



MNH
TMS & PSYCHIATRY SERVICES

Metro NeuroHealth TMS & Psychiatry Services offers TMS therapy start up consulting and a full suite of operations services.

Our TMS specialists have over 15-years of combined experience in clinic start up, billing, contracting and credentialing.

Use this handy TMS therapy device comparison to assist you in making the best choice for your TMS clinic.





TMS Comparison Chart



FDA-APPROVED TMS DEVICE	MAGVENTURE	MAGSTIM	NEXSTIM	YINGCHI	BRAINSWAY	APOLLO	CLOUDTMS
rTMS	✓	✓	✓	✓	✓	✓	✓
iTBS	✓	✓	✓	✓	✓	✓	✓
Coil Type	Anguled Fig. 8	Anguled Fig. 8	Flat Fig. 8	Fig 8	H Coil	Flat Fig. 8	Anguled Fig. 8
Cooling System	Liquid	Air	Optional	Liquid	Air	Liquid Air Available	Liquid
MDD	✓	✓	✓	✓	✓	✓	✓
OCD	✓			Pending	✓		
Smoking					✓		
Support	★ ★ ★	★ ★	★	★	★ ★ ★	★	★
Cost	\$\$	\$\$	\$\$\$	\$	\$	\$\$	\$
Patient Mgmt System	✓	✓	✓	✓	✓	✓	✓
Navigation	✓	✓	✓				

Cooling System - Does the TMS device have a liquid based cooling system? These are the best cooling systems and allow for the machine to run efficiently and quietly without interruption.

Patient Database - It is important to keep track of each patients' treatment status and record their improvement.

No Per Session Cost - Make sure the manufacturer does not charge you a fee every time you use the machine.

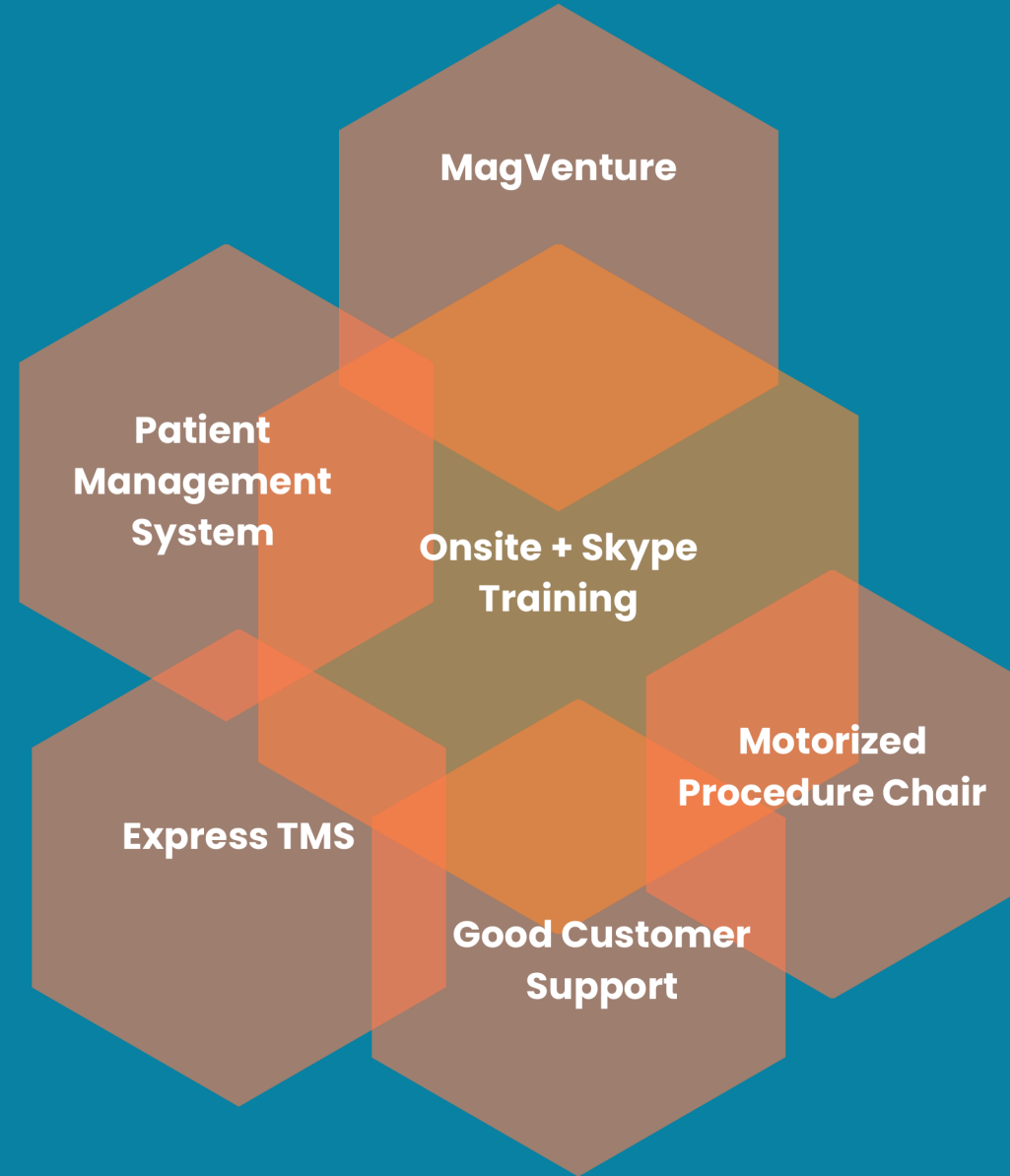
Support and Warranty - Ensure you have a reliable manufacturer who stands by their warranty. Do they answer the phone when you call? Can they offer quick repairs to ensure your practice is always up and running?

