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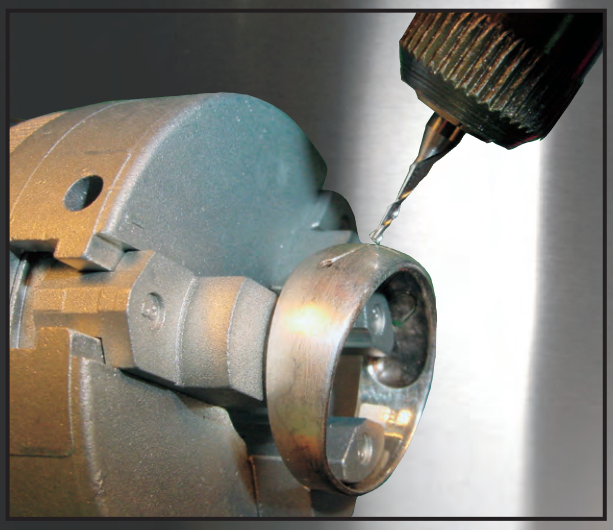
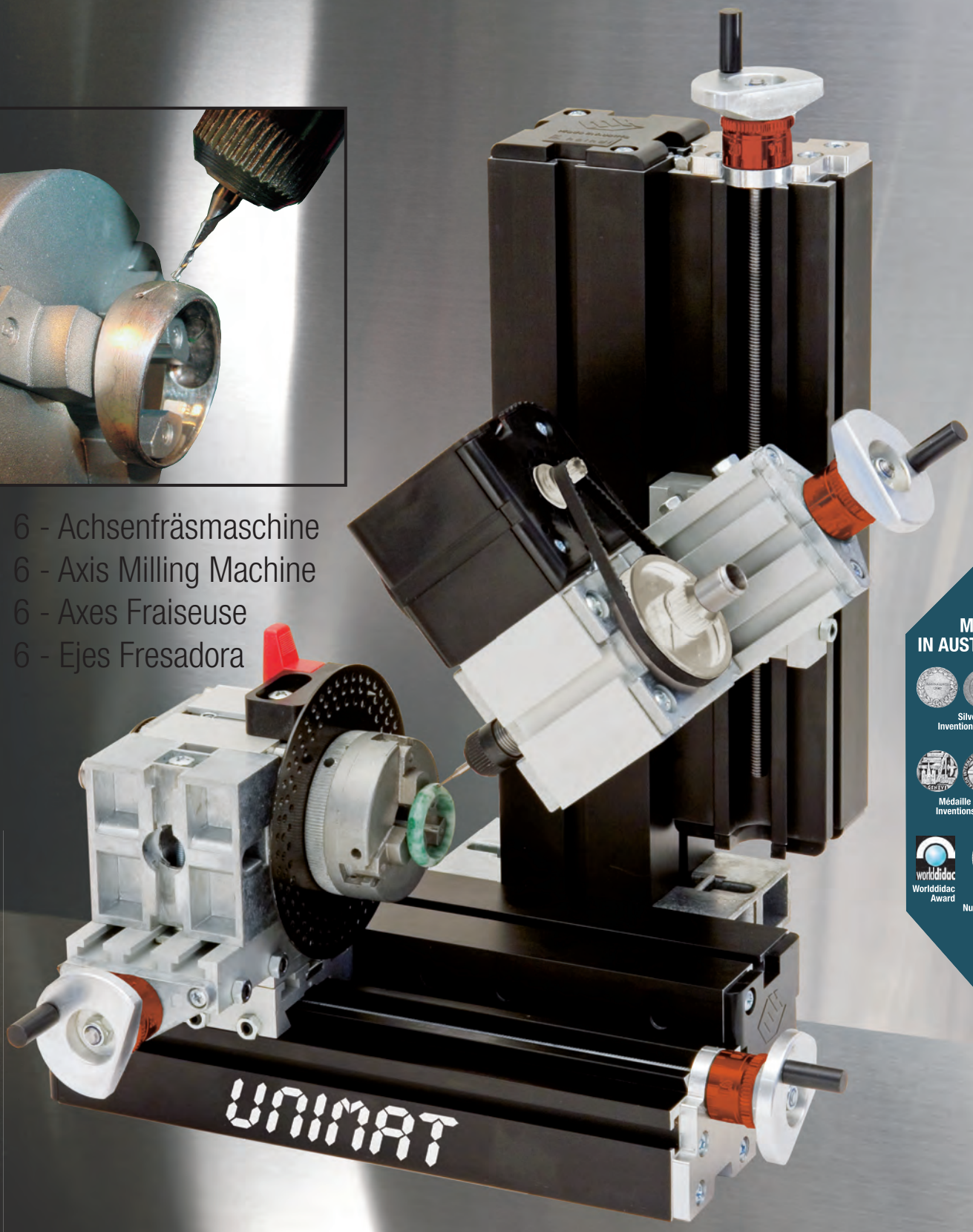


6 - Achsenfräsmaschine
6 - Axis Milling Machine
6 - Axes Fraiseuse
6 - Ejes Fresadora



MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg

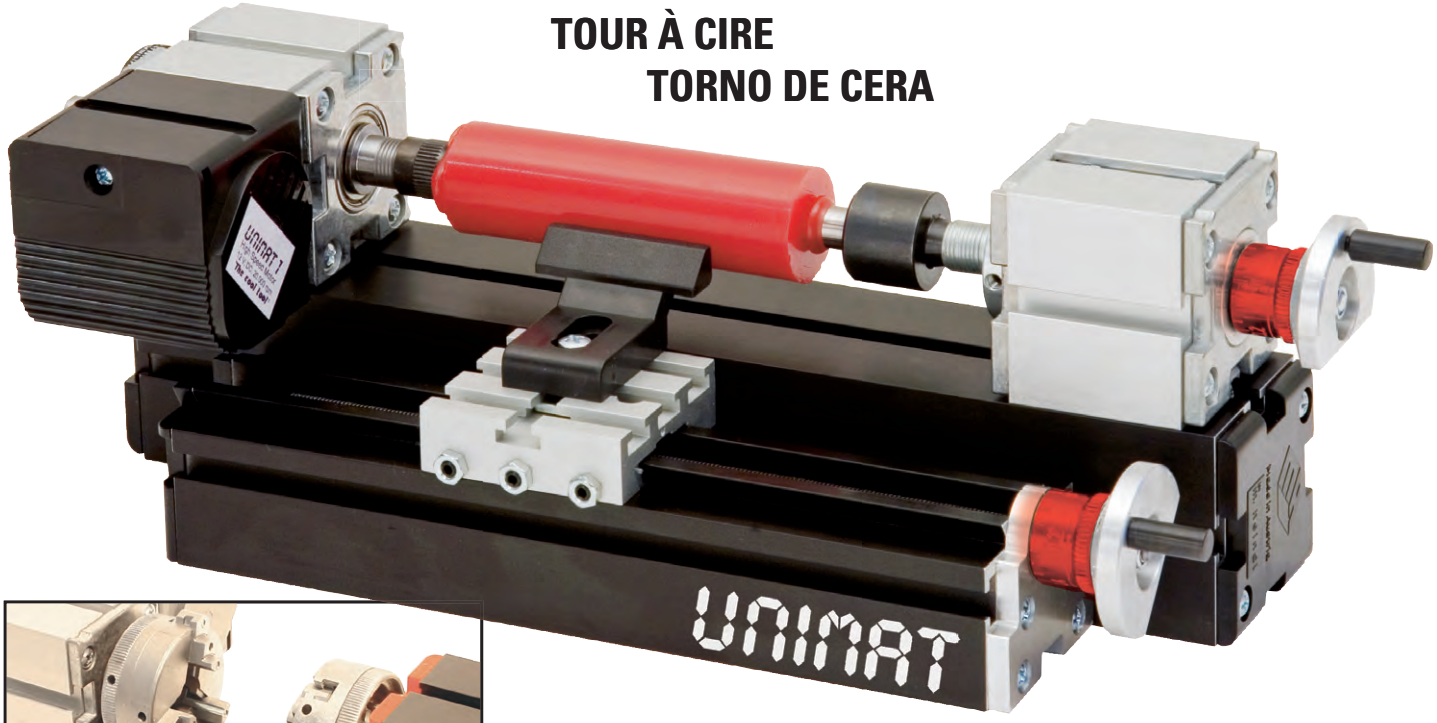
[JUWELIER MASCHINEN]
[JEWELER MACHINES]

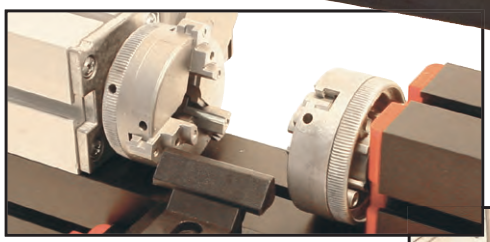
[MACHINES DE BIJOUTIER]
[JOYERO MÁQUINAS]

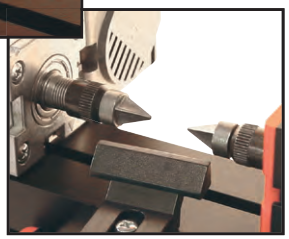
The tool® QUALITY PRODUCT MADE IN AUSTRIA

PERLENBOHRMASCHINE
PEARL DRILL
PERCEUSE POUR PERLES
TALADRO DE PERLA

WACHSDRECHSELBANK
WAX TURNING LATHE
TOUR À CIRE
TORNO DE CERA







Vorbehaltlich Fehler • *Errors accepted*

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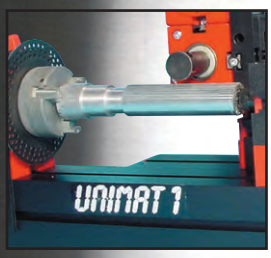

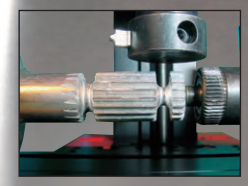

MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg

[ZAHNRADFRÄSE]

[GEAR MILLING MACHINE]

[FRAISE À TAILLER LES ENGRENAGES]

[FRESADORA DE ENGRANAJES]

[Art.No.: 166 026]

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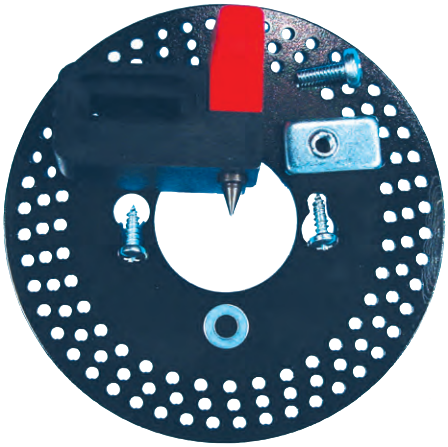
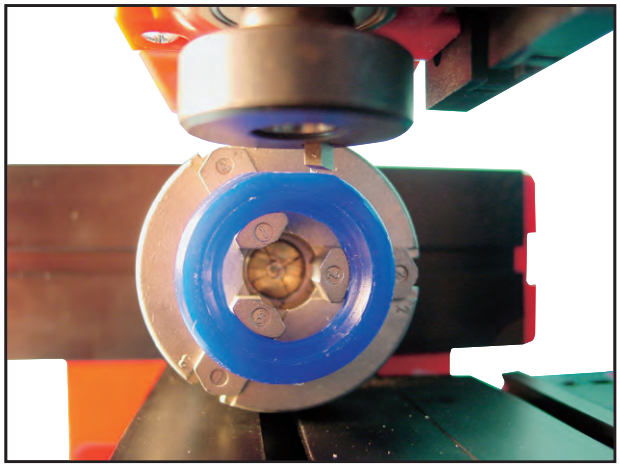
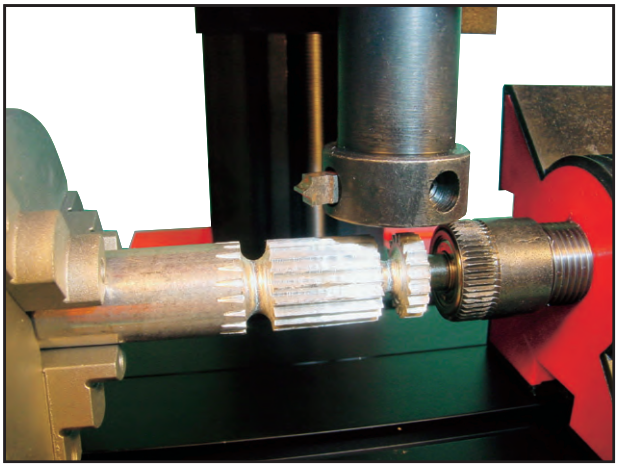


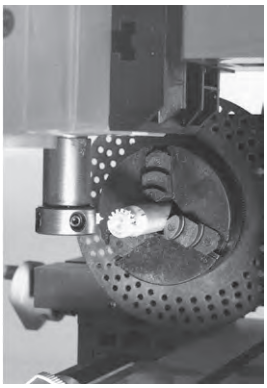
162 040

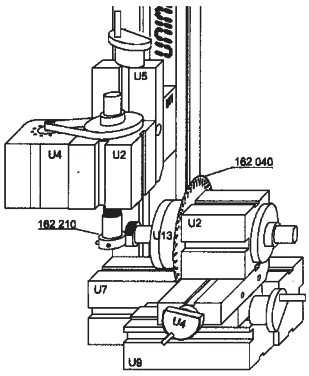
162 200

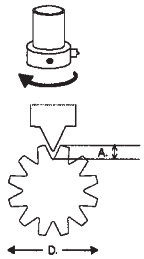
162 210

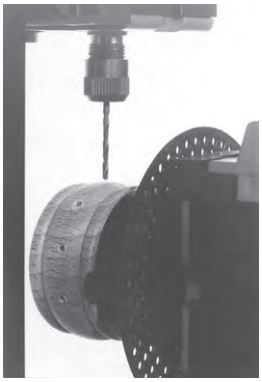


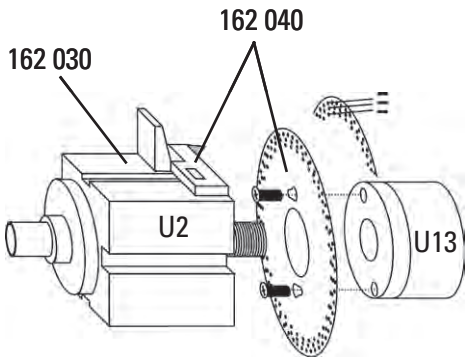












Teilapparat 162 040
mit 36, 40 und 48 Löchern.
Einsatz: Kanthölzer (Metalle) fräsen, Kreisbohrungen durchführen, Zahnräder fräsen,...
Funktionsweise: man muß z.B. 10 Löcher in diesen Ring bohren:
1. Den Ring mit 40 Löchern wählen und den Dorn einrasten lassen.
2. Ein Loch bohren.
3. Die Teilscheibe vier Löcher weiterdrehen.
4. Dorn wieder einrasten lassen und ein weiteres Loch bohren.

Diesen Vorgang zehnmal wiederholen - fertig. (Achtung: zum Fixieren des Teilapparates ist ein 2. Vorgelege nötig.)
Verzahnfräskopf 162 210 mit 1 Messer M 0,5
Berechnung Außendurchmesser des Zahnrades in mm (Modul 0,5):
D. (Durchmesser Werkstück)
D. = 0,5 x Zähneanzahl + 1
z.B.: Zahnrad mit 12 Zähnen
D. = 0,5 x 12 + 1 = 7 mm Durchmesser
Distanz A = 1,1 mm (11 Teilstriche am Handrad).
Planfräskopf 162 200
mit 1 Messer und Inbus
Zum Nivellieren von Metallen, Herstellen von Passungen, Stufen..., oder mit dem Teilapparat (162 040) 4- 6- 8-... Kanter erstellen.
Funktionsweise: Die Spanabnahme erfolgt durch einen rotierenden „Drehstahl". Mit den drei Schlitten bearbeitet man das Werkstück in allen drei Ebenen.

Dividing attachement 162 040
with 36, 40 and 48 holes.
You can mill square timber (and metals), cut circles, mill gears etc ...
Example for explaining: you need 10 holes in this ring:
1. Choose the ring with 40 holes and catch in the mandrel.
2. Bore in a hole.
3. Move the dividing plate 4 holes further.
4. Make mandrel catch in again and bore another hole.

Repeat this process ten times, that´s it.(For fixing the dividing attachment you need a 2nd countershaft)
Gear milling head 162 210 including 1 cutter M 0,5
Calculation of outside diameter of gear wheel in mm (module 0,5):
D. (diameter workpiece)
D. = 0,5 x number of teeth + 1
e.g.: gear wheel with 12 teeth
D. = 0,5 x 12 + 1 = 7 mm diam.
Distance A = 1,1 mm (11 divisions on handwheel).
Fly cutter 162 200
with 1 bit (and allen key)
For the levelling of metals (shaping of fits, steps..., or for production of square, hexagonal and octagonal pieces by using 162 040.
Operation: Metal cutting is achieved by the rotating turning tool. The three slides enable you to achieve 3-dimensional work.

Appareil diviseur 162 040
à 36, 40 et 48 trous.
Utilisation: Pour fraiser le bois ou métaux équarris, fraiser des roues dentées ...
Fonctionnement: p.ex. pour percer 10 trous dans cet anneau:
1. Choisir l´anneau à 40 trous et faire prendre l´encoche au mandrin.
2. Percer un trou.
3. Avancer le disque diviseur de quatre trous.
4. Faire prendre l´encoche au mandrin et continuer à percer.

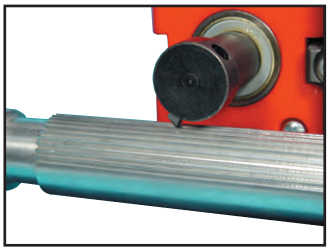
Ce procédé est à répéter 10 fois - terminé. (Attention: la fixation du dispositif diviseur exige un deuxième poupée fixe).
Tête porte-fraise d´engrenage 162 210 avec 1 outil M 0,5
Calculer du diamétre extérieur d'engrenage en mm (modul 0,5):
D. (diamètre de piece à usiner)
D. = 0,5 x numéro dents + 1
P.ex.: engrenage avec 12 dents:
D. = 0,5 x 12 + 1 = 7 mm
Distance A = 1,1 mm (11 divisions sur manivelle).
Tête d´alésage 162 200
avec 1 outil et clé hexagonale
pour égaliser des pièces métalliques, réaliser des ajustements, des gradins ..., ou des pièces à 4, 6 ou 8 arêtes (au moyen du dispositif diviseur).
Mode de fonctionnement: Usinage de la pièce avec un outil rotatif. Les trois chariots permettent d´usiner la pièce selon les trois dimensions.

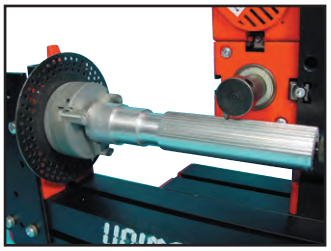
Aparato divisor 162 040 con 36, 40 y 48 agujeros.
Ambito de empleo: se puede fresar maderas escuadradas, fresar ruedas dentadas, ...
Modo de funcionamiento: Supogamos que hay que hacer 10 agujeros en un anillo:
1. Elegir el anillo que tiene 40 agujeros y dejar encajar el mandril.
2. Taladrar un agujero.
3. Adelantar el plato divisor de 4 agujeros.
4. Dejar encajar nuevamente el mandril y taladrar otro agujero.

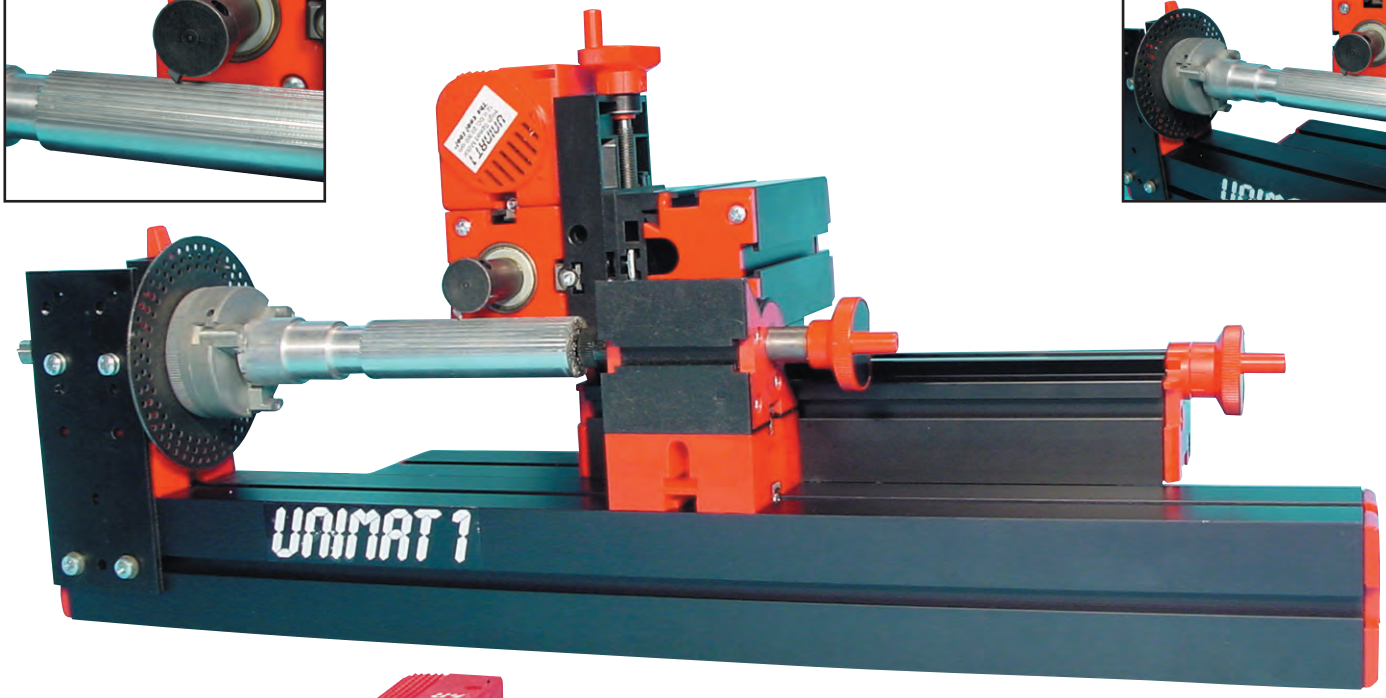
Repetir diez veces este procedimiento y ya està. (Atención: para colocar el aparato divisor un 2° cabezal es necesaria).
Cabezal de fresado de engranes 162 210 con 1 frese M 0,5
Calculación del diámetro exterior de los engranajes en mm (modulo 0,5):
D. (diámetro de pieza de trabajo)
D. = 0,5 x número dientes + 1
P.e.: engranaje con 12 dientes:
D. = 0,5 x 12 + 1 = 7 mm dm.
Distancia A= 1,1 mm (11 divisiones sobre volante).
Cabezal de taladro 162 200
con 1 herramienta y llave Allen
para nivelar metales, para hacer ajustes, escalones, o para hacer piezas cuadradas, hexagonales y octagonales (con el aparato divisor 162 040).
Modo de funcionamento: La recepción viruta se produce mediante una herramienta de torneado en rotación. Se trabaja con los tres carros lo que permite hacer objetos tridimensionales.

