/o loop detector	MGC w/o loop detector
Number of digital inputs	8	8	8	8	8
Number of relay/digital outputs	6/4	6/4	6/4	6/4	6/4
Closing speed	adjustable	adjustable	adjustable	adjustable	adjustable

Control systems	MGC without loop detector	MGC with loop detector	MGC Pro
2 detector channels		✓	✓
Adjustable inputs/outputs			✓
3 opening speeds			✓

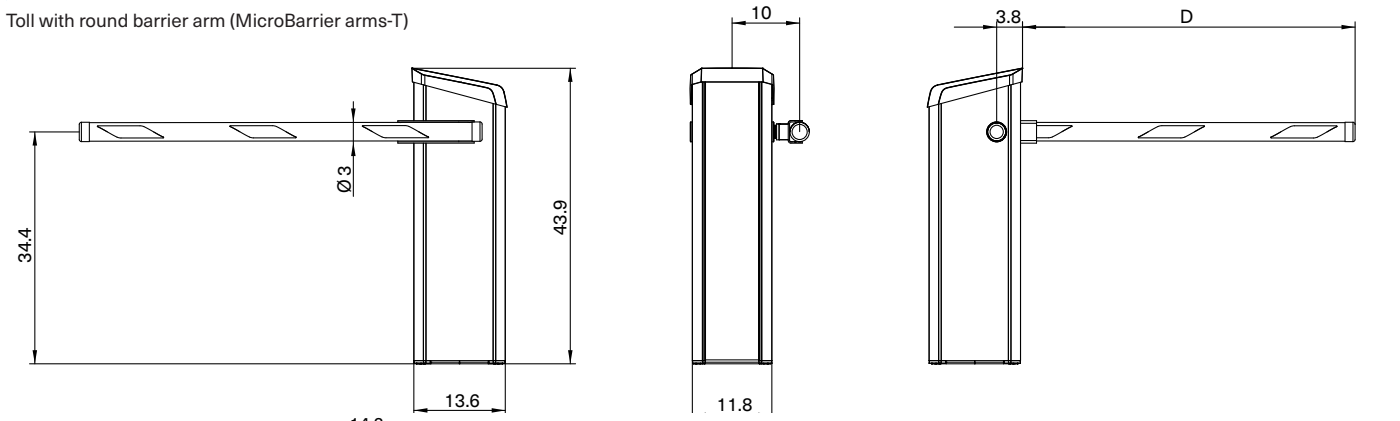
Standard barrier colors	
	Orange (RAL 2000)
	White (RAL 9010)

Standard door color	
	Black-Grey (Anthracite) (similar to RAL 7021)

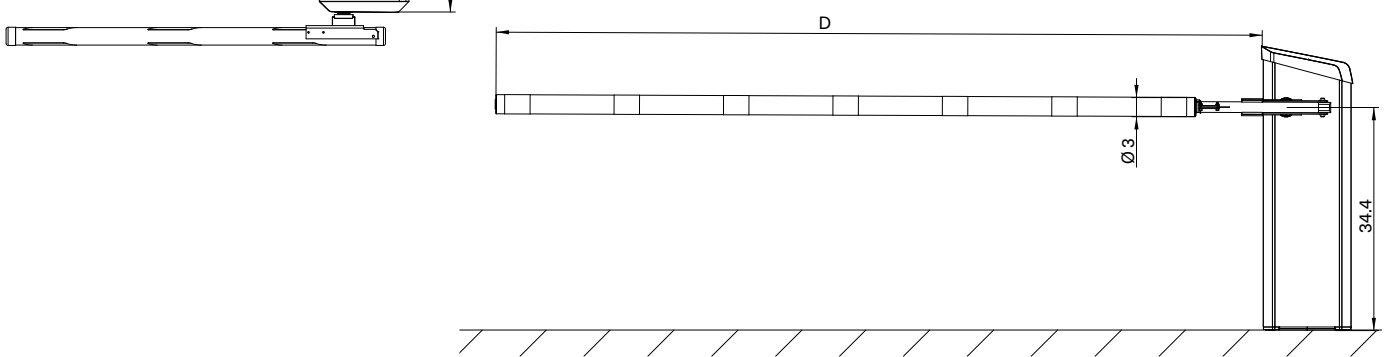
Options	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
Special colors	✓	✓	✓	✓	✓
Round barrier arms (MicroBarrier arms-T) (D=)	up to 10 ft	up to 10 ft	up to 10 ft	up to 10 ft	up to 6 ft
Octagonal barrier arms (MicroBarrier arms-S) (D=)	up to 12 ft	up to 8 ft	up to 8 ft	up to 8 ft	
Foam barrier arm (MicroBarrier arms-AT) (D=)	up to 10 ft	up to 10 ft	up to 10 ft	up to 10 ft	up to 6 ft
Swing-away flange	all barrier arms	all barrier arms	all barrier arms	all barrier arms	all barrier arms
Auto-return-swing-away flange	only foam barrier arm	only foam barrier arm	only foam barrier arm	only foam barrier arm	only foam barrier arm
Barrier arm presence sensor	✓	✓	✓	✓	✓
Warning lights	✓	✓	✓	✓	✓
Hood lights	✓	✓	✓	✓	✓
Key-operated switch	✓	✓	✓	✓	✓
Radio module	✓	✓	✓	✓	✓
Ethernet module	✓	✓	✓	✓	✓
RS485 module	✓	✓	✓	✓	✓
CAN module (counting)	✓	✓	✓	✓	✓
Second detector module	✓	✓	✓	✓	✓
GSM module	✓	✓	✓	✓	✓
Photoelectric light barrier	✓	✓	✓	✓	✓
Battery backup	✓	✓			

## Dimensional drawings

Toll with round barrier arm (MicroBarrier arms-T)



Toll with soft barrier arm (MicroBarrier arms-AT)



# Access to Progress

Magnetic stands for pioneering products – in every way. Our access control systems for vehicles or pedestrians clear the way for thousands of people every day – at car parks, toll gates, stations, airports and in buildings. Our technology is also pioneering, however: with innovative drives, intelligent control systems and well thought-out details it provides maximum safety and longevity. Are you also on the path to Magnetic?



## Vehicle barriers

Access barriers  
Parking barriers  
Toll barriers  
Traffic barriers  
Special barriers



## Pedestrian gates

Turnstiles  
Swing gates  
Tripod gates  
Retractable gates  
Wing gates



## Terminals

Cars  
Trucks

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