MagVenture TMS

MagVenture is one of the major two pioneers of TMS in Europe [based in Denmark]. MagVita is FDA-cleared for rTMS and iTBS. MagVenture is widely used in both the research and clinical setting throughout the U.S.

MagVenture was the first TMS device manufacturer to obtain iTBS clearance in 2018. They have FDA-clearance to treat MDD, OCD, and neuropathic pain, and their device is FDA approved for Theta burst technology. Presently, they do not offer an in-house neuronavigation system. However, you may choose to add the Brainsight or Localite neuronavigation system to their top-tier TMS system.

MagVenture uses a liquid cooling system. This makes it very fast in cooling the coil, treating patients back to back throughout the day. It is also quieter than air-cooled systems.

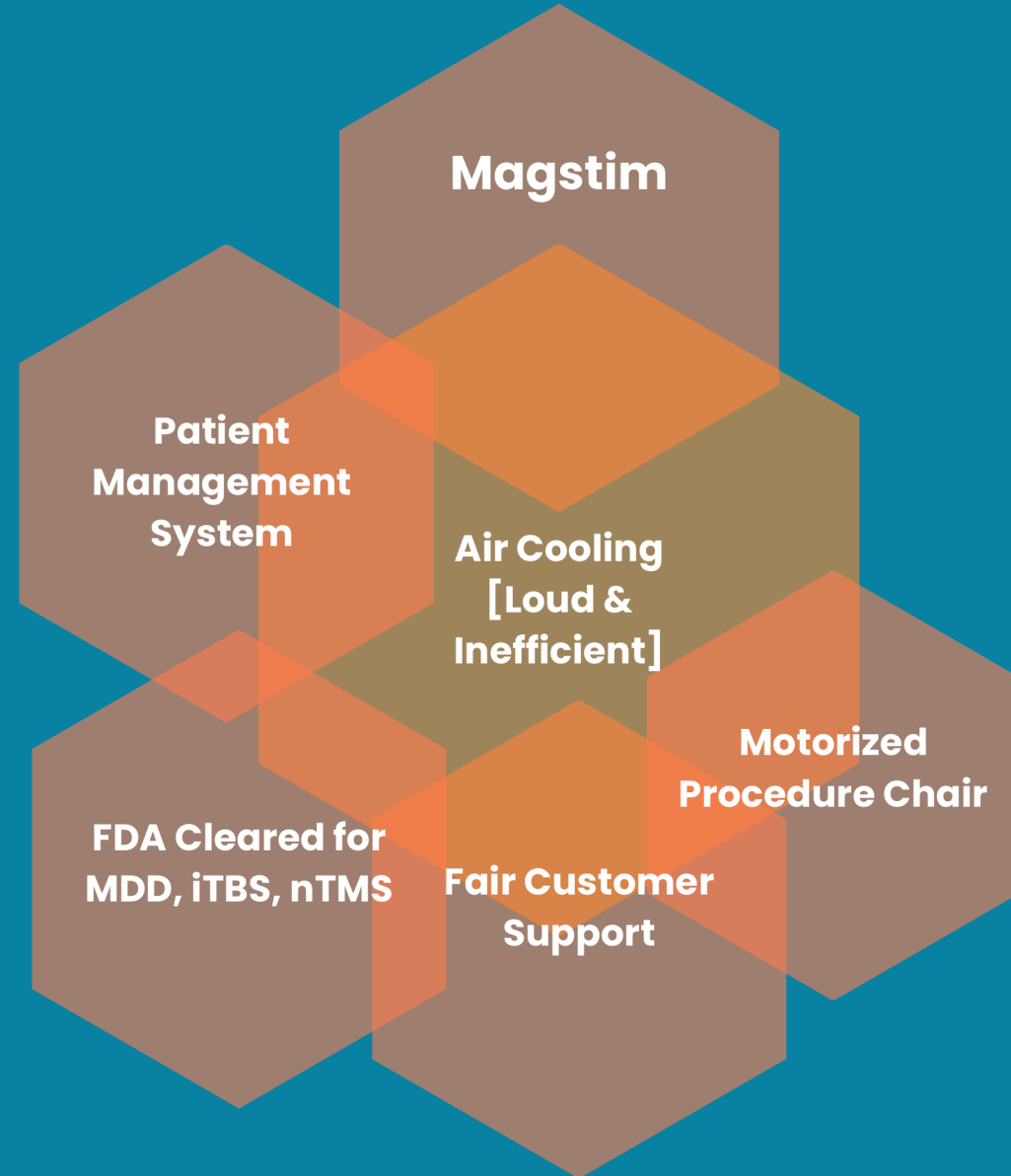


Magstim TMS

Magstim is based in the UK. Dr. Anthony Parker pioneered the first TMS machine in the UK in 1985. In 1990 MagStim's parent company made TMS commercially available.

Like MagVenture, Magstim has a history of innovation to improve their technology. Their top of the line TMS system is called the Horizon Performance with StimGuide. It is FDA-cleared for rTMS, iTBS and navigated TMS. StimGuide is Magstim's version of neuronavigation; however, it does not require an MRI. Non-MRI guided targeting is much less accurate than structural MRI guided targeting.

Magstim uses an air cooling system, which makes the unit quite loud. Air cooling is not as efficient as liquid cooling, allowing patients to be treated back-to-back for an extended period of time without overheating.

