

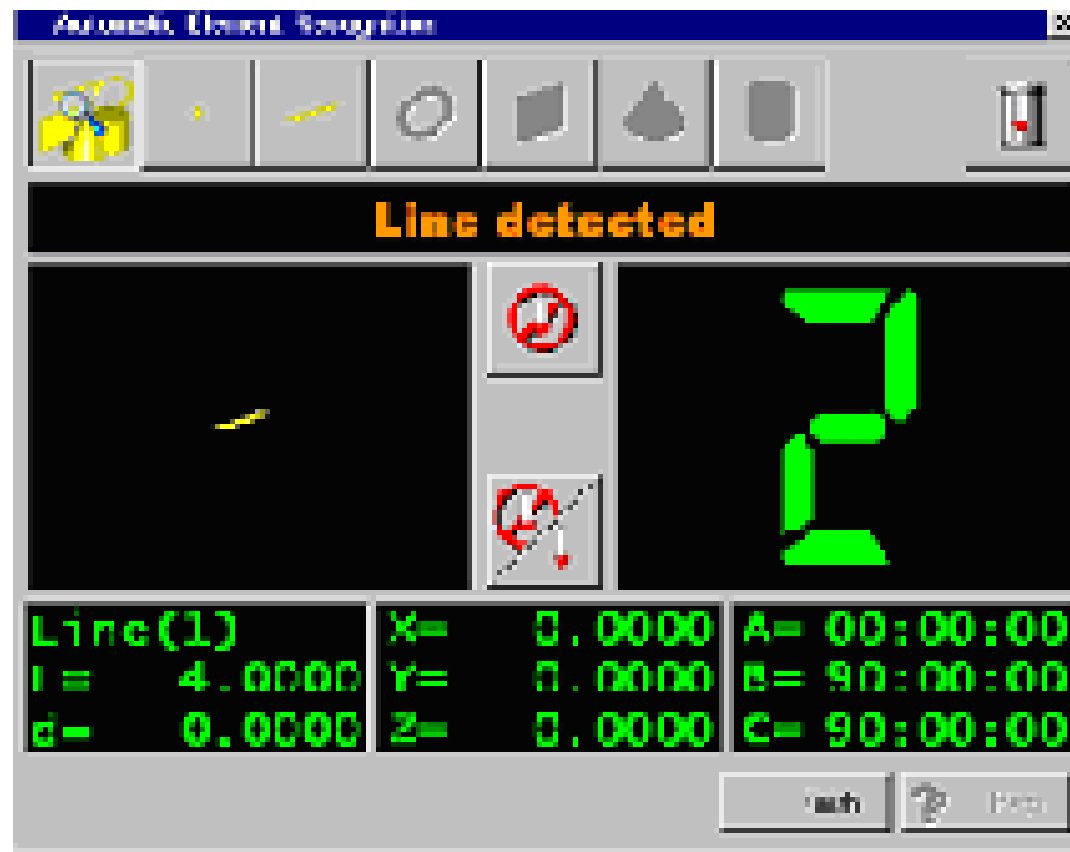


DIFERENÇAS ENTRE AS VERSÕES DO GEOPAK

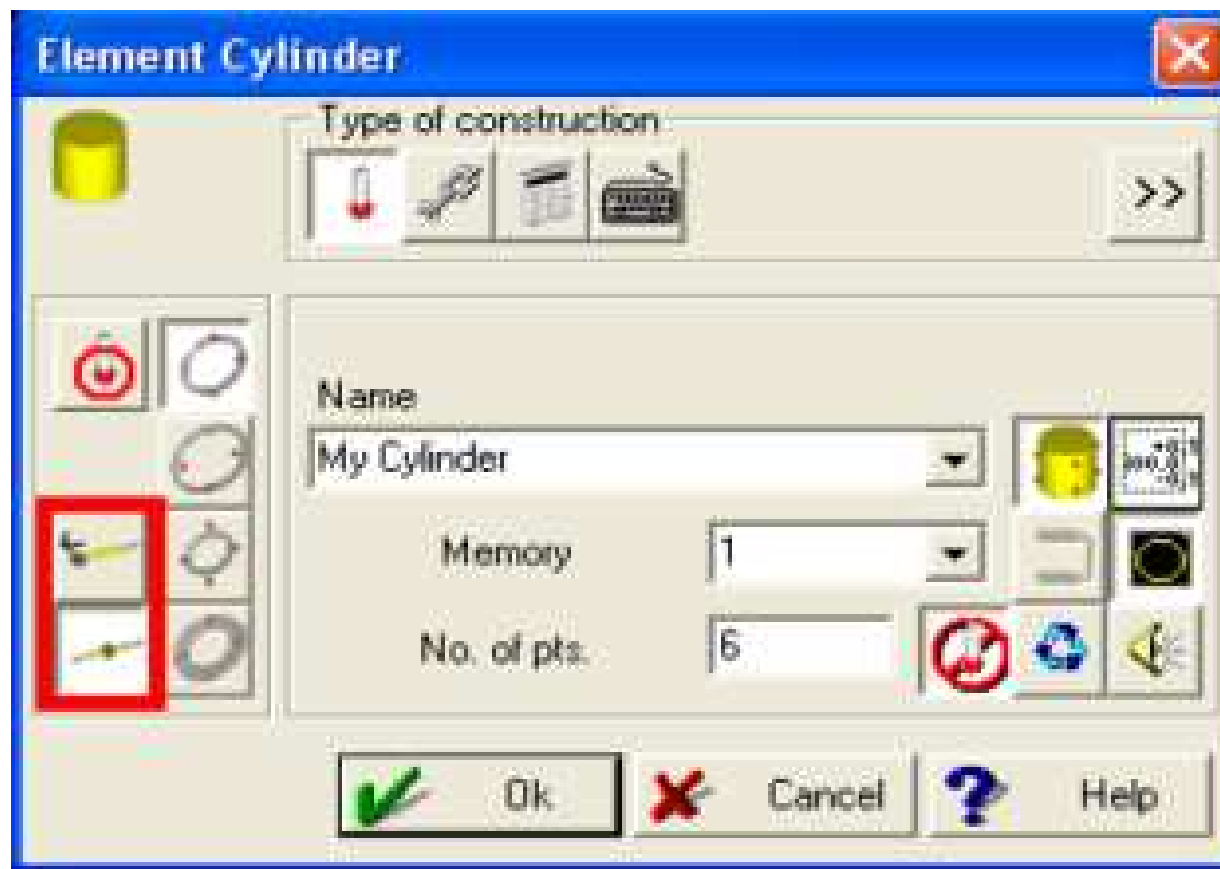


MCOSMOS VERSÃO 2.4

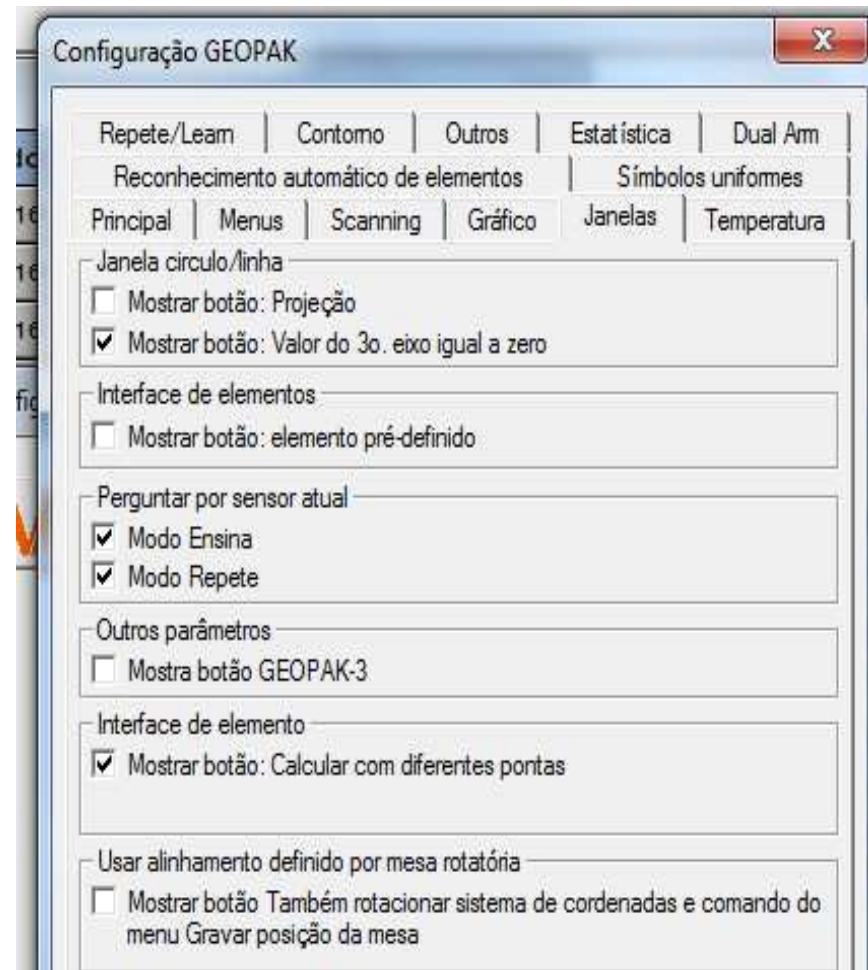
AUTOMÁTICO RECONHECIMENTO DE ELEMENTOS



CENTROÍDE OU DISTÂNCIA PROJETADA



CALCULAR UM ELEMENTO GEOMÉTRICO COM DIFERENTES PONTAS.



