



JAHR	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
NUMROTO-DOS	1.0	1.2	2.2	4.0	5.0	5.2	5.3	5.4	5.6	5.8	5.9	6.0	6.1													
NUMROTOplus									1.1.0	1.1.5	1.2.1	1.3.1	1.5.0	1.6.0	2.1.1	2.5.0	2.5.4	2.6.0	2.7.1	2.8.0	2.9.0	3.0.0	3.5.0	3.5.1	3.6.0	4.0.0
DOS	3.3		4.0		5.0		6.0		7.0																	
Windows					3.0		3.1		95				98		2000/XP						Vista		7			
PC Processor	80386 20 MHz		80486 25 MHz		80486 50 MHz		Pentium 60 MHz		Pentium 120 MHz		Pentium II 300 MHz		Pentium III 600 MHz		Pentium 4 1.7 GHz		Pentium 4 3.2 GHz		Pentium Dual Core		Core 2 Duo		Core i5		Core i7	
NUM CNC	750/760				1060				1050				Axiom												Flexium	
NR-OEMs	Strausak (1987)	Saacke (1990)	Ewag (1991)						UWS (1995)	Hawema (1998)	StarCutter (1999)	Deckel (2001) Zaro (2001)	Farman (2003)	TTB (2004) Kennametal Widia (2004)											Paragon (2012)	

1987
First hand-written documentation

1987
First 2D simulation from NUMROTO-DOS

1989
Second version of the 2D simulation from NUMROTO-DOS

1989
First NUMROTO brochure

1995
Start NRplus Development

1996
2D-Simulation NRplus

1999
First NUMROTOflash

1999
First Multiuser-Version of NUMROTOplus

2000
Photo of the first Grindtec stand 2000

2000
Data interface to measuring machine

2001
3D-Simulation Vericut

2004
1'000th NUMROTO delivery

2006
First NUMROTO 3D simulation

2006
Measuring in process

2007
QW' analysis in NUMROTO 3D simulation

2012
Presentation of NR Draw

2012
25 years of NUMROTO!
3000 NUMROTO-Installations, on more than 40 different machine models, at more than 1000 customers in 50 countries.

We are there!



NUM at GrandTec
Hall 7, Booth 7065

NUMROTO at GrindTec 2012

NUM, together with NUMROTO, will be exhibiting at GrindTec exhibition in Augsburg in March 2012. We will be showing you the latest NUMROTO innovations and will be available for constructive conversations. Visit us from the 14th to the 17th of March 2012 in Augsburg: our team is looking forward to greeting you. You will find NUMROTO in **Hall 7, Booth 7065**.

And of course, there will also be many grinding machine manufacturers showing machines that use NUM CNC systems and NUMROTO. These are:

Exhibitor:	Hall:	Booth:
UWS	3	3026
Saacke	1	1002
Ewag	7	7041
Michael Deckel	7	7060
TTB	1	1002
Hawema	7	7037
Farman	3	3095

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www.num.com
www.numroto.com



NUMROTO: 25 years in service of our customers

Do you remember what your PC looked like around 1990, how fast its processor was, how much memory it had and which operating system it used? Can you still remember 5 1/4" floppy disks?

In this Flash you will find a timeline of NUMROTO's key dates from 1987 to 2012. Some of the events made us chuckle, and some caused "aha" reactions. It will surely bring back a few memories for you as well.

When we think about the last 25 years, three aspects in particular seem to bear mentioning: 1st even machines of the earliest design were able to be updated again and again with the newest software. 2nd the customers we had at the very beginning are still among our most loyal users today. 3rd thanks to the close cooperation with our customers, we have a system to-

day that allows the enormously challenging machining processes of tool grinding to be safely controlled.

NUMROTO is not just a software program, but has developed into a complete system for tool grinding over the years. The system today has remarkable functions, some of which have become standard for tool grinding. At GrindTec 2012 in Augsburg, we are presenting an interesting system overview with a number of new functions.

NUM looks forward to welcoming you at Stand 7065 in Hall 7 at GrindTec from 14 to 17 March 2012 in Augsburg.

Peter von Rüti, CEO NUM Group



