Instructions for Use MatrixNEURO

This instruction for use is not intended for distribution in the USA.



companies of Johnson-Johnson

Instructions for Use

MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up 04.502.021 to \varnothing 12.0 mm, thickness 0.3 mm, Pure Titanium 04.502.022 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to Ø 15.0 mm, thickness 0.3 mm, Pure Titanium 04.502.023 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to Ø 17.0 mm, thickness 0.3 mm, Pure Titanium 04.502.024 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to \varnothing 24.0 mm, thickness 0.3 mm, Pure Titanium 04.502.028 MatrixNEURO Ultra Low Profile Burr Hole Cover for Shunt or Drainage, for burr holes up to Ø 17.0 mm, thickness 0.3 mm, Pure Titanium MatrixNEURO Ultra Low Profile Cranial Plate, straight, with cen-04.502.061 tre space 9 mm, 2 holes, thickness 0.3 mm, Pure Titanium 04.502.062 MatrixNEURO Ultra Low Profile Cranial Plate, straight, with centre space 12 mm, 2 holes, thickness 0.3 mm, Pure Titanium MatrixNEURO Ultra Low Profile Cranial Plate, straight, with cen-04.502.063 tre space 12 mm, 4 holes, thickness 0.3 mm, Pure Titanium 04.502.064 MatrixNEURO Ultra Low Profile X-Plate, 4 holes, thickness 0.3 mm, Pure Titanium MatrixNEURO Ultra Low Profile Frame Plate, square, 4 holes, 04.502.065 14 x 14 mm, thickness 0.3 mm, Pure Titanium 04.502.068 MatrixNEURO Ultra Low Profile Double-Y-Plate, 6 holes, length 18 mm, thickness 0.3 mm, Pure Titanium 04.502.073 MatrixNEURO Ultra Low Profile Frame Plate, rectangular, 4 holes, 10 x 16 mm, thickness 0.3 mm, Pure Titanium 04.502.074 MatrixNEURO Ultra Low Profile Strut Plate, 2 x 3 holes, 14 x 24 mm, thickness 0.3 mm, Pure Titanium 04.502.0215 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to Ø 12.0 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.502.0225 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to \oslash 15.0 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.502.0235 MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to \varnothing 17.0 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.502.024S MatrixNEURO Ultra Low Profile Burr Hole Cover, for burr holes up to Ø 24.0 mm, thickness 0.3 mm, Pure Titanium, Sterile 04 502 0285 MatrixNEURO Ultra Low Profile Burr Hole Cover for Shunt or Drainage, for burr holes up to \varnothing 17.0 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.502.061S MatrixNEURO Ultra Low Profile Cranial Plate, straight, with centre space 9 mm, 2 holes, thickness 0.3 mm, Pure Titanium, Sterile 04 502 0625 MatrixNEURO Ultra Low Profile Cranial Plate, straight, with centre space 12 mm, 2 holes, thickness 0.3 mm, Pure Titanium, Sterile 04.502.063S MatrixNEURO Ultra Low Profile Cranial Plate, straight, with centre space 12 mm, 4 holes, thickness 0.3 mm, Pure Titanium, Sterile 04.502.064S MatrixNEURO Ultra Low Profile X-Plate, 4 holes, thickness 0.3 mm, Pure Titanium, Sterile 04.502.0655 MatrixNEURO Ultra Low Profile Frame Plate, square, 4 holes, 14 x 14 mm, thickness 0.3 mm, Pure Titanium, Sterile 04 502 0685 MatrixNEURO Ultra Low Profile Double-Y-Plate, 6 holes, length 18 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.502.0735 MatrixNEURO Ultra Low Profile Frame Plate, rectangular, 4 holes, 10 x 16 mm, thickness 0.3 mm, Pure Titanium, Sterile 04 502 0745 MatrixNEURO Ultra Low Profile Strut Plate, 2 x 3 holes, 14 x 24 mm, thickness 0.3 mm, Pure Titanium, Sterile 04.503.021 MatrixNEURO Burr Hole Cover, for burr holes up to \varnothing 12.0 mm, thickness 0.4 mm, Pure Titanium 04.503.0215 MatrixNEURO Burr Hole Cover, for burr holes up to Ø 12.0 mm, thickness 0.4 mm, Pure Titanium, sterile 04.503.022 MatrixNEURO Burr Hole Cover, for burr holes up to \varnothing 15.0 mm, thickness 0.4 mm, Pure Titanium 04 503 0225 MatrixNEURO Burr Hole Cover, for burr holes up to Ø 15.0 mm, thickness 0.4 mm, Pure Titanium, sterile 04.503.023 MatrixNEURO Burr Hole Cover, for burr holes up to \varnothing 17.0 mm, thickness 0.4 mm, Pure Titanium 04.503.0235 MatrixNEURO Burr Hole Cover, for burr holes up to \varnothing 17.0 mm, thickness 0.4 mm. Pure Titanium, sterile 04.503.024 MatrixNEURO Burr Hole Cover, for burr holes up to \emptyset 24.0 mm. thickness 0.4 mm, Pure Titanium 04.503.0245 MatrixNEURO Burr Hole Cover, for burr holes up to \varnothing 24.0 mm, thickness 0.4 mm, Pure Titanium, sterile 04.503.026 MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr holes up to Ø 12.0 mm, thickness 0.4 mm, Pure Titanium 04.503.0265 MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr holes up to \varnothing 12.0 mm, thickness 0.4 mm, Pure Titanium, sterile 04.503.027 MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr holes up to Ø 15.0 mm, thickness 0.4 mm, Pure Titanium 04 503 0275 MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr holes up to \varnothing 15.0 mm, thickness 0.4 mm, Pure Titanium, sterile