ELEMENTOS INCLINADOS

Elemento Quadrado inclinado

Plano

Nome

Plano

Memória 1

Número de 4

Quadrado

Nome

Quadrado inclinado

Memória 1

Número de 4

OK Cancelar Ajuda

Elemento Triângulo inclinado

Plano

Nome

Plano

Memória 1

Número de 4

Triângulo

Nome

Triângulo inclinado

Memória 1

Número de 5

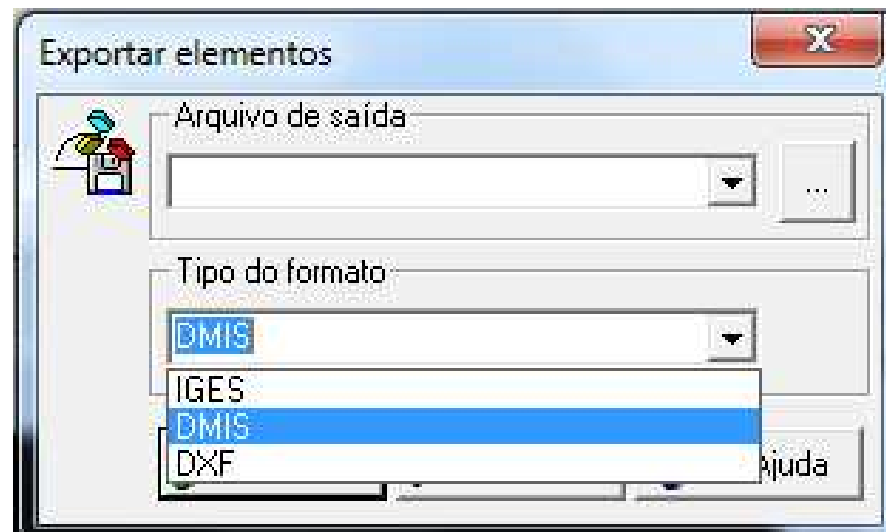
OK Cancelar Ajuda

TOLERÂNCIA DE CONTORNO

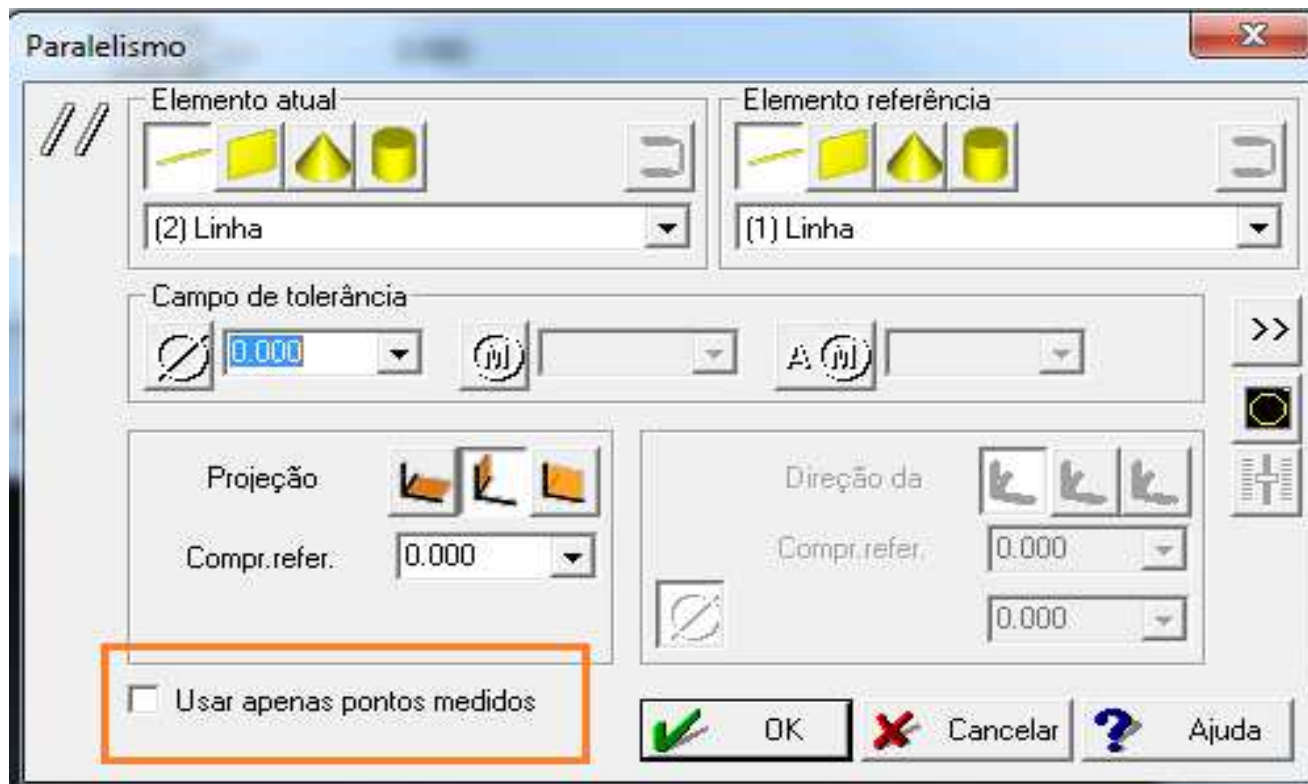


EXPORTAR ELEMENTOS

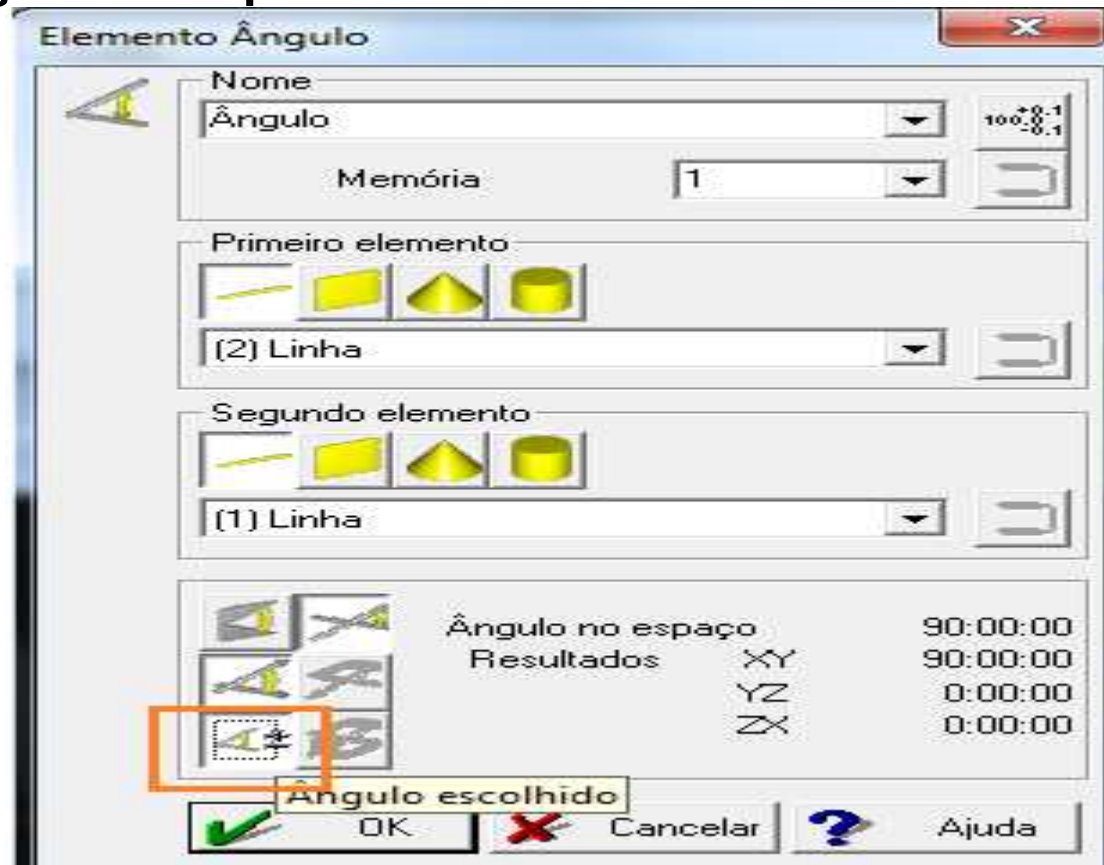
- Menu saída, Export element.



Permite que o comprimento ou área usado para calcular tolerâncias como perpendicularidade, paralelismo, batimento axial, etc. seja calculado através dos pontos medidos e não por valores informados



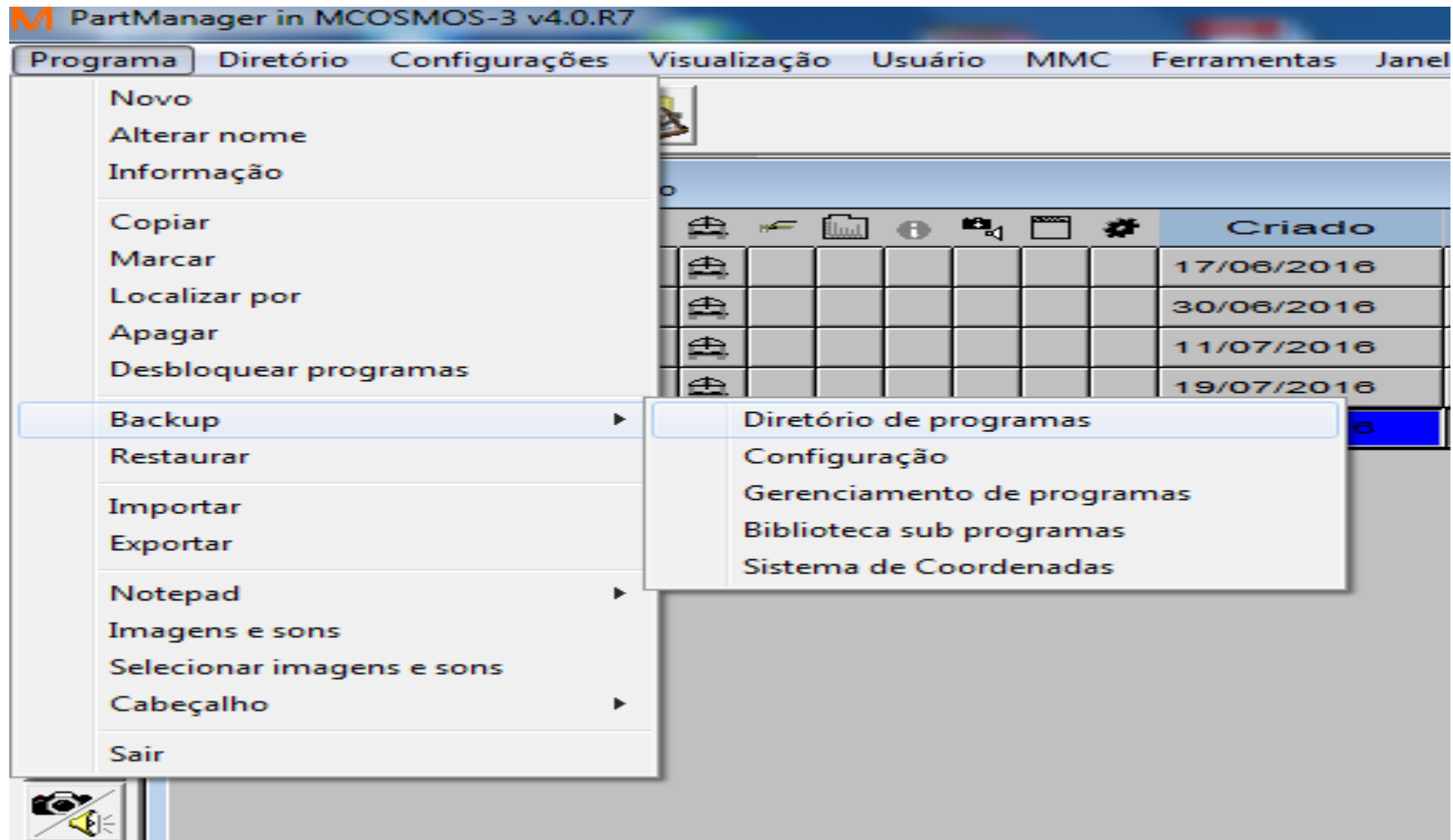
Caso seja desejado, o ângulo calculado é exibido com sinal positivo ou negativo facilitando assim a leitura de relatório e correção do produto



RESULTADO DO ELEMENTO (CENTROÍDE OU DISTANCIA PROJETADA)



