



WESTMINSTER

INTERNATIONAL LTD

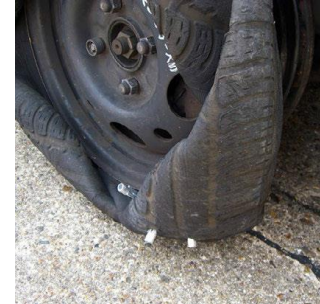
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WG Wrap and Roll Spike



The WG Wrap and Roll Spike design works on all vehicle's types from ordinary SUV vehicles to HGV's and heavy plant type vehicles, unlike hollow type or solid type spikes the this has a fluted design that makes a large and deep puncture in the target vehicle tyres and ensures 3 points of controlled deflation per spike.

The unique design of the Wrap & Roll system has the added benefit of being extremely fast and easy to deploy with minimal training.

Due to the compact size of the unit it can be carried in the front of the chase vehicle without having to first retrieve in from a specially make rack in the boot of the vehicle.

It can be carried in a backpack or even attached to a webbing belt which is useful for military or on foot tactical uses.

Several live tests were carried out on a range of different front and rear wheel drive vehicles at speeds of 40mph, 60mph and 70mph. In all cases it was clearly demonstrated that post impact with the device the vehicles were brought under control within a very short distance without the target vehicle losing its ability to negotiate turns successfully and without any additional risk to the occupants.

Safety Record

Across the UK, US and around the world, through thousands of successful stops, there has not been a single reported adverse incident, A 100% safety record. All units are provided with comprehensive training videos and manuals, and all systems are available in training versions using neoprene spikes. This is not available for sale to the general public, only Police, Military or Government agencies are eligible. In certain circumstance civilian organisations engaged in security operations are also considered.

Run Flats

Whilst no-one can guarantee the success against run flats with any tyre deflation system, this system has demonstrated both in the UK and the US that with proper coordination of force assets the damage imparted on a run flat by this system is such that if the target vehicle if corralled or forced into a series of turns the target vehicles run flat tyres are compromised after one or two miles of pursuit.

Trails and Testing

Tests carried out by the UK Home Office in the presence of other Police organisations at showed that WVG Spike was extremely effective in its ability to stop vehicles within a significantly shorter distance than other devices whilst at the same time not compromising safety or controllability of the target vehicle. Thereby demonstrating its ability to offer much greater predictability over the vehicle's stopping distance and enable Police Forces greater ability to contain the target vehicle in a live situation.

Several live tests were carried out on a range of different front and rear wheel drive vehicles at speeds of 40mph, 60mph and 70mph. In all cases it was clearly demonstrated that post impact with the device the vehicles were brought under control within a very short distance without the target vehicle losing its ability to negotiate turns successfully and without any additional risk to the occupants.

Motorways

In response to requests from the UK Police the system is now available in a 12m/40ft system designed for use on Motorways and wide dual carriageways. The additional length means Police units can now effectively close all lanes of a motorway with a single system.

The 40ft a system currently is use in the UK are also now used throughout Europe and the Middle East successfully ending pursuits.



Placing a Claw

The 2 1/2" patented spikes come in a collapsible folding case that is laid flat under the tyre of the stationery car at a check point or in a situation where the driver of a vehicle has been stopped for questioning.

The pocket-size twin spikes placed under a stationery vehicle's tyre deflates the tyre if the vehicle moves. The spikes are released into the tyre from the Claw.

Penetrating and deflating the tyre, preventing the driver from fleeing and initiating a high-speed chase. The Claw will totally deflate the tyres helping to contain and control what could otherwise turn into a potentially dangerous situation.



Specification Model WG12

- Case Type – Ballistic Nylon Wrap
- Deployed Length - 12 ft / 3.66m
- Dimensions in Case – 48cm x 19cm (roller)
- Number of Spikes – 120 Cast Alloy
- Shipping Dimensions – 50cm x 20cm x 20cm
- Shipping Weight – 5.9kg
- Spike System Weight – 4.2kg



Model WGS16 (Training System)

- Case Type – Standard Nylon Wrap
- Deployed Length – 16 ft / 4.87m
- Dimensions in Case – 48cm x 19cm (roller)
- Number of Spikes – 160 Durable Rubber
- Shipping Dimensions – 50cm x 20cm x 20cm
- Shipping Weight – 4.5kg
- Spike System Weight – 4.2kg



Model WG40

- Deployed Length – 40 ft / 12.19m
- Case Type – Ballistic Nylon Wrap
- Dimensions in Case – 48cm x 30 cm (rolled)
- Shipping Dimensions – 50cm x 32cm x 32cm
- Spike System Weight – 12kg
- Shipping Weight – 12.5kg
- Number of Spikes 400 Cast Alloy



Specification Model WG16

- Deployed Length – 16 ft / 4.87m
- Case Type - Ballistic Nylon Wrap
- Dimensions in Case – 48cm x 19cm (roller)
- Shipping Dimensions – 50cm x 20cm x 20cm
- Spike System Weight – 5.9kg
- Shipping Weight – 7.25kg
- Number of Spikes – 160 Cast Alloy



Model WG25C

- Case Type – Hard Polymer Case
- Deployed Length – 25ft / 7.65cm
- Dimensions in Case – 79cm x 50cm x 11cm
- Number of Spikes – 250 Cast Alloy
- Shipping Dimensions – 81cm x 53cm x 13cm
- Shipping Weight – 13kg
- Spike System Weight – 10.8kg