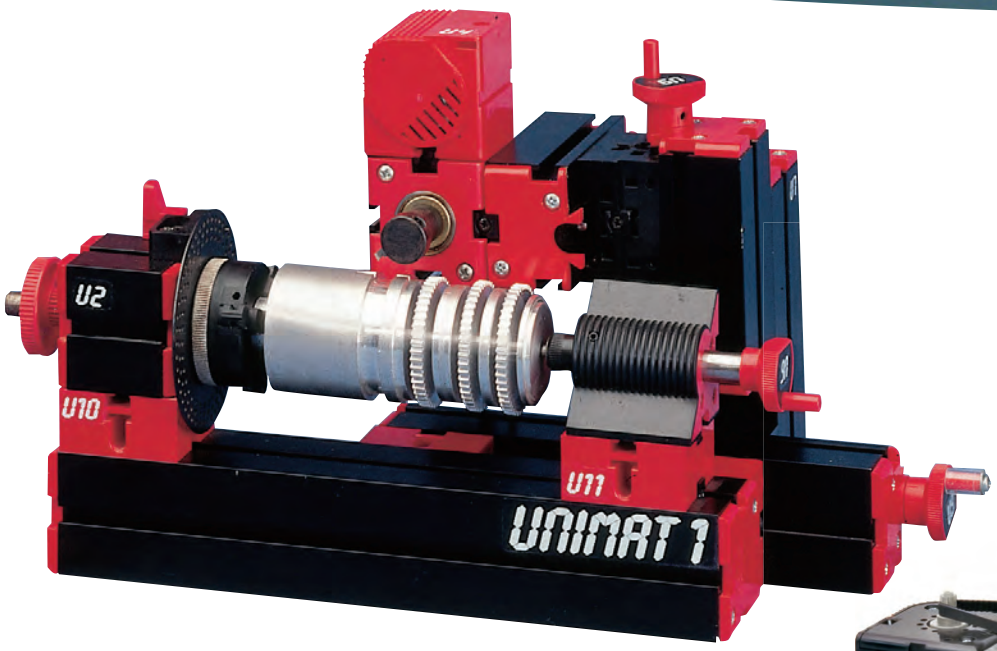
Divisore 162 040 con 36, 40 e 48 fori.
Impiego: fresatura legname squadrato (metalli), esecuzione fori circolari, fresatura di ruote dentate ...
Funzionamento: si supponga di voler praticare 10 fori in questo anello:
1. Prendere l´anello con 40 fori e innestare il mandrino in posizione.
2. Fare un foro.
3. Girare il disco divisore 4 fori in avanti.
4. Innestare di nuovo il mandrino e fare un altro foro.

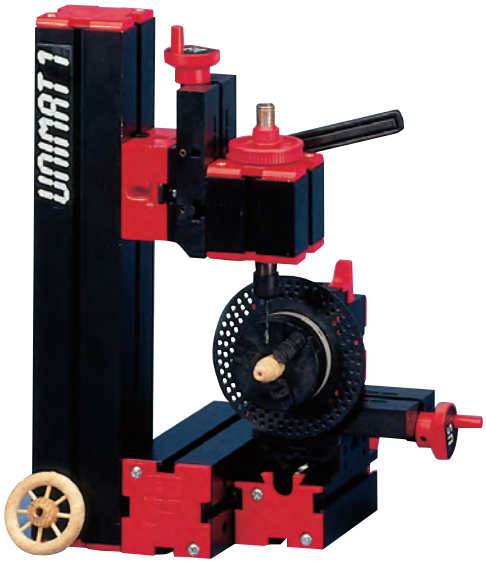
Ripetere queste operazioni per dieci volte. Finito. (Attenzione: per fissare il divisore è necessario un secondo rinvio)
Testa per fresare ingranaggi 162 210 con 1 cuchilla M 0,5
Calculazione diametro esterno degli ingranaggi in mm (modulo 0,5):
D. (diametro)
D. = 0,5 x dumero denti + 1
Per es.: Ingranaggi con 12 denti:
D. = 0,5 x 12 + 1 = 7 mm
Distanzia A = 1,1 mm (11 divisioni sulla manivella).
Testa per spianare 162 200
con 1 utensile. Per livellare metalli, realizzare accoppiamenti, gradini... o (con divisore 162 040) per realizzare pezzi quadrati, esagonali, ottagonali,...
Funzionamento: l´asportazione dei trcioli avviene mediante un „utensile" rotante. Con le tre slitte si può lavorare il pezzo in tutte e tre le dimensioni.

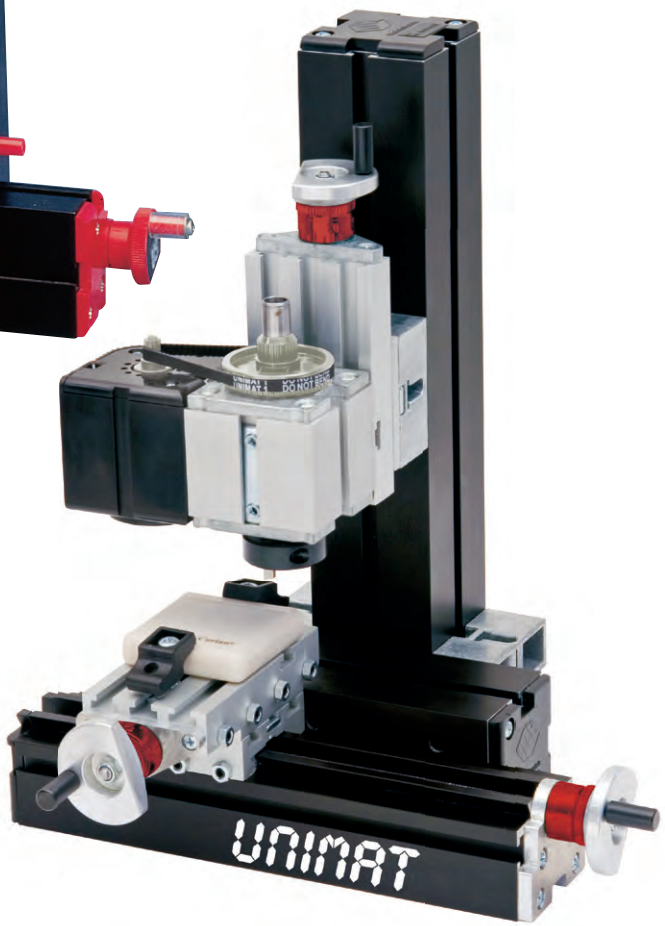












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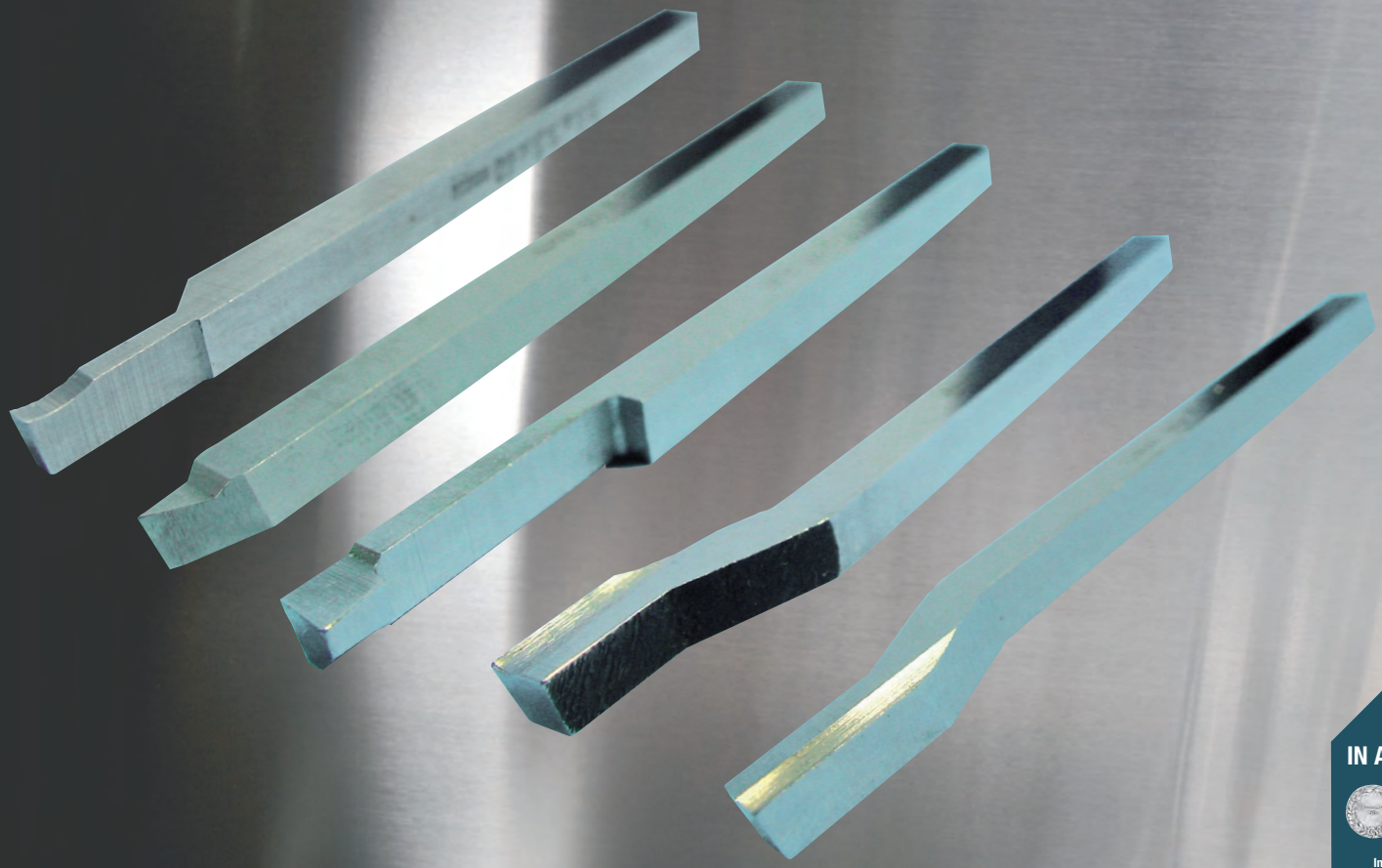


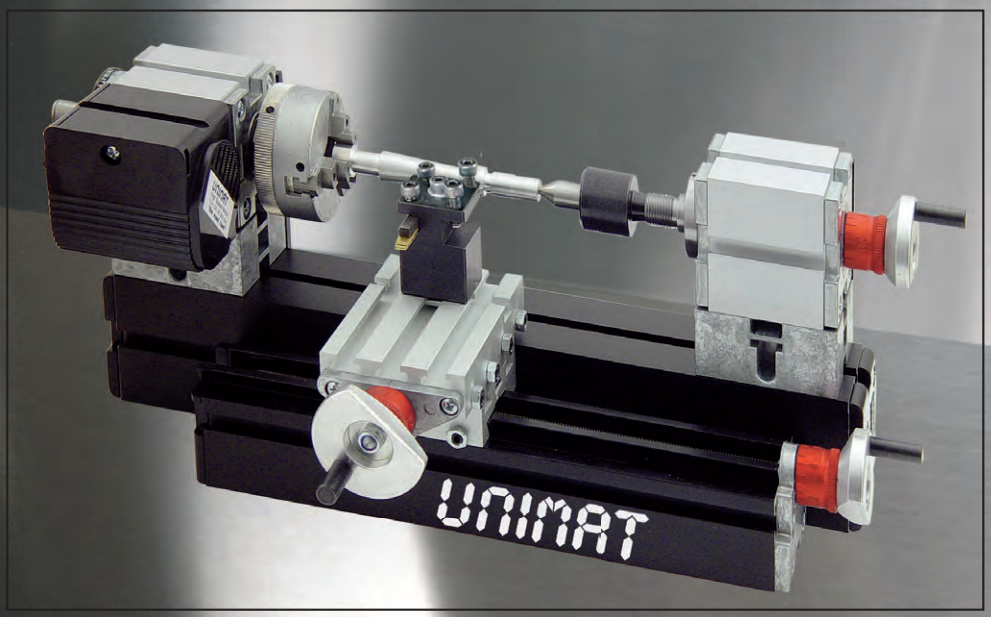
MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[HSS DREHSTAHL SET]

[HSS TURNING TOOL SET]

[HSS OUTILS DE TOURNAGE]

[HSS HERRAMIENTA DE TORNO]

[Art.No.: 162 231]

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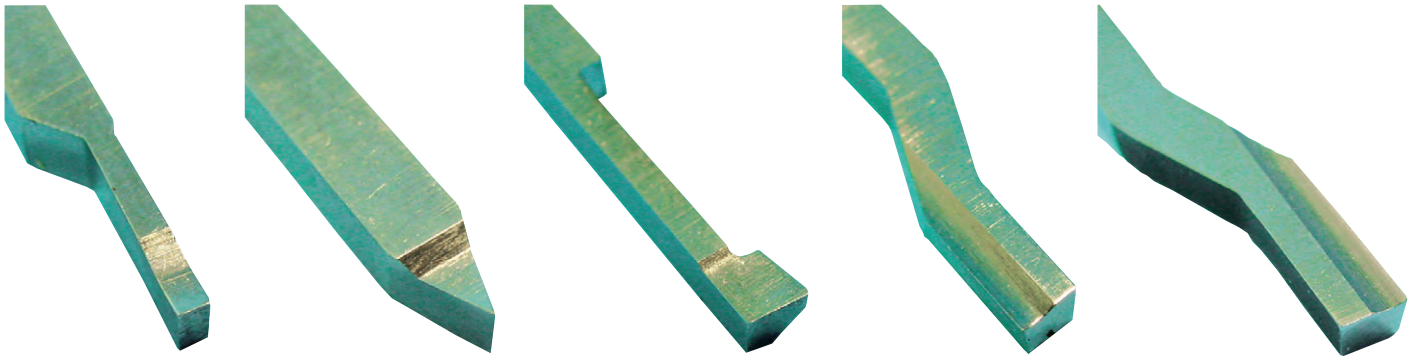

① ② ③ ④ ⑤

nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	HSS - Abstechstahl 3,5 □	HSS - Cut off tool 3,5 □	HSS - Outil couteau 3,5 □	HSS - Util cuchilla 3,5 □	162 231 A	1
2	HSS - Außendrehstahl 3,5 □	HSS - Outside turning tool 3,5 □	HSS - Outil de tournage 3,5 □	HSS - Herramienta de torno 3,5 □	162 231 B	1
3	HSS - Innenausdrehstahl 3,5 □	HSS - Inside turning tool 3,5 □	HSS - Outil à aléser 3,5 □	HSS - Cuchilla para mandrila 3,5 □	162 231 C	1
4	HSS - Außendrehstahl rechts 3,5 □	HSS - Outside turning tool right 3,5 □	HSS - Outil de tournage à droite 3,5 □	HSS - Herramienta de torno a la derecha 3,5 □	162 231 D	1
5	HSS - Außendrehstahl links 3,5 □	HSS - Outside turning tool left 3,5 □	HSS - Outil de tournage à gauche 3,5 □	HSS - Herramienta de torno a la izquierda 3,5 □	162 231 E	1

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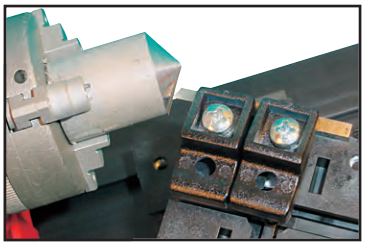

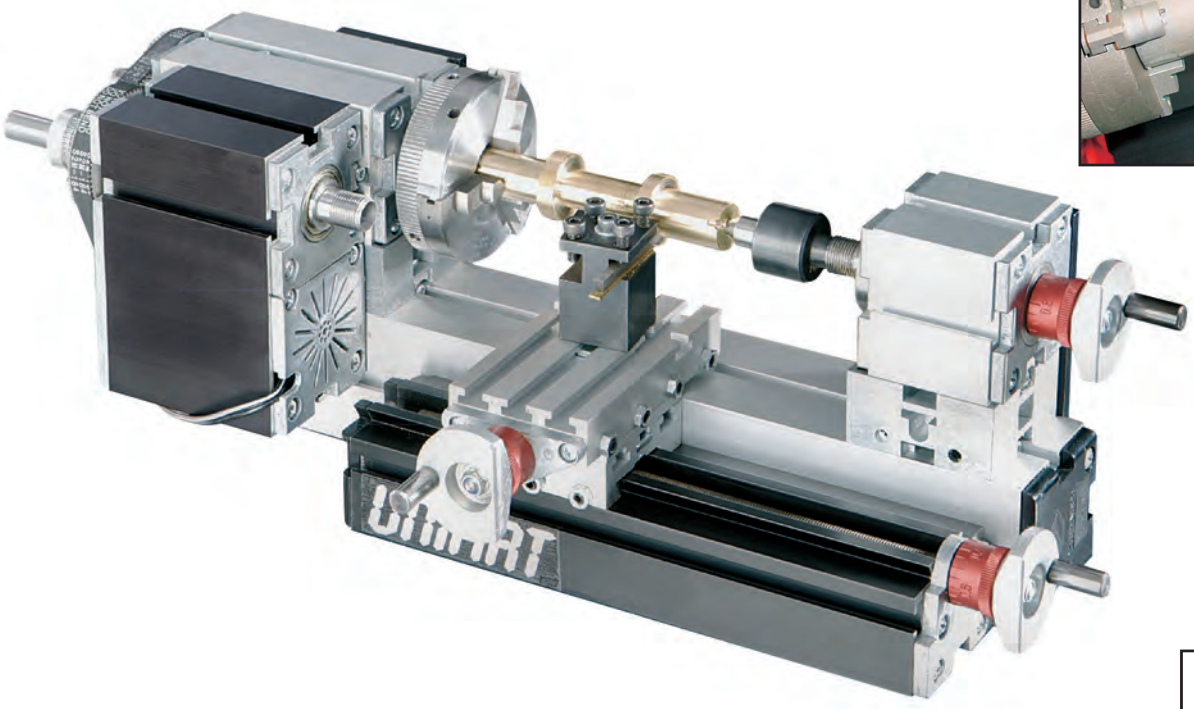

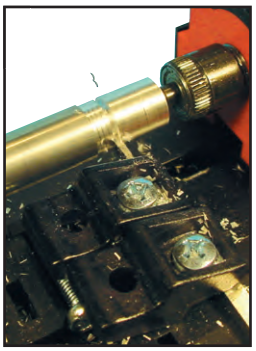

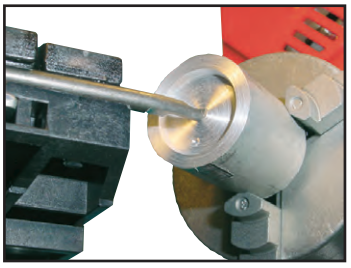

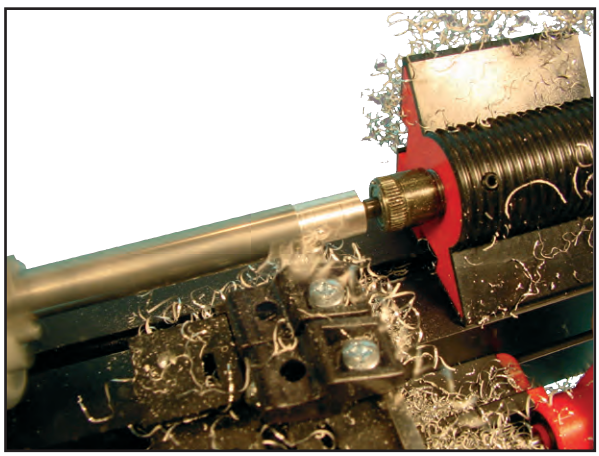

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Worlddidac Award

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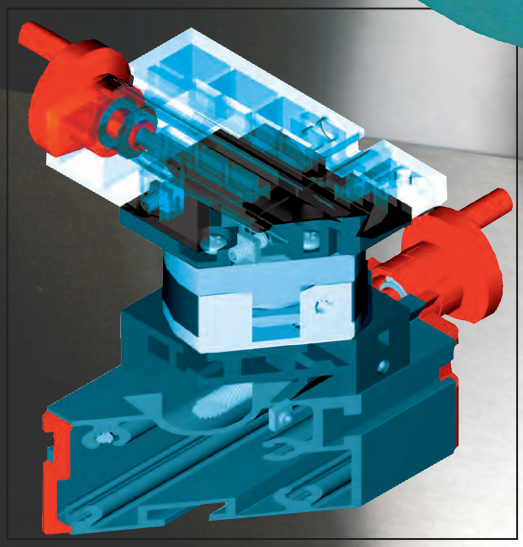

[DREHTISCH]

[ROTARY TABLE]

[TABLE TOURNANTE]

[MESA CIRCULAR]

[Art.No.: 162 300]

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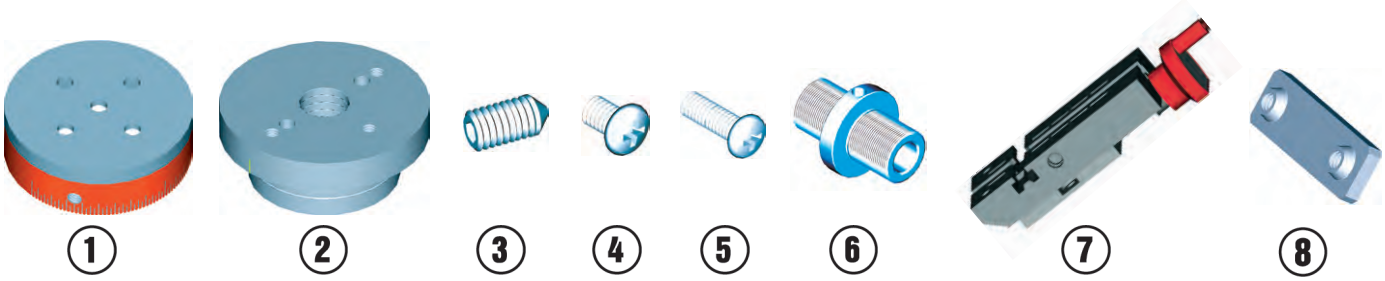


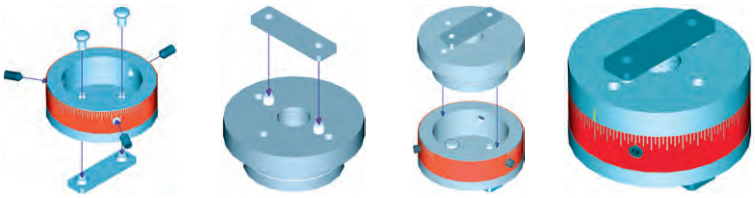
nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