04.503.028	MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr holes up to \varnothing 17.0 mm, thickness 0.4 mm, Pure Titanium
04.503.0285	MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr
04.503.029	holes up to \varnothing 17.0 mm, thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr
04.503.0295	holes up to \varnothing 24.0 mm, thickness 0.4 mm, Pure Titanium MatrixNEURO Burr Hole Cover for Shunt or Drainage, for burr
04.503.030	holes up to \varnothing 24.0 mm, thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Burr Hole Cover for Shunt or Drainage, for
	extra-large Shunt or Drainage, for burr holes up to \emptyset 17.0 mm, thickness 0.4 mm, Pure Titanium
04.503.0305	MatrixNEURO Burr Hole Cover for Shunt or Drainage, for extra-large Shunt or Drainage, for burr holes up to \emptyset 17.0 mm,
	thickness 0.4 mm, Pure Titanium, sterile
04.503.056	MatrixNEURO Strut Plate, thickness 0.4 mm, contourable, Pure Titanium
04.503.0565	MatrixNEURO Strut Plate, thickness 0.4 mm, contourable, Pure Titanium, sterile
04.503.057	MatrixNEURO Temporal Mesh Plate, thickness 0.4 mm, contour- able, Pure Titanium
04.503.0575	MatrixNEURO Temporal Mesh Plate, thickness 0.4 mm, contour- able, Pure Titanium, sterile
04.503.061	MatrixNEURO Cranial Plate, straight, with centre space 9 mm,
04.503.0615	2 holes, thickness 0.4 mm, Pure Titanium MatrixNEURO Cranial Plate, straight, with centre space 9 mm,
04.503.062	2 holes, thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Cranial Plate, straight, with centre space 12 mm,
04.503.0625	2 holes, thickness 0.4 mm, Pure Titanium MatrixNEURO Cranial Plate, straight, with centre space 12 mm,
	2 holes, thickness 0.4 mm, Pure Titanium, sterile
04.503.063	MatrixNEURO Cranial Plate, straight, with centre space 12 mm, 4 holes, thickness 0.4 mm, Pure Titanium
04.503.0635	MatrixNEURO Cranial Plate, straight, with centre space 12 mm,
04.503.064	4 holes, thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO X-Plate, 4 holes, thickness 0.4 mm, Pure Titanium
04.503.064S	MatrixNEURO X-Plate, 4 holes, thickness 0.4 mm, Pure Titanium, sterile
04.503.065	MatrixNEURO Frame Plate, square, 4 holes, 14 x 14 mm, thickness 0.4 mm, Pure Titanium
04.503.0655	MatrixNEURO Frame Plate, square, 4 holes, 14 x 14 mm,
04.503.066	thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Frame Plate, square, 4 holes, 16 x 16 mm,
04.503.0665	thickness 0.4 mm, Pure Titanium MatrixNEURO Frame Plate, square, 4 holes, 16 x 16 mm,
04 502 067	thickness 0.4 mm, Pure Titanium, sterile
04.503.067 04.503.067S	MatrixNEURO Y-Plate, 5 holes, thickness 0.4 mm, Pure Titanium MatrixNEURO Y-Plate, 5 holes, thickness 0.4 mm, Pure Titanium, sterile
04.503.068	MatrixNEURO Double-Y-Plate, 6 holes, length 18 mm,
04.503.0685	thickness 0.4 mm, Pure Titanium MatrixNEURO Double-Y-Plate, 6 holes, length 18 mm,
04.503.069	thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Double-Y-Plate, 6 holes, length 21 mm,
	thickness 0.4 mm, Pure Titanium
04.503.0695	MatrixNEURO Double-Y-Plate, 6 holes, length 21 mm, thickness 0.4 mm, Pure Titanium, sterile
04.503.070	MatrixNEURO Adaption Plate, 5 holes, thickness 0.4 mm, Pure Titanium
04.503.0705	MatrixNEURO Adaption Plate, 5 holes, thickness 0.4 mm, Pure Titanium, sterile
04.503.071	MatrixNEURO Adaption Plate, 7 holes, thickness 0.4 mm, Pure Titanium
04.503.0715	MatrixNEURO Adaption Plate, 7 holes, thickness 0.4 mm, Pure
04.503.072	Titanium, sterile MatrixNEURO Adaption Plate, 20 holes, thickness 0.4 mm, Pure Titanium
04.503.0725	MatrixNEURO Adaption Plate, 20 holes, thickness 0.4 mm, Pure
04.503.073	Titanium, sterile MatrixNEURO Frame Plate, rectangular, 4 holes, 10 x 16 mm, history 0.4 cmr. Due Titanium,
04.503.0735	thickness 0.4 mm, Pure Titanium MatrixNEURO Frame Plate, rectangular, 4 holes, 10 x 16 mm,
04.503.074	thickness 0.4 mm, Pure Titanium, sterile MatrixNEURO Strut Plate, 2 x 3 holes, 14 x 24 mm, thickness
04.503.074S	0.4 mm, Pure Titanium MatrixNEURO Strut Plate, 2 x 3 holes, 14 x 24 mm, thickness
04.503.075	0.4 mm, Pure Titanium, sterile MatrixNEURO Strut Plate, 2 x 4 holes, 14 x 34 mm, thickness
04.503.0755	0.4 mm, Pure Titanium MatrixNEURO Strut Plate, 2 x 4 holes, 14 x 34 mm, thickness
CC10.C0C.+-0	0.4 mm, Pure Titanium, sterile