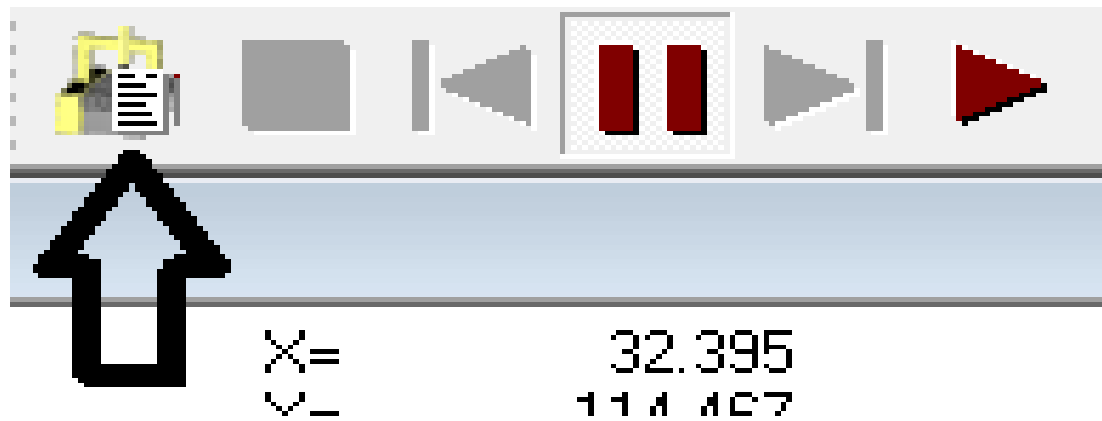
BACKUP



MOVIMENTO CIRCULAR



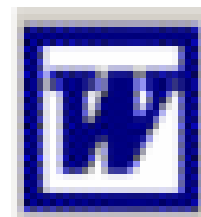
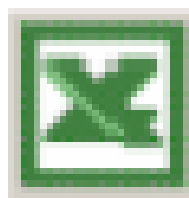
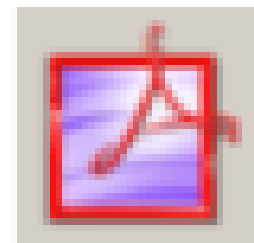
ICONE DO EDITOR NA JANELA DO MODO REPETE

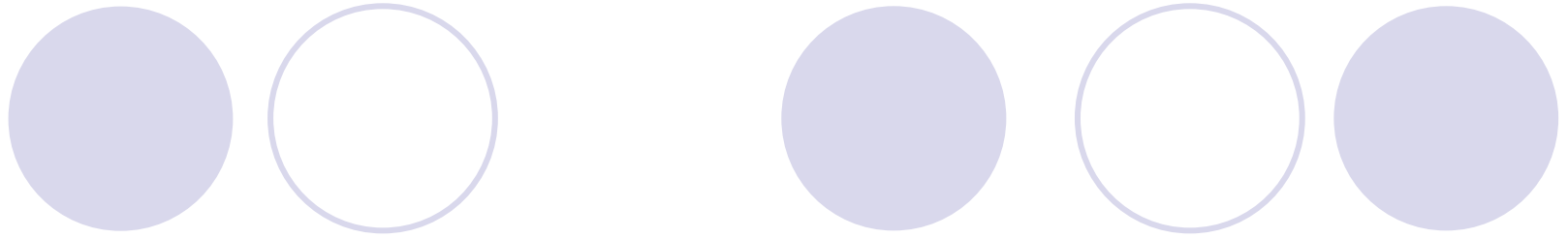


VERDADEIRA POSIÇÃO PARA LINHA E PLANO



RELATÓRIOS EM DIFERENTES FORMATOS





MCOSMOS VERSÃO 3.0



CONFIGURAÇÃO

3 Hardware configuration

For the application of MCOSMOS, an IBM-compatible PC is required. The minimum requirement is a Pentium 4 processor (min. 1 GHz, recommended 2 GHz). The program requires a minimum 256 MB RAM and 30 GB HD memory capacity (excluding the temporary files and the created part program files).

If used in combination with CAT1000P or CAT1000S, we recommend minimum 1.5 GHz (recommended 3 GHz) and 512 MB RAM (up to 1 GB for big CAD models), if the CAD models are not in excess of the free HD memory capacity. The graphics card must be unlimited open GL-capable and have a capacity of minimum 128 MB (recommended 256 MB).

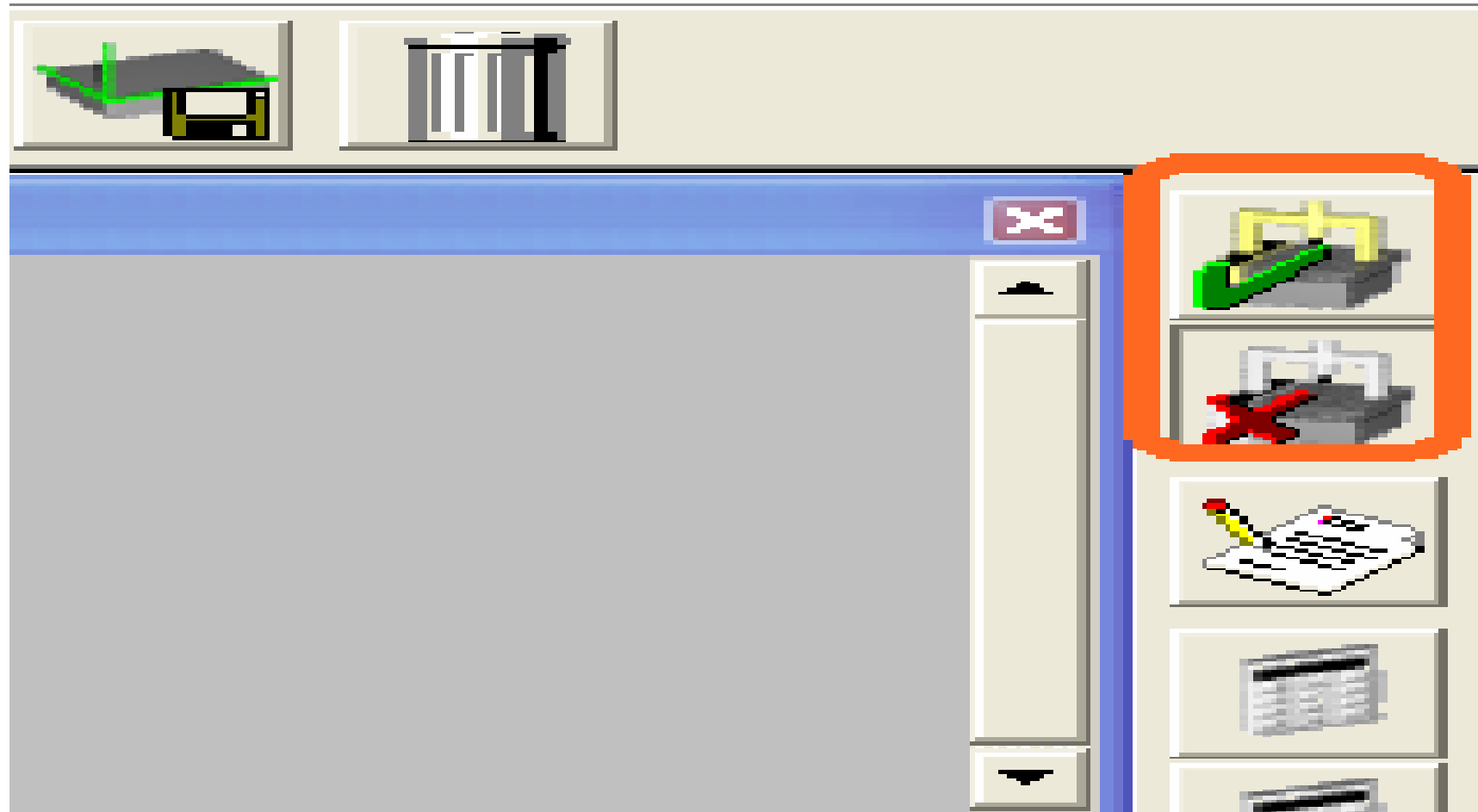
SISTEMA OPERACIONAL COMPÁTIVEL

Operating System	Supported	Requirements / Remarks
Windows 95	No	
Windows 98	No	
Windows Me	No	
Windows NT 4.0	No	
Windows 2000	Yes	Service Pack 4
Windows XP Home	No	
Windows XP Professional	Yes	Service Pack 2

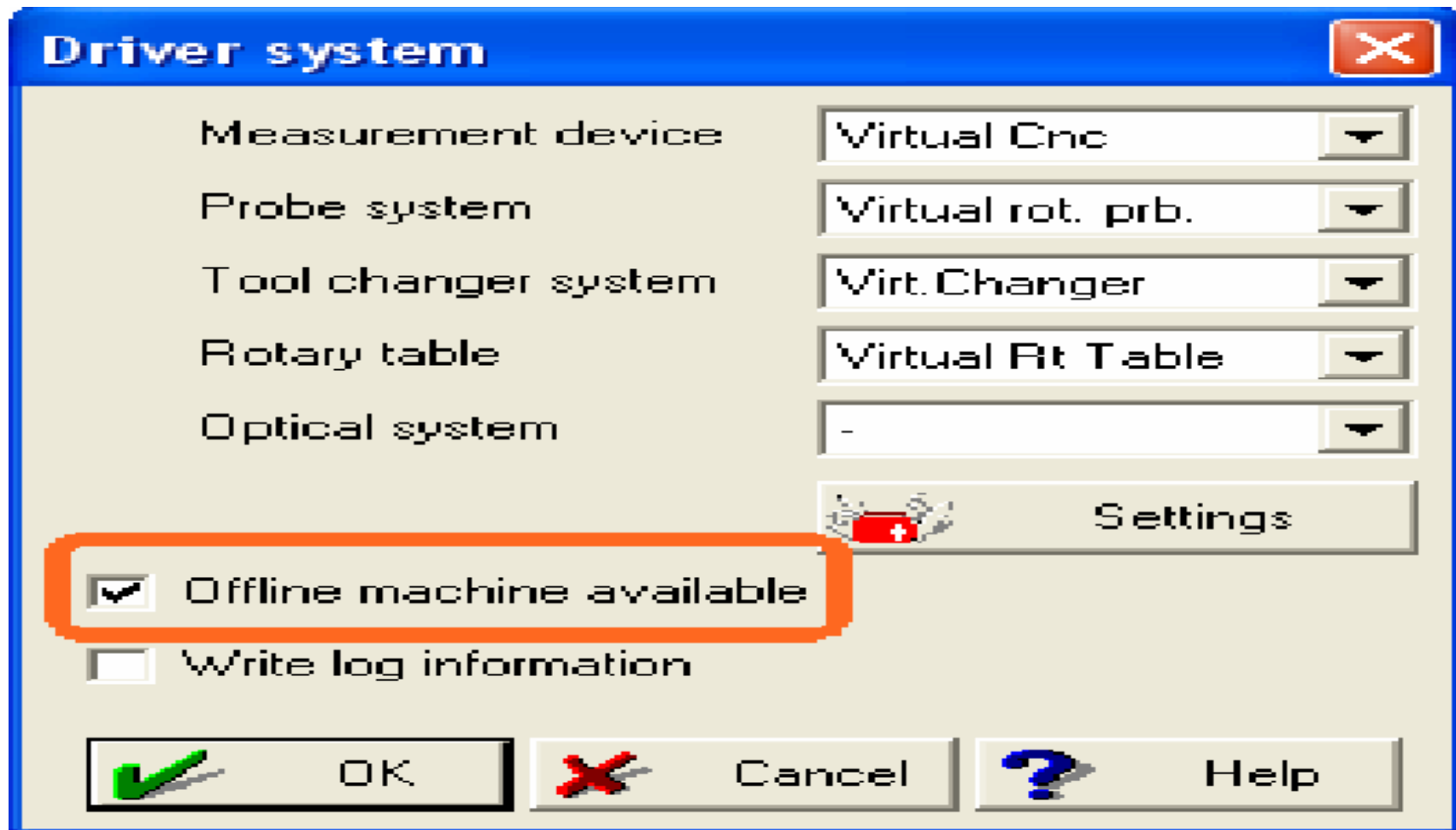
Permite colocar as comparações de tolerância na ordem desejada no relatório sem a necessidade de que estejam ordenadas no programa.