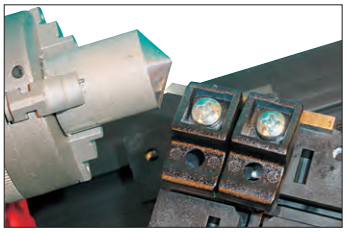
No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Drehtisch - Oberteil	Rotary table - Upper part	Table tournante - Section haute	Mesa circular - Sección superior	162 300 MHO	1
2	Drehtisch - Unterteil	Rotary table - Lower part	Table tournante - Culot	Mesa circular - Fondo	162 300 MHU	1
3	Inbusschraube M4 x 6	Socket-head cap screw M4 x 6	Vis à six pans creux M4 x 6	Tornillo con hueco hexag. en la cabeza M4 x 6	ZST 130 406 SP	3
4	Schaube M4 x 6	Screw M4 x 6	Vis M4 x 6	Tornillo M4 x 6	ZSR M40 406	3
5	Schraube M4 x 12	Screw M4 x 12	Vis M4 x 12	Tornillo M4 x 12	ZSR M40 412	2
6	Futter / Tisch Adapter	Chuck / table adapter	Adaptateur mandrin / table	Adaptador mandril / mesa	162 309	1
	Nicht enthalten in 162 300	Not included in 162 300	Pas inclus à 162 300	No incluido en 162 300		
7	Querschlitten (U3)	Cross slide (U3)	Chariot transversal (U3)	Carro transversal (U3)	A1A 060 000	1
8	Klemmplatte (U47)	Clamping plate (U47)	Element en "T" (U47)	Elemento "T" (U47)	A1A 010 020	1

162300-Rev08-06-05.xls

ZUSAMMENBAU / ASSEMBLY / ASSEMBLAGE / MONTAJE

VAR.1





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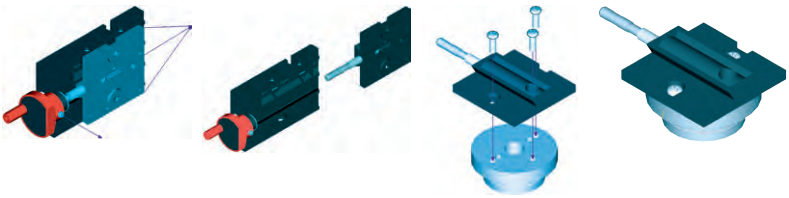

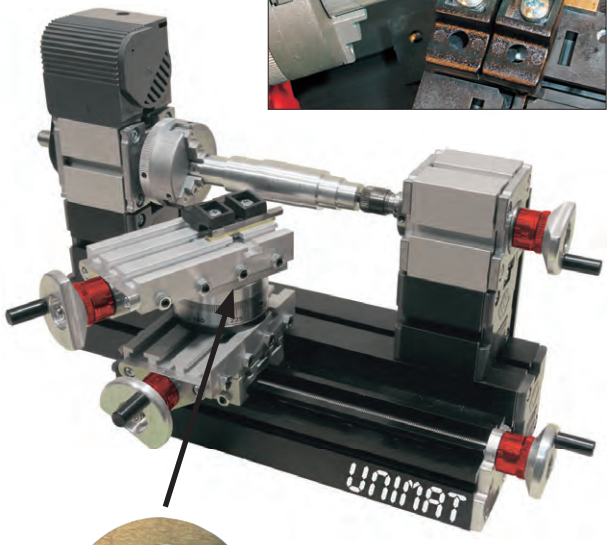

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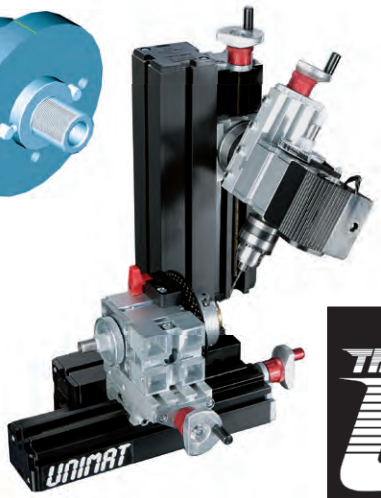

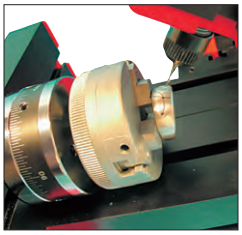

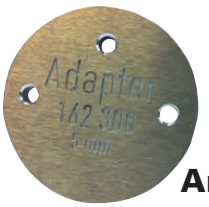

Art.no.: 162 300 AP

[Adapterplatte • Adapter plate • Plague de intermédiare • Plato intermedia]

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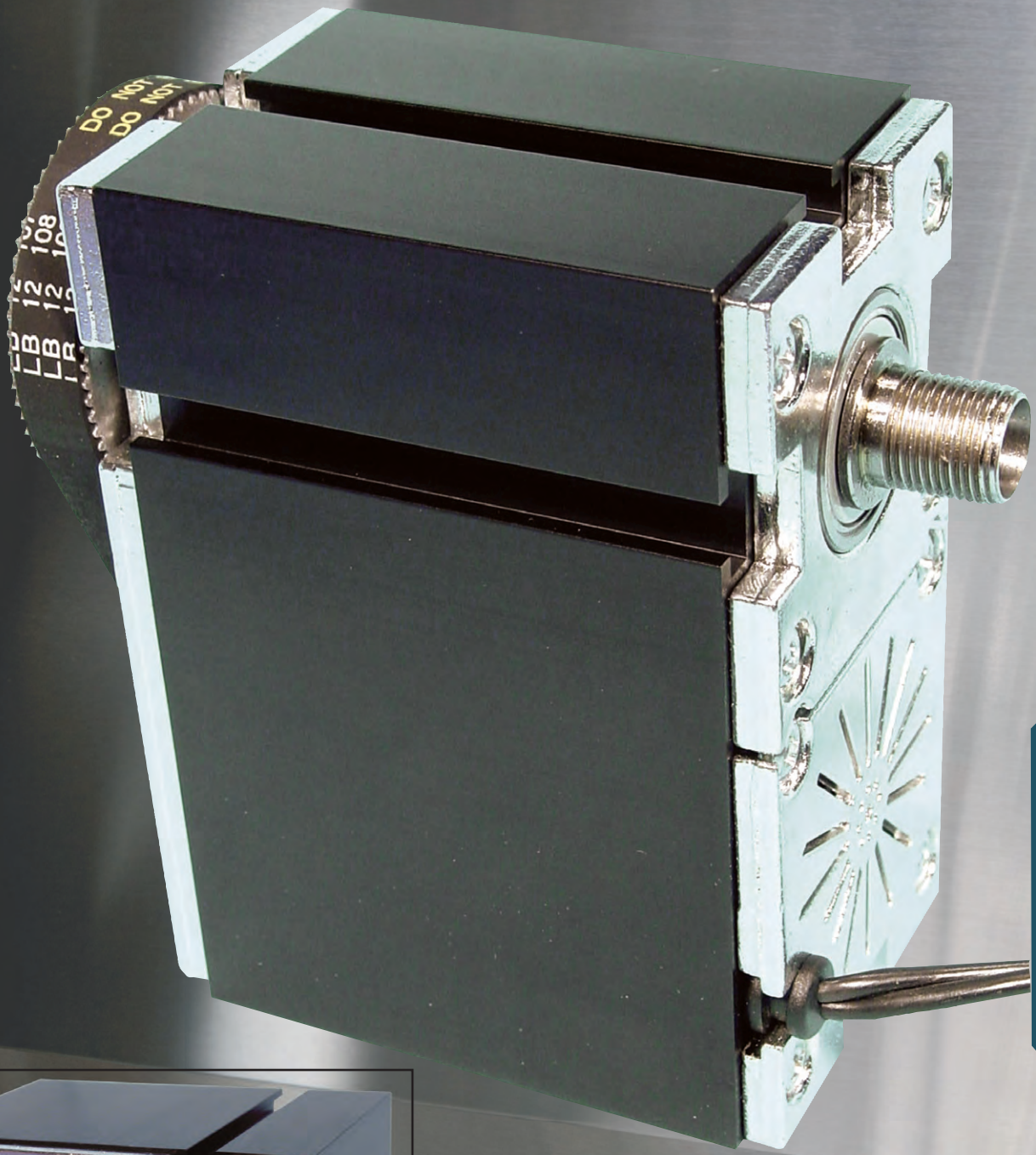
Fabriksgasse 15, A-2340 Mödling info@thecooltool.com
phone: +43-2236-892 666 fax: +43-2236-892666-18

Vorbehaltlich Fehler • *Errors accepted*

VS_162320-Ref 07-11-12



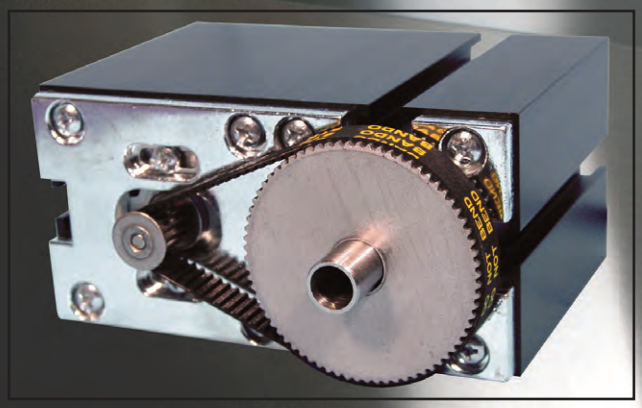
MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[POWER ANTRIEBSEINHEIT]

[POWER DRIVE UNIT]

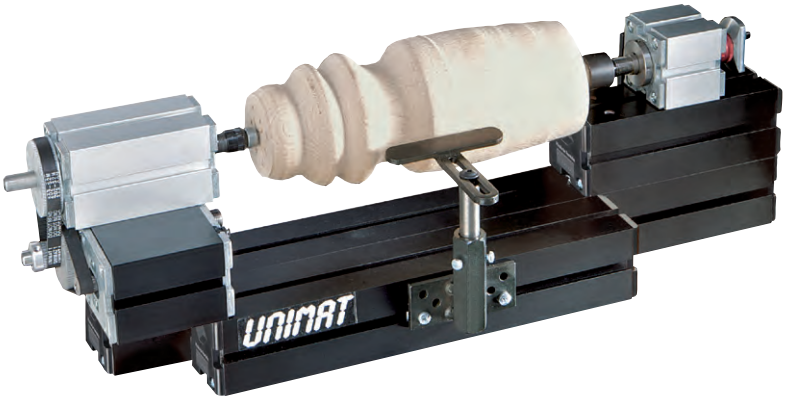
[UNITÉ MOTRICE DE HAUTE PUISSANCE]

[UNIDAD POWER MOTOR]

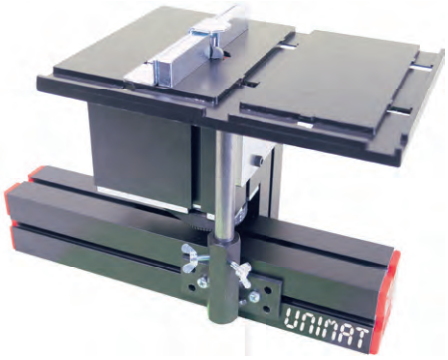
[Art.No.: 162 320]

The tool® QUALITY PRODUCT MADE IN AUSTRIA

nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

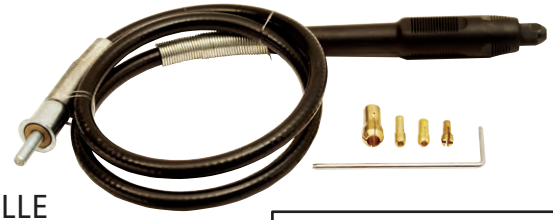


GROSSE DRECHSELBANK
BIG WOODTURNING LATHE
GRAND TOUR A BOIS
TORNO DE MADERA GRANDE

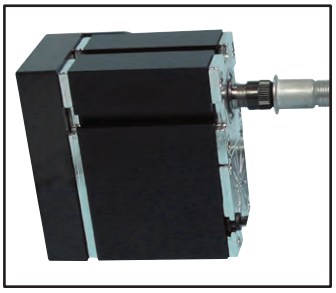


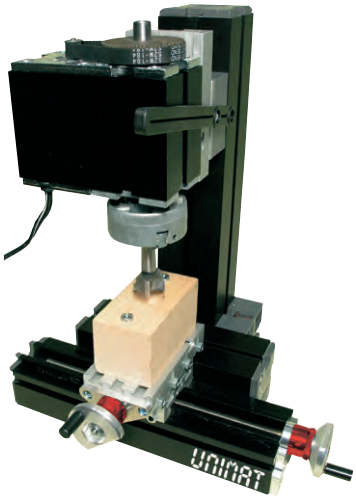
PROFILFRÄSE
PROFILE MILLING MACHINE
FRAISE À PROFILER
FRESADORA DE PERFILES

KREISSÄGE
CIRCULAR SAW
SCIE CIRCULAIRE
SIERRA CIRCULAR



FLEXIBLE WELLE
FLEXIBLE SHAFT
ARBE FLEXIBLE
ARBOL FLEXIBLE





STANDBOHRMASCHINE MIT KUNSTBOHRER
DRILL PRESS WITH FORSTER DRILL
PERCEUSE VERTICALE
TALADRADORA VERTICAL

Technische Daten:
Abmessungen:
100x50x65 mm
Gleichstrom: 12 -16 V
Leistungsaufnahme bis:
5 A - max 12 A
Übersetzung: 1:4,8
Motor
Leerlaufdrehzahl:
12.800 U/min

Technical Data:
Dimension:
100x50x65 mm
Direct current: 12 - 16 V
Power input up to:
5 A - max 12 A
Gear ratio: 1:4,8
Motor Nom.rpm.:
12.800 rpm

Caractéristiques Techniques:
Dimension:
100x50x65 mm
Courant continu:
12 -16 V
Puissance absorbée jusqu'a:
5 A - max 12 A
Rapport d'engrenage:
1:4,8
Moteur Vitesse à vide:
12.800 t/mn

Informaciones Técnicas :
Dimensión:
100x50x65 mm
Corriente continua: 12 - 16 V
Energia absorbida hasta: 5 A - max 12 A
Relación de transmisión: 1:4,8
Motor Número de revoluciónes sin carga:
12.800R/min

Nicht für Kinder geeignet. Nur unter direkter Aufsicht Erwachsener benutzen. / Not suitable for children. Children should only use the machines under very strict supervision by responsible adult. / L´usage n´est pas approprié aux enfants . Ne laissez jamais travailler les enfants sans urveillance. / No está apta para niños. ¡Niños no deben nunca trabajar con las máquinas sin guardia.

Vorbehaltlich Fehler • *Errors accepted*

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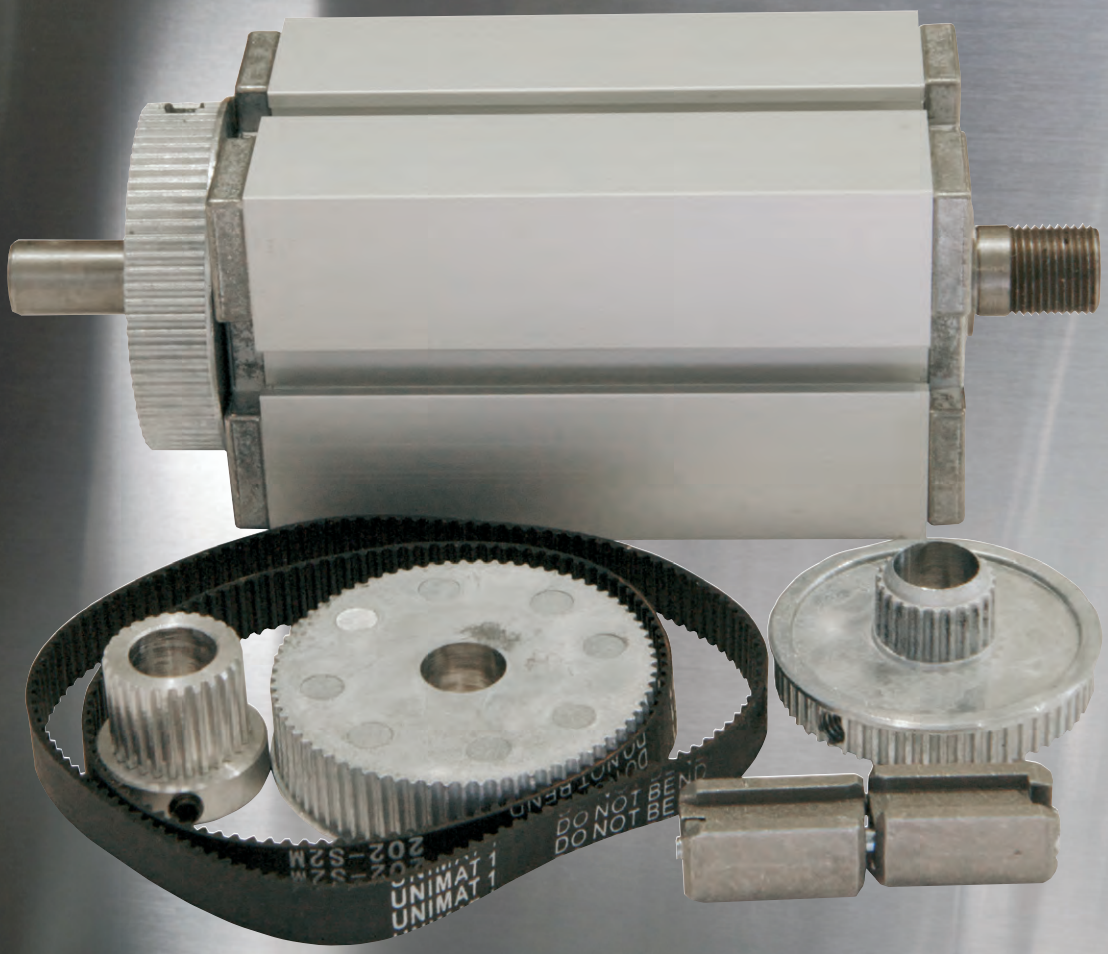
VS_164325-Ref 07-11-12



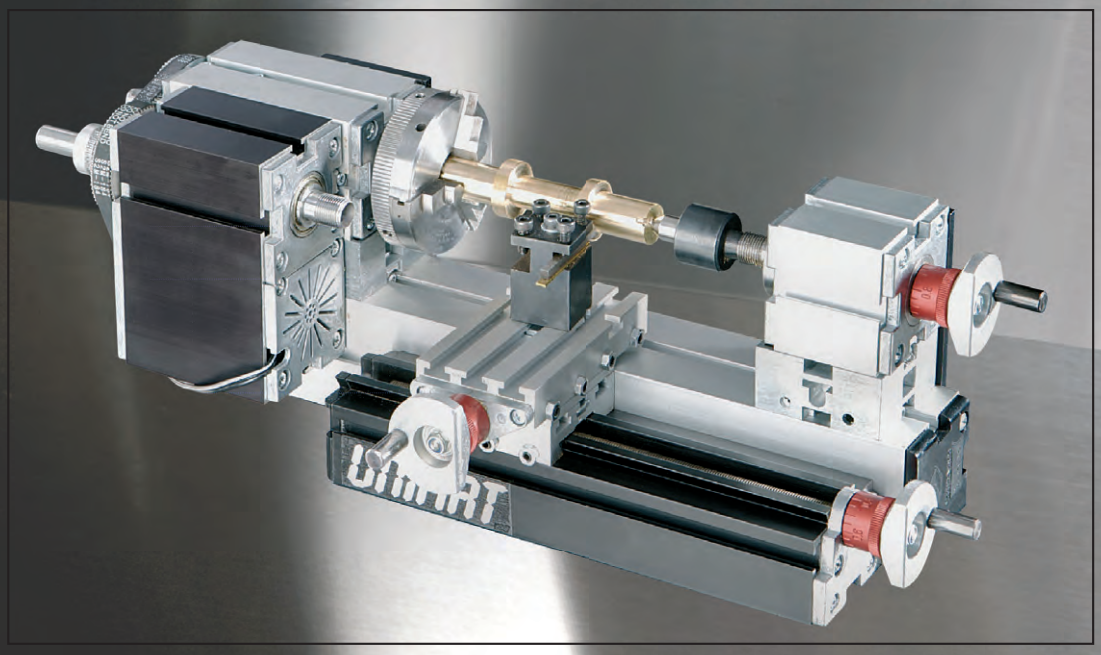
MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[UNTERSETZUNGSSET FÜR 162 320]

[BROCHE DE RÉDUCTION POUR 162 320]

[REDUCTION SET FOR 162 320]

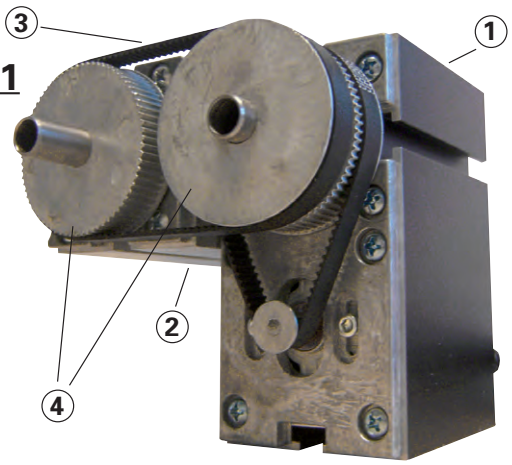
[EJE DE REDUCCIÓN TODO 162 320]

[Art.No.: 164 325]

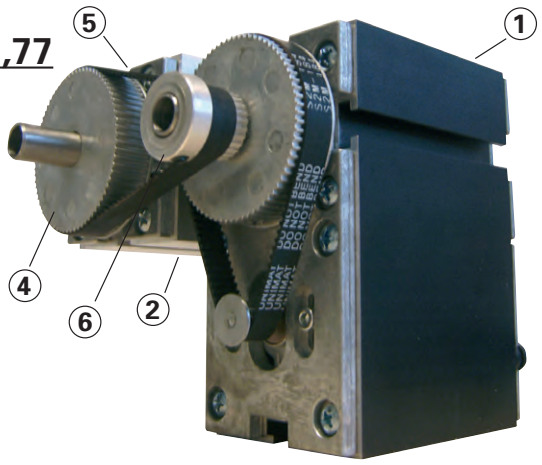
The tool QUALITY PRODUCT MADE IN AUSTRIA

MOTORVORGELEGE LANG - GANZMETALL (93mm) Durch die Metallabdeckungen, die im mechanisch bearbeiteten Profil zentrisch gelagert sind, erhöht sich die Präzision und Belastbarkeit des Motorvorgeleges. 1:1, 1:2,77, 2,77:1 Zahnmodul: S2M •
COUNTERSHAFT LONG - FULL METAL (93mm) Precisely machined metal-profiles and -covers increase the accuracy and stability of the countershaft. 1:1, 1:2,77, 2,77:1 Tooth module: S2M •
BROCHE DE RÉDUCTION PLUS LONGUE (93mm) Vous permettra de diminuer la vitesse tout en augmentant le couple. 1:1, 1:2,77, 2,77:1 Courroie module: S2M •
RINVIO LARGO – METÁLICA (93mm) Gracias a las coberturas metálicas conservadas en el perfil mecánicamente tratado, se alcance una mayor precisión y capacidad del rinvio largo – metálica. 1:1, 1:2,77, 2,77:1 Modul: S2M

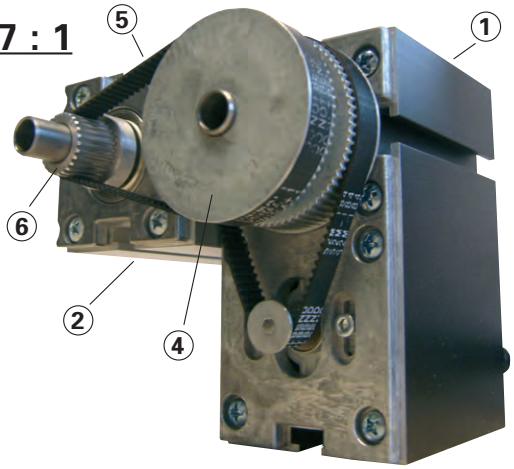
1 : 1



1 : 2,77



2,77 : 1

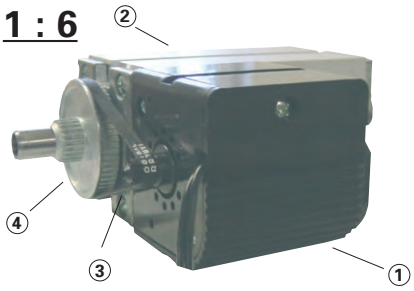


1 .... Power Antriebseinheit • Power Drive Unit • Unité motrice de haute puissance • Unidad Power Motor
2 .... Motorvorgelege lang Ganzmetall • Countershaft long full metal • Broche de réduction plus longue • Rinvio largo metálica
3 .... Zahnriemen 244 • tooth belt 244 • Courroie de 244 • Correa 244
4 .... Riemenscheibe 72 • Pulley 72 • Poulie 72 • Polea 72
5 .... Zahnriemen 202 • tooth belt 202 • Courroie de 202 • Correa 202
6 .... Riemenscheibe 26 • Pulley 26 • Poulie 26 • Polea 26

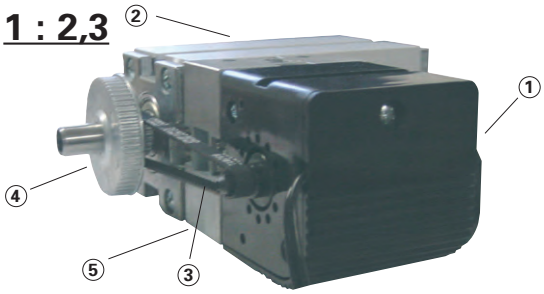
Achten Sie auf die Motortemperatur - Überhitzungsgefahr!
Pay attention to the engine temparature - overheating risks!
Assurez-vous que la température du moteur - risque de surchauffe!
Preste atención a la temperatura del motor - el riesgo de recalentamiento!