04	.503.081	MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.4 mm, contourable, malleable, Pure Titanium	04.503.123	MatrixNEURO Mesh Plate, crescent-shaped, small, thickness 0.6 mm, contourable, extra rigid, Pure Titanium
04	.503.0815	MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.4 mm, contourable, malleable, Pure Titanium, sterile	04.503.1235	MatrixNEURO Mesh Plate, crescent-shaped, small, thickness 0.6 mm, contourable, extra rigid, Pure Titanium, sterile
04	.503.082	MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium	04.503.124	MatrixNEURO Mesh Plate, crescent-shaped, large, thickness 0.6 mm, contourable, extra rigid, Pure Titanium
04	.503.0825	MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile	04.503.1245	MatrixNEURO Mesh Plate, crescent-shaped, large, thickness 0.6 mm, contourable, extra rigid, Pure Titanium, sterile
04	.503.083	MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.4 mm, contourable, malleable, Pure Titanium	04.503.125	MatrixNEURO Mesh Plate, circular, Ø 30 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium
04	.503.0835	MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.4 mm, contourable, malleable, Pure Titanium, sterile	04.503.1255	MatrixNEURO Mesh Plate, circular, \emptyset 30 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium, sterile
04	.503.084	MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium	04.503.126	MatrixNEURO Mesh Plate, circular, Ø 70 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium
04	.503.0845	MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile	04.503.1265	MatrixNEURO Mesh Plate, circular, \emptyset 70 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium, sterile
04	.503.085	MatrixNEURO Mesh Plate, 200 x 200 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium	04.503.127	MatrixNEURO Mesh Plate, circular, Ø 100 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium
04	.503.0855	MatrixNEURO Mesh Plate, 200 x 200 mm, thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile	04.503.1275	MatrixNEURO Mesh Plate, circular, Ø 100 mm, thickness 0.6 mm, contourable, extra rigid, Pure Titanium, sterile
04	.503.086	MatrixNEURO Mesh Plate, crescent-shaped, small, thickness 0.4 mm, contourable, malleable, Pure Titanium	04.503.145	MatrixNEURO Mesh Plate, 100x100 mm, thickness 0.6 mm, contourable, reconstruction, Pure Titanium
04	.503.0865	MatrixNEURO Mesh Plate, crescent-shaped, small, thickness 0.4 mm, contourable, malleable, Pure Titanium, sterile	04.503.146	MatrixNEURO Mesh Plate, 150x150 mm, thickness 0.6 mm, contourable, reconstruction, Pure Titanium
04	.503.087	MatrixNEURO Mesh Plate, crescent-shaped, large, thickness 0.4 mm, contourable, malleable, Pure Titanium	04.503.147	MatrixNEURO Mesh Plate, 200x200mm, thickness 0.6 mm, contourable, reconstruction, Pure Titanium
04	.503.0875	MatrixNEURO Mesh Plate, crescent-shaped, large, thickness 0.4 mm, contourable, malleable, Pure Titanium, sterile	04.503.149	MatrixNEURO Mesh Plate, diameter 70mm, thickness 0.6 mm, contourable, reconstruction, Pure Titanium