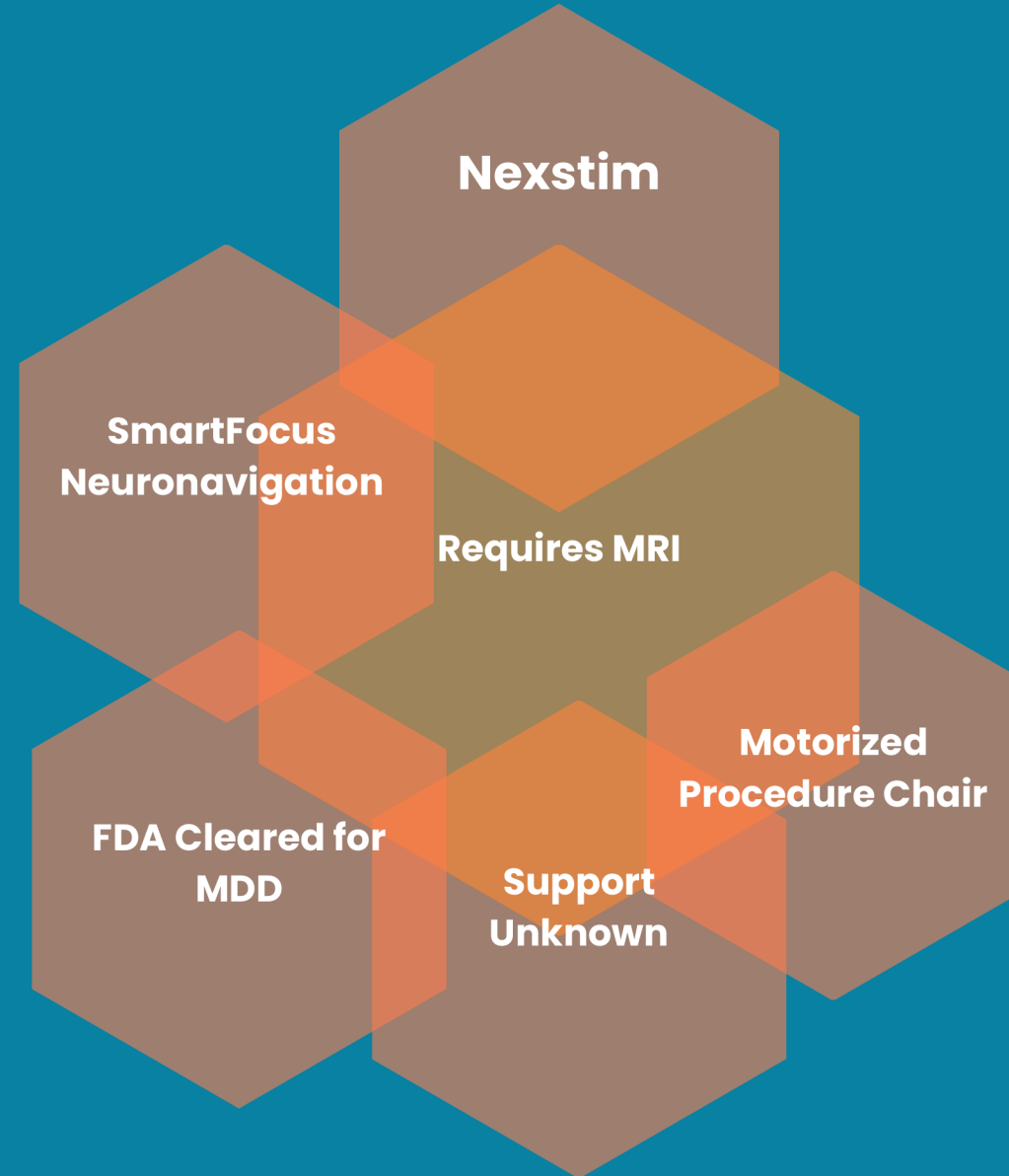


Nexstim TMS

Nexstim is an innovative TMS manufacturer based in Finland. The Nexstim SmartFocus TMS system was originally made to help Neurosurgeons with brain mapping before performing brain surgery. They brought their TMS system to the US market for depression therapy. NexStim TMS is an rTMS, iTBS, and neuronavigation TMS system that can be used in the clinical system. Nexstim markets their Smart Focus navigation system as Navigated Brain Therapy (NBT).

SmartFocus requires a structural MRI of the brain to enable the neuronavigation function. Unfortunately, obtaining an MRI is not a medical necessity to administer TMS for the treatment of depression or other FDA-approved indications at present. Therefore, insurance does not cover the MRI, which leaves the patient to pay out of pocket for the MRI.

The system does require the TMS clinic to purchase the 'head trackers' used with each patient, which can become expensive.