Das MOTORVORGELEGE LANG - GANZMETALL kann auch mit dem Standard Unimat Motor (ICC 12840) bzw. dem High Speed Motor (162 420) verwendet werden. 1:6, 1:2,3 Zahnmodul: MXL •
***It is also possible to use the COUNTERSHAFT LONG - FULL METAL with the Unimat stadard motor (ICC 12840) or High Speed Motor (162 420).* 1:6, 1:2,3 *Tooth module: MXL* •**
BROCHE DE RÉDUCTION PLUS LONGUE aussi pour utiliser avec Unimat moteur (ICC 12840) et moteur haute vitesse (162 420). 1:6, 1:2,3 Courroie module: MXL •
El RINVIO LARGO – METÁLICA también se utilizar con el Unimat motor (ICC 12840) o High Speed Motor (162 420) utilizado.* 1:6, 1:2,3 *Modul: MXL

1 : 6



1 : 2,3



1 .... Motor • Motor • Moteur • Motor
2 .... Motorvorgelege lang Ganzmetall • Countershaft long full metal • Broche de réduction plus longue • Rinvio largo metálica
3 .... Antriebsriemen kurz • Drive belt short • Courroie d'entrainement court • Correa corto
4 .... Riemenscheibe A1M 030 040 • Belt pulley A1M 030 040 • Poulie de courroie A1M 030 040 • Polea de cinturón A1M 030 040
5 .... Zwischenstück • Intermediate piece • Pièce intermédiaire • Pieza intermedia

Power Antriebseinheit nicht enthalten • *Power Drive Unit not included* • Unité motrice de haute puissance non compris • *Unidad Power Motor no incluidos*

Vorbehaltlich Fehler • *Errors accepted*

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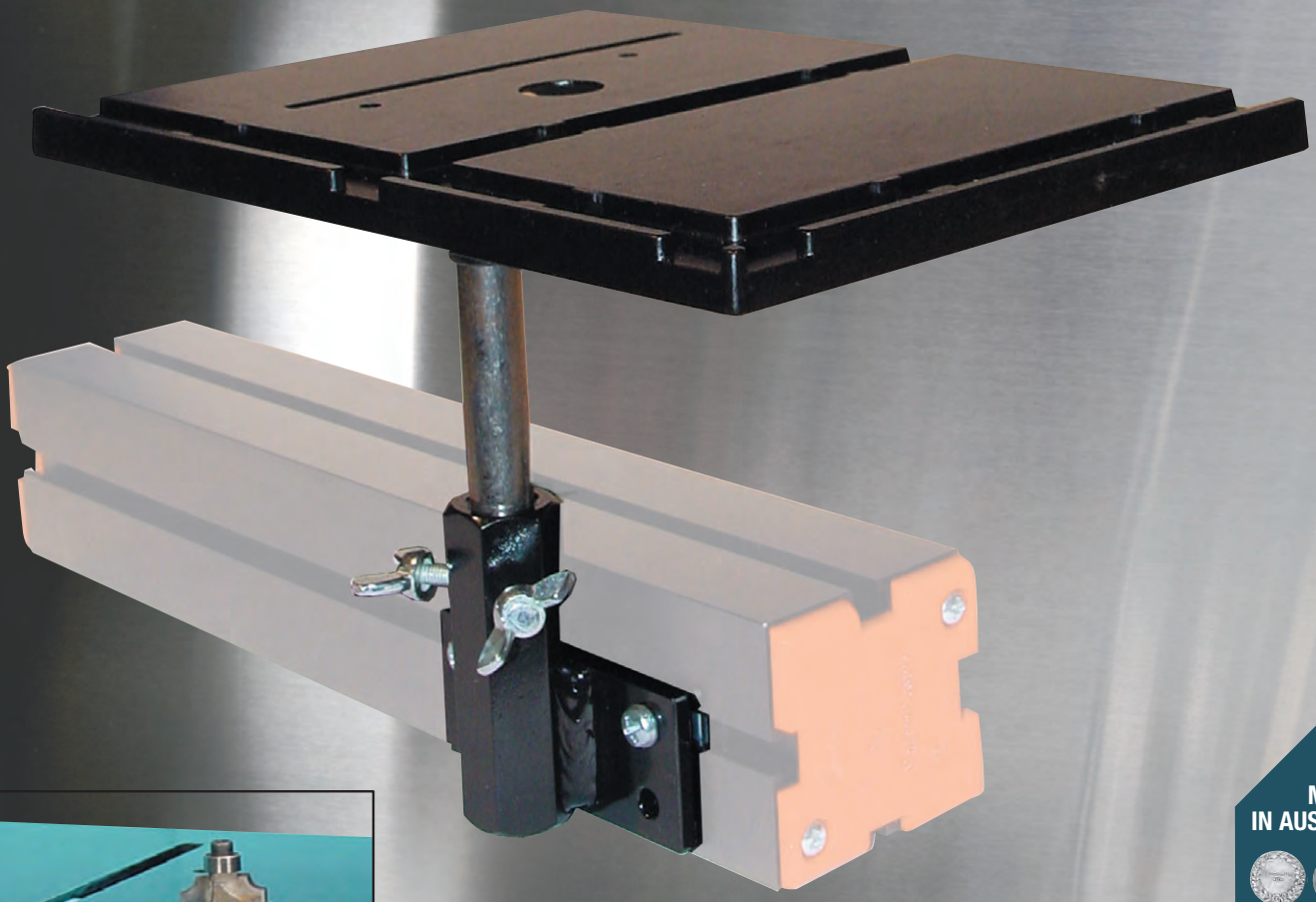
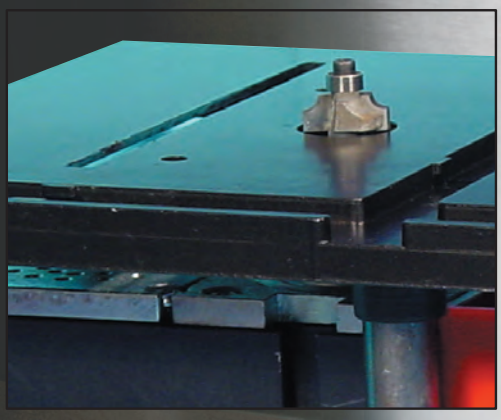
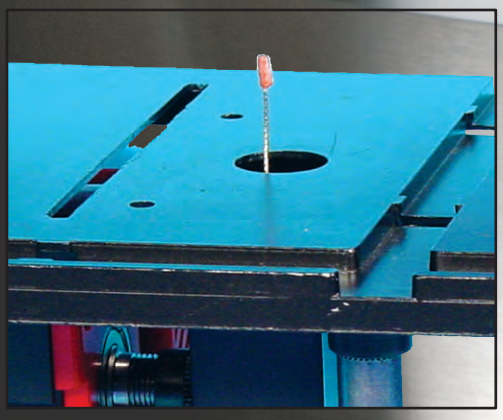
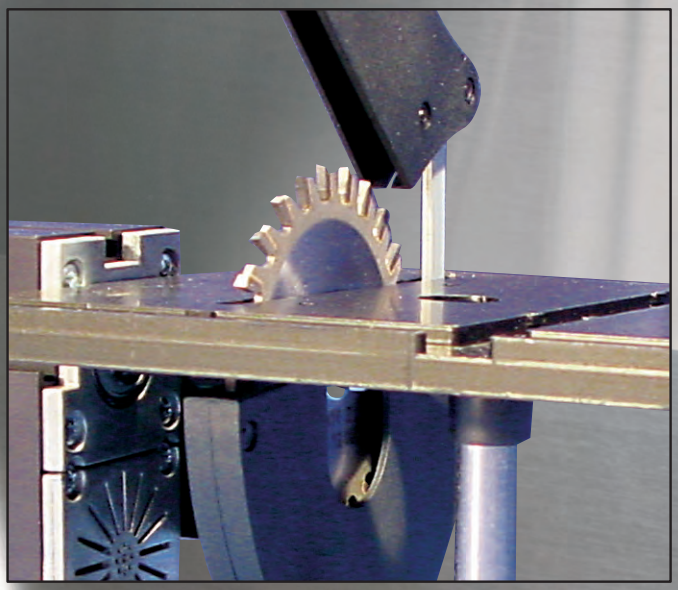








MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg

[FRÄS- & SÄGETISCH]

[MILLING AND SAWING TABLE]

[PLATEAU DE FRAISAGE / -SCIE CIRCULAIRE]

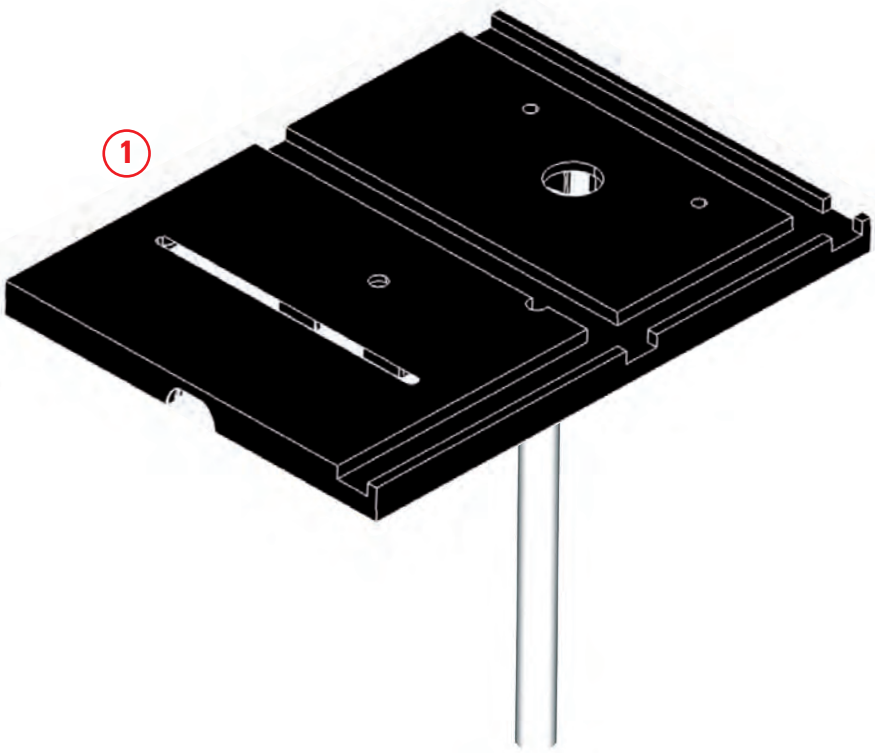
[MESA PARA FRESAR Y SERRAR]

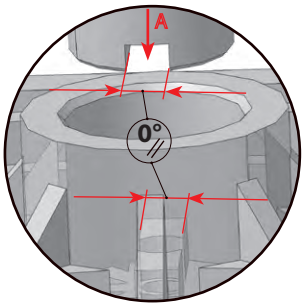
[Art.No.: 162 330]

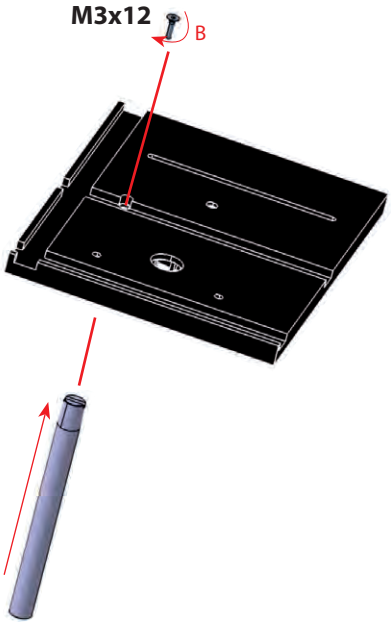
The tool® QUALITY PRODUCT MADE IN AUSTRIA

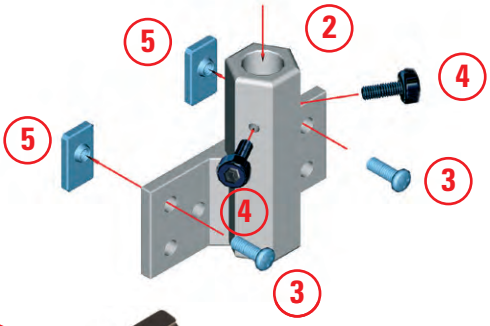
No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Fräs- & Sägetisch (200x150 mm)	Milling and Sawing table (200x150 mm)	Table de scie et de fraisage (200x150 mm)	Mesa para fressar (200x150 mm)	162 330 MH	1
2	Aufnahme	Mounting device	Fixation	Base	A1Z 330 500	1
3	Schraube M4x10	Screw M4x10	Vis M4x10	Tornillo M4x10	ZSR M40 410	2
4	Inbusschraube M4x6	Allen screw M4x6	Vis de inbus M4x6	Tornillo alen M4x6	ZSR M46 ISKT	2
5	Nutstein	Slot nut	Boulon en "T"	Pernos "T"	A1A 060 040	2
	Zubehör	**Accessories**	**Accessoires**	**Accesorios**		
6	Gehrungswinkel	Mitring fence	Guide d´ onglet	Regla da inglete	162 330 GW	
7	Parallelanschlag	Length stop device	Butée longitudinale	Tope longitudinal	A1Z 330 400	
8	Präzisions Fräsanschlag	Precision milling attachment	Fixation de Fraisage	Tope de fresado de precisión	162 332	

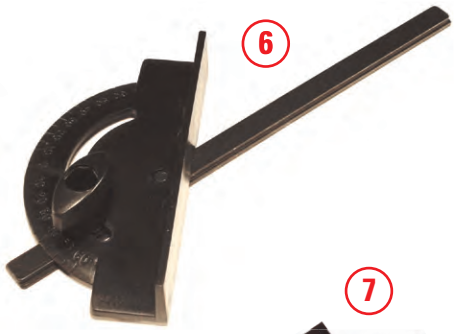
162330T-Rev07-11-2006.xls

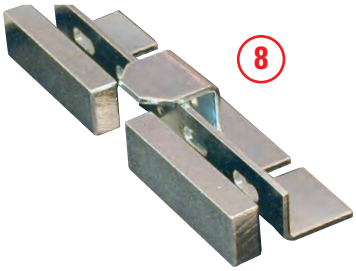


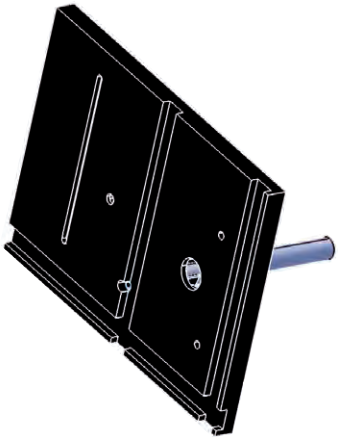












nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

Vorbehaltlich Fehler • *Errors accepted*

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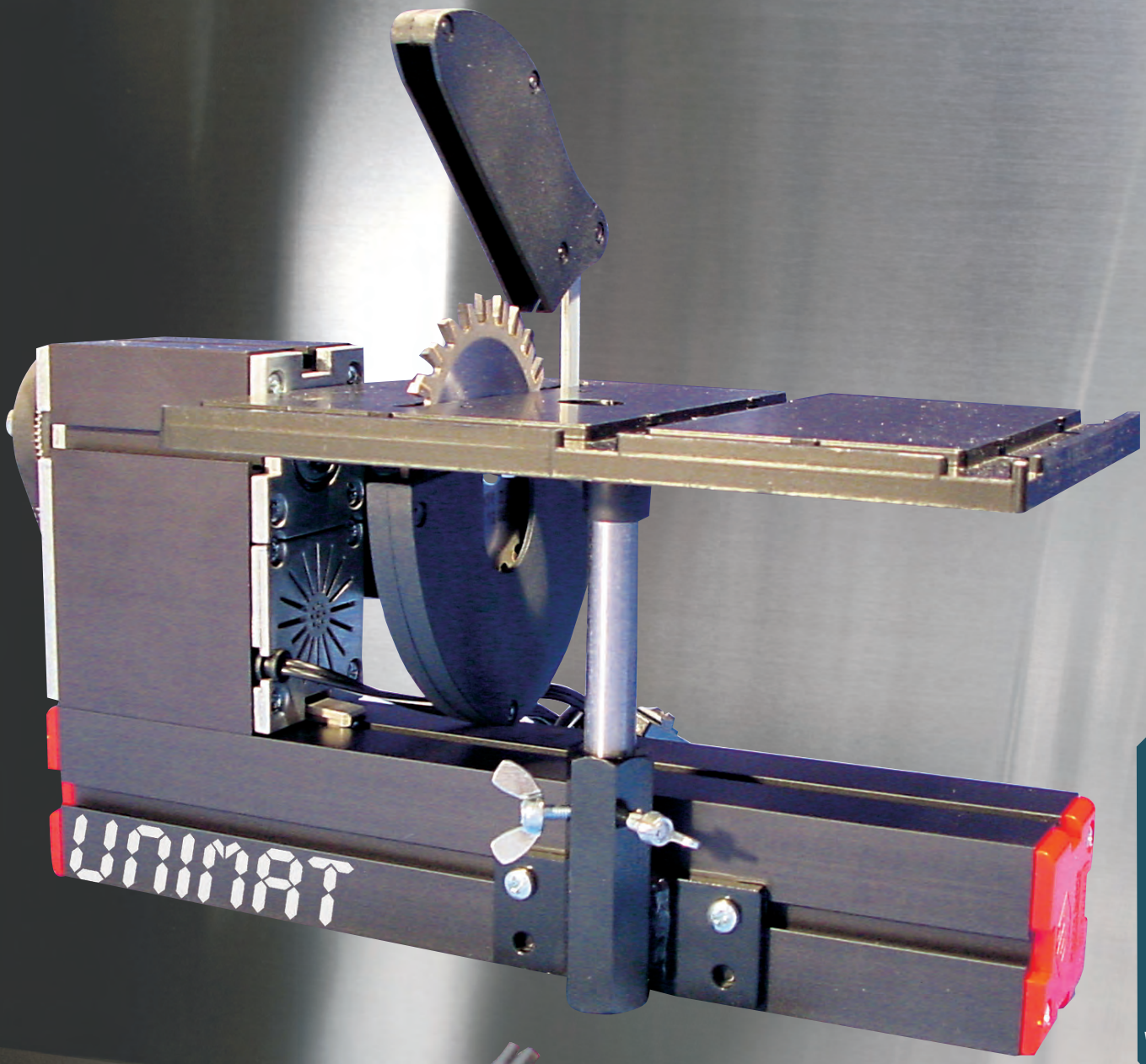
phone: +43-2236-892 666 fax: +43-2236-892666-18

VS_162330Set-Ref 12-12-12



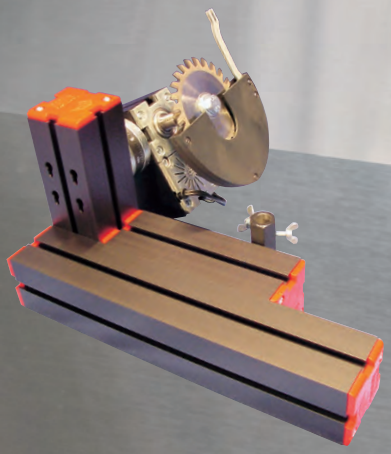
MADE IN AUSTRIA

Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[KREISSÄGE]

[CIRCULAR SAW]

[SCIE CIRCULAIRE]