04	.503.088	MatrixNEURO Mesh Plate, crescent-shaped, small, thickness 0.4 mm, contourable, rigid, Pure Titanium	04.503.150	MatrixNEURO Mesh Plate, diameter 100mm, thickness 0.6 mm,
04	.503.0885	MatrixNEURO Mesh Plate, crescent-shaped, small,	04.503.1455	contourable, reconstruction, Pure Titanium MatrixNEURO Mesh Plate, 100x100 mm, thickness 0.6 mm,
04	.503.089	thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, crescent-shaped, large,	04.503.146S	contourable, reconstruction, Pure Titanium, sterile MatrixNEURO Mesh Plate, 150x150 mm, thickness 0.6 mm,
04	.503.0895	thickness 0.4 mm, contourable, rigid, Pure Titanium MatrixNEURO Mesh Plate, crescent-shaped, large,	04.503.1475	contourable, reconstruction, Pure Titanium, sterile MatrixNEURO Mesh Plate, 200x200mm, thickness 0.6 mm,
04	.503.090	thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, Ø 30 mm, thickness 0.4 mm,	04.503.1495	contourable, reconstruction, Pure Titanium, sterile MatrixNEURO Mesh Plate, diameter 70mm, thickness 0.6 mm,
04	.503.0905	contourable, malleable, Pure Titanium MatrixNEURO Mesh Plate, circular, Ø 30 mm, thickness 0.4 mm,	04.503.150S	contourable, reconstruction, Pure Titanium, sterile MatrixNEURO Mesh Plate, diameter 100mm, thickness 0.6 mm,
04	.503.091	contourable, malleable, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, Ø 70 mm, thickness 0.4 mm,	Screws	contourable, reconstruction, Pure Titanium, sterile
04	.503.0915	contourable, malleable, Pure Titanium MatrixNEURO Mesh Plate, circular, Ø 70 mm, thickness 0.4 mm,		MatrixNEURO Screw Ø 1.5 mm, self-drilling, length 3 mm, Titanium Alloy (TAN), pack of 1 unit in Clip
04	.503.092	contourable, malleable, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, Ø 100 mm,		MatrixNEURO Screw Ø 1.5 mm, self-drilling, length 3 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
04	.503.0925	thickness 0.4 mm, contourable, malleable, Pure Titanium MatrixNEURO Mesh Plate, circular, Ø 100 mm,		MatrixNEURO Screw \oslash 1.5 mm, self-drilling, length 3 mm, Titanium Alloy (TAN), pack of 4 units in Clip
04	.503.093	thickness 0.4 mm, contourable, malleable, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, \emptyset 30 mm, thickness 0.4 mm,		MatrixNEURO Screw Ø 1.5 mm, self-drilling, length 3 mm, Titanium Alloy (TAN), pack of 4 units in Clip, sterile
04	.503.0935	contourable, rigid, Pure Titanium MatrixNEURO Mesh Plate, circular, Ø 30 mm, thickness 0.4 mm,		MatrixNEURO Screw Ø 1.5 mm, self-drilling, length 4 mm, Titanium Alloy (TAN), pack of 1 unit in Clip
04	.503.094	contourable, rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, Ø 70 mm, thickness 0.4 mm,		MatrixNEURO Screw \oslash 1.5 mm, self-drilling, length 4 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
04	.503.0945	contourable, rigid, Pure Titanium MatrixNEURO Mesh Plate, circular, Ø 70 mm, thickness 0.4 mm,		MatrixNEURO Screw \oslash 1.5 mm, self-drilling, length 4 mm, Titanium Alloy (TAN), pack of 4 units in Clip
04	.503.095	contourable, rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, circular, \varnothing 100 mm,		MatrixNEURO Screw \varnothing 1.5 mm, self-drilling, length 4 mm, Titanium Alloy (TAN), pack of 4 units in Clip, sterile
