



VELOCITY RAPTOR

AUTOMATIC TYRE SPIKE INDUSTRIAL VEHICLE BARRIER WITH SWIFTDRIIVE

- Benefit from the reliability of the latest SwiftDrive® technology
- Secure vehicle access control solution together with a visual deterrent to any would be criminal
- High speed operation with low power consumption
- Integrated OPTIC LED light strip for maximum visibility, safety and aesthetics
- Built-in battery backup
- Compact cabinet design
- Counter balance compression springs
- Articulated arm kit fitted below barrier arm for maximum height clearance
- 100% duty cycle
- Unlimited number of daily operations
- Patent pending design



APPLICATIONS

- Suited for applications requiring high volume access and high levels of security
- Used extensively in applications such as parkades, shopping malls, residential estates, office parks, toll gates, factories, warehouses and mines

DESIGNED FOR

- Interior and exterior installations
- Severe operating conditions

AVAILABLE CONFIGURATIONS

- With 3m, 3.5m, 4m, 4.5m, 5m, 5.5m and 6m octagonal barrier arm
- Articulated arm kit for low ceilings
- Recessed and surface mount spike rack design

SECURITY RATING



UNIQUE FEATURES OF THE VELOCITY VEHICLE BARRIER

RELIABLE TECHNOLOGY

- 100% duty cycle – suitable for high volume applications
- Two SwiftDrive® brushless DC motors with planetary gearbox
 - High speed operation (a number of adjustable raise and lower speed settings)
 - Seamless precise speed control with dynamic braking and slow stop
 - Intelligent collision detection and mid cycle auto-reverse
 - Highly reliable, highly efficient and high power-to-volume ratio 100W motor
 - Large torque output over a vast speed range
 - Brushed DC motors are limited to a 10 000 hour life span (+/- 500 000 operations) as the brushes are always in contact with the rotor shaft, unlike brushless DC motors which do not have any brushes and do not have that limitation)
 - No worm gear which is prone to severe wear
 - No proximity sensors or microswitches required for positioning

DURABLE FEATURES

- Barrier arm and spikes are driven by two separate motors - no long linkages which are prone to failure
- Three stage interlinked opening and closing procedure - preventing mishaps where a vehicle drives underneath the barrier arm before the barrier arm is in the raised position and before the spikes have lowered fully
 - Opening procedure:
The spikes lower, the barrier arm raises and the OPTIC LED barrier arm changes to green
 - Closing procedure:
The OPTIC LED barrier arm changes to red, the barrier arm descends and then the spikes rise
- Embedded microcontroller
- Relay output for raised and lowered positions
- Integrated dual safety loop detector (one detector can also be allocated for free exit)
- 4.5A power supply – barrier is run from the power supply, not battery driven as batteries can become exhausted over time
- Built-in battery backup (7Ah) with battery protection
- Can operate with a solar powered system
- Slim, low profile cabinet (272mm x 256mm)
- Adjustable compression springs for barrier arm balancing – no tension springs used
- Easy change of handing – can be done effortlessly in under five minutes
- Wireway through centre of shaft for LED light strip or barrier arm impact detection safety edge
- Harmonic motion drive arm mechanism
- Mechanical locking in the secure position
- Effortless mechanical override for manual operation - release of barrier arm and spike to allow traffic to pass
- Sturdy octagonal barrier arm with integrated LED light strip, diffuser and red reflective tape
- Available in powder coated mild steel and 3Cr12 stainless steel, brushed 304 and 316 grade stainless steel
- Rack supplied in hot dip galvanised mild steel for ultimate longevity