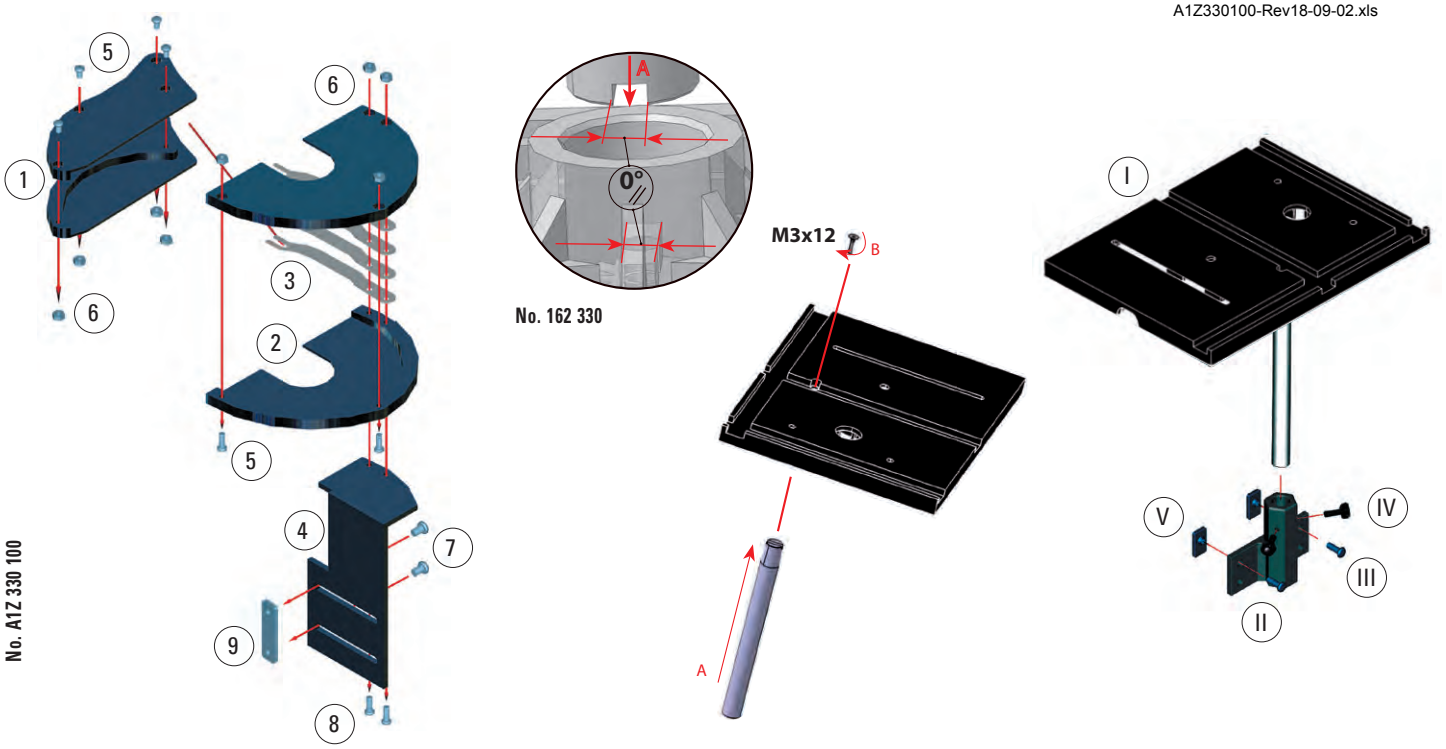
[SIERRA CIRCULAR]

[Art.No.: 162 330 Set]

The tool QUALITY PRODUCT MADE IN AUSTRIA

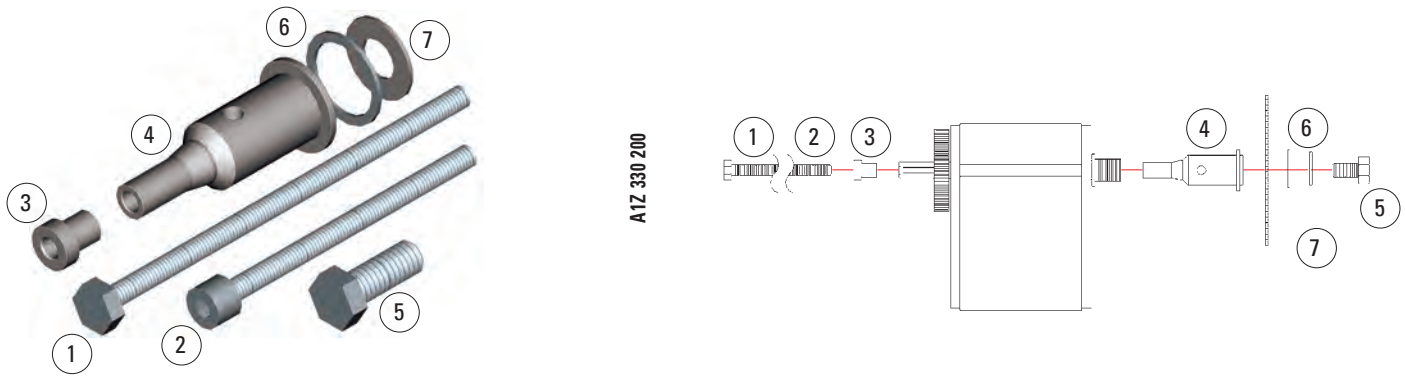
No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Oberer Schutz	On top device	Protecteur lame dessus	Protección sobre mesa	A1Z 330 11R or L	1
2	Unterer Schutz	Under table device	Protecteur lame au-dessous	Protección bajo mesa	A1Z 330 12 R or L	1
3	Spaltkeil 0,5 mm	Splitting wedge 0,5 mm	Couteau diviseur 0,5 mm	Dispositivo de corte 0,5 mm	A1Z 330 130	4
4	Montagewinkel	Mounting angle	Angle du montage	Angulo de montaje	A1Z 330 140	1
5	Schraube M3x10	Screw M3x10	Vis M3x10	Tornillo M3x10	ZSR M40 310	6
6	Mutter M3	Nut M3	Ecrou M3	Tuerca M3	ZMU 620 030	8
7	Schraube M4x6	Screw M4x6	Vis M4x6	Tornillo M4x6	ZSR M40 406	2
8	Schraube M3x14	Screw M3x14	Vis M3x14	Tornillo M3x14	ZSR M40 314 senk	2
9	Klemmplatte	Camping plate	Element en "T"	Elemento "T"	A1A 010 020	1

A1Z330100-Rev18-09-02.xls



No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
I	Fräs- & Sägetisch (200x150 mm)	Milling and Sawing table (200x150 mm)	Table de scie et de fraisage (200x150 mm)	Mesa para fressar (200x150 mm)	162 330 MH	1
II	Aufnahme	Mounting device	Fixation	Base	A1Z 330 500	1
III	Schraube M4x10	Screw M4x10	Vis M4x10	Tornillo M4x10	ZSR M40 410	2
IV	Inbusschraube M4x6	Allen screw M4x6	Vis de inbus M4x6	Tornillo alen M4x6	ZSR M46 ISKT	2
V	Nutstein	Slot nut	Boulon en "T"	Pernos "T"	A1A 060 040	2

162330-Rev07-11-2006.xls



No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Schraube M5x110	ScrewM5x110	Vis M5x110	Tornillo M5x110	ZSR M50 110	1
2	Schraube M5x90	ScrewM5x90	Vis M5x90	Tornillo M5x90	ZSR M50 90	1
3	Lager	Bearing	Palier	Balineras Rodamiento	A1Z 330 201	1
4	Aufnahme	Mounting device	Arbre	Dispositivo	A1Z 330 202	1
5	SchraubeM8x12	ScrewM8x12	Vis M8x12	Tornillo M8x12	ZSR M80 012	1
6	Scheibe1	washer1	Rondelle 1	Anillo de distancia 1	ZSB 162 207	2
7	Scheibe2	washer2	Rondelle 2	Anillo de distancia 2	ZSB 841 820	1

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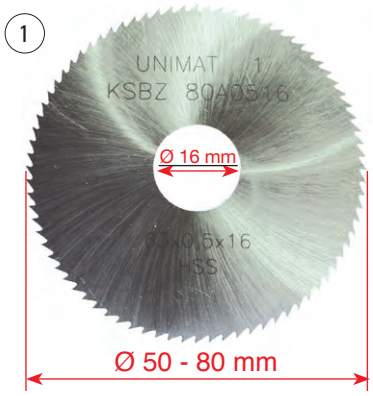
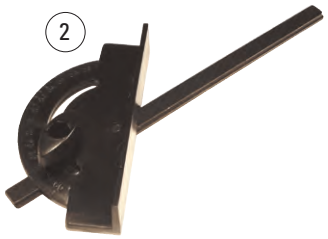
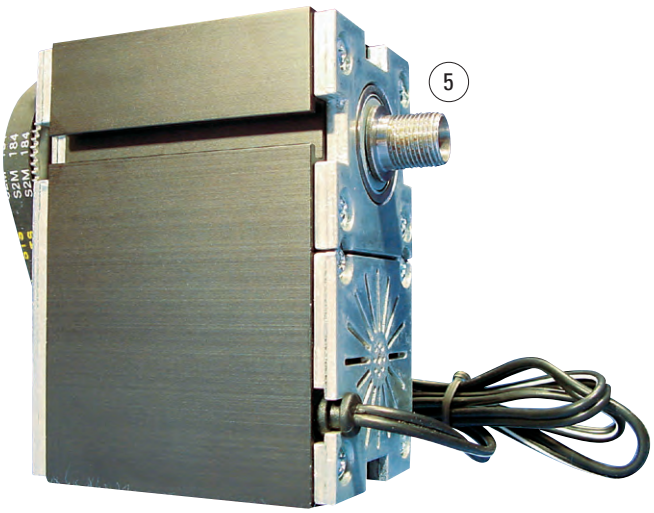
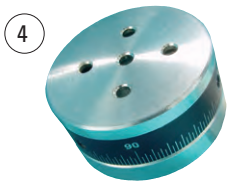
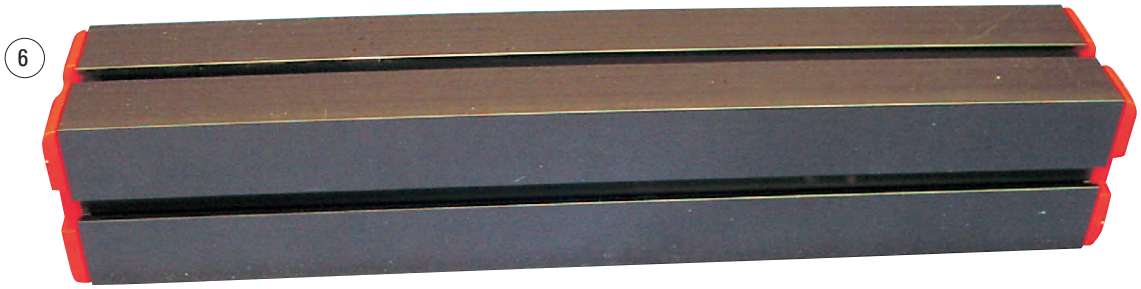
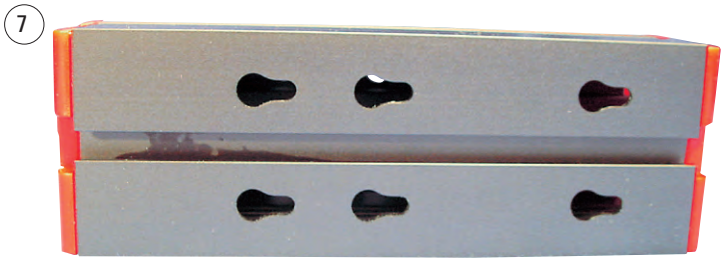


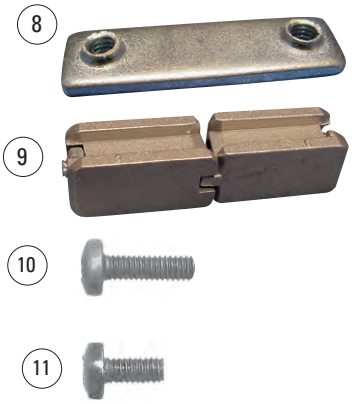








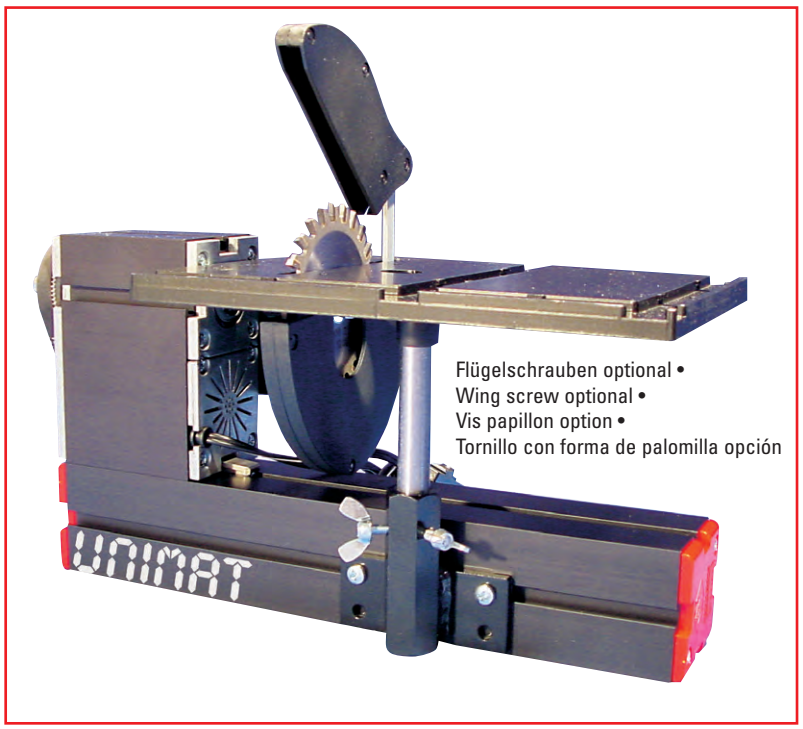




nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	HSS-Kreissägeblatt 63x0,5x16-Z80	HSS-Circular saw blade 63x0,5x16-Z80	HSS-Lame Circulaire 63x0,5x16-Z80	Hoja Circulo 63x0,5x16-Z80	KSB Z80 A05 16	1
2	Gehrungswinkel	Mitring fence	Guide d´ onglet	Regla da inglete	162 330 GW	1
3	Parallelanschlag	Length stop device	Butée longitudinale	Tope longitudinal	A1Z 330 400	1
	Nicht enthalten in 162 330Set	**Not included in 162 330Set**	**Pas inclus à 162 330Set**	**No incluido en 162 330Set**		
4	Rundtisch	Rotary table	Table circulaire	La mesa para tornear	162 300 MH	1
5	Power Antriebseinheit	Power drive unit	Unitè motrice de haute puissance	Power motor con su eje especial de reducion	162 320	1
6	Maschinenbett lang (U1) (271 mm)	Machine bed long (U1) (271 mm)	Banc grand (U1) (271 mm)	Bancada grande (U1) (271 mm)	A1A 020 000	1
7	Maschinenbett kurz (U7) (140 mm)	Machine bed short (U7) (140 mm)	Banc petit (U7) (140 mm)	Bancada pequeña (U7) (140 mm)	A1A 010 000	2
8	Klemmplatte (U47)	Camping plate (U47)	Element en "T" (U47)	Elemento "T" (U47)	A1A 010 020	3
9	Verbindungselement (M1)	Connection piece (M1)	Pièce de connexion (M1)	Elemento de conexión (M1)	A1A 000 ZIN	2
10	Schraube M4x12	Screw M4x12	Vis M4x12	Tornillo M4x12	ZSR M40 412	2
11	Schraube M4x6 (U38)	Screw M4x6 (U38)	Vis M4x6 (U38)	Tornillo M4x6 (U38)	ZSR M40 406	4

Var.1 ZUSAMMENBAU
ASSEMBLY
ASSEMBLAGE
MONTAJE



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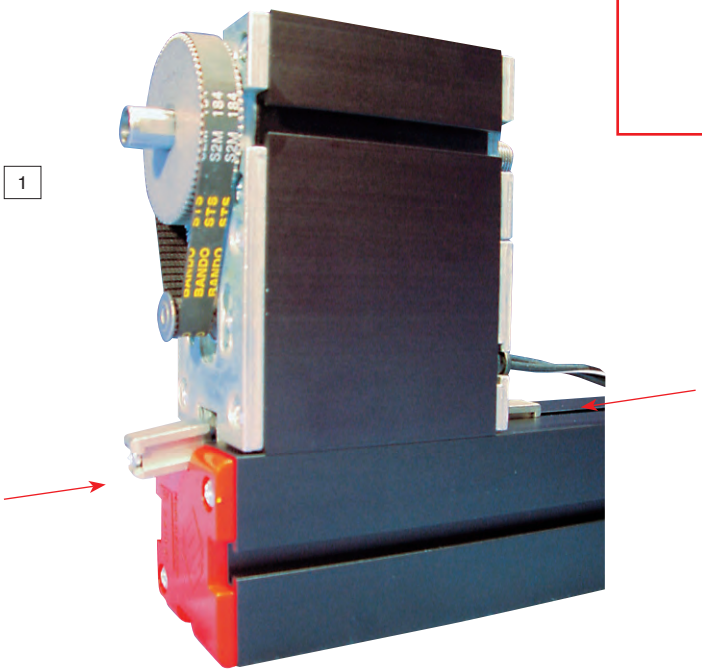

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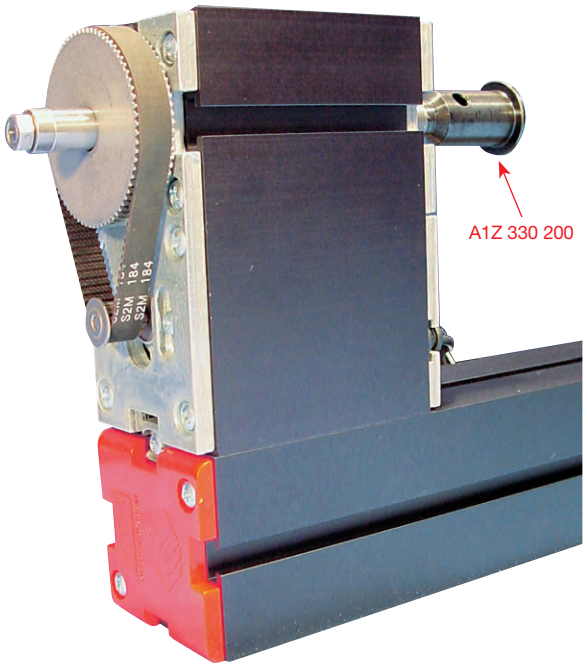

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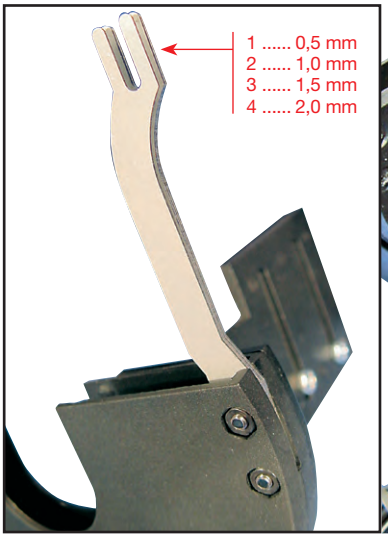

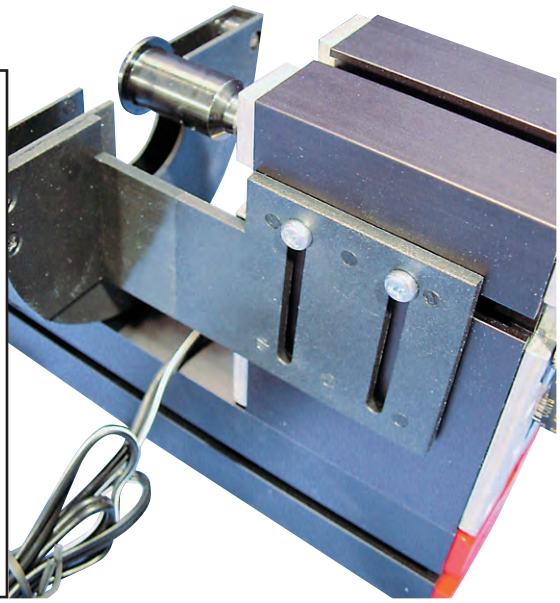

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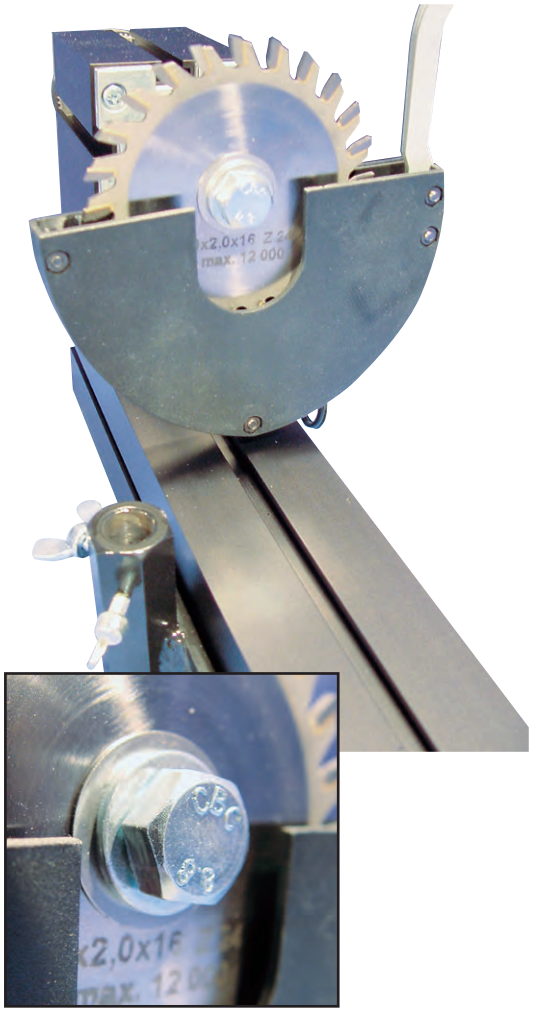