04	.503.0955	thickness 0.4 mm, contourable, rigid, Pure Titanium MatrixNEURO Mesh Plate, circular, \varnothing 100 mm,		MatrixNEURO Screw \varnothing 1.5 mm, self-drilling, length 5 mm, Titanium Alloy (TAN), pack of 1 unit in Clip
04	.503.096	thickness 0.4 mm, contourable, rigid, Pure Titanium, sterile MatrixNEURO Mastoid Plate, thickness 0.4 mm, small,		MatrixNEURO Screw \varnothing 1.5 mm, self-drilling, length 5 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
04	.503.0965	Pure Titanium MatrixNEURO Mastoid Plate, thickness 0.4 mm, small,	04.503.105.04C	MatrixNEURO Screw \varnothing 1.5 mm, self-drilling, length 5 mm, Titanium Alloy (TAN), pack of 4 units in Clip
04	.503.097	Pure Titanium, sterile MatrixNEURO Mastoid Plate, thickness 0.4 mm, medium,	04.503.105.045	MatrixNEURO Screw \varnothing 1.5 mm, self-drilling, length 5 mm, Titanium Alloy (TAN), pack of 4 units in Clip, sterile
04	.503.0975	Pure Titanium MatrixNEURO Mastoid Plate, thickness 0.4 mm, medium,	04.503.113.01C	MatrixNEURO Emergency Screw Ø 1.8 mm, self-tapping, length 3 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
04	.503.098	Pure Titanium, sterile MatrixNEURO Mastoid Plate, thickness 0.4 mm, large,	04.503.113.015	MatrixNEURO Emergency Screw Ø 1.8 mm, self-tapping, length 3 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
04	.503.0985	Pure Titanium MatrixNEURO Mastoid Plate, thickness 0.4 mm, large,	04.503.114.01C	MatrixNEURO Emergency Screw Ø 1.8 mm, self-tapping, length 4 mm, Titanium Alloy (TAN), pack of 1 unit in Clip
04	.503.120	Pure Titanium, sterile MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.6 mm,	04.503.114.015	MatrixNEURO Emergency Screw \varnothing 1.8 mm, self-tapping, length 4 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
	.503.1205	contourable, extra rigid, Pure Titanium MatrixNEURO Mesh Plate, 38 x 45 mm, thickness 0.6 mm,	04.503.115.01C	MatrixNEURO Emergency Screw \varnothing 1.8 mm, self-tapping, length 5 mm, Titanium Alloy (TAN), pack of 1 unit in Clip
	.503.121	contourable, extra rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.6 mm,	04.503.115.015	MatrixNEURO Emergency Screw \varnothing 1.8 mm, self-tapping, length 5 mm, Titanium Alloy (TAN), pack of 1 unit in Clip, sterile
	.503.1215	contourable, extra rigid, Pure Titanium MatrixNEURO Mesh Plate, 100 x 100 mm, thickness 0.6 mm,	145.321S 145.324S	MatrixNEURO Steril Kit, Standard 4 mm MatrixNEURO Steril Kit, Burr hole cover 17 mm
	.503.122	contourable, extra rigid, Pure Titanium, sterile MatrixNEURO Mesh Plate, 200 x 200 mm, thickness 0.6 mm,	03.503.244	Drill Bit \varnothing 1.1 mm with Stop, length 44.5/4 mm, for J-Latch Coupling
	.503.1225	contourable, extra rigid, Pure Titanium MatrixNEURO Mesh Plate, 200 x 200 mm, thickness 0.6 mm,	03.503.244S 03.503.246	Drill Bit \emptyset 1.1 w/Stop L44.5/4 Sterile Drill Bit \emptyset 1.1 mm with Stop, length 44.5/6 mm, for J-Latch
		contourable, extra rigid, Pure Titanium, sterile		Coupling