ONLINE AND OFFLINE MACHINE NO MODO ENSINA E REPETE



ENTRAR NO GEOPAK OFFLINE





MCOSMOS VERSÃO 3.1



CONFIGURAÇÃO

2 Hardware configuration

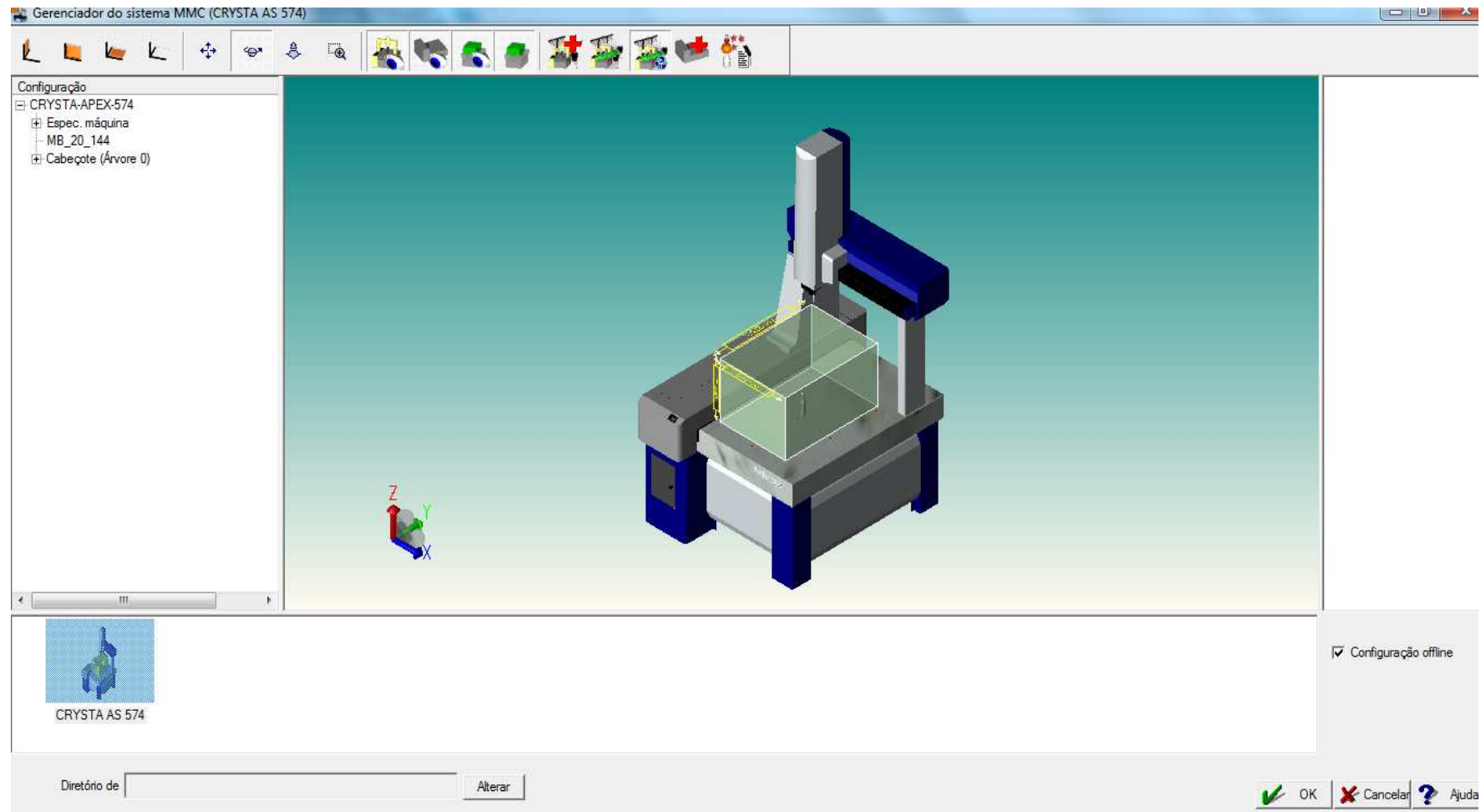
For the application of MCOSMOS, an IBM-compatible PC is required. The minimum requirement is a Pentium 4 processor (minimum. 2 GHz, recommended Intel Core 2 Duo processor 3 GHz). The program requires a minimum 256 free MB RAM and 512 MB free recommended and 30 GB HD memory capacity (excluding the temporary files and the created part program files). A full "OpenGL" compatible graphics card with a minimum RAM of 256 MB with 512 MB RAM recommended

If used in combination with CAT1000P or CAT1000S, we recommend minimum Pentium 4 processor 2.8 GHz (recommended Intel Core 2 Duo 3 GHz or higher) and 1GB RAM (up to 2 GB for big CAD models), if the CAD models are not in excess of the free HD memory capacity. The graphics card must be a full "OpenGL" compatible graphics card and have a capacity of minimum 256 MB RAM(recommended 512MB RAM).

SISTEMA OPERACIONAL

Operating System	Supported	Requirements / Remarks
Windows 95	No	
Windows 98	No	
Windows Me	No	
Windows NT 4.0	No	
Windows 2000	No	
Windows XP Home	No	
Windows XP Professional (32 Bit)	Yes	Service Pack 2
Windows Vista Business Edition (32 Bit)	Yes	

CMM SYSTEM MANAGER (CSM)



GENERATE PART PROGRAM

Generate part program for calibration #1

Tree no.

- Tree 1
- Tree 2
- Tree 3
- Tree 4
- Tree 5
- Tree 6

#	Calib. Date/Time	Diam.	Max. defl.	A	B	X
<input checked="" type="checkbox"/> 1	---	4.0000	0.0000	0.0	0.0	0.0000
<input checked="" type="checkbox"/> 2	---	4.0000	0.0000	45.0	-90.0	-135.3756
<input checked="" type="checkbox"/> 3	---	4.0000	0.0000	90.0	0.0	0.0000
<input checked="" type="checkbox"/> 4	---	4.0000	0.0000	22.5	90.0	73.2647

Parameters of calibration

Part name: MY AutoCal

Archive name (optional): My probes

No. of executions: 2

Probe change distance above: 10.0000 mm

Determine probe factors

No. of points per circle: 4

No. of circles: 1

Point on top of sphere

Height angle 1 (deg): 15.0000

Height angle 2 (deg): 90.0000

CNC parameters

Movement speed: 50.0000 mm/s

Measurement speed: 3.0000 mm/s

Sef. dist. for first exec.: 5.0000 mm

Sef. dist. for following exec.: 5.0000 mm

Deflection (Touch trigger): 0.4000 mm

Deflection (Scanning): 0.4000 mm

High precision measurement

Master Ball info:

