

# HIGH SPEED TOOLS





NEUROLINE HIGH SPEED TOOLS  
PRODUCT CATALOGUE  
2024

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ROTARY TOOLS FOR HIGH SPEED MOTOR SYSTEMS

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## Be Ahead Of The Curve With Our Latest Innovations

WE ARE FAMILY OF MOTIVATED INDIVIDUALS, DRIVEN BY OUR DESIRE TO MAKE INNOVATIVE, EXCELLENT QUALITY MEDICAL PRODUCTS AVAILABLE TO MODERN MEDICINE IN A SUSTAINABLE WAY.

At EMD we offer quality design, production and services, that enable medical professionals to perform advanced minimal invasive operations.

Our carefully accumulated knowledge and expertise enable us to create singular tools and devices that medical professionals can use sustainably. To offer our customers the best of the best, our products are manufactured with meticulous care from high quality materials.

We are dedicated and passionate in everything we do. Through our performance and solution driven mindset, we have the opportunity to make a difference. We are innovation and business oriented with a strong belief in daring to do things better.

# FOREWORD



## From CEO

“

Everything we do is rooted in the belief that, together with our colleagues, teams and partners, we can create positive change to support modern medicine through our high-end products and services.

Each time before we embark on a new development, we have to make sure we possess the essential attributes that will fuel us to work for years to come for the very moment we first hold a new product in hand. These are: know-how, perseverance, proof and faith.

We've been working hard and have come a long way over the last 25 years. When EMD was founded in 1997, we were thinking about how we could design and manufacture minimal invasive medical devices. Since then, we've made such a progress as a team that today, however, we are thinking about how to become one of the best and most innovative companies in the industry.

We are proud of the progress we're making, and are ensuring that our expertise and competencies are essential elements of EMD's future that we will continue to embrace and grow.”

**Mr. Gyula Ujvari**  
FOUNDER & CEO





- 1997** EMD is founded as a repair service provider. Main activity is repair of endoscopic optics and endoscopic instruments.
- 2001** We launch our laparoscopic system being first own product development.
- 2005** EMD steps out of being a local supplier and starts export activities in various markets. EMD begins to develop and produce neurosurgery devices.
- 2012** EMD relocates to new headquarters with more on site facilities. Company profile continues to expand.
- 2017** The company obtains CE approval for own neurosurgical and laparoscopy development.
- 2021** Product portfolio is further increased by six additional EMD product group receiving CE mark.
- 2022** First product group got FDA approval.

# ABOUT US

## Our Vision

We believe in leading not following. We turn fault into our virtue and trust our never-compromising nature dictating our rhythm, which takes us to innovative ideas and exceptional product developments.

We are convinced that possibility is bigger than the fear of failure. That is why we dare to dream big and are not afraid to be challenged on the way to success. Our vision is to be industry leaders in medical device development and manufacture.

## Our Mission

OUR MISSION IS TO SUPPORT MODERN MEDICINE  
BY OFFERING ADVANCED, FIRST-CLASS QUALITY  
MEDICAL DEVICES.

## Our Values

We like to walk our talk and lead by example. Our values are part of who we are, what we stand for and how we act.

Our great colleagues make the difference. It's when we share our skills, knowledge and expertise, we become one team.

We encourage and help each other to achieve our goals, while always having our customers' and their patients' best interest in mind.

## Markets & Expansion

EMD is expanding, with a focus on multi-channel sales. We treat and nurture long term partnerships and business growth as one of our top priorities. We offer advanced and unique medical tools for minimal invasive surgeries that want to give professionals unbeatable value with the best combination of innovation, quality, price and sustainability.

When it comes to expansion strategies and activities, we spare no time to find the most prosperous opportunities we are able to find out there, that not only benefit us, but our partners too. With the continuous product developments we have been making recently, we are enthusiastic to be on the path greatly expanding our existing presence on the market.

## Research & Development

Our network of medical professionals, together with the global industry needs and challenges set new directions to our developments.

Through our product developments, our priority is to effectively support surgical procedures, which are still very difficult or can only be performed with conventional surgery, so that they could be carried out with as few and little incisions as possible. In the near future, we continue to focus on minimal invasive developments and present new products for spine,- neuro,- and laparoscopic surgery.

## Innovative Solutions

Innovative product developments enable us to find and implement new technologic solutions, which are not yet in practice.

At the birth of a new idea, we start exploring ways of execution and won't stop until we find the right technology that can be applied for best results. This way, we are inspired to never stand still, we find new discoveries and are able to create that was thought impossible.