03.503.246S	Drill Bit Ø1.1 w/Stop L44.5/6 Sterile			
03.503.248	Drill Bit \varnothing 1.1 mm with Stop, length 44.5/8 mm, for J-Latch			
	Coupling			

- 03.503.248S Drill Bit Ø1.1 w/Stop L44.5/8 Sterile
- 03.503.264 Drill Bit \emptyset 1.1 mm with Stop, length 52/4 mm, for Hexagonal Coupling
- 03.503.266 Drill Bit \varnothing 1.1 mm with Stop, length 52/6 mm, for Hexagonal Coupling
- 03.503.268 Drill Bit \varnothing 1.1 mm with Stop, length 52/8 mm, for Hexagonal Coupling

Please read these instructions for use, the Synthes brochure "Important Information" and the corresponding surgical techniques MatrixNEURO (036.000.608) carefully before use. Ensure that you are familiar with the appropriate surgical technique.

Material(s)

iviaterial(s):	Standard(s):
Screws	
TAN	DIN ISO 5832-11
Plates	
TiCp	DIN ISO 5832-2
TiCp	DIN ISO 5832-2
Instruments	
PPSU / SST	ISO 1183/DIN ISO 5832-1
SST (440A)	DIN ISO 5832-1
SST (1.4117)	DIN ISO 5832-1
SST	DIN ISO 5832-1

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Intended use

For cranial closures and/or bone fixation.