Use defined masterball

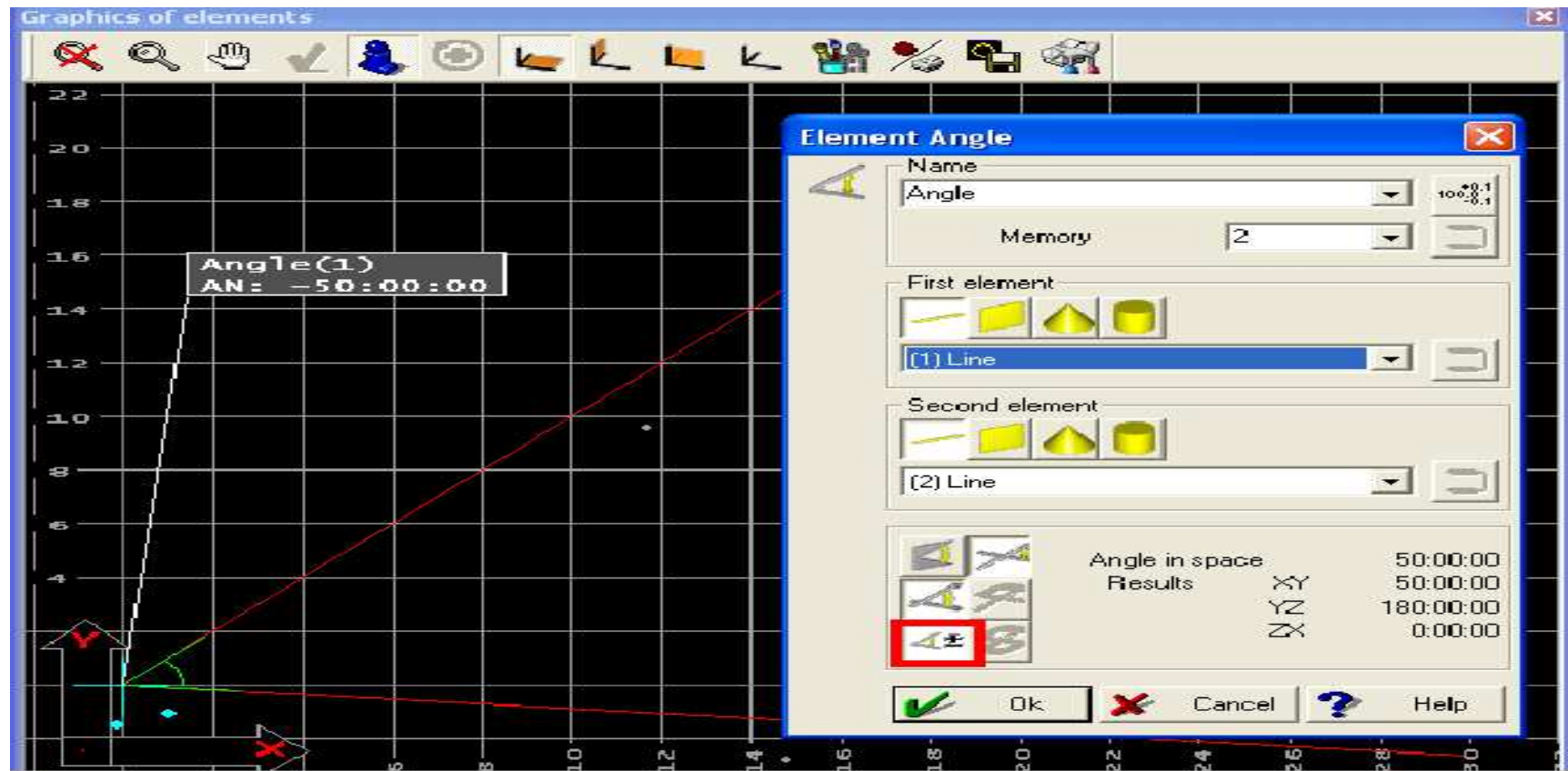
Manual point on top of sphere

#	X	Y	Z	Diam.
1	0.0000	0.0000	1.0000	25.3964

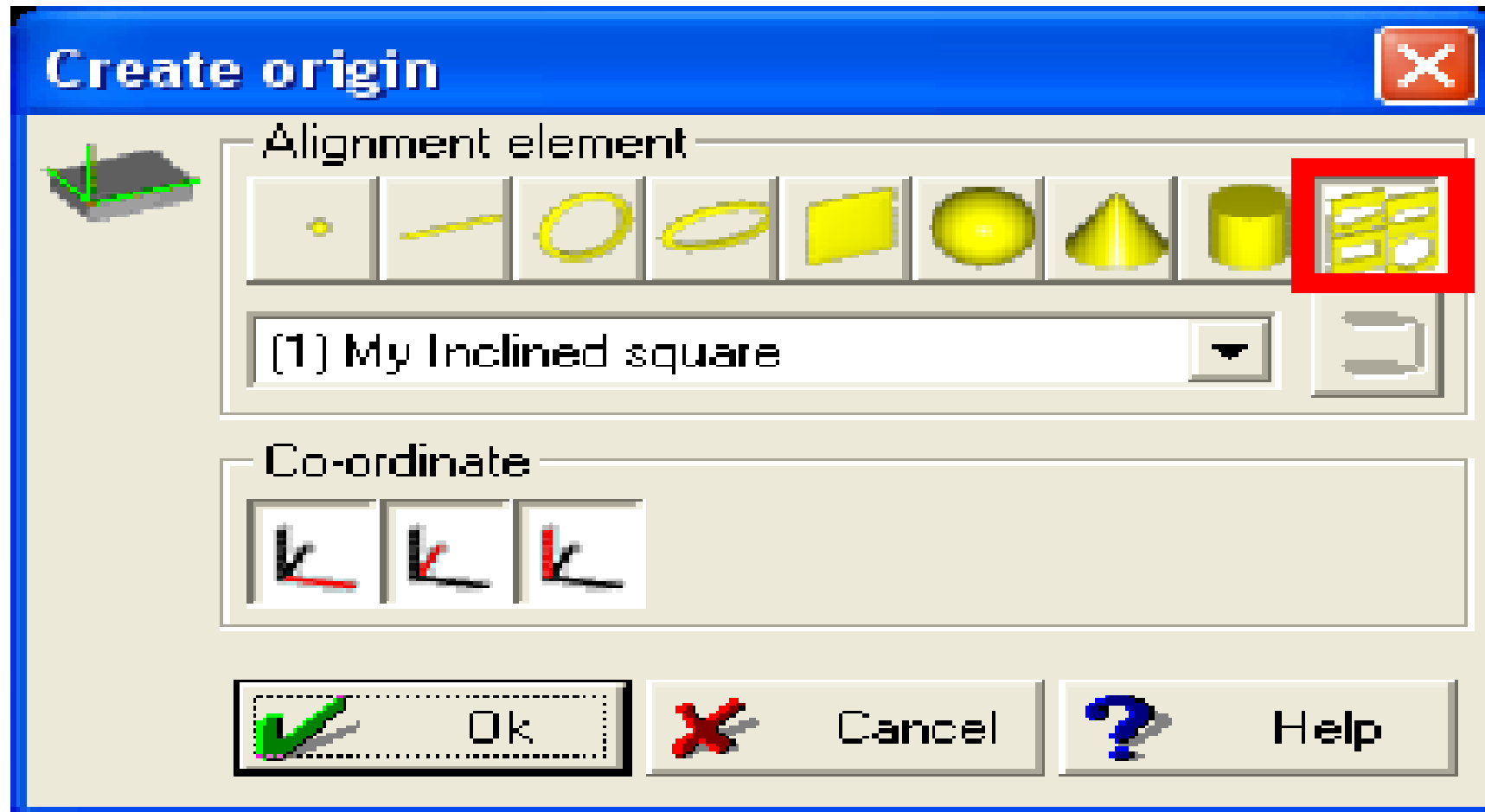
Buttons: Top, Side, Front, 3D, Disc styl parameters...

Buttons: OK, Cancel, Help

Ângulo calculado é exibido com sinal positivo ou negativo facilitando assim a leitura de relatório e correção do produto




































SISTEMA DE COORDENADAS USANDO ELEMENTO INCLINADO



SISTEMA DE COORDENADAS USANDO ELEMENTO INCLINADO

RPS alignment ✕

 First reference (1) My Inclined square	First nominal values  0.0000  0.0000  0.0000 
 Second reference (1) Point	Second nominal values  0.0000  0.0000  0.0000 
 Third reference (1) Point	Third nominal values  0.0000  0.0000  0.0000 
 Fourth reference (1) Point	Fourth nominal values  0.0000  0.0000  0.0000 
 Fifth reference (1) Point	Fifth nominal values  0.0000  0.0000  0.0000 
 Sixth reference (1) Point	Sixth nominal values  0.0000  0.0000  0.0000 

 Ok  Cancel  Help

SISTEMA DE COORDENADAS USANDO ELEMENTO INCLINADO



PARÂMETROS DE INICIALIZAÇÃO CNC

CNC start parameter

Part program start behaviour

- Start with predefined CNC parameters
- Ignore predefined CNC start parameters

CNC start parameters | CNC start parameters for UMAP

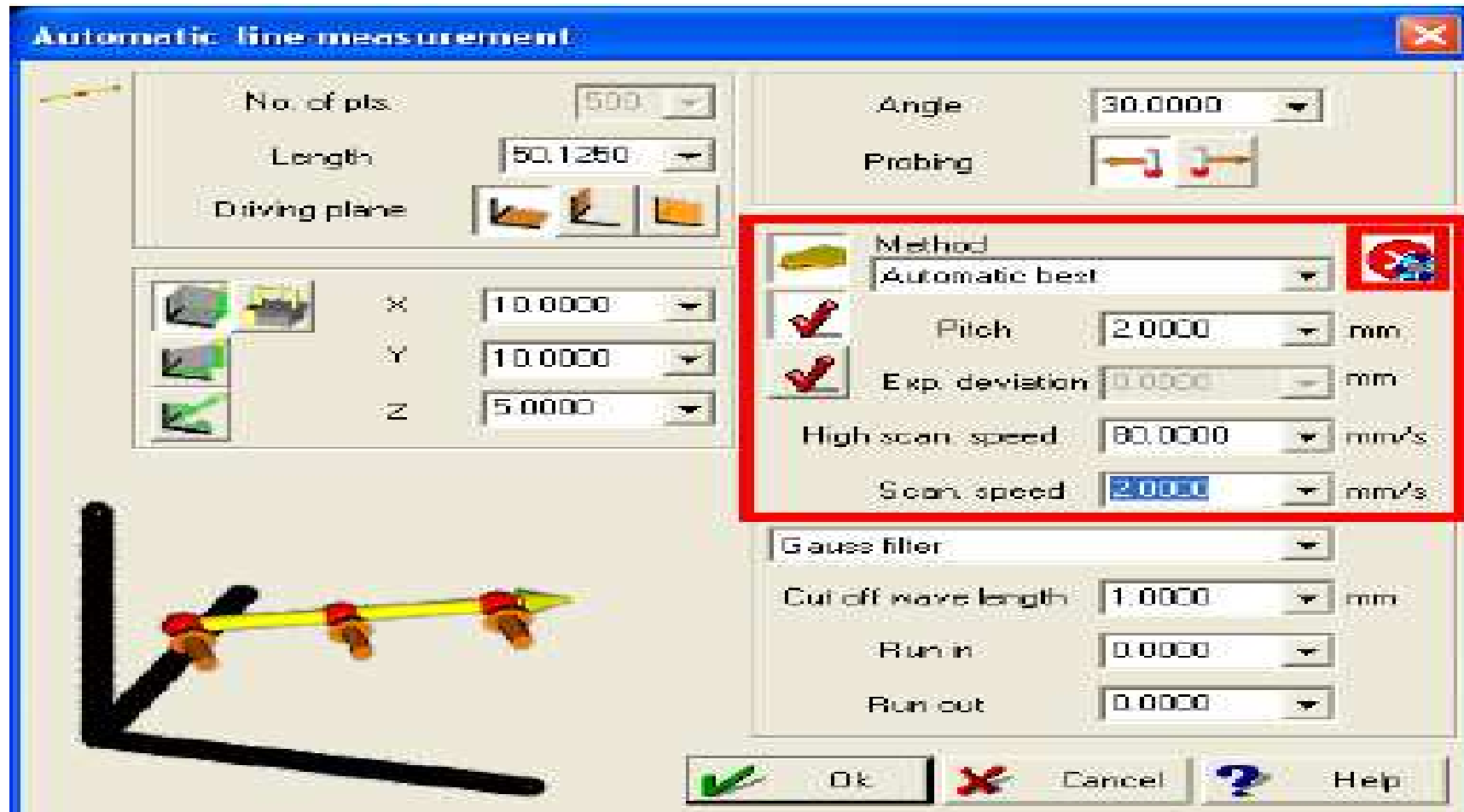
Movement speed	X	■	■	■	100.000	mm/s
Measurement speed	X	■	■	■	3.000	mm/s
Safety distance	X			■	0.500	mm
Retraction length	X	⊘		■	0.000	mm
Measurement length	X			■	100.000	mm
Positioning distance	X			■	1.000	mm
Optimize movement by rounded corners	X	⊘	✓		0.500	mm
Optimize scanning by rounded corners	X	⊘	✓			
Scanning probe						
Deflection [Touch trigger]	X			■	0.000	mm
Deflection [Scanning]	X			■	0.350	mm
High precision measurement	X	⊘	✓			