WE BELIEVE THAT

## Uncompromising Quality

IS A MATTER OF HIGH EXPECTATIONS.

GUARANTEEING THE RELIABILITY OF AN **emd**<sup>®</sup> PRODUCT REQUIRES THE APPLICATION OF A MULTITUDE OF SKILLS. FROM THE PRECISE SELECTION OF RAW MATERIALS AND MACHINING TECHNOLOGIES TO THE COMPLEXITY OF PRODUCT CERTIFICATION, EVERY STEP IS TAKEN TO ENSURE THAT OUR QUALITY ITEMS MEET THE HIGHEST SAFETY STANDARDS FOR BOTH THE PATIENT AND THE SURGEON.

# ROTARY TOOLS



PRECISELY DESIGNED SHAPES, PERFECTLY MACHINED SURFACES AND RELIABLY DURABLE CONSTRUCTION ARE THE MAIN FEATURES OF **emd** MADE CUTTERS, BURRS AND DRILLS.

HIGH-SPEED TOOLS ARE AVAILABLE WITH THE MOST COMMONLY USED GEOMETRIES, COMPATIBLE WITH A WIDE RANGE OF BRANDS.

ALL PRODUCTS ARE SUPPLIED IN INDIVIDUAL STERILE PACKAGING.

## CRANIOTOME CUTTERS CODING

NEUROLINE	CUTTER	COMPATIBILITY*	SIZE	EDGE PROFILE
NL	C	A-Z	1-10	A-Z

## BURRS CODING

NEUROLINE	BURR	COMPATIBILITY*	EDGE PROFILE	MATERIAL OF HEAD	RELEVANT SIZE	SUBSYSTEM
NL	B	A-Z	A-Z	0-2	0-10	A-Z

HEAD PROFILES		MATERIAL OF HEAD	COMPATIBILITY*	
BALLTIP	A	STAINLESS STEAL	0	EMD
MATCH HEAD	B	DIAMOND	2	NSK PRIMADO - NAKANISHI INC.
ACORN	C			AESULAP HI-LINE, HI-LINE XS - AESULAP AG
EGG	D			ANSPACH XM, MM, EM - JOHNSON & JOHNSON
PEAR	E			STRYKER U SERIE, FP, TPS - STRYKER CORP.
FISSURE	F			
BARREL	G			
LINDEMANN	H			
WIREPASS	I			

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We reserve the right to modify technical data, features and the technical solutions of production without notice.

## Straight

WITH THREE CUTTING EDGES



SIZE	emd®
SIZE 1	NLC-1T
SIZE 2	NLC-2T
SIZE 3	NLC-3T
SIZE 4	NLC-4T (max. 30.000 rpm)

SIZE	NSK Primado2	Aesculap	Anspach eMAX2 plus XM, MM, EM	Stryker Elite	
SIZE 1	NLC-N-1T	NLC-Ae-1TA	NLC-Ae-1TB	NLC-An-1T	NLC-S-1T
SIZE 2	NLC-N-2T	NLC-Ae-2TA	NLC-Ae-2TB	NLC-An-2TA	NLC-S-2T
SIZE 3	NLC-N-3T	NLC-Ae-3TA	NLC-Ae-3TB	NLC-An-3TA	NLC-S-3T
SIZE 4					

## Spiral

WITH THREE CUTTING EDGES



SIZE	emd®
SIZE 1	NLC-1ST
SIZE 2	NLC-2ST
SIZE 3	NLC-3ST
SIZE 4	NLC-4ST (max. 30.000 rpm)

SIZE	NSK Primado2	Aesculap	Anspach eMAX2 plus XM, MM, EM	Stryker Elite	
SIZE 1	NLC-N-1ST	NLC-Ae-1STA	NLC-Ae-1STB	NLC-An-1ST	NLC-S-1ST
SIZE 2	NLC-N-2ST	NLC-Ae-2STA	NLC-Ae-2STB	NLC-An-2ST	NLC-S-2ST
SIZE 3	NLC-N-3ST	NLC-Ae-3STA	NLC-Ae-3STB	NLC-An-3ST	NLC-S-3ST
SIZE 4					