Indications

For use in the following indications: craniotomies, cranial trauma repair and reconstruction.

Contraindications

Use in areas with active or latent infection or insufficient quantity or quality of bone.

Side effects

As with all major surgical procedures, risks, side effects and adverse events can occur. While many possible reactions may occur, some of the most common include:

Problems resulting from anesthesia and patient positioning (e.g. nausea, vomiting, dental injuries, neurological impairments, etc.), thrombosis, embolism, infection, nerve and/or tooth root damage or injury of other critical structures including blood vessels, excessive bleeding, damage to soft tissues incl. swelling, abnormal scar formation, functional impairment of the musculoskeletal system, pain, discomfort or abnormal sensation due to the presence of the device, allergy or hyper-sensitivity reactions, side effects associated with hardware prominence, loosening, bending, or breakage of the device, mal-union, non-union or delayed union which may lead to breakage of the implant, reoperation.

Sterile device



E R Sterilized using irradiation

Store implants in their original protective packaging, and do not remove them from the packaging until immediately before use.

Prior to use, check the product expiration date and verify the integrity of the sterile packaging. Do not use, if the package is damaged.

Single-use device

Do not re-use

Products intended for single-use must not be re-used.

Re-use or reprocessing (e.g. cleaning and resterilization) may compromise the structural integrity of the device and / or lead to device failure which may result in patient injury, illness or death.

Furthermore, reuse or reprocessing of single-use devices may create a risk of contamination e.g. due to the transmission of infectious material from one patient to another. This could result in injury or death of the patient or user. Contaminated implants must not be reprocessed. Any Synthes implant that has been contaminated by blood, tissue, and/or bodily fluids/matter should never be used again and should be handled according to hospital protocol. Even though they may appear undamaged, the implants may have small defects and internal stress patterns that may cause material fatigue.

Precautions

Cut the implant immediately adjacent to the screw holes.

Take care to protect soft tissue from trimmed edges.

Reconstruction mesh (gold) can only be cut with the cutter 03.503.605.

Please replace worn or damaged cutting instruments if the cutting function is not adequate.

Take care to protect soft tissue from trimmed edges.

Excessive and repetitive bending of the implant increases the risk of implant breakage.

When using plates, ensure countersink holes are facing upwards

Do not exceed 1800 rpm while drilling.

Please drill with the proper irrigation.

Use only a 1.1mm drill bit for pre-drilling.

Fully engage the shaft perpendicular to the screw head.

Place the 1.5 mm self-drilling screw perpendicular to the bone at the appropriate plate hole.

Take care not to over tighten the screw.

In order to determine the appropriate amount of fixation for stability, the surgeon should consider the size and shape of the fracture or osteotomy.

DePuy Synthes recommends at least three plates when repairing osteotomies. Additional fixation is recommended to ensure stability of large fractures and osteotomies, or when using mesh.

After implant placement is complete, irrigate and apply suction for removal of debris potentially generated during implantation.

Warnings

The MatrixNEURO fixation system is not intended for use in patients who are not yet skeletally mature. Resorbable fixation products should be considered as an alternative.

These devices can break during use (when subjected to excessive forces or outside the recommended surgical technique). While the surgeon must make the final decision on removal of the broken part based on associated risk in doing so, we recommend that whenever possible and practical for the individual patient, the broken part should be removed.

Be aware that implants are not as strong as native bone. Implants subjected to substantial loads may fail.

Magnetic Resonance environment Torque & Displacement

Torque & Displacement according to ASTM F 2052-06e1 and ASTM F 2213-06

Non-clinical testing of MatrixNEURO implants in 1.5 T or 3.0 T environments did not reveal any relevant torque or displacement of the implants for a spatial magnetic field gradient of 9 T/m or less.