GUARANTEED MANUFACTURED TO LAST

- 24 month guarantee

TECHNICAL SPECIFICATIONS

INPUT VOLTAGE	100V – 240V AC ±10% at 50Hz
DRIVE	SwiftDrive®
MOTOR DETAIL	BLDC, 24V DC, 100W (two units)
GEARBOX	Planetary
MOTOR POWER SUPPLY	27.6 V DC, 4.5A, 120W
DUTY CYCLE	100% - rated for continuous non-stop operation
BARRIER ARM LENGTH	3m, 3.5m, 4m, 4.5m, 5m, 5.5m and 6m
OPENING SPEED	<ul style="list-style-type: none"> • 3m - 2.8 seconds • 4m - 3.7 seconds • 5m - 4.2 seconds • 6m - 4.7 seconds
CABINET WEIGHT	80kg
SPIKE WEIGHT	41kg per metre
RAMP WEIGHT	50kg per metre
BARRIER ARM DETAIL	86mm x 43mm, 1.5mm wall thickness, powder coated white aluminium with red reflective tape and integrated RGB LED
BARRIER ARM WEIGHT	1.5kg per metre
MANUAL OVERRIDE	Secure internal easy-pull lever arm
OPERATING TEMPERATURE	-15°C to +60°C
POWER FAILURE OPERATION	Two 12V 7Ah batteries
COLLISION DETECTION	Motor embedded hall sensors
SAFETY CONTROL	Dual channel safety loop detector and input for any external sensor
SYSTEMS INTEGRATION	<ul style="list-style-type: none"> • Integrates with all access control, ticketing and time & attendance systems • Triggered through a normally open dry contact • Free exit loop feature built-in as standard
RELAY OUTPUTS	Open and closed relay outputs
CABINET FINISH	<ul style="list-style-type: none"> • Mild steel with UV resistant exterior grade powder coat • 3Cr12 stainless steel with UV resistant exterior grade powder coat ∞ * • 304 grade brushed stainless steel • 316 grade brushed stainless steel * <p>∞ A variety of colours are available on request * Suitable for corrosive environments</p>

ACCESSORIES

SAFETY	<ul style="list-style-type: none"> • Dual channel loop detector (integrated as standard) • Infrared beam transmitter and receiver kit (10m range) • Photoelectric, diffuse sensor (3m range) - non-invasive
OPTIONAL EXTRAS	<ul style="list-style-type: none"> • High security Mul-T-Lock for the barrier door • Traffic light (LED type) • Flashing/Solid courtesy light fitted on cabinet (activated when barrier is in use) • Single or double pushbutton in plastic housing • One button or three button remote control transmitter and receiver • Card drop box (intelligent and unintelligent types) • Reader and camera mounting boxes (special designs to customer specifications) • Car and car/truck goosenecks with optional weather cowls
BARRIER ARM ACCESSORIES	<ul style="list-style-type: none"> • Articulated arm kit (folding arm kit) for low ceilings (fitted under the barrier arm for maximum height clearance)