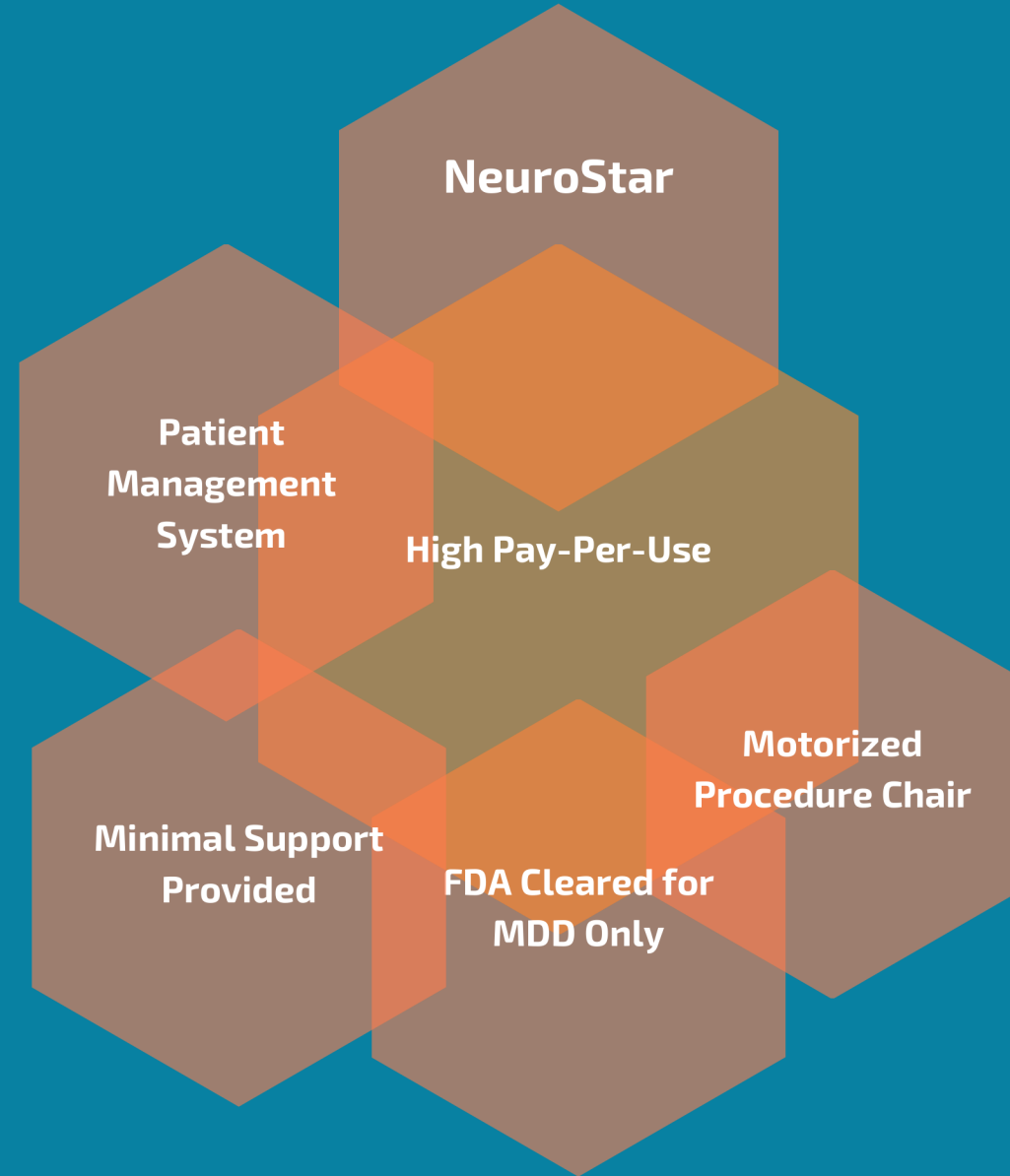


YingChi

In September 2023, the FDA authorized Brain Ultimate's Yingchi TMS system. In the field of non-invasive neuromodulation technologies, Brain Ultimate is a leader.

This company is changing therapeutic applications for many medical diseases with an uncompromising dedication to innovation, safety, and efficiency. Their innovative method is based on a patented liquid-cooling circulation system that guarantees their neuromodulation device will operate continuously and safely. This is made possible by the efficient coordination of a strong power supply, a high-conductance liquid-cooled coil, and an intelligent control module, which all work together to reduce the risk of overheating.

The YingChi TMS System is a great choice for the outpatient small practice setting, as the price is quite economical, it can be easily moved from room to room, and comes with all the bells and whistles of the more costly systems.