Radio Frequency (RF)- induced heating according to ASTM F 2182-09

In non-clinical testing, the longest MatrixNEURO implant (9cm) produced a temperature rise of 6.7 °C (1.5 T) and 8.5 °C (3.0 T) at a maximum MR system reported, whole body averaged specific absorption rate (SAR) of 2 W/kg for 15 minutes of MR scanning in 1.5 T and 3.0 T Philips Achieva MR scanners.

In non-clinical testing, MatrixNEURO implants with reduced length (3 cm) produced temperature rises of less than 2 °C at a maximum MR system reported, whole body averaged specific absorption rate (SAR) of 2 W/kg for 15 minutes of MR scanning in 1.5 T and 3.0 T Philips Achieva MR scanners

From physical basics of RF interactions and long-term experience it can be assumed that in most cases a reduction of length and spatial extend results in a reduced temperature rise produced by MatrixNEURO implants.

Precautions

The above mentioned test relies on non-clinical testing. The actual temperature rise in the patient will depend on a variety of factors beyond the SAR and time of RF application. Thus it is recommended to pay particular attention to the following points:

 It is recommended to thoroughly monitor patients undergoing MR scanning for perceived temperature and/or pain sensations.

- Patients with impaired thermo regulation or temperature sensation should be excluded from MR scanning procedures.
- Generally it is recommended to use a MR system with low field strengths in the presence of conductive implants. The employed specific absorption rate (SAR) should be reduced as far as possible.
- Using the ventilation system may further contribute to reduce temperature increase in the body.

Treatment before device is used

Synthes products supplied in a non-sterile condition must be cleaned and steam-sterilized prior to surgical use. Prior to cleaning, remove all original packaging. Prior to steam-sterilization, place the product in an approved wrap or container. Follow the cleaning and sterilization instruction given by the Synthes brochure "Important Information".

Special operating instructions

1. Select Implant

Select the appropriate implants. The MatrixNEURO Plate and Screw system contains a wide variety of plates, burr hole covers, mesh and screws.

2. Size implant (if required)

The implants may be cut and sized to match the patient anatomy and the needs of the specific case. Cut the implant immediately adjacent to the screw holes.

- 3. Contour implant (if required)
- The implant can be further contoured to match patient anatomy. Notes
- Avoid contouring of the implant in situ that may lead to implant malposition.
- Excessive and repetitive bending of the implant increases the risk of implant breakage.
- 4. Position implant
 - Position the implant on the desired location using the appropriate plate holder.

Please replace worn or damaged cutting instruments if the cutting function is not adequate.

- 5. Pre-drill screw holes (optional)
- Synthes recommends predrilling in dense bone when using 5 mm screws.
- 5. Secure implant
 - Screwdriver shafts are self retaining instruments.
 - Fully engage the shaft perpendicular to the screw head. Please replace worn or damaged screwdriver shafts, if the retention is not

adequate. Place the 1.5 mm self-drilling screw perpendicular to the bone at the appro-

- priate plate hole.
- Take care not to overtighten the screw.
- If the self-drilling screw does not retain good purchase, replace it with a 1.8 mm emergency screw of the same length.
- Use the appropriate number of screws to achieve the required stability.

Technique Tip

Before positioning the bone flap on the patient, it is advantageous to secure the implants to the bone flap first.

- 1. Secure the desired plates to bone flap.
- 2. Position the bone flap on the patient.
- 3. Secure the plates to the skull.
- Use the appropriate number of screws to achieve the required stability.

Troubleshooting

Please replace worn or damaged cutting instruments if the cutting function is not adequate.

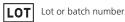
Please replace worn or damaged screwdriver shafts, if the retention is not adequate.

Reprocessing of the device

Detailed instructions for reprocessing implants, instruments and cases are described in the enclosed Important Information. Assembly and disassembly instructions of instruments "Dismantling multipart instruments" can be downloaded from: http://www.synthes.com/reprocessing

Additional device-specific information

REF Reference Number



Manufacturing date



Expiration date

0123 Notified body



Caution, see instructions for use



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