**Stainless Steel**  
BALLTIP BURRS



emd®

(∅ = MM)	1	NLB-A010A
	2	NLB-A020A
	3	NLB-A030A
	4	NLB-A040A
	5	NLB-A050A
	6	NLB-A060A

NSK Primado2

(∅ = MM)	1	MS	NLB-N-A010A	EXTRA SHORT	NLB-N-A010B	SHORT	NLB-N-A010C	MEDIUM	NLB-N-A010D	LONG	NLB-N-A010E
	2		NLB-N-A020A		NLB-N-A020B		NLB-N-A020C		NLB-N-A020D		NLB-N-A020E
	3		NLB-N-A030A		NLB-N-A030B		NLB-N-A030C		NLB-N-A030D		NLB-N-A030E
	4		NLB-N-A040A		NLB-N-A040B		NLB-N-A040C		NLB-N-A040D		NLB-N-A040E
	5		NLB-N-A050A		NLB-N-A050B		NLB-N-A050C		NLB-N-A050D		NLB-N-A050E
	6		NLB-N-A060A		NLB-N-A060B		NLB-N-A060C		NLB-N-A060D		NLB-N-A060E

Aesculap

Anspach eMAX2 plus XM, MM, EM

(∅ = MM)	1	ELAN4 1-RING	NLB-Ae-A010A	ELAN4 2-RING	NLB-Ae-A010B	SHORT, STANDARD	NLB-An-A010A	MEDIUM, STANDARD	NLB-An-A010B	LONG, STANDARD	NLB-An-A010C
	2		NLB-Ae-A020A		NLB-Ae-A020B		NLB-An-A020A		NLB-An-A020B		NLB-An-A020C
	3		NLB-Ae-A030A		NLB-Ae-A030B		NLB-An-A030A		NLB-An-A030B		NLB-An-A030C
	4		NLB-Ae-A040A		NLB-Ae-A040B		NLB-An-A040A		NLB-An-A040B		NLB-An-A040C
	5		NLB-Ae-A050A		NLB-Ae-A050B		NLB-An-A050A		NLB-An-A050B		NLB-An-A050C
	6		NLB-Ae-A060A		NLB-Ae-A060B		NLB-An-A060A		NLB-An-A060B		NLB-An-A060C

Stryker Elite

(∅ = MM)	1	NLB-S-A010A
	2	NLB-S-A020A
	3	NLB-S-A030A
	4	NLB-S-A040A
	5	NLB-S-A050A
	6	NLB-S-A060A

**Diamond**  
BALLTIP BURRS



emd®

(∅ = MM)	1	NLB-A210A
	2	NLB-A220A
	3	NLB-A230A
	4	NLB-A240A
	5	NLB-A250A
	6	NLB-A260A

NSK Primado2

(∅ = MM)	1	MS	NLB-N-A210A	EXTRA SHORT	NLB-N-A210B	SHORT	NLB-N-A210C	MEDIUM	NLB-N-A210D	LONG	NLB-N-A210E
	2		NLB-N-A220A		NLB-N-A220B		NLB-N-A220C		NLB-N-A220D		NLB-N-A220E
	3		NLB-N-A230A		NLB-N-A230B		NLB-N-A230C		NLB-N-A230D		NLB-N-A230E
	4		NLB-N-A240A		NLB-N-A240B		NLB-N-A240C		NLB-N-A240D		NLB-N-A240E
	5		NLB-N-A250A		NLB-N-A250B		NLB-N-A250C		NLB-N-A250D		NLB-N-A250E
	6		NLB-N-A260A		NLB-N-A260B		NLB-N-A260C		NLB-N-A260D		NLB-N-A260E

Aesculap

Anspach eMAX2 plus XM, MM, EM

(∅ = MM)	1	ELAN4 1-RING	NLB-Ae-A210A	ELAN4 2-RING	NLB-Ae-A210B	SHORT, STANDARD	NLB-An-A210A	MEDIUM, STANDARD	NLB-An-A210B	LONG, STANDARD	NLB-An-A210C
	2		NLB-Ae-A220A		NLB-Ae-A220B		NLB-An-A220A		NLB-An-A220B		NLB-An-A220C
	3		NLB-Ae-A230A		NLB-Ae-A230B		NLB-An-A230A		NLB-An-A230B		NLB-An-A230C
	4		NLB-Ae-A240A		NLB-Ae-A240B		NLB-An-A240A		NLB-An-A240B		NLB-An-A240C
	5		NLB-Ae-A250A		NLB-Ae-A250B		NLB-An-A250A		NLB-An-A250B		NLB-An-A250C
	6		NLB-Ae-A260A		NLB-Ae-A260B		NLB-An-A260A		NLB-An-A260B		NLB-An-A260C