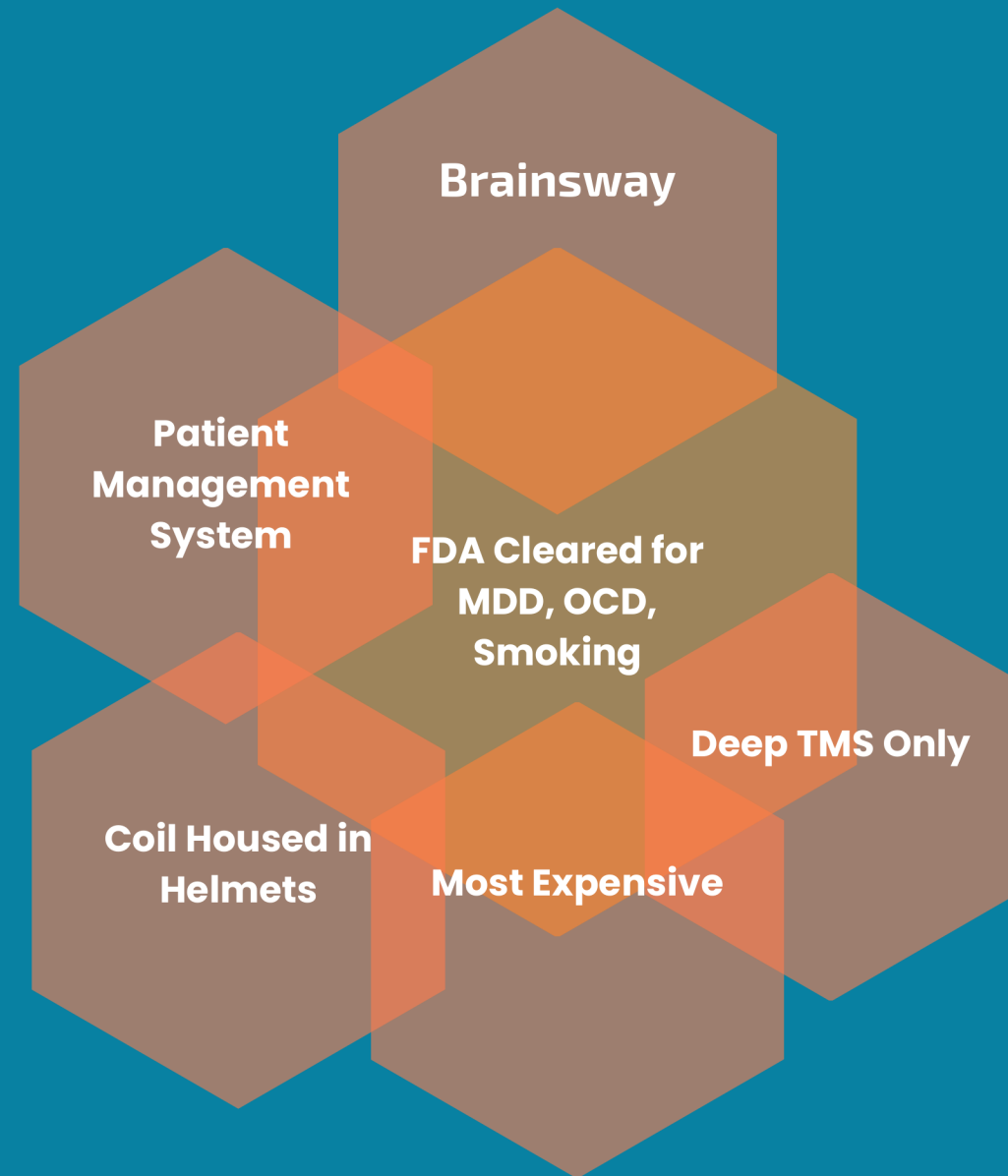


Brainsway TMS

BrainsWay is an innovative and research-oriented TMS company based in Israel, with most of their clinical trials performed in the US. BrainsWay uses the deep TMS technology [dTMS], using the H-coil. The coil is housed in a helmet that delivers [slightly] deeper stimulation. The main proposal Brainsway makes is that the stimulation is wider and deeper, thus enhancing the chance of “hitting the correct target”. However, this could also mean more energy use, which often results in greater discomfort to the patient, and possibly a higher risk of seizure when compared to the figure-of-8 coil.

BrainsWay is FDA cleared for theta burst stimulation [iTBS], OCD, smoking cessation, and depression with anxiety. However, these are not *generally* covered by insurance [as of 2024]. There are several payers that will cover TMS for OCD, but many still do not.

H coils are incompatible with any navigation systems. There is no point in using navigation for targeted treatment when you are stimulating broadly.