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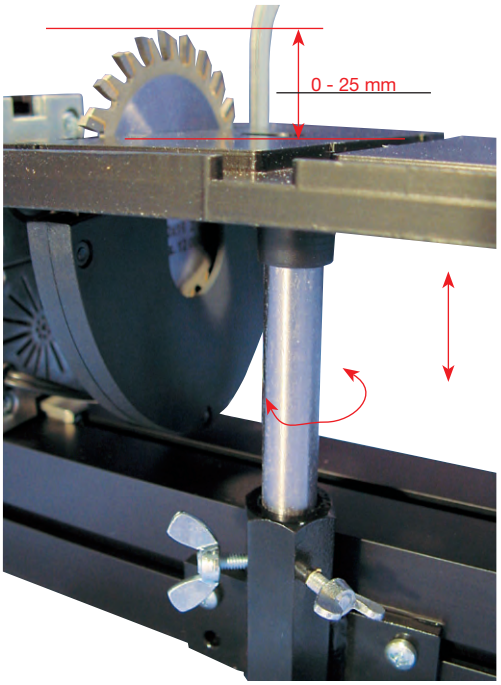
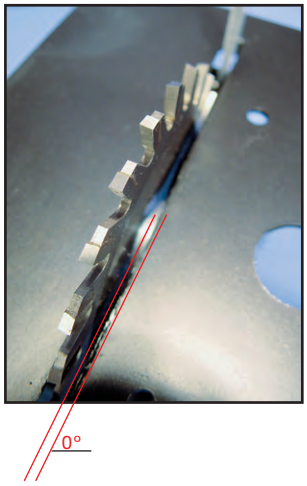
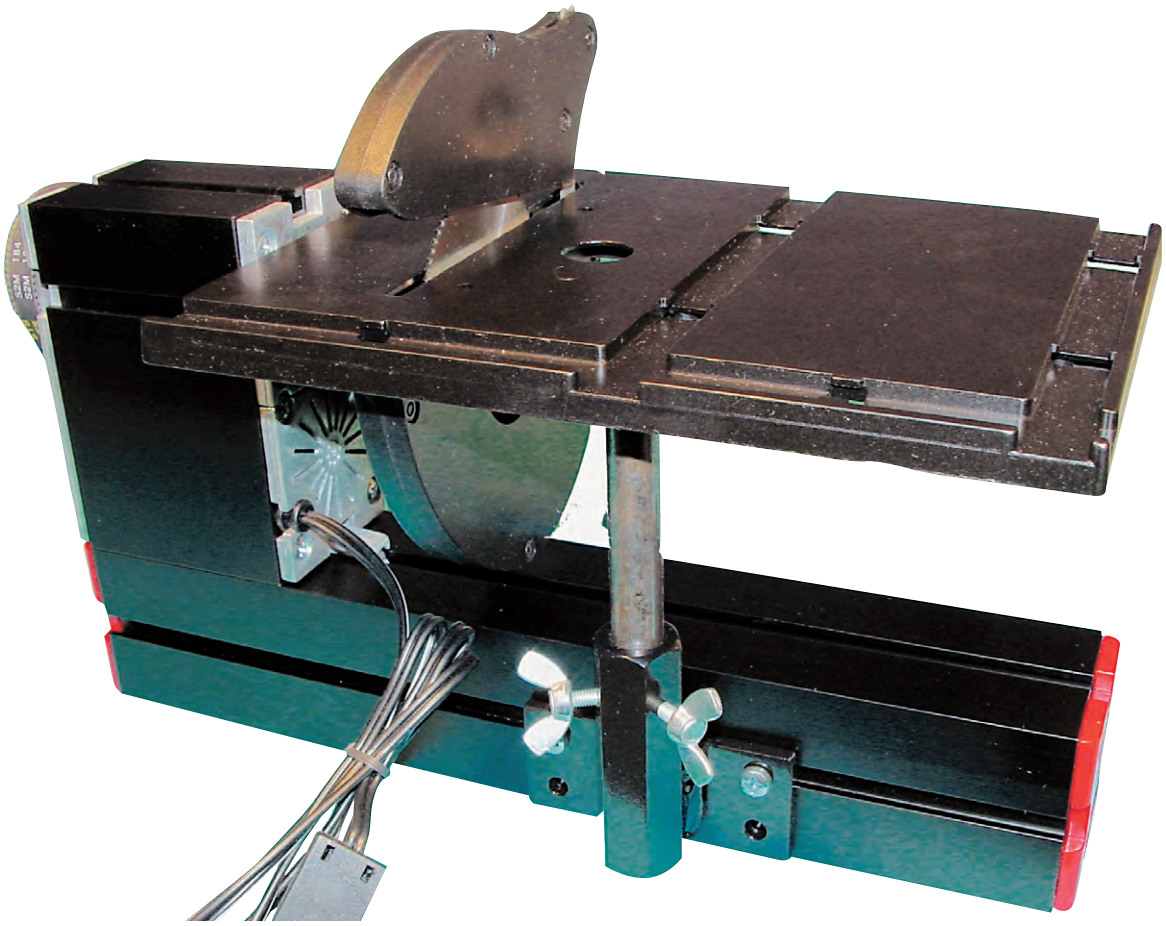
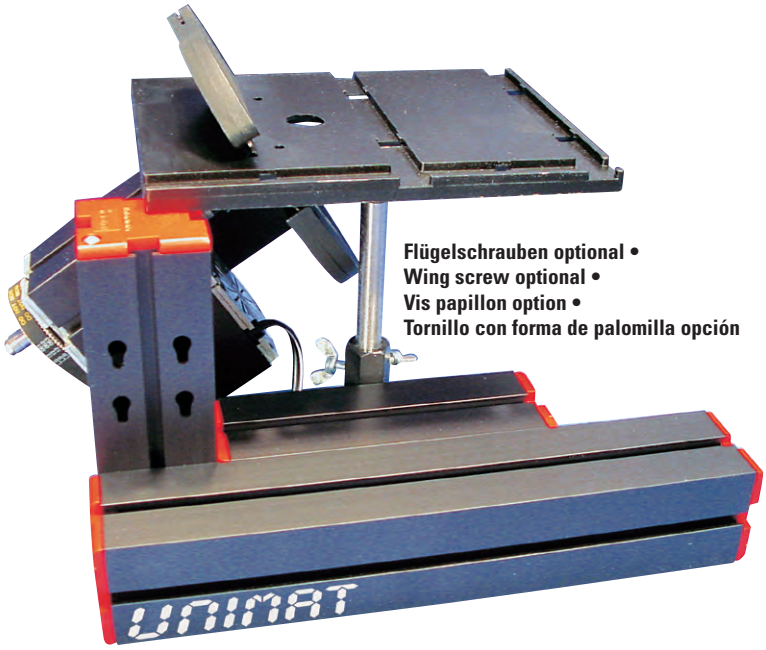






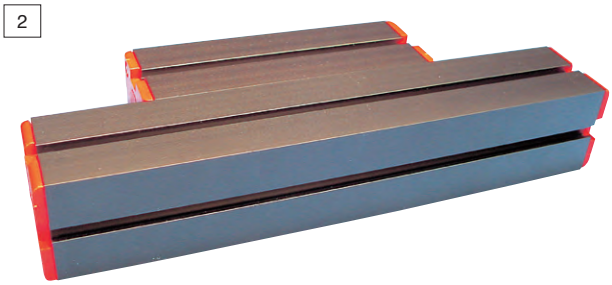
Var.2 ZUSAMMENBAU
ASSEMBLY
ASSEMBLAGE
MONTAJE



Flügelschrauben optional •
Wing screw optional •
Vis papillon option •
Tornillo con forma de palomilla opción

1

2



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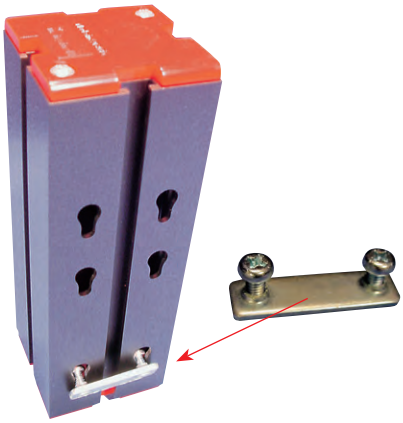

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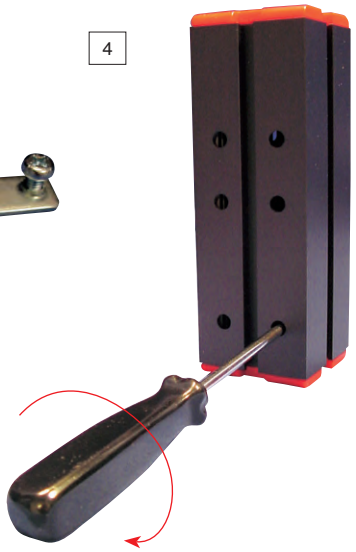

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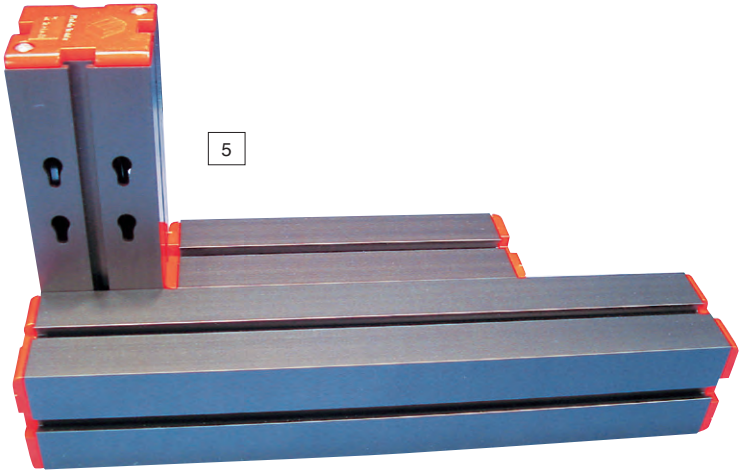

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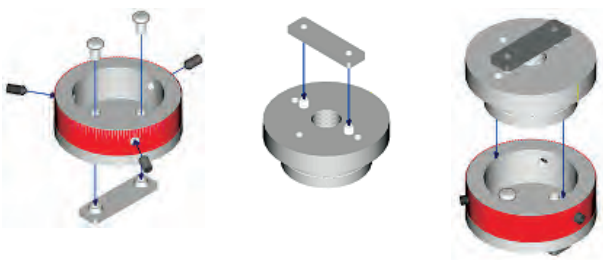

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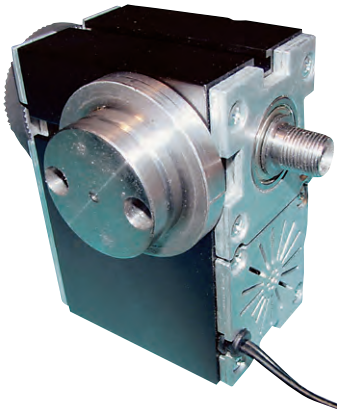

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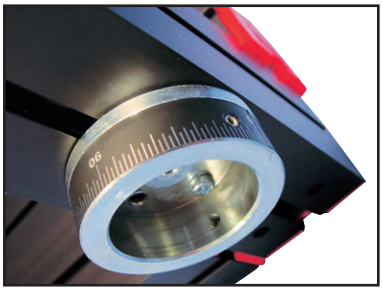

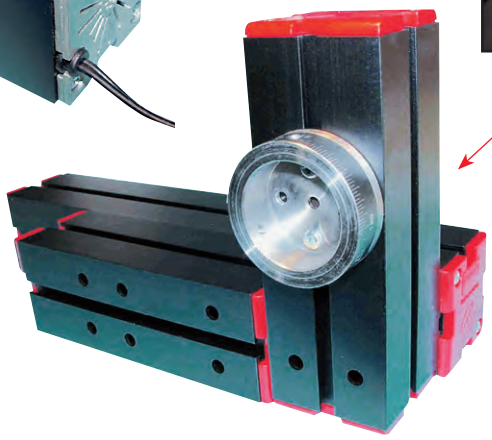

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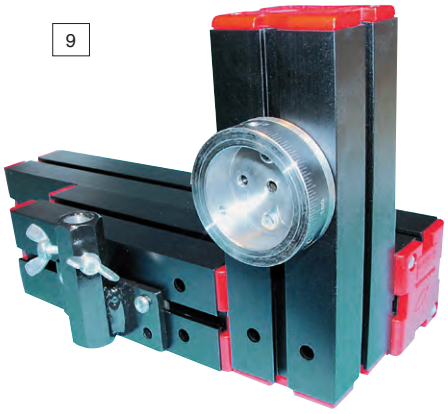

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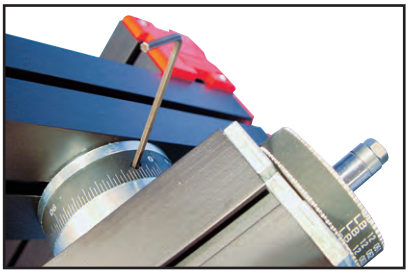

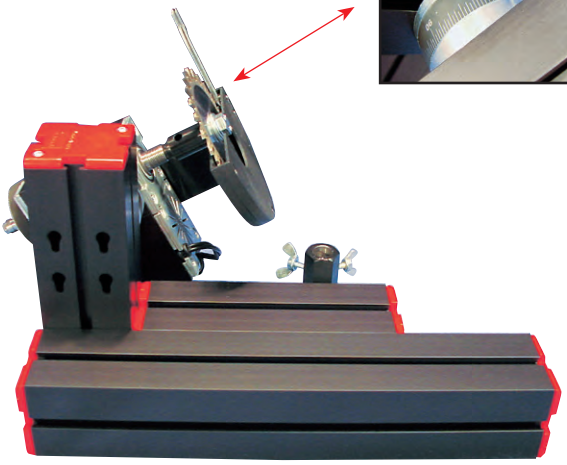

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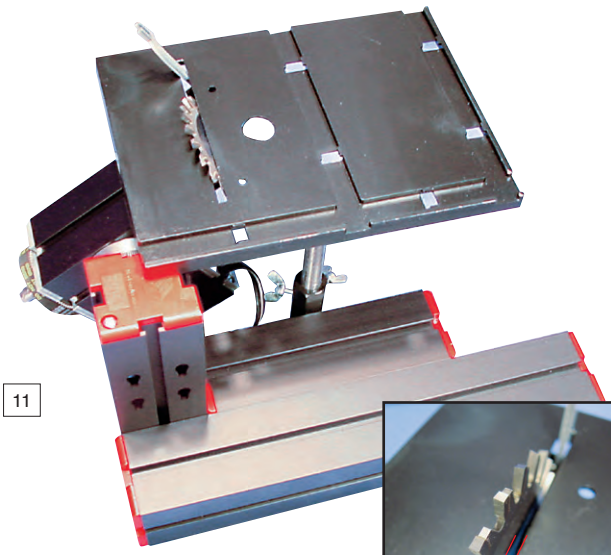

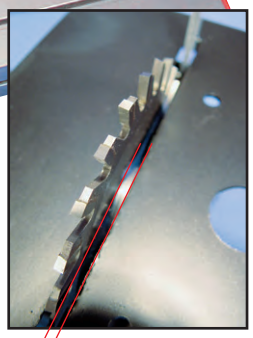

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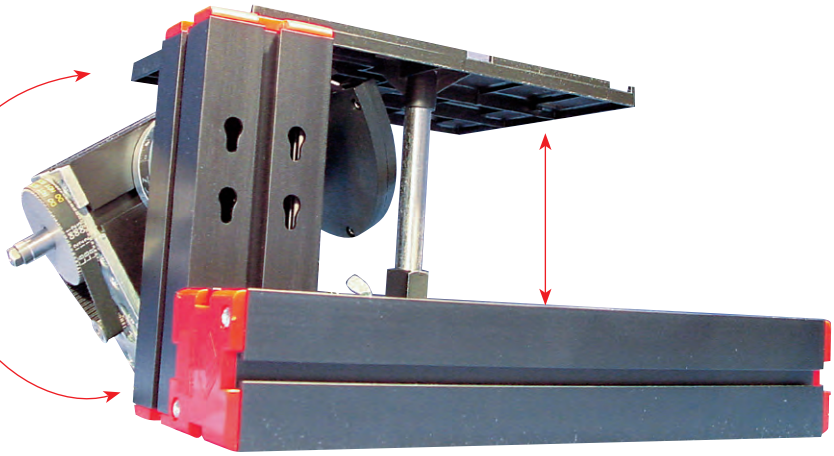
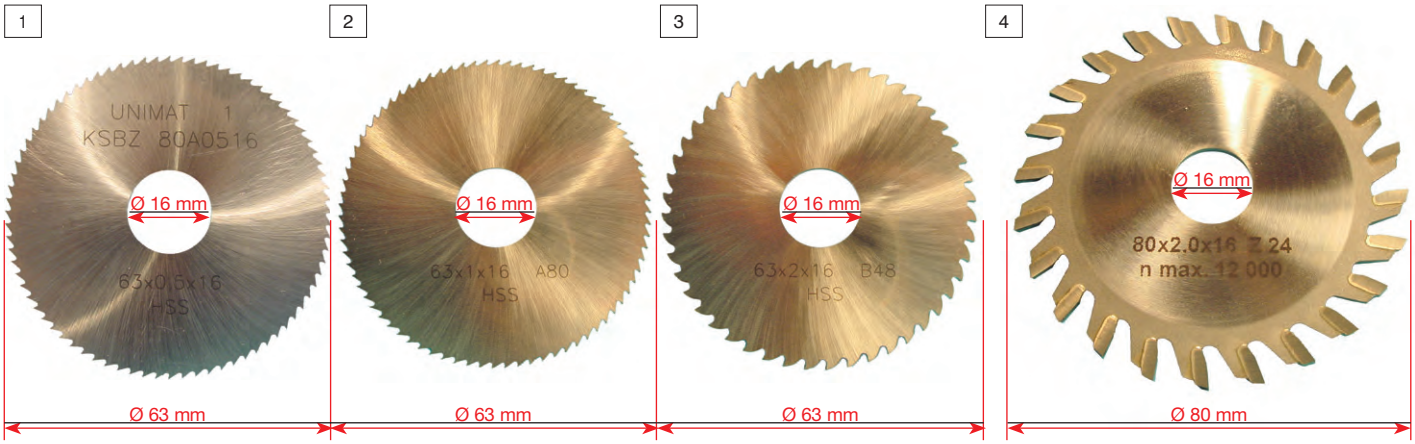
12



0 – 45°

Zubehör / accessories / accessoires / accesorio: Qualitativ hochwertige HSS - und HM - Kreissägeblätter / High quality HSS - and HM - Circular saw blades / Lames de scie circulaires HSS et HM de haute qualite / hoja de sierra circular HSS e HM de gran calidad

1 2 3 4



No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Code
1	HSS - 80 Zähne Schnittbreite 0,5 mm, feinste Arbeiten	HSS - 80 teeth cutting span 0,5 mm, fine working	HSS - 80 dents large 0,5 mm, travail très fin	HSS - 80 dientes ancho de corte 0,5 mm para trabajos precisos	KSB Z80 A05 16	H, K, M
2	HSS - 80 Zähne Schnittbreite 1,0 mm, Allroundblatt, feine Metallarbeiten	HSS - 80 teeth cutting span 1,0 mm, allround blade, fine metal working	HSS - 80 dents large 1,0 mm, travail très fin en metal	HSS - 80 dientes ancho de corte 1,0 mm hoja universal, para trabajos precisos metales	KSB Z80 A10 16	H, K, M
3	HSS - 48 Zähne Schnittbreite 2,0 mm, Hartkunststoffe, Metalle	HSS - 48 teeth cutting span 2,0 mm, hard plastic, metal	HSS - 48 dents large 2,0 mm, plastique dur, metal	HSS - 48 dientes ancho de corte 2,0 mm para materiales sintéticos, metales y pletinas	KSB Z48 B63 20	H, K, M
4	HM - 24 Zähne Schnittbreite 2,0 mm, Holz, Hartholz, Kunststoffe	24 carbide bladed teeth cutting span 2,0 mm, wood, hard wood, plastic	HM - 24 dents large 2,0 mm bois, bois dur, plastique	24 dientes de metal duro (HM) ancho de corte 2,0 mm para madera duros, materiales sintéticos	KSB WZ2 420 151 6	H, K
S	Set Kreissägeblätter 3 STk. inkl. No. 2, 3, 4	Set of 3 pcs Circular saw blades incl. No. 2, 3, 4	Jeu de 3 lames circulaire inc. No. 2,3,4	Conjunto de 3 hojas de sierra circular inc. N° 2,3,4	162 331	----------

S ..... Änderungen vorbehalten / subject to change / changement accepter /cambiamentos aceptar

162331-Rev09-08-02.xls

Code: geeignet für / use for / approprié pour / utilizable para H ..... Holz / Wood / Bois / Madera – K .... Kunststoff / Plastic / Plastique / Plástico – M .... Metalle / Metal / Métal / Metal

SICHERHEITSHINWEISE
Mit dieser Maschine kann man sich bei unsachgemäßer Handhabung ernsthaft verletzen.
Die Maschinen sind mit scharfem Werkzeug ausgerüstet und können zum Teil schwere Schnittwunden verursachen.
Eingespanntes Werkstück kann beim Arbeiten aus der Maschine fliegen.
Immer wieder überprüfen, ob Werkzeug bzw. Werkstück fest eingespannt ist!
Schutzbrille verwenden!
Niemals in rotierendes Werkzeug greifen.
Niemals in rotierendes Werkstück (Drechselhölzer, ...) greifen!
Aufpassen, daß weder offene Kleidung (Ärmel, ...), noch Haare in die Nähe von rotierendem Werkzeug oder Werkstück kommen.
Der Antrieb erfolgt über einen 12 V Gleichstrom Motor!
Nur unter direkter Aufsicht Erwachsener benutzen. Wie bei einem Arbeitsplatz, ist auf ein sauberes Umfeld zu achten. Erst nach abgeschlossener Montage, insbesondere der Motor-Getriebe-Abdeckung ist die Maschine mit der Stromversorgung zu verbinden.
Dieses Gerät dient der Bearbeitung von Holz, Metall und Kunststoffen und muß vor unsachgemäßer,
bestimmungs- und zweckwidrigen Zugriffen (z.B. Kindern) geschützt werden.
Bei allen Umbauarbeiten ist die Säge abzuschalten und abzustecken.
Bei allen Wartungsarbeiten ist die Säge auszuschalten und abzustecken.
Die Maschine ist vor Nässe zu schützen und nur in trockener Umgebung zu verwenden.
Bei der Aufstellung der Säge ist auf Standfestigkeit zu achten (feste Verbindung zum Tisch).
Nie mit abgenutzten bzw. beschädigten Sägeblättern arbeiten.
Keine Gewalt beim Schneiden anwenden. Bei blockierenden Sägeblatt ist die Säge sofort abzuschalten.
Die Sägeblätter dürfen nicht durch seitliches Gegendrücken abgebremst werden.
Die Breite des Spaltkeiles muß der Breite des Sägeblattes entsprechen.
Die Funktion des Schutzes muß gewährleistet sein.
Die Säge nie ohne Schutz (A1Z 330 100) verwenden.
Kleine Teile mit einer Leiste zum Sägeblatt führen.
Der Benutzer haftet für Verletzungen, die er sich selbst und auch anderen zufügt.