✓ OK X Cancel ? Help

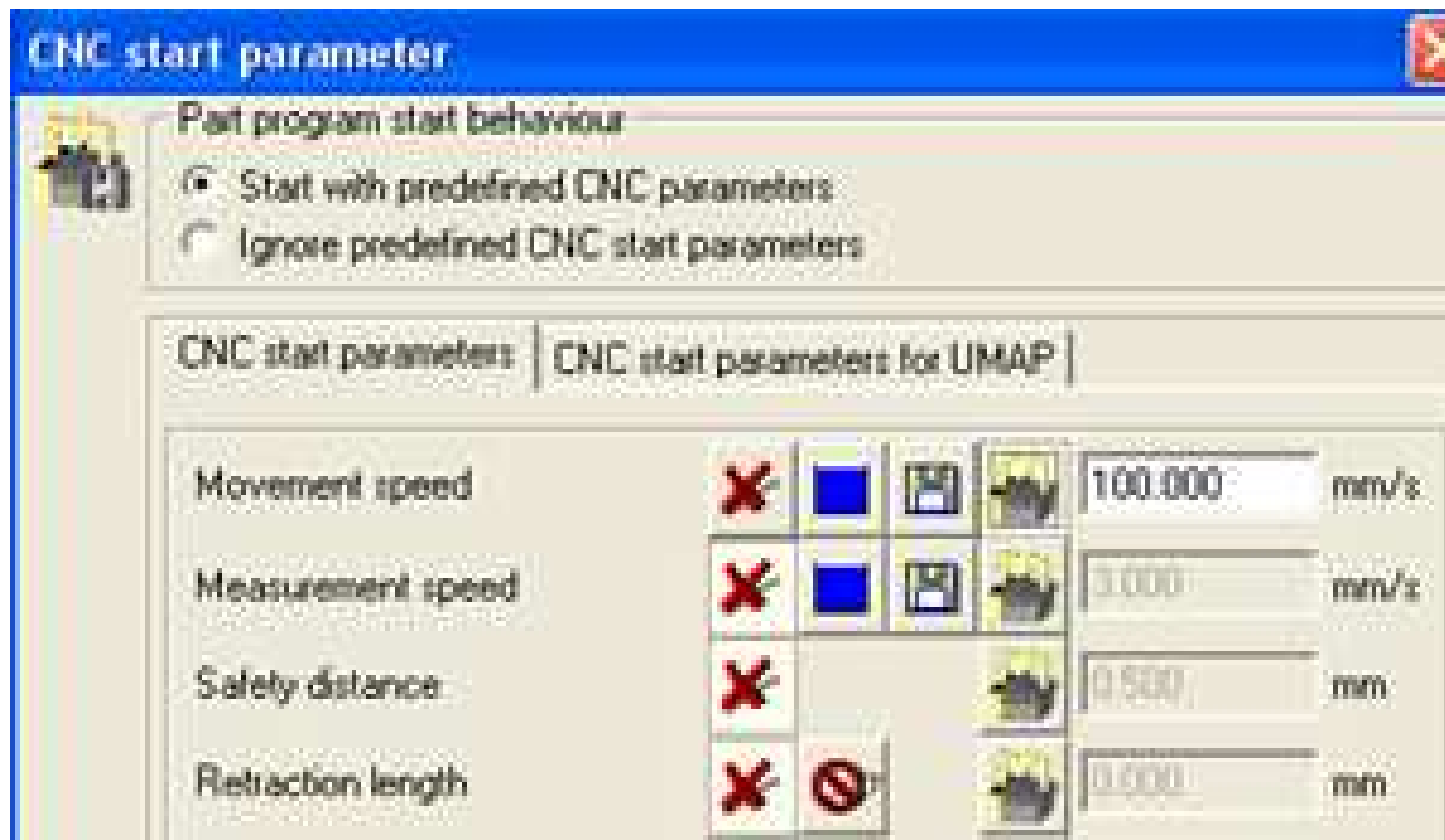
DEFLEXÃO DA PONTA A PARTIR DO NOMINAL DO ELEMENTO MEDIDO

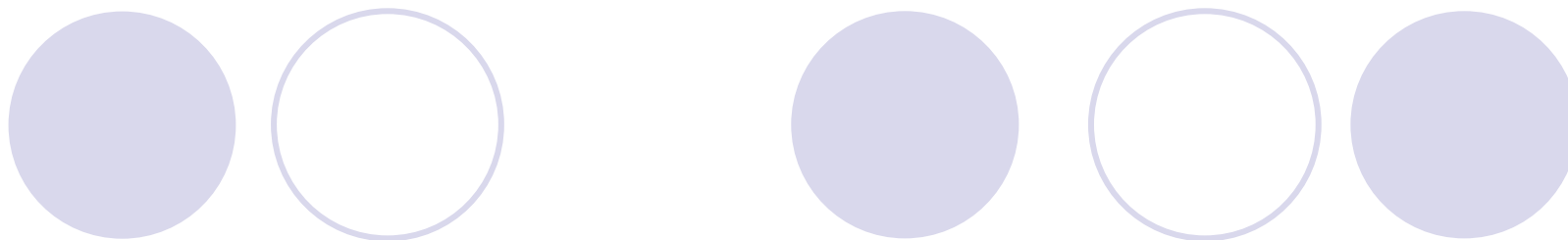


REPETE O ESCANEAMENTO



Permite seleccionar se os parâmetros alterados serão considerados em novos programas e possui um novo campo para definir a distância de retração





MCOSMOS VERSÃO 3.2

CONFIGURAÇÃO MÍNIMA PARA O COMPUTADOR

1 Hardware configuration

1.1 MCOSMOS Hardware (Minimum Configuration)

Processor

Multi-core processor (2.0 GHz)

Memory

3 GB RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro FX 3800 (1024 MB RAM)



SISTEMA OPERACIONAL

1.2 MCOSMOS Software

Supported operating systems

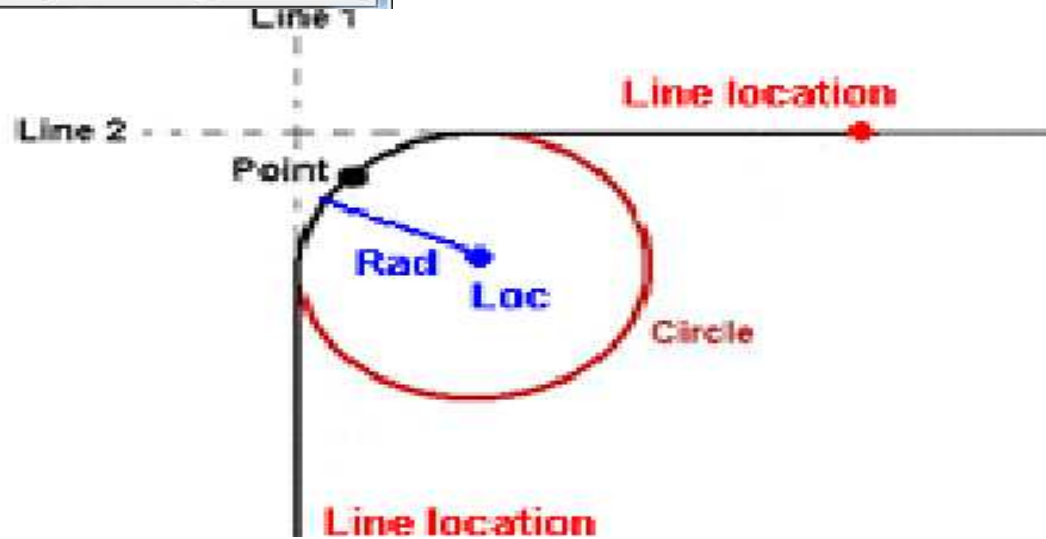
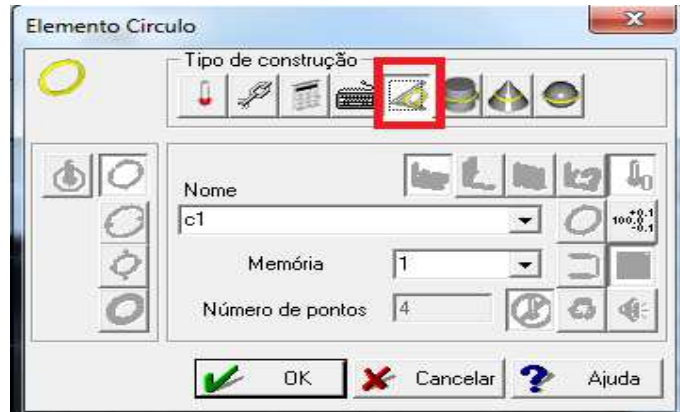
Windows 7 (32-bit)

Windows Vista (32-bit)

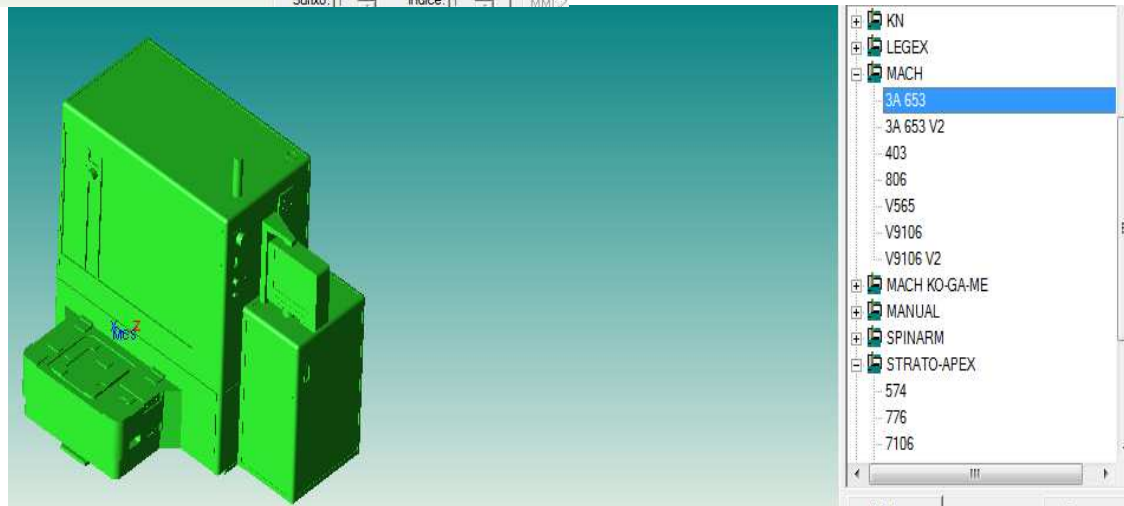
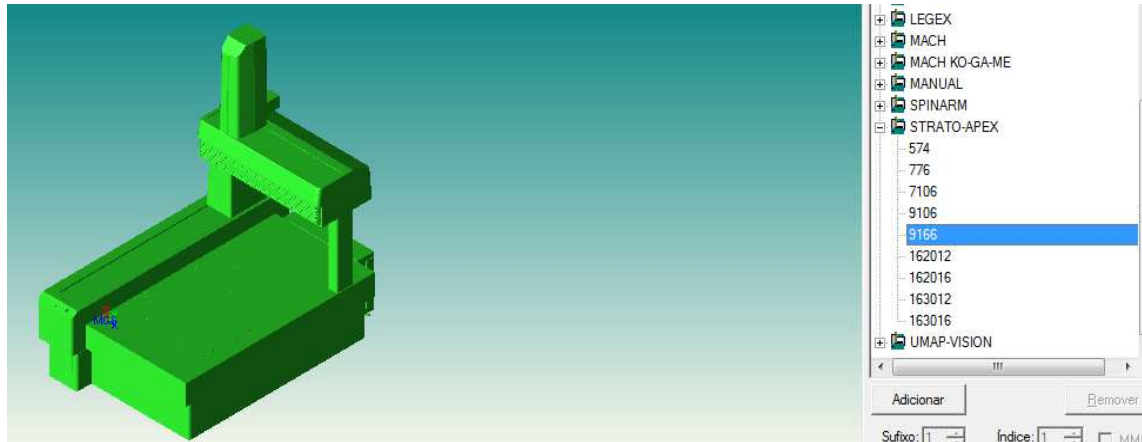
Windows XP (32-bit)

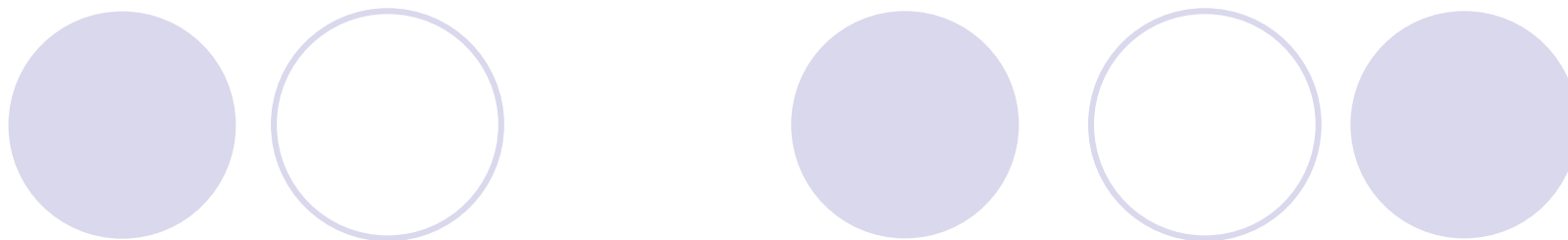
64-bit versions of Windows are not supported.

