MagPro® by MagVenture®

Versatility in Magnetic Stimulation





MagPro® – A proven Record of Innovation



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With 7 different magnetic stimulators and 27 different coils, the MagPro line from MagVenture provides the solution to a wide range of clinical and research applications including Motor Evoked Potentials (MEP), Transcranial Magnetic Stimulation (TMS), repetitive Transcranial Magnetic Stimulation (rTMS) and Functional Magnetic Stimulation (FMS) as well as interleaved TMS/fMRI.

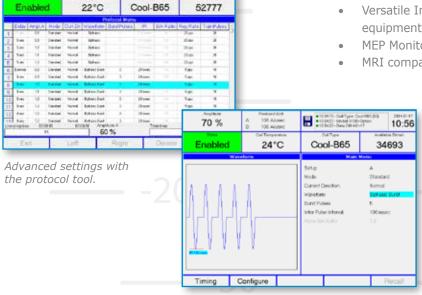
Innovation led by research cooperation

In close collaboration with leading researchers, MagVenture has developed several "first mover" features such as the Biphasic Burst stimulation, the rTMS Research System and the recent High-Performance Cooling Option which allows a higher number of repetitions and more aggressive protocols - without having to change coils.

First in class

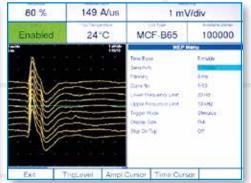
The MagPro stimulators provide all-in-one stand-alone solutions and include a number of unique and useful features:

- Automatic sequence setup and user defined protocols
- Store and retrieve setups and protocols
- Transfer data to external devices via USB or serial
- Monitor and read-out realized output, coil temperature and available stimuli
- Biphasic, Monophasic and Half Sine waveforms
- Biphasic Burst (Theta Burst Stimulation TBS) with burst pulses of equal amplitude
- Dual and Twin pulses up to 20 pps, also in repetitive mode
- Selectable current direction
- Advanced Power Pulse for 40 % additional stimulation power
- Versatile In/Out triggers for EEG, EMG and EP equipment
- MEP Monitor (optional)
- MRI compatibility.



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Biphasic Burst mode with 5 pulses in burst.



MEP mode.

Reliable Research Solutions for all your needs

Treatment Chair & Super Flex-arm The specially designed neck rest and vacuum pillow ensures stable positioning of the head. The flex-arm has 3 joints which provides an easy and flexible positioning.





The Cool-B65 A/P Coil for research studies with active and sham stimulation for double-blind trials. Includes current stimulation output to create skin sensation.



Induce neural activity into targeted cortical regions directly in the MRI scanner with the MRI-B91 coil.

Real double-blinded research studies

MagVenture's rTMS system solution for double-blinded clinical studies is ideal for multi-centre depression studies as it addresses your requirements for accuracy and consistency. It can also be used for other areas such as stroke rehabilitation.

- Specific software for MagPro offering complete study control by study master or principal investigator
- Patient codes and operator codes ensuring true double-blinding
- Combined active and placebo (A/P) coil with current stimulation
- Treatment chair with vacuum pillow for stable and comfortable head rest.

Take TMS to a new level with interleaved TMS-fMRI and TMS-EEG

MagPro stimulators and coils are designed for use in advanced research set-ups. An example is a complete turn-key solution for interleaved TMS-fMRI which can be installed in scanners up to 4T in order to meet demands for reduced RF noise, image quality, and safety.

Furthermore, MagVenture offers The External Control Program, which enables you to control the stimulator from an external PC. The external interface allows for control of amplitude as well as the enabling/disabling of the stimulator, definition of protocols, starting of trains, and triggering single stimulations. It also displays and logs the coil temperature, number of stimuli, and the realized di/dt which is exported from the MagPro stimulator.

Other solutions include TMS-EEG as well as navigation-guided TMS.

External integration made easy

Regardless of which research system configuration you use, it is easy to transfer treatment data to navigation systems and PC's and define and execute the stimulation protocol from external devices.

You decide: 7 Stimulators to Choose From

Whatever the stimulation need there is a MagPro to meet those needs. From MEP and other clinical examinations with the MagPro Compact all the way to advanced paired pulse investigations and Theta Burst protocols with the X100 with MagOption.

The "R" line meets the demands for clinical practice as well as research whereas the "X" line targets the needs within advanced research applications. The R30 and X100 stimulators are designed with demanding repetitive protocols in mind and will deliver a high number of pulses when used with the MagPro Cool Coils. The R30 and the X100 also keep operators informed about important performance parameters such as number of remaining stimuli with the coil in use and the actual power being delivered to the coil.

The MagVita Therapy System is CE approved for the "treatment of Major Depressive Disorder in adult patients who have failed to achieve satisfactory improvement from two prior antidepressants medications, at or above the minimal effective dose and duration in the current episode".