SAFETY MEASURES
This machine can cause severe injuries if handled improperly.
The machines are supplied with sharp tools. Handle these with caution to avoid injury.
The workpiece can fly out of the chuck when being machined.
Always make sure that the tool and workpiece are each properly secured.
Use protection goggles.
Never touch the revolving workpiece with any part of your body.
Keep hair and clothing well away from moving parts.
Propulsion is furnished by a 12 V direct-current motor.
Children should only use the machines under very strict supervision by responsible adult.
Keep working place clean and tidy. Make sure the assembly of Unimat1 machine parts is done correctly
(especially the coverage of motor and countershaft) before plugging in the transformer.
Use the saw exclusively for working in wood, metal and plastics. This saw is not child friendly.
For all remodeling works of the saw, put the power switch off and disconnect the saw from the transformer.
For all servicing works of the saw, put the power switch off and disconnect the saw from the transformer.
Protect the machine from water or moisture and work in a dry surrounding only.
Be sure that the machine has a stable connection to the ground (fixed connection to the table)
Don't use worn or damaged saw blades.
Don't push with too much effort. If the sawblade blocks switch off the machine immediately
Don't stop sawblades by lateral pressure.
The saw blade and the splitting wedge must be of the same thickness.
The function of the safety device has to be ensured.
Do not use the saw without the Circular Saw Safety Device (A1Z 330 100).
Use a strip of wood for guiding small parts to the sawblade.
The user is responsible for any injuries caused to him or anyone else.

MESURES DE SÉCURITÉ
En cas d'utilitation non conforme, cette machine peut causer de graves blessures.
Les machines sont équipées d'outils tranchants et peuvent dans certains cas provoquer des coupures graves.
L'outil en place peut être projeté hors de la machine en cours de travail.
Vérifiez toujours si l'outil et la pièce à usiner sont solidement serrés!
Utilisez les lunettes protectrices!
Ne touchez jamais l'outil en rotation!
Ne touchez jamais une pièce en rotation (bois de tournage...)!
Veillez à tenir éloignés de l'outil ou de la pièce en rotation les vêtements lâches (manches ...) et les cheveux.
Entraînement par un moteur 12 V courant continu.
Ne laissez jamais travailler les enfants sans surveillance! La place d'emploi doit rester propre!
N'utilisez le transformateur qu'après l'assemblage complet, surtout des couvertures du moteur et de la broche de réduction!
Mode d' emploi UNIMAT 1.
Cet appareil permet de travailler le bois, métal et plastique il est destiner que pour les adultes
Pour le montage des machines il est très important de débrancher le transformateur.
Pour une modification de la machine débrancher le transformateur.
Protéger la machine contre l' eau, ne pas travailler dans un lieu humide.
Fixer la machine sur une planche, un établi ou une table rigide.
Ne pas utiliser des lames usagées
Ne pas pousser trop fort la matière à découper sur la lame, dans ce cas elle se bloquera. Arrêter la machine.
Ne pas toucher la lame latéralement.
La lame d'écartement derrière la scie circulaire doit être toujours plus épaisse que la scie.
Le carter de protection de la lame doit toujours être en service pour votre sécurité.
Ne jamais utiliser la scie circulaire sans protection.
Pour découper des petites pièces utiliser une baguette comme poussoir.
La personne qui utilise la machine est responsable des accidents causer sur elle et les autres.

MEDIDA DE SEGURIDAD
Con cada de esta maquina corre peligro herirse al servirse de ellas inadecuadamente.
Las máquinas están provistas de herramienta afilada que pueden a veces causar cortes graves.
La herramienta fijada puede salir de la máquina durante el trabajo.
Siempre conviene controlar si la herramienta y el material están fijados adecuadamente!
Utilizar las gafas protectoras!
Nunca tocar la herramienta rotatoria!
Nunca tocar el material que esta rotanda (madera para tornear, ...)!
Prestar cuidado a que indumentaria (mangas, ...) o cabello suelto no se hallen demasiado cerca de la herramienta y del material!
Populsión mediante un motor 12 V corriente continua!
Niños no deben nunca trabajar con las máquinas sin guardia! Como todas las máquinas también UNIMAT 1 debe ser limpiada y lubricada regularmente. ¡Juntan la máquina con el corriente después del ensamblaje de la cubierta!
Esta máquina sirve para trabajar madera, metal y materiales sintéticos y se debe proteger de un uso incorrecto
e inadecuado (por ejemplo por parte de niños).
Cada vez que se desmonta una máquina se debe apagar y desconectar la sierra.
Cada vez que se realicen trabajos de mantenimiento y revisión se debe apagar y desconectar la sierra.
Se debe proteger la máquina de la humedad y utilizar sólo en ambientes secos.
Cuando se monta la sierra se debe tener en cuenta la estabilidad (sujeción sobre la mesa).
No trabaje nunca con hojas de sierra desgastadas o estropeadas.
No utilice fuerza cuando sierra. Si la hoja de sierra se bloquea hay que desconectar la sierra.
No se deben frenar las hojas de sierra mediante presión lateral.
El ancho de la cuña de partir debe corresponder al ancho de la hoja de la sierra.
La función de la protección debe estar garantizada.
No utilice nunca la sierra sin protección.
Acerque piezas pequeñas a la zona de corte mediante un listón (A1Z 330 100).
Siguen existiendo los siguientes riesgos: que una pieza salga disparada, entrar en contacto con la herramienta,
el retroceso de la pieza de trabajo
El consumidor es responsable de las heridas que se cause a si mismo y a los demás.

Vorbehaltlich Fehler • Errors accepted

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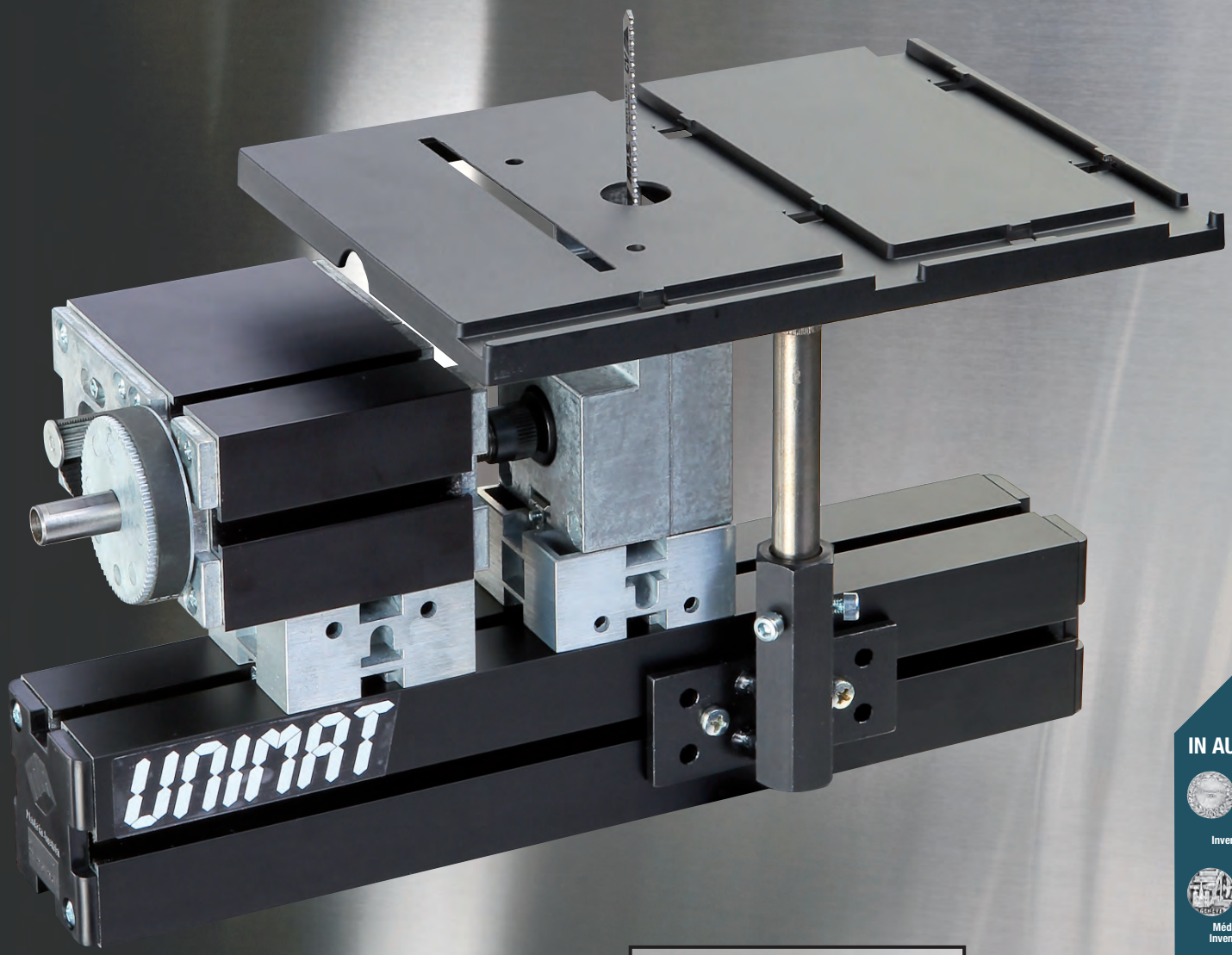

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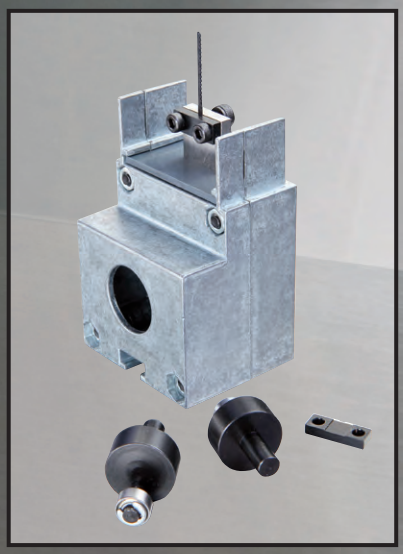
Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[STICHSÄGE-ML VERSTELLBARER HUB]

[JIG-SAW-ML ADJUSTABLE STROKE]

[SCIE SAUTEUSE AVEC LEVEE ADJUSTABLE]

[SIERRA DE CALAR-ML ADAJUSTABLE MOVIMIENTO]

[Art.No.: 164 080]

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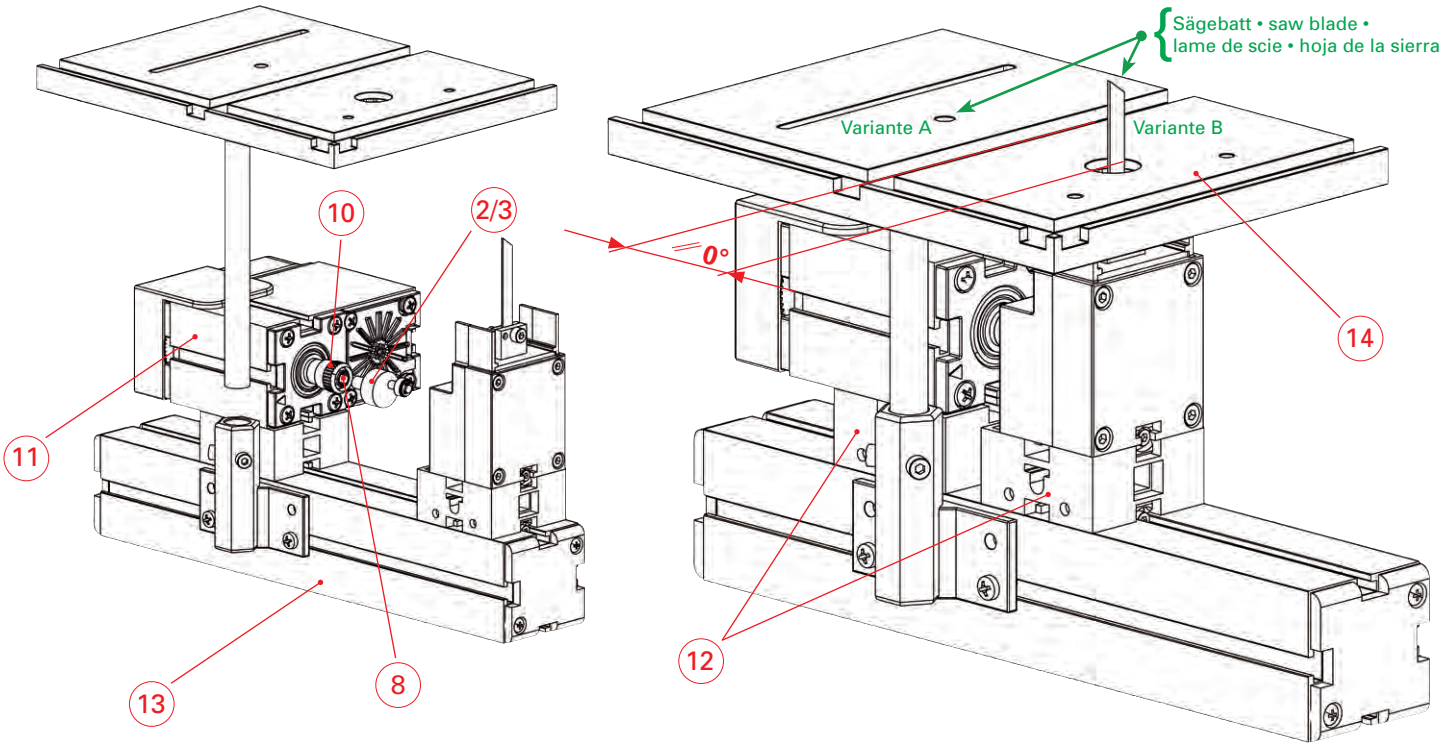
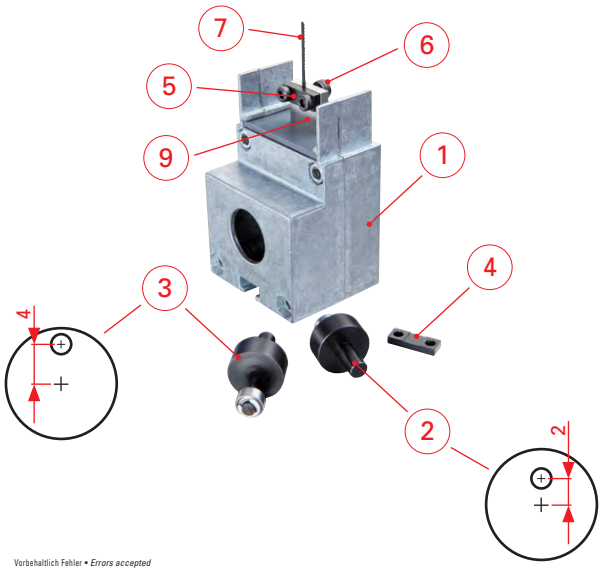
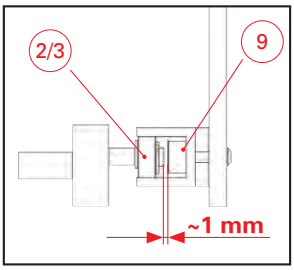


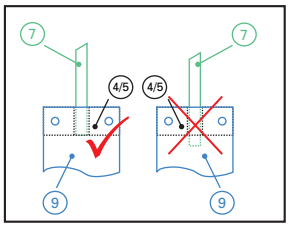
Achtung: bei 8 mm Hub - Verletzungsgefahr • **Watch:** use of 8 mm stroke - danger of injury •
Attention: l'usage 8 mm levee - risques des blessures • **Atención:** movimiento del mano de almirez 8 mm - eligro de herir

No.	Bezeichnung	Description	Désignation	Denominación	Art.No.
1	Stichsägegehäuse ML	Jig saw casing ML	Boîte de scie	Caja de la sierra	A1M 080 000
2	Exzenter 4 mm Hub	Excentric 4 mm stroke	Excentrique 4 mm course	Excéntrica 4 mm carrera	MTG 1M0 800 62
3	Exzenter 8 mm Hub	Excentric 8 mm stroke	Excentrique 8 mm course	Excéntrica 8 mm carrera	MTG 1M0 800 60
4	Sägeblattaufnahme groß	Saw blade holder big	Fixation lame de scie grand	Soporte - hoja de la sierra grande	A1M 080 020
5	Sägeblattaufnahme Unimat	Saw blade holder Unimat	Fixation lame de scie Unimat	Soporte - hoja de la sierra Unimat	A1M 080 022
6	Klemmschraube M4x5	Clamping screw M4x5	Serrage vis M4x5	Sujeción tornillo M4x5	ZSR 405 ISK
7	Sägeblatt	Saw blade	Lame de scie	Hoja de la sierra	ZWZ 500 010
8	6 mm Spannzange *	6 mm collet *	6 mm pinces *	6 mm pinza *	--- --- ---
9	Stössel (Stahl geschliffen)	Tappet (steel polished)	Coulisser en l'acier poli	Mano de almirez (acero pulido)	A1M 080 010
10	Spannzangenhalter *	Collet holder *	Porte-pinces *	Porta-pinza *	A1A 000 070
11	Antriebseinheit *	Drive unit *	Moteur *	Motore *	--- --- ---
12	Zwischenstück *	Intermediate piece *	Pièce intermèdaire *	Piezs intermedia *	A1M 000 101
13	Maschinenbett *	Machine bed long *	Banc, grand *	Bancada grande *	A1A 020 000
14	Fräs- & Sägetisch *	Milling and sawing table *	Plateau de fraisage / scie circulaire *	Mesa para fresar y serrar *	162 330

* ..... nicht enthalten in • not included in • non compris en • no incluidos en 164 080







Vorbehaltlich Fehler • *Errors accepted*

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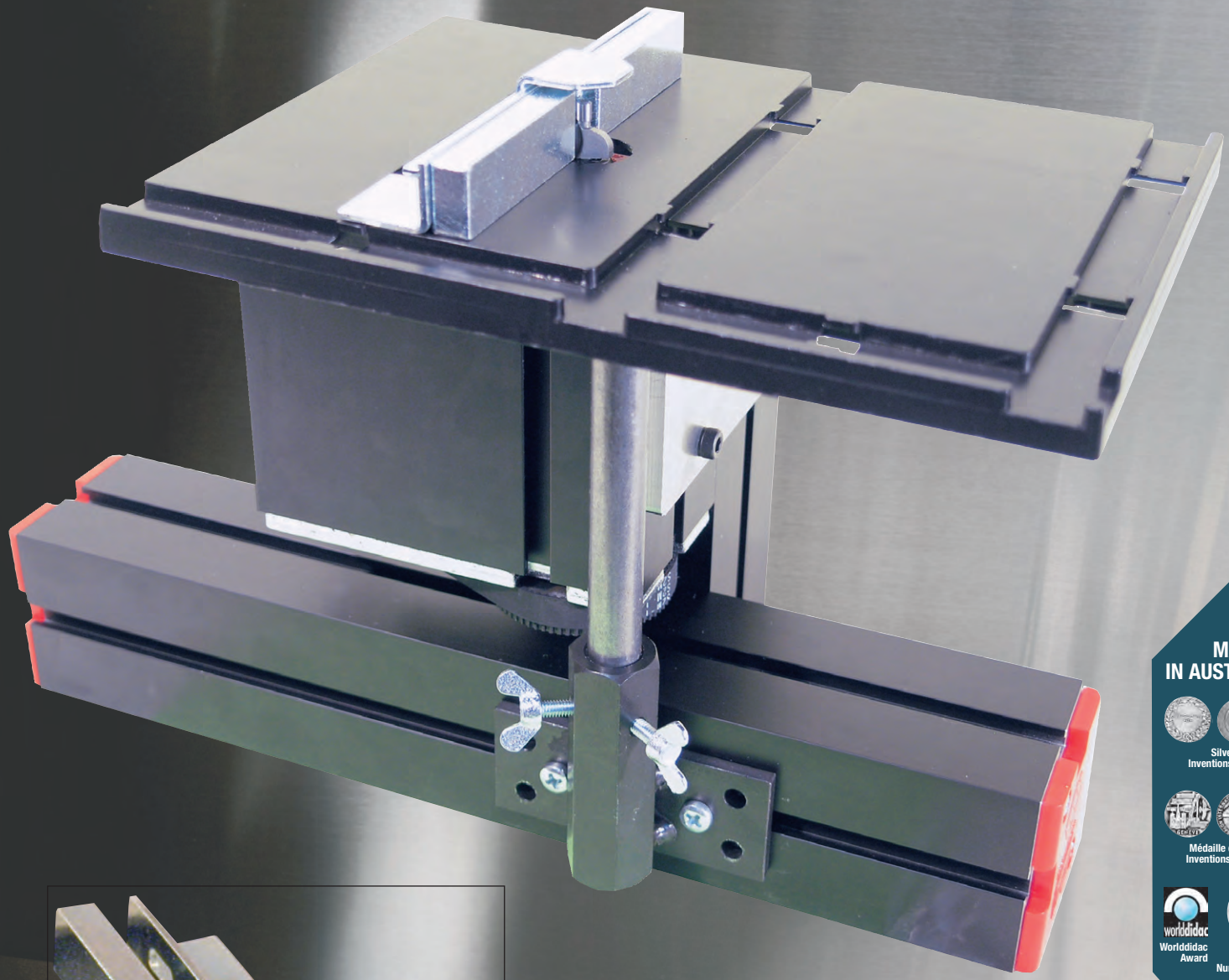

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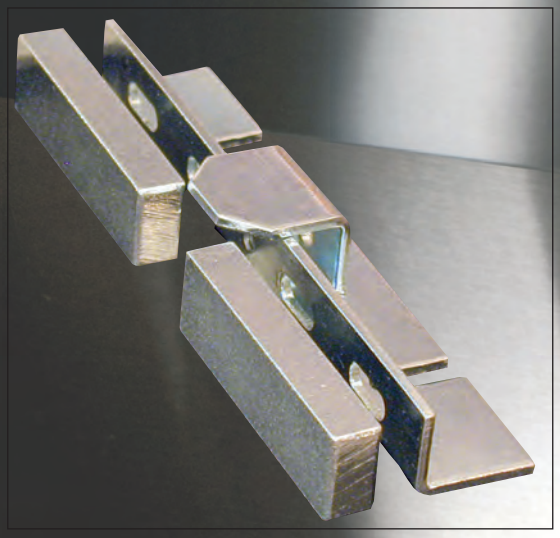
Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[PRÄZISIONS FRÄSANSCHLAG]

[PRECISION MILLING ATTACHMENT]

[DISPOSITIVO DE FRESAR]

[DISPOSITIF DE FRAISAGE]

[Art.No.: 162 332]