Stryker Elite

(∅ = MM)	1	NLB-S-A210A
	2	NLB-S-A220A
	3	NLB-S-A230A
	4	NLB-S-A240A
	5	NLB-S-A250A
	6	NLB-S-A260A

BALLTIP BURRS

BALLTIP BURRS

**Stainless Steel**  
MATCH HEAD BURRS



emd®	
( $\varnothing$ = MM)	1.8   NLB-B018A
	2.2   NLB-B022A
	3.0   NLB-B030A

  

NSK Primado2	
( $\varnothing$ = MM)	MS   1.8   NLB-N-B022A
	2.2   NLB-N-B022B
	3.0   NLB-N-B030A
EXTRA SHORT	NLB-N-B022B
	NLB-N-B030B
	SHORT
NLB-N-B030C	
MEDIUM	NLB-N-B022D
	NLB-N-B030D
	LONG
NLB-N-B030E	

  

Aesculap	
( $\varnothing$ = MM)	ELAN4 1-RING   1.8   NLB-Ae-B018A
	2.2   NLB-Ae-B022A
	3.0   NLB-Ae-B030A
ELAN4 2-RING	NLB-Ae-B018B
	NLB-Ae-B022B
	NLB-Ae-B030B
SHORT, STANDARD	NLB-An-B018A
	NLB-An-B022A
	NLB-An-B030A
MEDIUM, STANDARD	NLB-An-B018B
	NLB-An-B022B
	NLB-An-B030B
LONG, STANDARD	NLB-An-B018C
	NLB-An-B022C
	NLB-An-B030C

  

Anspach eMAX2 plus XM, MM, EM	
( $\varnothing$ = MM)	1.8   NLB-Ae-B018A
	2.2   NLB-Ae-B022A
	3.0   NLB-Ae-B030A

  

Stryker Elite	
( $\varnothing$ = MM)	1.8   NLB-S-B018A
	2.2   NLB-S-B022A
	3.0   NLB-S-B030A

MATCH HEAD BURRS

**Stainless Steel**  
ACORN BURRS



emd®	
( $\varnothing$ = MM)	5   NLB-C050A
	6   NLB-C060A
	7   NLB-C070A
	8   NLB-C080A

  

NSK Primado2		
( $\varnothing$ = MM)	MS   5   NLB-N-C070A	
	6   NLB-N-C070B	
	7   NLB-N-C070C	
	8   NLB-N-C070C	
EXTRA SHORT	NLB-N-C070B	
	SHORT	NLB-N-C070C

  

Aesculap	
( $\varnothing$ = MM)	ELAN4 1-RING   5   NLB-Ae-C050A
	6   NLB-Ae-C060A
	7   NLB-Ae-C070A
	8   NLB-Ae-C080A
ELAN4 2-RING	NLB-Ae-C050B
	NLB-Ae-C060B
	NLB-Ae-C070B
	NLB-Ae-C080B
SHORT, STANDARD	NLB-An-C050A
	NLB-An-C060A
	NLB-An-C070A
	NLB-An-C080A
MEDIUM, STANDARD	NLB-An-C050B
	NLB-An-C060B
	NLB-An-C070B
	NLB-An-C080B
LONG, STANDARD	NLB-An-C050C
	NLB-An-C060C
	NLB-An-C070C
	NLB-An-C080C

  

Anspach eMAX2 plus XM, MM, EM	
( $\varnothing$ = MM)	5   NLB-Ae-C050A
	6   NLB-Ae-C060A
	7   NLB-Ae-C070A
	8   NLB-Ae-C080A

  

Stryker Elite	
( $\varnothing$ = MM)	5   NLB-S-C050A
	6   NLB-S-C060A
	7   NLB-S-C070A
	8   NLB-S-C080A

ACORN BURRS



**Stainless Steel**  
EGG BURRS



		emd®									
( $\varnothing$ = MM)	4	NLB-D040A									
	6	NLB-D060A									
				NSK Primado2							
( $\varnothing$ = MM)	4	MS	NLB-N-D040A	EXTRA SHORT	NLB-N-D040B	SHORT	NLB-N-D040C				
	6		NLB-N-D060A		NLB-N-D060B		NLB-N-D060C				
								Anspach eMAX2 plus XM, MM, EM			
( $\varnothing$ = MM)	4	ELAN4 1-RING	NLB-Ae-D040A	ELAN4 2-RING	NLB-Ae-D040B	SHORT, STANDARD	NLB-An-D040A	MEDIUM, STANDARD	NLB-An-D040B	LONG, STANDARD	NLB-An-D040C
	6		NLB-Ae-D060A		NLB-Ae-D060B		NLB-An-D060A		NLB-An-D060B		NLB-An-D060C
										Aesculap	
										Stryker Elite	
( $\varnothing$ = MM)	4	NLB-S-D040A									
	6	NLB-S-D060A									