With its 5 different stimulation modes, including ramp up/down and sweep, the R100 specifically targets the rehabilitation research market.

The R20 is the basic, userfriendly solution for rTMS for customers running a limited number of sessions per day.

All models deliver more than adequate power and motor threshold is typically reached at 50-60% of maximum power.



MagPro Compact.



MagPro R20.



MagPro X100 with MagOption.

		Compact	R20	R30	R30 with MagOption	R100	X100	X100 with MagOption
Maximum Repetition Rate	5 pps	•						
	20 pps		•					200
	30 pps			•	•			
	60 pps			•*	.00			
	100 pps						•	
Pulse Mode	Standard	•	•	1.00	•	· \	_	•
	Dual/Twin			-0-	•			
	Theta Burst			• **			•	•
	Power Mode			.20				· 0
Waveform	Biphasic	•	•	• 40	•	•	•	•
	Monophasic				•			•
	Half-Sine				10			•
Current Direction	Normal/ Reverse					30	\\ •	
MEP Monitor	(Option)				•		1.	. 4
* With 60 ppg	Ontion	L						N. III-real

^{*} With 60 pps Option

^{**} With Theta Burst Option

Coil Selection Second to None

With a wide range of coil and accessories models to choose from, MagVenture covers all research and clinical applications. Unique capabilities and features include:

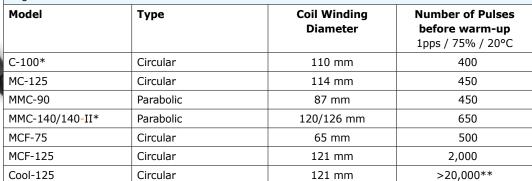
- Cool-Coil concept with external cooling unit provides from 10,000 up to 20,000 pulses when performing standard depression protocols
- High Performance Cooling Option available for all cool coils for even more aggressive protocols
- Specialized parabolic and elliptical coils for rehabilitation research
- Coil for interleaved TMS/fMRI
- Cool Coil specifically designed for the stimulation of rat brains.



The Cool-40 Rat Coil for the stimulation of rat brains.

Circular Coils

A "general purpose coil" which can be positioned over many parts of the body to stimulate a fairly large area.



Butterfly Coils

The butterfly coil is useful in focused stimulation. The two windings are placed side-by-side which enables the coil to stimulate structures with focus right under its center.

	MC-B35	Butterfly	2 x 47 mm	75	
	C-B60*	Butterfly	2 x 75 mm	350	
	D-B80	Butterfly, 120°	2 x 95 mm	500	
	MC-B65-HO	Butterfly, Orthogonal handle	2 x 75 mm	350	
	MC-B70	Butterfly, 150°	2 x 97 mm	400	
	MC-P-B70	Butterfly, Placebo	2 x 97 mm	400	
	MCF-B65	Butterfly	2 x 75 mm	2,000	
	MCF-P-B65	Butterfly, Placebo	2 x 75 mm	1,600	
	MCF-B70	Butterfly, 150°	2 x 96 mm	5,500	
6	Cool-B35	Butterfly	2 x 46 mm	300	
	cool-B65 Butterfly		2 x 75 mm	>20,000**	
-	Cool-B65 A/P	Butterfly, Active/Placebo	2 x 75 mm	>20,000**	
	Cool D-B80	ool D-B80 Butterfly, 120°		>20,000**	
	Cool-B70 Butterfly, 150°		2 x 96 mm	>20,000**	
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Special Coils

We have developed a number of special coils for our various system solutions. Custom designed coils are available as well as modifications to existing coils.

Cool-40 Rat Coil	Circular	40 mm	300***
RT-120/120 II*	Racetrack	ø80 x 160 mm	1,500
MRi-B91	Butterfly, MRI	2 x ø79/ø92 mm	500

^{*} With built-in power control.

^{**} At 2pps, 100% power, 20°C ambient temperature.

^{***} At 1pps, 70% power, 20°C ambient temperature. Requires the High Performance Cooling System.



All products are developed and manufactured in accordance with the standard ISO 13485:2003, the current EU Medical Device Directive, the Canadian Medical Devices Regulation (CMDR), US 21 CFR 820 for the USA, and in accordance with a number of additional country-specific regulations. MagPro stimulators and coils are approved as medical devices in Europe, the USA, Canada, China, Japan, South Korea, Australia, Russia, and other markets worldwide.

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Users of MagPro® stimulators and coils in the USA please note that not all stimulators, coils, and accessories are cleared for sale in the USA by the Food and Drug Administration (FDA). Please also note that in the USA transcranial magnetic stimulation is considered investigational.



World Leading Transcranial Magnetic Stimulation Systems.

MagPro is a complete line of non-invasive Magnetic Stimulation Systems, including both dedicated and general-purpose stimulators.



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