Apollo TMS

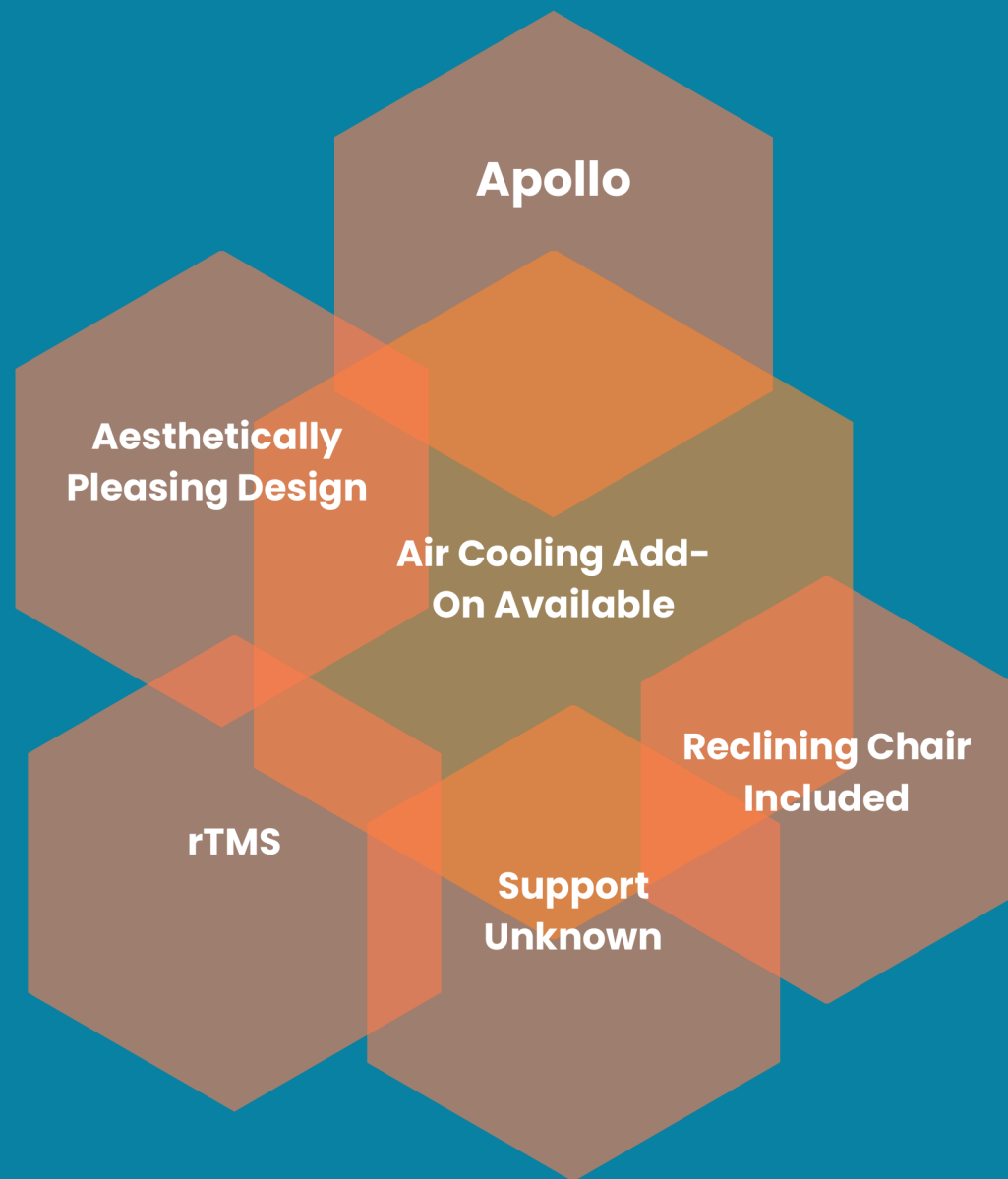
Apollo TMS is a product of Mag & More based in Germany. They are research-oriented and innovative. They make fashionable designs for the machine and the chair, and offer an aesthetically pleasing TMS device.

Apollo offers the HANS coil stabilization unit that looks great on paper but may not be so practical in the clinical setting for everyday use. However, they do offer an alternative to how their Figure 8 coil can be mounted.

Their F8 coil is relatively quiet, and the system is FDA cleared for rTMS for the treatment of depression. The device is capable of iTBS; however, they have not yet received FDA clearance for the iTBS protocol.

Apollo uses a unique coating cooling system to cool the coil between sessions. It is not very practical to have multiple sessions back to back. Recently, they added an air cooling add-on function to their coil which seems to cool it faster.

The Apollo system does not have much presence in the US, and are still working to penetrate the market.