COLOUR EXAMPLES

BRANDED



WHITE / BLUE

YELLOW / RED

STAINLESS STEEL

WRAPPED FINISH

FULL RAL COLOUR RANGE IS AVAILABLE

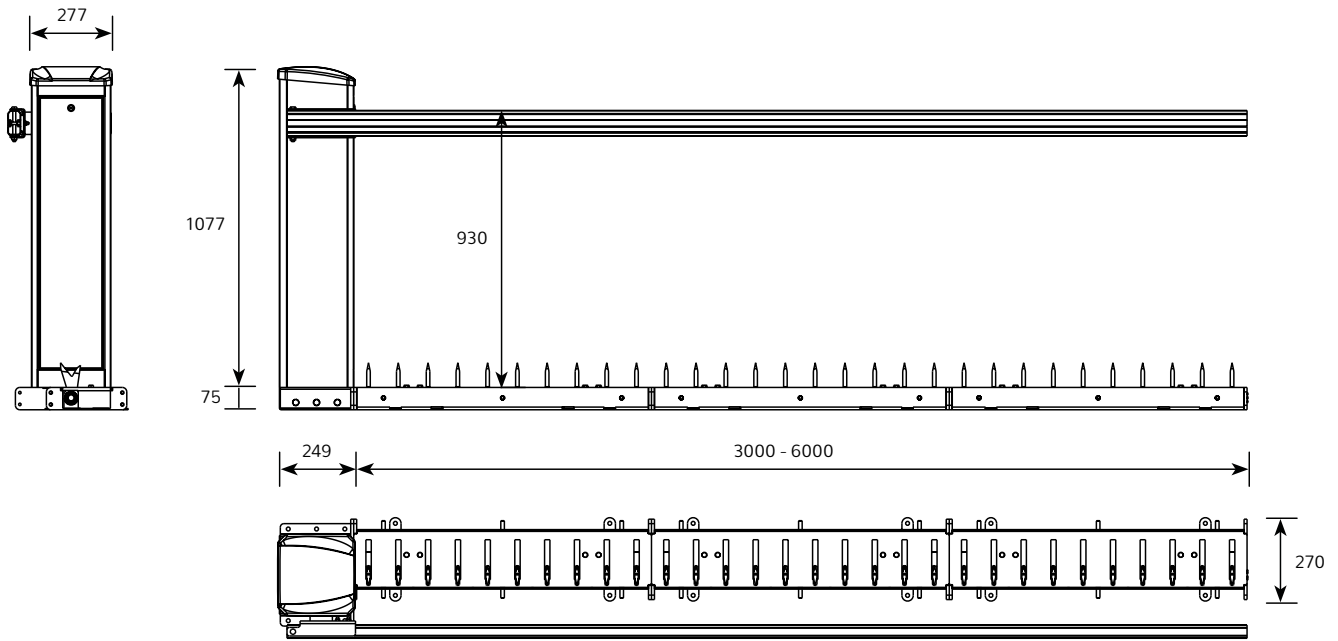
CUSTOMISED WITH YOUR BRANDING

NEW INTEGRATED OPTIC LED BARRIER ARM

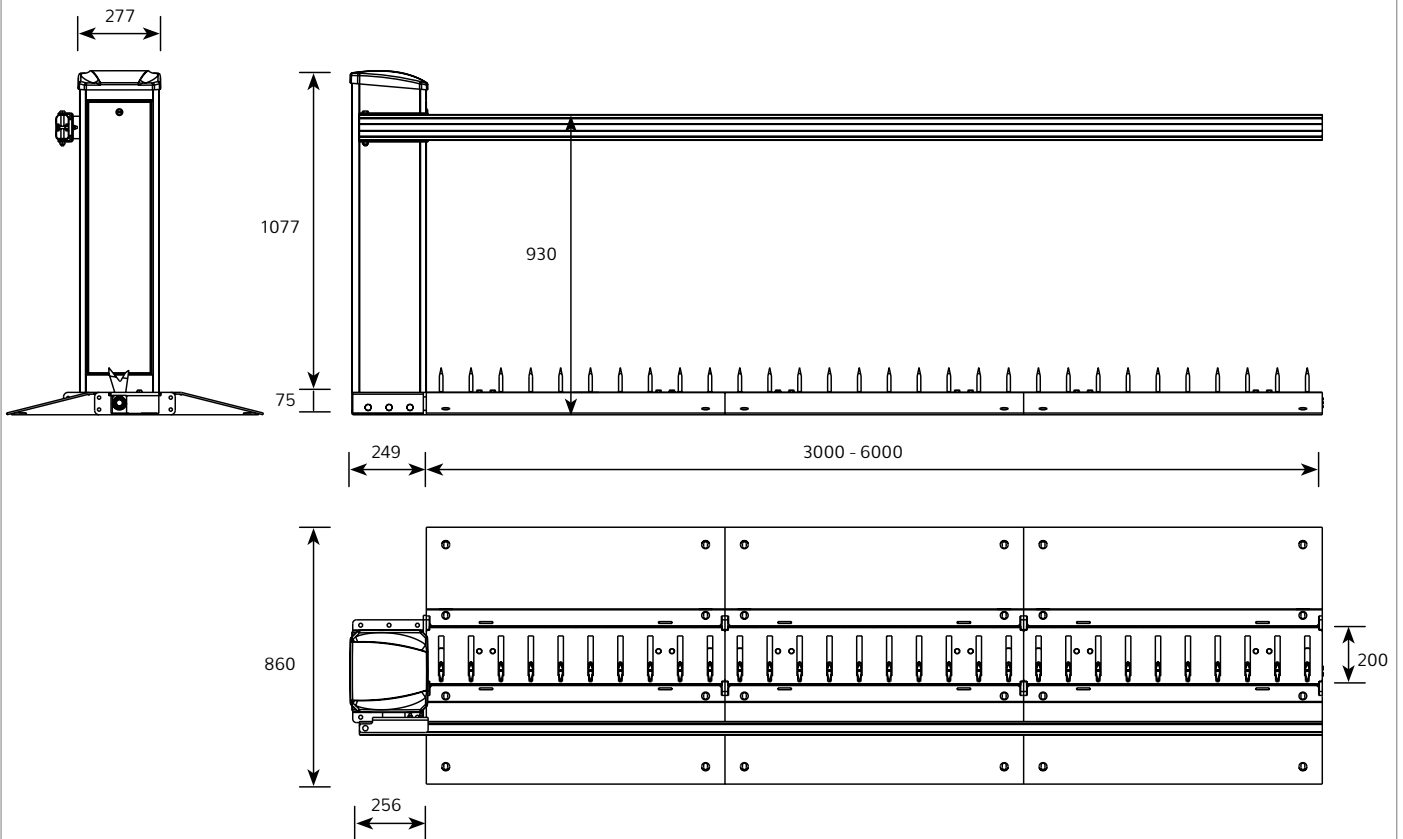


VELOCITY RAPTOR VEHICLE BARRIER RANGE

RECESSED DESIGN



SURFACE MOUNT DESIGN



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RELIABLE ★ DURABLE ★ GUARANTEED

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