EGG BURRS

**Stainless Steel**  
PEAR BURRS



		emd®									
( $\varnothing$ = MM)	6	NLB-E060A									
					NSK Primado2						
( $\varnothing$ = MM)	6	MS	NLB-N-E060A	EXTRA SHORT	NLB-N-E060B	SHORT	NLB-N-E060C				
							Anspach eMAX2 plus XM, MM, EM				
( $\varnothing$ = MM)	6	ELAN4 1-RING	NLB-Ae-E060A	ELAN4 2-RING	NLB-Ae-E060B	SHORT, STANDARD	NLB-An-E060A	MEDIUM, STANDARD	NLB-An-E060B	LONG, STANDARD	NLB-An-E060C
									Aesculap		
										Stryker Elite	
( $\varnothing$ = MM)	6	NLB-S-E060A									

PEAR BURRS

**Stainless Steel**  
FISSURE BURRS



( $\varnothing$ = MM)	emd®		NSK Primado2		Stryker Elite	
		MS	EXTRA SHORT	SHORT		
1	NLB-F010A	NLB-N-F010A	NLB-N-F010B	NLB-N-F010C	NLB-S-F010A	
1.5	NLB-F015A	NLB-N-F015A	NLB-N-F015B	NLB-N-F015C	NLB-S-F015A	
2	NLB-F020A	NLB-N-F020A	NLB-N-F020B	NLB-N-F020C		

**Stainless Steel**  
BARREL BURRS



( $\varnothing$ = MM)	emd®		NSK Primado2		Stryker Elite	
		MS	EXTRA SHORT	SHORT		
4	NLB-G040A	NLB-N-G040A	NLB-N-G040B	NLB-N-G040C	NLB-S-F010	
6	NLB-G060A	NLB-N-G060A	NLB-N-G060B	NLB-N-G060C	NLB-S-F020	

  

( $\varnothing$ = MM)	Aesculap		Anspach eMAX2 plus XM, MM, EM		Stryker Elite	
	ELAN4 1-RING	ELAN4 2-RING	SHORT, STANDARD	MEDIUM, STANDARD	LONG, STANDARD	
4	NLB-Ae-G040A	NLB-Ae-G040B	NLB-An-G040A	NLB-An-G040B	NLB-An-G040C	
6	NLB-Ae-G060A	NLB-Ae-G060B	NLB-An-G060A	NLB-An-G060B	NLB-An-G060C	

  

( $\varnothing$ = MM)	Stryker Elite	
4	NLB-S-G040A	
6	NLB-S-G060A	

FISSURE BURRS

BARREL BURRS

 **Stainless Steel**  
LINDEMANN BURRS



emd®	
(L MM)	10
	20
	30

NLB-H010A
NLB-H020A
NLB-H030A

		NSK Primado2			
(L MM)	MS	10	NLB-N-H010A	NLB-N-H010B	NLB-N-H010C
		20	NLB-N-H020A	NLB-N-H020B	NLB-N-H020C
		30	NLB-N-H030A	NLB-N-H030B	NLB-N-H030C

EXTRA SHORT

SHORT

		Aesculap		Stryker Elite	
(L MM)	ELAN4 1-RING	10	NLB-Ae-H010A	NLB-S-H010A	
		20	NLB-Ae-H020A	NLB-S-H020A	
		30	NLB-Ae-H030A	NLB-S-H030A	

ELAN4 2-RING

LINDEMANN BURRS

 **Stainless Steel**  
DRILLS



emd®	
(Ø = MM)	1.0
	1.2
	1.5

NLB-I010A
NLB-I012A
NLB-I015A

		NSK Primado2			Stryker Elite		
(Ø = MM)	MS	1.0	NLB-N-I010A	NLB-N-I010B	NLB-N-I010C	NLB-S-I010A	
		1.2	NLB-N-I012A	NLB-N-I012B	NLB-N-I012C	NLB-S-I012A	
		1.5	NLB-N-I015A	NLB-N-I015B	NLB-N-I015C	NLB-S-I015A	

EXTRA SHORT

SHORT

DRILLS









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