

1.5T Flex Coil

The NeoCoil GEM Flex Coil is an adaptable system for upper and lower extremities, chest, abdomen, pelvis, head, neck, and spine applications in pediatric and adult populations.

The system delivers a high degree of versatility that is advantageous when imaging patients that don't fit the constraints of rigid coils. This coil improves the patient and technologist experience while enabling most exams to be completed with the same level of image quality expected from dedicated coils.

This system consists of:

- 3 flexible, lightweight antennae that accommodate various anatomic shapes and sizes.
- Multi-purpose immobilization devices designed for easy setup, patient comfort and reduced motion artifacts.
- A multichannel low-noise 8 or 16 channel coil interface matched to the MRI scanner.

Features

Antenna Arrays:

Each antenna array features 16 elements optimized to provide deep penetration SNR that is as good as or better than comparable rigid coils. Unlike traditional hard-cased coils, the lightweight arrays with integrated strap can wrap around regular or irregular anatomy to provide form-fitting comfort and immobilization; the arrays can also lie flat.

Array Specifications:

Array	Coverage (cm)	
	W x L	Wrap Diameter*
16-L: 16 Channel Large Array	23 x 70	15.5 - 21.5
16-M: 16 Channel Medium Array	23 x 48	11.5 - 15.5
16-S: 16 Channel Small Array	23 x 38	9.0 - 12.5

*Each array may be overlapped for smaller FOV; likewise array does not need to wrap completely.




Coil Interface:

Any compatible MRI system can enjoy the benefits of the high resolution, 16-element antenna arrays. The coil interface enables parallel imaging via combined or direct modes on 8 or 16 channel systems.

Knee Stabilization:

When additional stability or immobilization is required, a GEM Flex Coil antenna may be used in combination with an optional support base. This anti-slip base is form-fit to the MRI scanner table, providing comfortable immobilization. An integrated mechanism allows attachment of the antenna to the base, eliminating additional pads or straps. The support base provides fixtures for storage of the coil interface and antennae for easy storage and fast set-up.



Item		Catalog
16-L Array		NC030000-D
16-M Array		NC023000-D
16-S Array		NC024000-D
Interface 8ch Combined, HD-Connector		NC022002-D
Interface 16ch Fixed, P-Connector		NC022004-D

Accessories

Item	Catalog
Knee Stabilization Device for Curved Table	NC026001-D
Knee Stabilization Device for Flat Table	NC026000-D
Accessory Kit, Includes: <ul style="list-style-type: none"> • General Purpose Strap • Cable Take-up Pad • Stabilization Device for Curved and Flat Tables • Interface Module Cover 	NC026007

Coil Specifications

Component	Dimensions (W x L x H)	Weight
16-L Array	23cm x 71cm x 4cm	1.0kg
16-M Array	23cm x 57cm x 4cm	0.8kg
16-S Array	23cm x 44cm x 4cm	0.8kg
Interface Module	18cm x 23cm x 4cm	1.2kg

System Requirements

For use on 1.5T GE Magnetic Resonance Scanners with Hypertronix connectors (used on HD series scanners) or "P" type connectors (used on DV series scanners).