CALCULAR UM RAIOS A PARTIR DE DUAS LINHAS



MAIS MODELOS DE CMM ADICIONADOS DO CSM





MCOSMOS VERSÃO 3.3



CONFIGURAÇÃO

2 Hardware Configuration

2.1 MCOSMOS Hardware (Minimum Configuration)

Processor

Multi-core processor (2.0 GHz)

Memory

3 GB of RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro 2000 (1024 MB of RAM)



SISTEMA OPERACIONAL

2.2 MCOSMOS Software

Supported operating systems

Windows 7 (32-bit and 64-bit)

Windows Vista (32-bit)

Windows XP (32-bit)

CÁLCULO ENTRE ELEMENTOS INFINITOS



BRAÇO DE MEDIÇÃO CMM SYSTEM



SPINARM

APEX 246H

APEX 307S

APEX 366



MCOSMOS VERSÃO 3.4



CONFIGURAÇÃO

2 Hardware and Software

2.1 MCOSMOS Hardware (Minimum Configuration)

Processor

Multi-core processor (2.0 GHz)

Memory

3 GB of RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro FX 2000 (1024 MB of RAM)

2.2 Operating Systems

Supported operating systems

Windows 7 (32-bit and 64-bit)

Windows Vista (32-bit)

Windows XP (32-bit)



CONFIGURAÇÃO

2 Hardware and Software

2.1 MCOSMOS Hardware (Minimum Configuration)

Processor

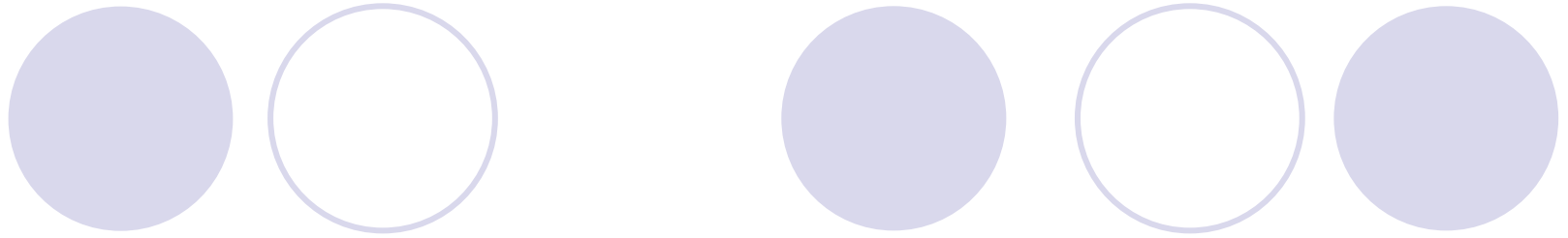
Multi-core processor (2.0 GHz)

Memory

3 GB of RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro 2000 (1024 MB of RAM)



MCOSMOS VERSÃO 3.5



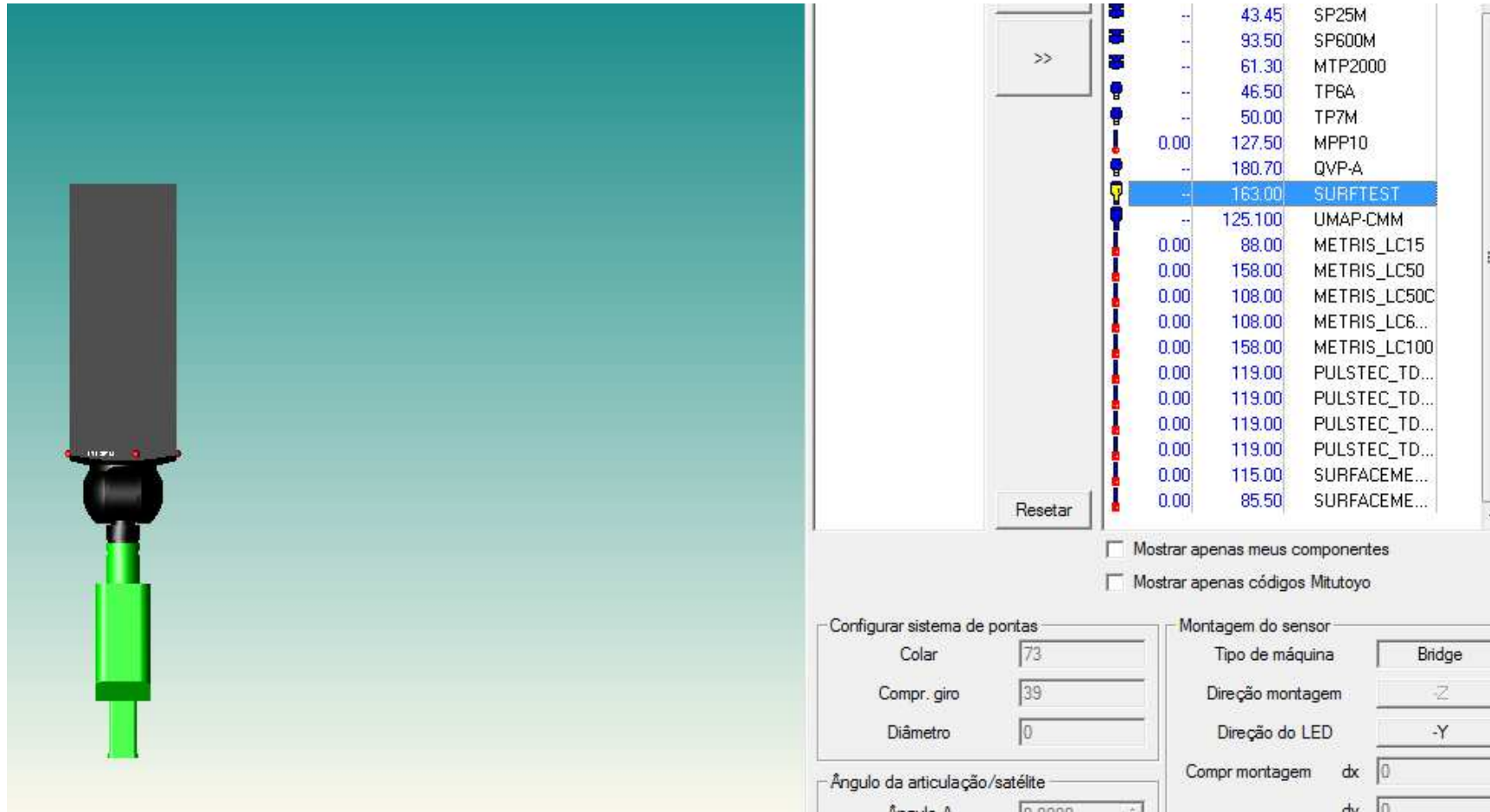
SISTEMA OPERACIONAL

2.2 Operating Systems

Supported operating system

Windows 7 (32-bit and 64-bit)

SURF TEST PROBE





MCOSMOS VERSÃO 4.0

CONFIGURAÇÃO



2 Hardware and Software

2.1 MCOSMOS hardware (minimum configuration)

Processor

Multi-core processor (2.0 GHz)