Model WGS25 (Training System)

- Deployed Length – 25ft / 7.65cm
- Case Type – Hard Polymer Case
- Dimensions in Case – 79cm x 50cm x 11cm
- Shipping Dimensions – 81cm x 53cm x 13cm
- Spike System Weight – 10.5kg
- Shipping Weight – 11kg
- Number of Spikes – 250 Durable Rubber

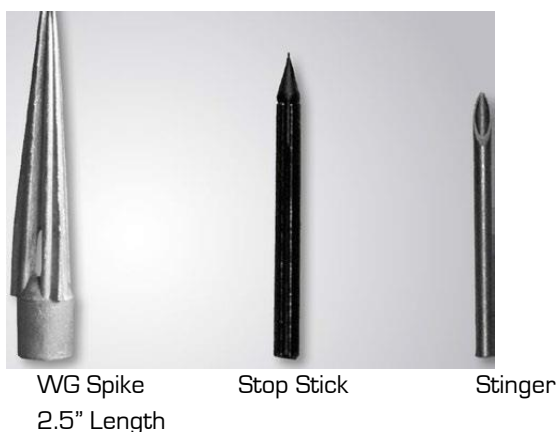


Standard Features

- Superior spike penetration stops all tyres
Pursuit proven - every hit is a 'safe & swift' stop
- Competitively priced so your entire fleet can be equipped for a lot less
- Up to 400 Magnum choke proof spikes per unit based on deployed length of model
- Deployable from a safe distance
- Consistently successful In Home Office, NIJ & UK Police Force field tests

When seconds count, there's no time to measure the spikes in your tyre deflation device and wonder if they're up to the task. With today's tyre technology, not only the spike size, but also superior design makes the difference.

You do not need a different model for larger vehicles as required by our competition. Any of our models can stop all vehicles from small saloons to articulated HGV's.



- **Safety, Deployment, Simplicity of Use:** The key objective in designing the patented WG Spike is safety and ease of use. The system is very easy to handle and can be deployed in seconds under any weather conditions or road surfaces. It allows officers complete control of the situation without exposing themselves to dangerous traffic. 1 Many patrol vehicles place the WG16 behind the co driver's feet on the floor of the vehicle, this allows the system to be deployed seconds after the patrol vehicle stops saving valuable seconds rather than extracting the system from the vehicle boot.
- **Every Hit a Successful Stop:** The fully assembled, portable system works 100 percent under all conditions and circumstances. Every HIT is a STOP. You do not need a different model for larger vehicles. The same system can stop all vehicles from small to heavy vehicles.



Product Comparison

Feature	WG Spike WG16	Stop Stick	Stinger
Deployed length	16 ft.	15 ft. (Including one extra 3 ft. section)	15.5 ft.
Dimensions in case	19" long x 7.5' diameter-roll	3" x 3" x 36" (trunk lid rack)	20.5 " x 17.5" x 2.75"
Volume of case	693 cubic inches/0.40 cubic feet	1,026 cubic inches/0.59 cubic feet	987 cubic inches/0.57 cubic feet
Total Weight of System	12 lbs	8lbs	12lbs
Type of carrying case	Heavy duty ballistic nylon zipper case	Trunk lid fitted rack, not transferable	Plastic hare case
Base/scissor slats material	Electrometric nylon proprietary alloy	Styrofoam core wrapped in plastic	Electrometric nylon alloy zytel
[Number]	160 WG spikes	180 roll pins in 5 three-foot sections but since they face three ways, there are only 60 working quills at any one time	100 quills
[Dimensions]	2.5" long with 3 sharp-cornered edges, 1/2" at base	2" quill inclusive of separate tip. Body of quill is steel roll pin 0.19" outer dia., 0.11" inner dia.	1.75" long x 0.14" outer dia, 0.11" inner dia.
[Material]	Rustproof metal alloy	Steel	Stainless steel
[Shape]	Engineered, 3-cornered, elongated pyramid	Tubular split quill, in reality a roll pin with separate conical tips	
[Clogging or choking]	Patented clog-proof design	Won't clog	Definite possibility of clogging
[Ability to deflate tyres]	Will deflate tyres with total thickness of tread and casing up to 2.5"	Should deflate tyres if total thickness of tread and casing is under 2"	Should deflate tyres if total thickness of tread and casing is under 1.75"
[Ability to stop speeding vehicles with run-flat tyres]	Designed for large air escape & engineered to cut up tyres. Stops all tyres, including run-flats	Distance between quills being 3" reduces the possibility of the quill lodging in the critical side wall area of run flats	Minimal at best on run-fl at tyres
Replacement Spikes	50 spikes with 50 holder retainers, stainless hardware & 50 protective caps	Not applicable	10 quills with compression sleeves, tip guards, and special tool
Deployment rope or cord	45 ft. of 150 lb. test nylon cord on reel with press button release & quick rewind	80 ft. of polyester cord on open reel	30 ft. of rope on an open spool
Assembly/ disassembly	No tools required to replace or switch spikes around	Two or more sticks destroyed at every hit	Philips screwdriver required
Multiple use ability	Will withstand multiple high speed impacts	Destroyed first time it is run over	Capable of withstanding multiple high speed impacts
Ability to replace or switch spikes in the field	No tools required to replace or switch spikes	No possibility of replacing spikes	Needs special tool to replace spikes