CloudTMS

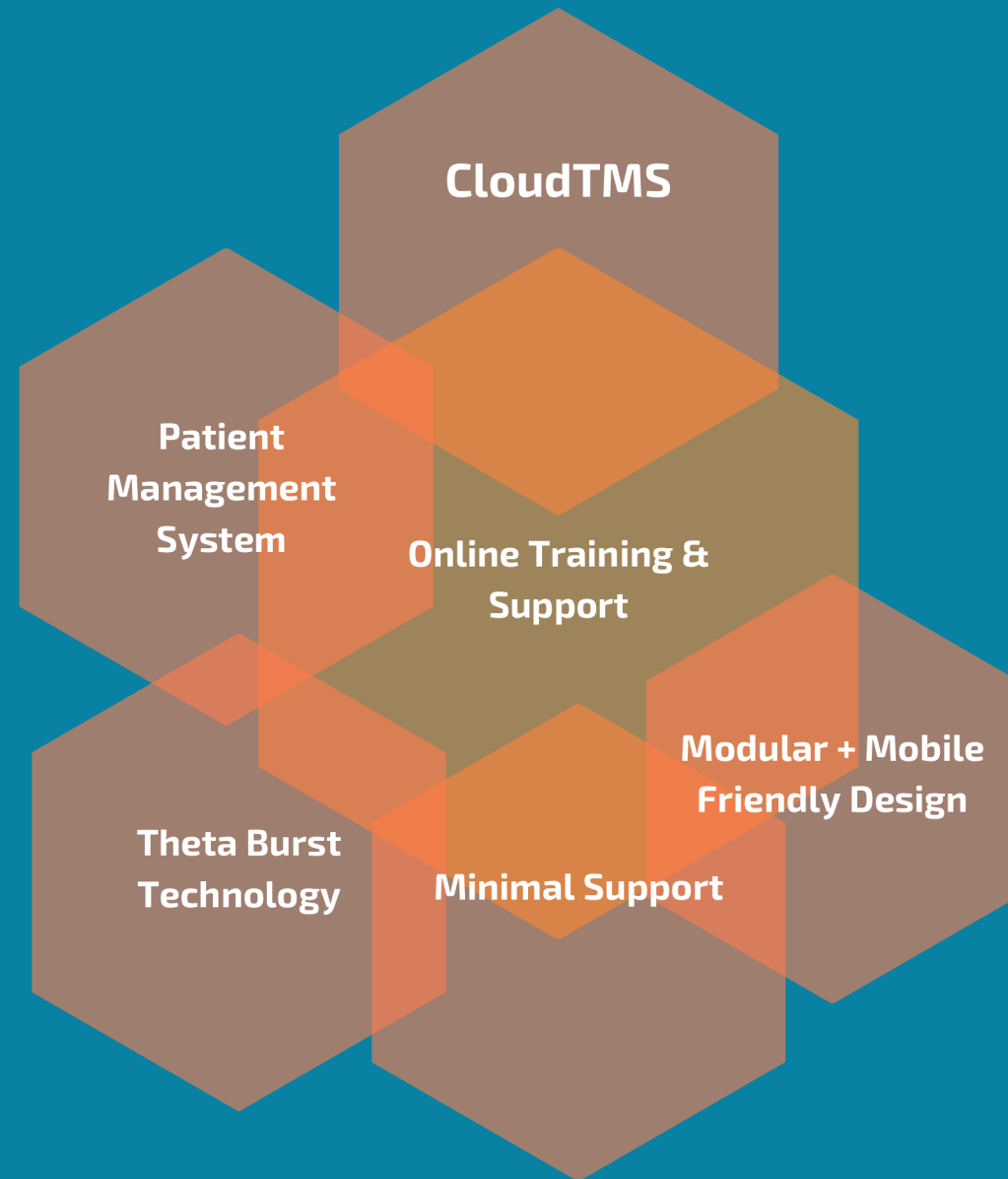
CloudTMS is part of a CloudNeuro family that was started in 1996 as an EEG and nerve conduction training website. The company expanded their reach into neuro devices. The CloudTMS is now sold in the US market through a distributor.

The system is FDA cleared for MDD and capable of theta burst. CloudTMS offers an advanced liquid cooling system that allows the system to run for long periods of time without over-heating or the need for long pauses in between patients.

The system is portable and modular and designed for easy transportation or moving from one room to another.

A CloudTMS certified laptop is included with your purchase. This will allow for managing patient session data using intuitive software.

The CloudTMS is a lesser expensive TMS system on the market today [as of 2024]. However, the support is minimal and should something go wrong, the owner will have to disassemble and send the parts in for replacement. Support is generally 'only' virtual.





For more information

Let us help

The MNH Team can assist you in the device selection process and obtain quotes from device manufacturers on your behalf. Often times we are able to secure much better rates since we often refer many clients to these companies.

If you have not yet reached out to a TMS device representative, please let us know and we would be delighted to work with them on your behalf to secure you the best possible rate for your new TMS therapy system.

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