Memory

3 GB of RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro 2000 (1024 MB of RAM)

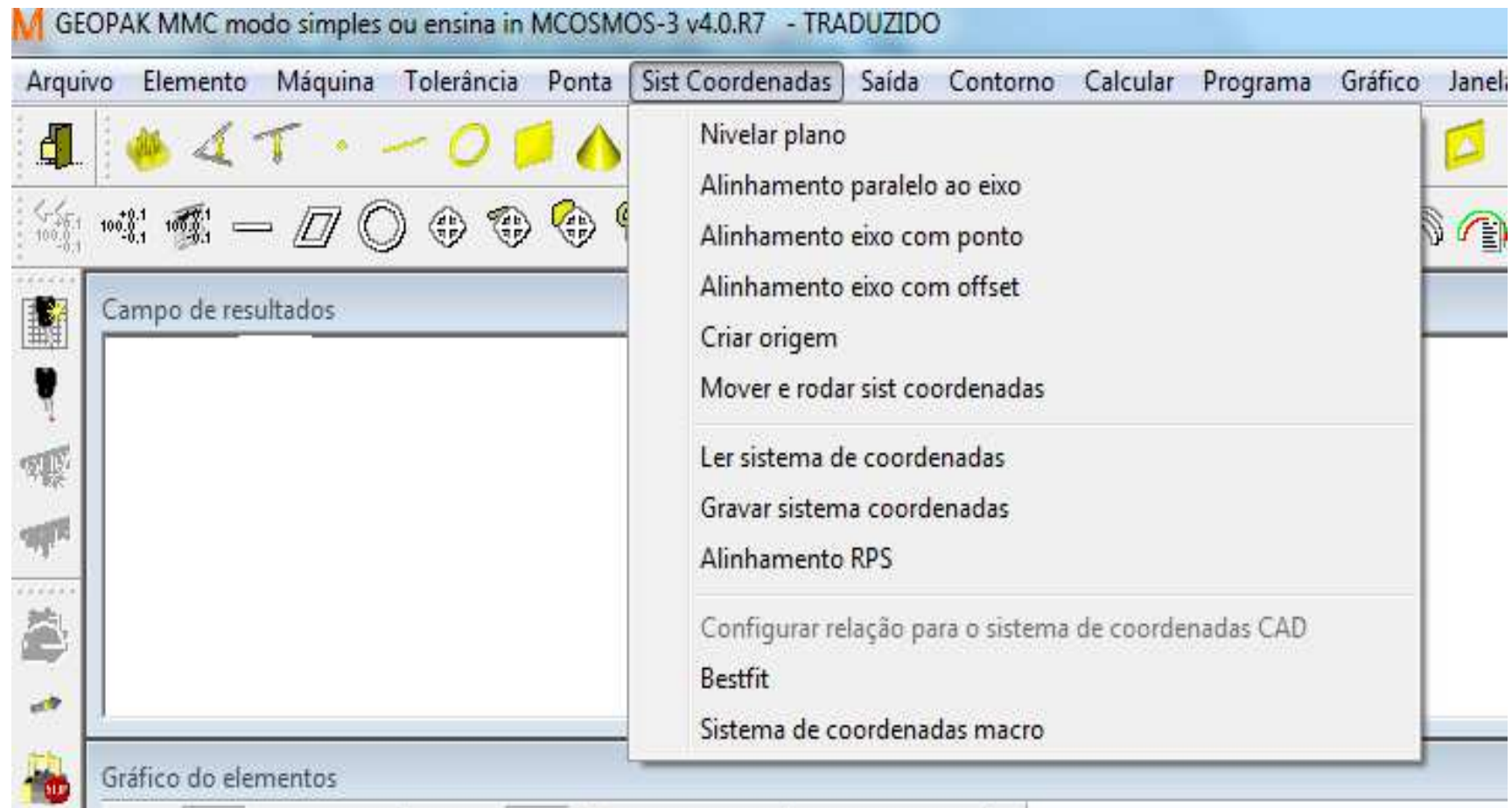
2.2 Operating systems

Supported operating system

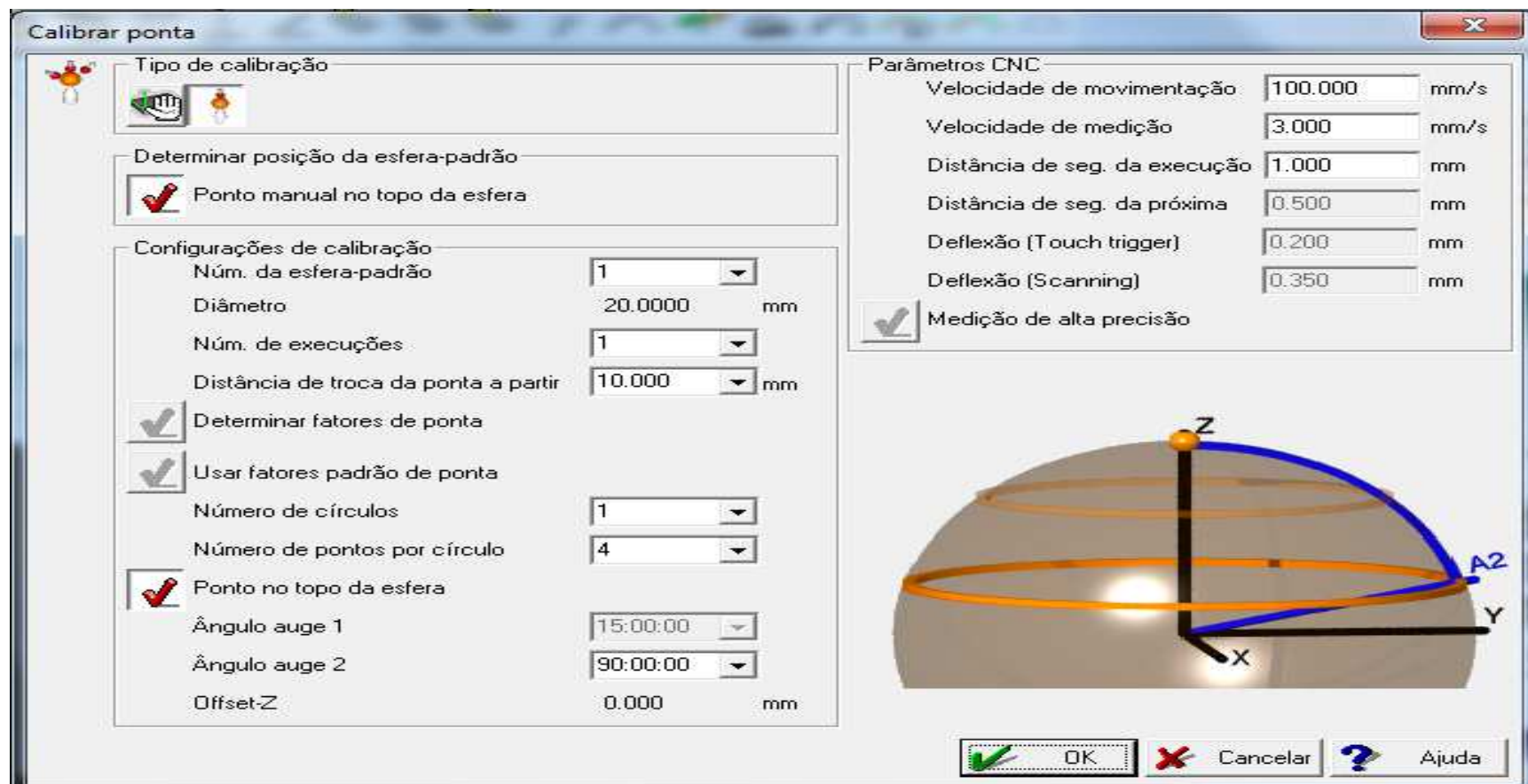
Windows 7 SP1 (32-bit and 64-bit)

Windows 8 (32-bit and 64-bit)

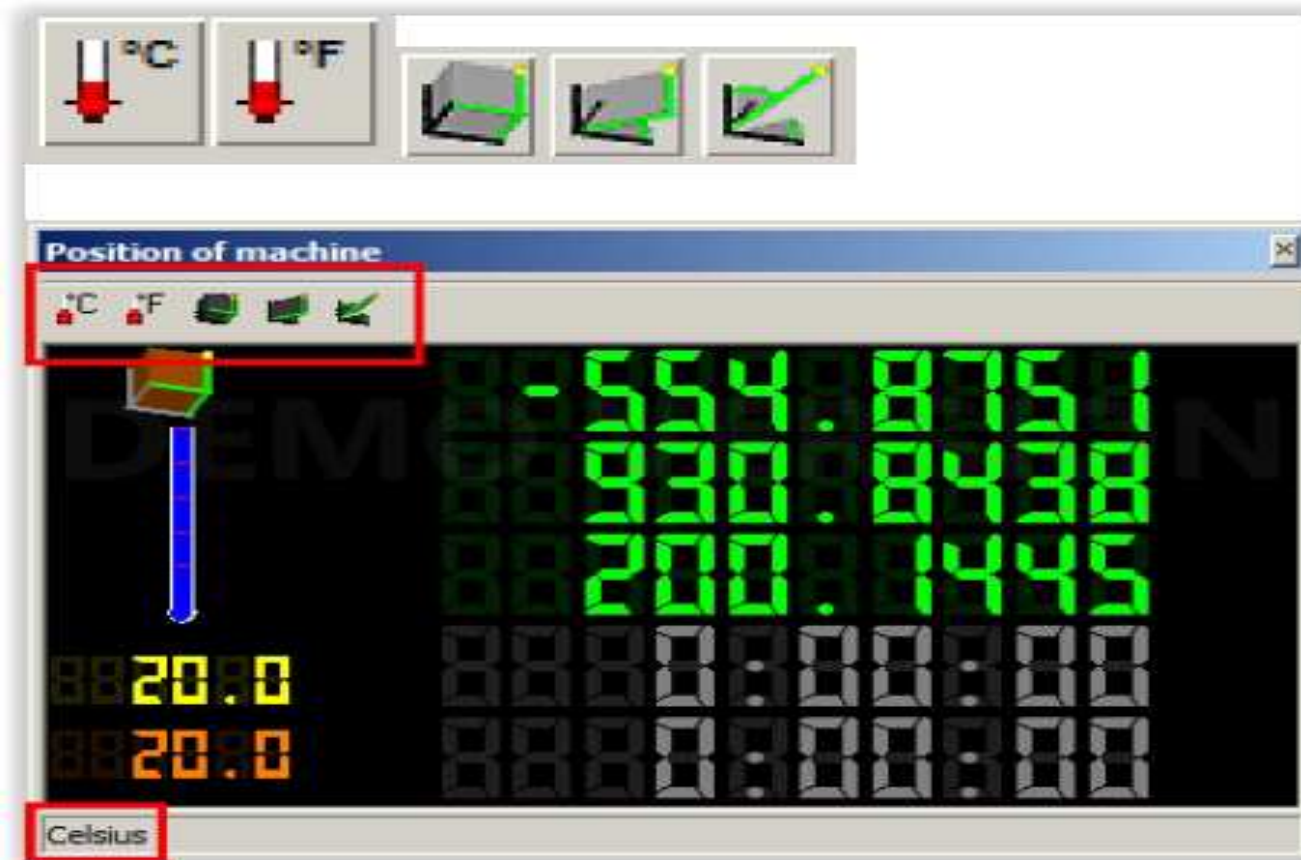
PRIMEIRA VERSÃO DO MCOSMOS TRADUZIDA COMPLETAMENTE PARA O PORTUGUÊS (4.0 R7)

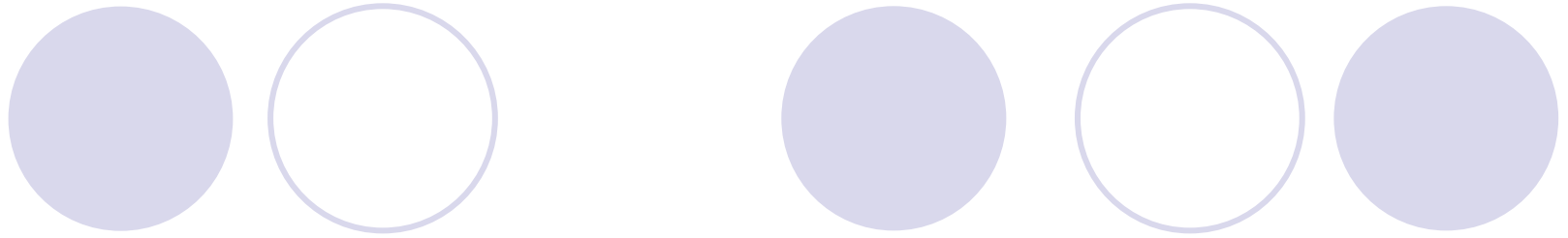


Permite a troca dos módulos do SM25 sem que perca as configurações de escaneamento que já existiam.



Alterar a unidade de temperatura para Celsius ou Fahrenheit, mudança de coordenada modo cartesiano para Cilindrico.





MCOSMOS VERSÃO 4.1



CONFIGURAÇÃO

2 Hardware and Software

2.1 MCOSMOS hardware (minimum configuration)

Processor

Multi-core processor (2.0 GHz)

Memory

3 GB of RAM (DDR2 RAM or higher)

Graphics card

NVIDIA Quadro 2000 (1024 MB of RAM)



SISTEMA OPERACIONAL

2.2 Operating systems

Supported operating system

Windows 7 SP1 (32-bit and 64-bit)

Windows 8 (32-bit and 64-bit)

Windows 8.1 (32-bit and 64-bit)

CATÁLOGO MITUTOYO DE PONTAS

Diã...	Compri...	Opções
--	7.00	K651062 (M2/...
--	7.50	K651056 (4w...
--	7.50	K651058 (5w...
--	19.45	K651054
--	19.30	K651053
--	7.50	A-5003-4011
--	7.50	K651052
--	7.50	A-5003-4787
--	7.50	A-5003-4788
--	3.00	K651100
--	7.50	A-5003-4697
--	10.50	K651101
--	40.00	K651350
--	50.00	K651351
--	70.00	K651352
--	90.00	K651353
--	60.00	M-5000-3721
--	90.00	M-5000-3720
--	40.00	K651041
--	30.00	K651044
--	40.00	K651045
--	50.00	K651046
--	10.00	K651038
--	20.00	K651039

Mostrar apenas meus componentes
 Mostrar apenas códigos Mitutoyo

BATIMENTO UTILIZANDO CONE