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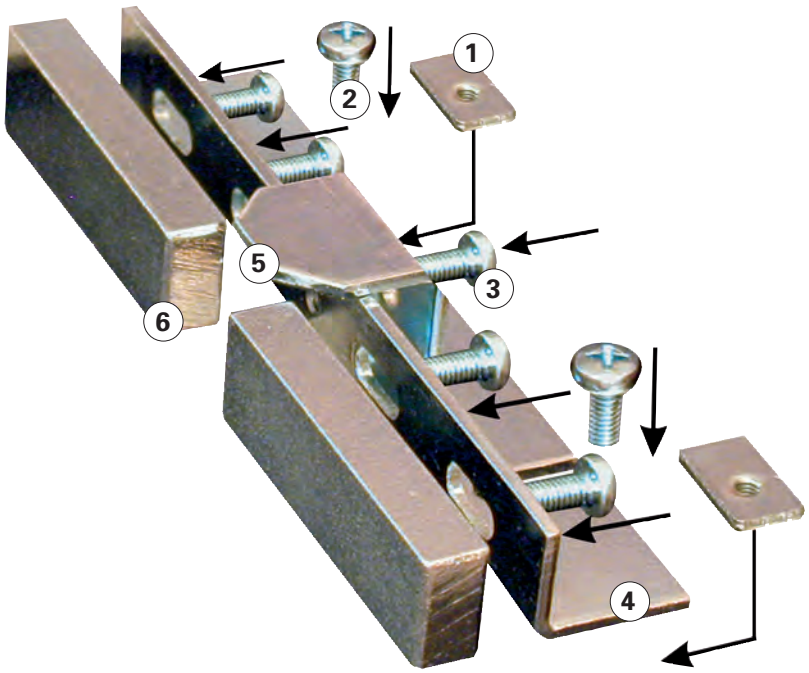
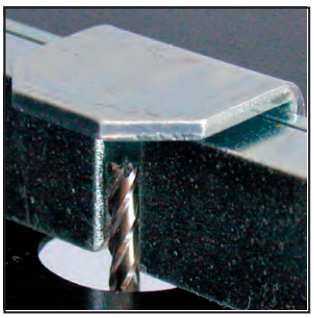
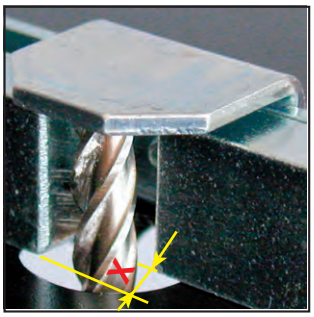
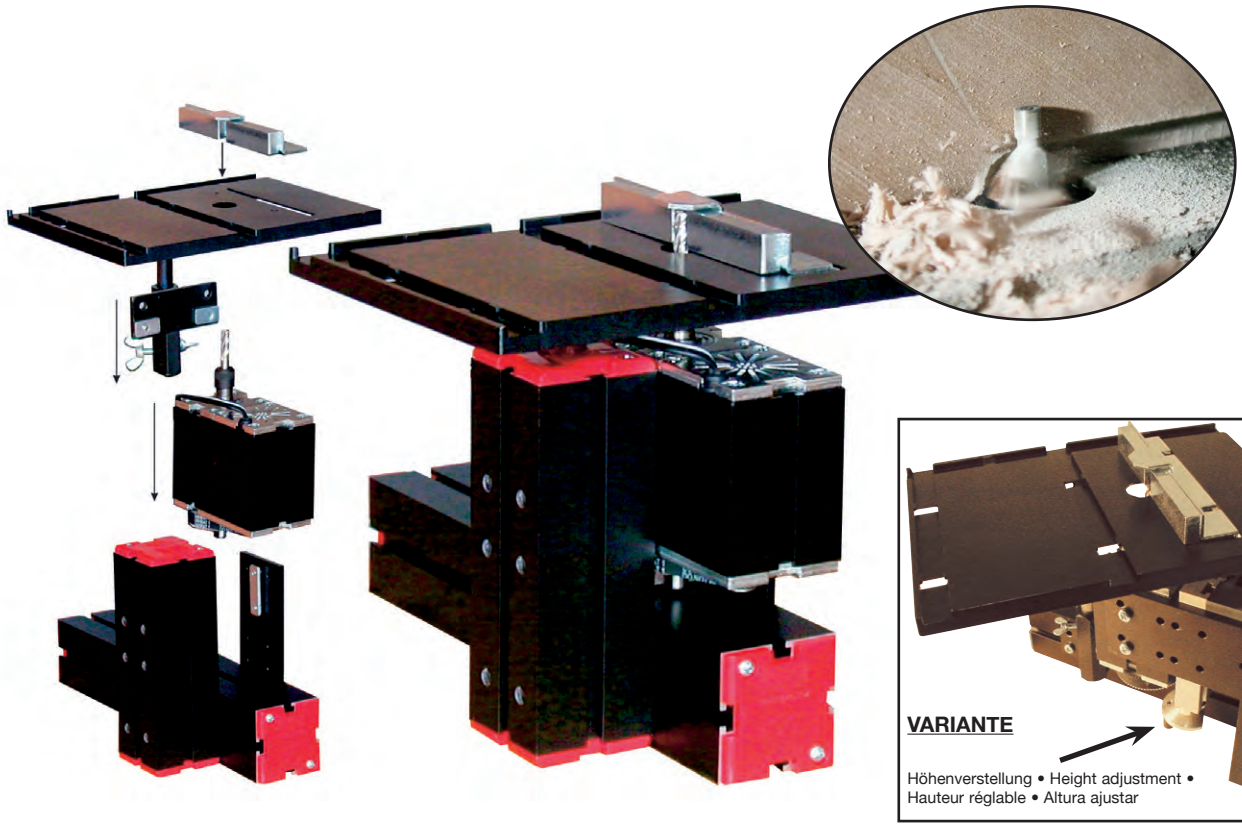


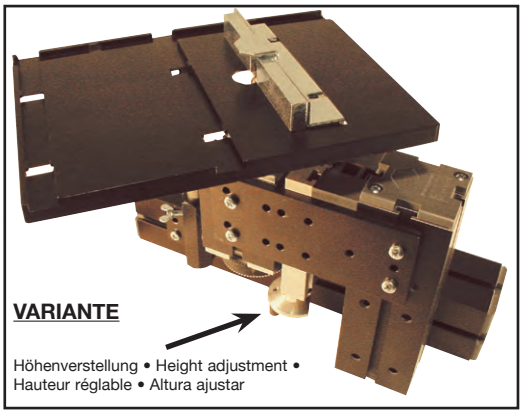


Variante A



Variante B





nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Nutstein	Slot nut	Boulon en "T"	Pernos "T"	A1A 060 040	2
2	Schraube M4x10	Screw M4x10	Vis M4x10	Tornillo M4x10	ZSR M40 410	2
3	Schraube M4x6	Screw M4x6	Vis M4x6	Tornillo M4x6	ZSR M40 406	5
4	Teil A	Part A	Pièce A	Pieza A	162 332 -A	1
5	Teil B	Part B	Pièce B	Pieza B	162 332 -B	1
6	Teil C	Part C	Piéce C	Pieza C	162 332 -C	2

162340-Rev08-06-05.xls

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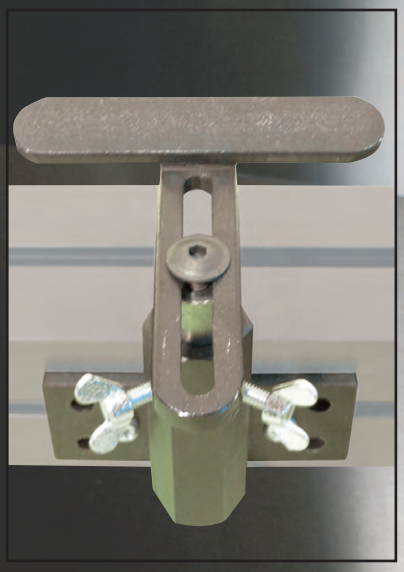

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Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg

[PROFI DRECHSELEINRICHTUNG]

[PROFESSIONAL WOODTURNING ATTACHMENT]

[SUPPORT DE TOURANGE PROFESSIONEL]

[SOPORTE DEL TORNO PROFESIONAL]

[Art.No.: 162 340]

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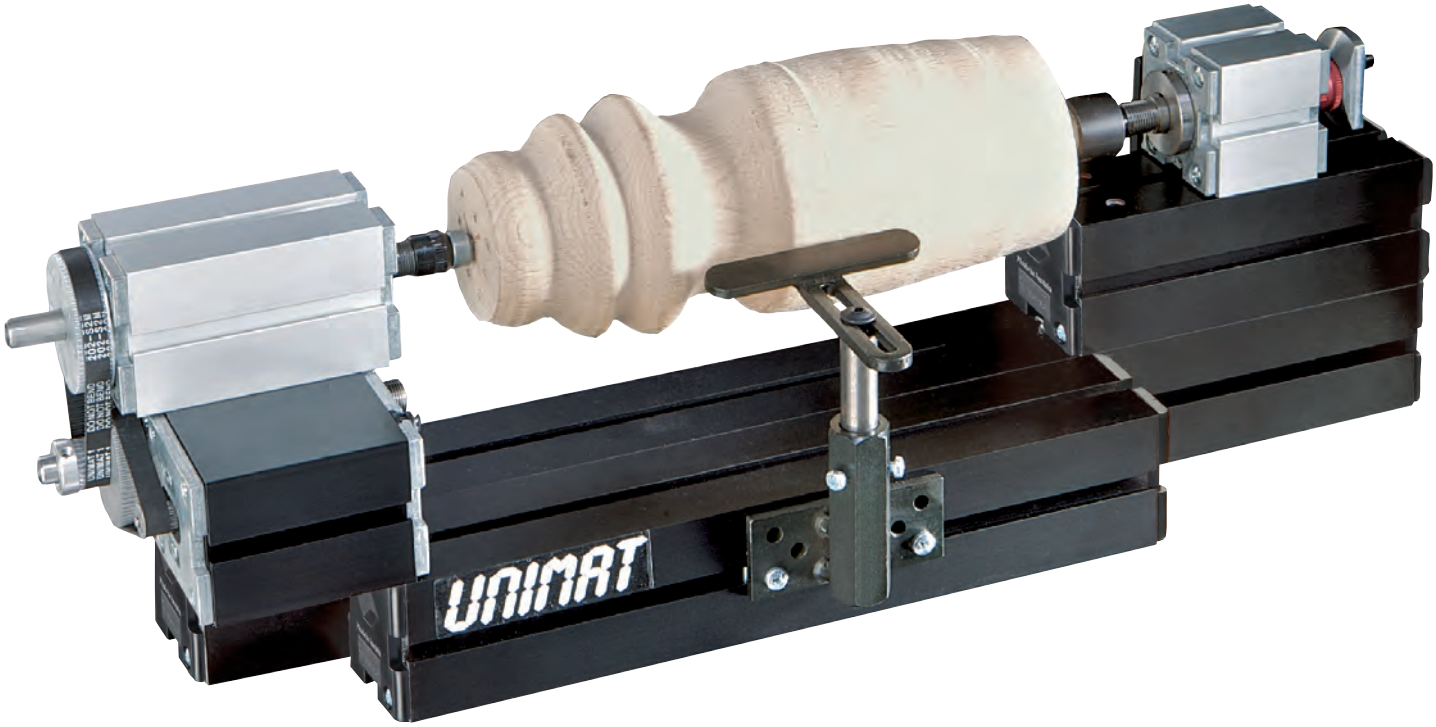

nicht im Maßstab / not in scale / pas à l'échelle / non en el tamaño

No.	Bezeichnung	Description	Désignation	Denominación	Art.-No.	Stück / pcs
1	Drechselauflage	Woodturning support	Support de tournage	Soporte del torno	A1Z 340 110	1
2	Führungsdorn	Guiding bar	Barre conducteur	Barra conductor	A1Z 340 120	1
3	Schraube M5x10	Screw M5x10	Vis M5x10	Tornillo M5x10	ZSR M50 510	1
4	Aufnahme	Mounting device	Fixation	Base	A1Z 330 500	1
5	Schraube M4x10	Screw M4x10	Vis M4x10	Tornillo M4x10	ZSR M40 410	2
6	Inbusschraube M4x6	Allen screw M4x6	Vis de Inbus M4x6	Tornillo alen M4x6	ZSR 060 410	2
7	Nutstein	Slot nut	Boulon en "T"	Pernos "T"	A1A 060 040	2
8	Inbusschlüssel 3mm	Allen key 3mm	Clé hexagonal 3mm	Llave allen 3mm	ZWZ 110 300	1

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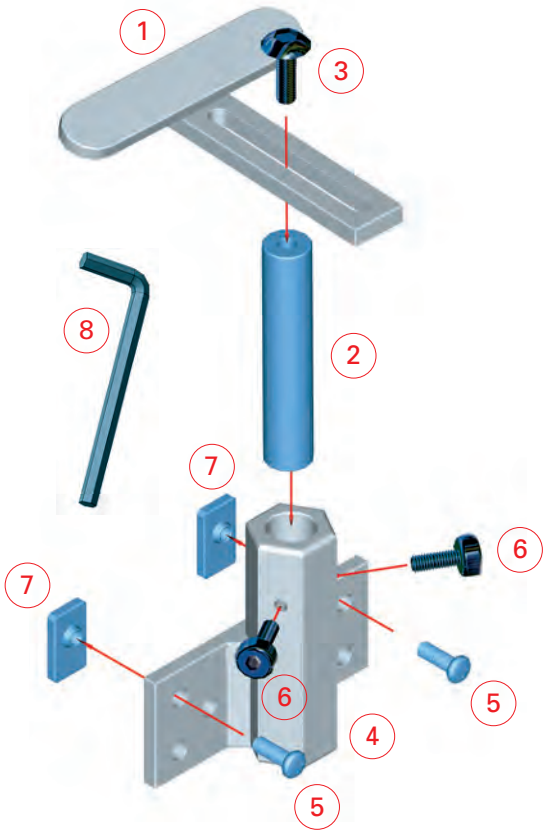

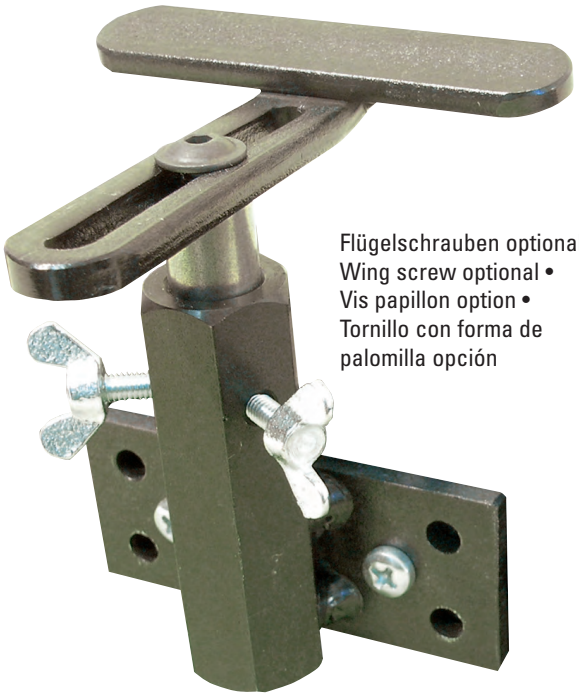

Flügelschrauben optional •
Wing screw optional •
Vis papillon option •
Tornillo con forma de palomilla opción

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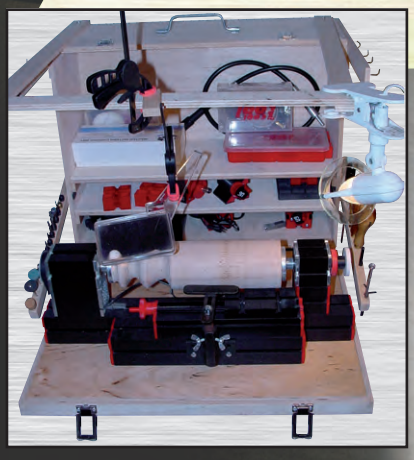
Silver medal Inventions Vienna

Médaille d'argent Inventions Genève

Worlddidac Award

Silver medal Nuremberg



[UNIMAT AUFBEWAHRUNGSKOFFER]

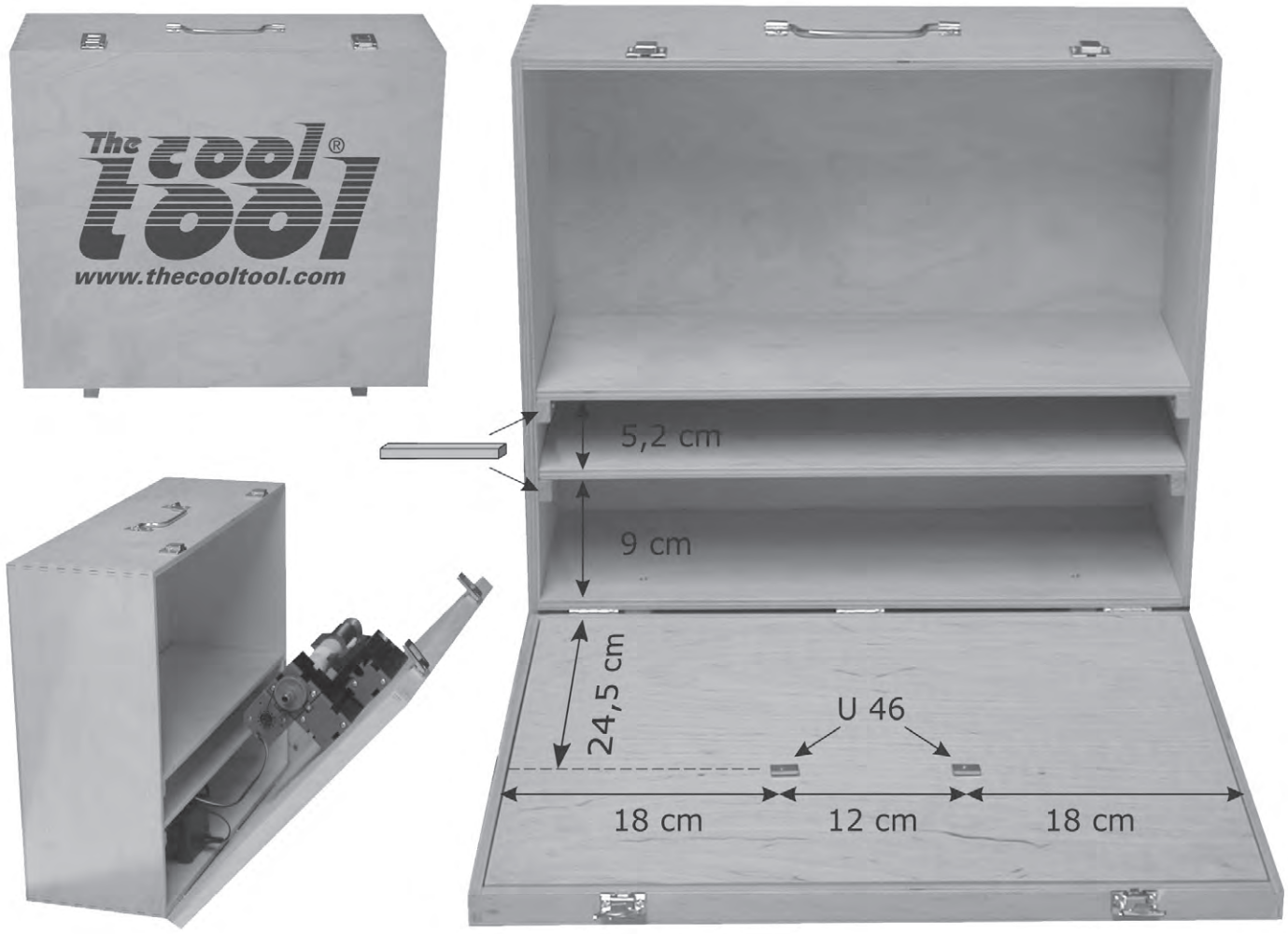
[UNIMAT BÔITE EN BOIS]

[UNIMAT WOODEN BIEFCASE]

[UNIMAT MALETÍN]

[Art.No.: 163 BOX]

The tool QUALITY PRODUCT MADE IN AUSTRIA



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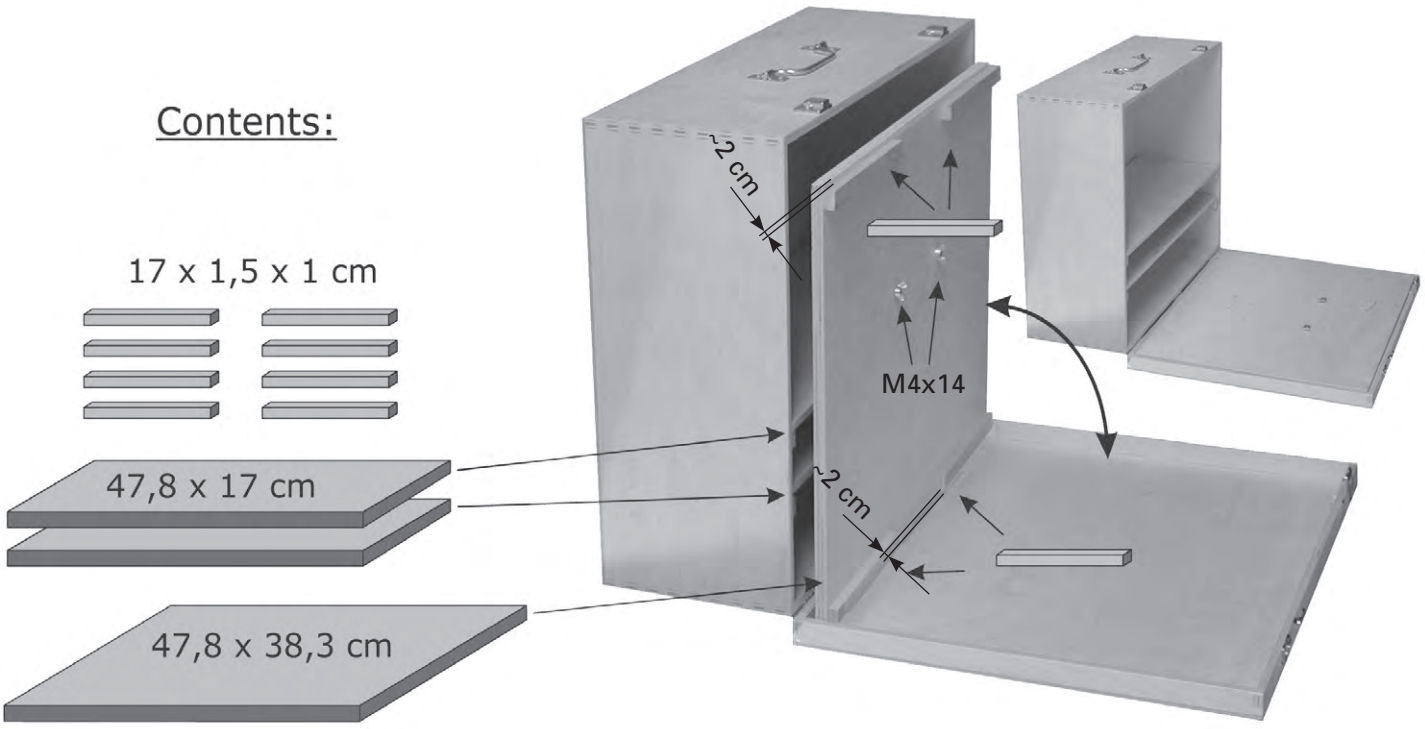

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