

Superior Solutions for Sheet Metal Fabricators

VALUGRIND™ WERKZEUG SCHLEIFSYSTEM

- THICK TURRET
- TRUMPF STYLE
- MURATA WIEDEMANN
- THIN TURRET



PN 2012

MATE Werkzeugsysteme UG
(haftungsbeschränkt)

Heerstraße 129 - 58553 Halver

Telefon: +49 (0) 2353 66855-0 - Fax: +49 (0) 2353 66855-29

E-Mail: info@mate-mn.de - URL: www.mate-mn.de

MATE
M
**PRECISION
TOOLING**

TRUSTED | QUALITY | SERVICE | SOLUTIONS

MATE PRECISION TOOLING

COMPANY OVERVIEW

Founded in 1962, Mate has grown into a world-class manufacturer of superior products and solutions for sheet metal fabricators. We manufacture tooling for every major CNC punch press, and offer a complete line of CO2 laser products. Our mission: To be the world's leading supplier of precision tooling for CNC punch presses. Our purpose: Helping sheet metal fabricators produce quality parts faster and more efficiently.



Headquartered in Anoka, Minnesota, in a 300,000 sq. ft. state-of-the-art facility.

COMMITMENT TO QUALITY



Mate's dedication to quality is not just demonstrated in the products and services we provide, it is a part of every aspect of our business. This commitment was formally recognized when Mate was honored with the Minnesota Quality Award, Achievement level, for 2005. We integrate the Baldrige National Quality Program's criteria into the way we operate and continually measure our progress in improving our products, processes, and service.

CUSTOMER SATISFACTION GUARANTEED

Customer service is a critical component of Mate's business. Mate's Sales engineers are experts in their field working on site with customers to solve fabricating issues. This commitment to customer satisfaction is extended around the world with Mate tooling experts available in every industrialized country. Customer education is available for every product Mate offers and is available 24/7 at mate.com. My.mate.com, a free web-based portal, allows registered users access to previously ordered drawings of special shapes and assemblies. Mate offers an extensive standard product line that can be delivered with same day or next day service and all our products come with a 100% satisfaction guarantee.

PRODUCTS AND SOLUTIONS THAT WORK

Mate's product engineering team currently holds several national and international patents and continues to develop products that push the boundaries of manufacturing technology. Our state-of-the-art technology center is an integral part of this process. It allows us to develop and test new tooling concepts and designs, and focus on proving the viability of value-added products while reducing the time needed to bring these products to market. The technology center also allows us to replicate the end user's environment and needs in every way. We work closely with the world's leading sheet metal fabricators and punch press manufacturers conducting research and evaluating new products. These partnerships bring to Mate a combined effort to continually offer customers superior products with proven solutions.



Customer Solution Center.

SPANNING THE GLOBE

Mate has over 80 dealers providing products and services in every industrialized country, and Mate's European operations are headquartered in Halver, Germany. Our dealers are thoroughly trained to assist with all tooling needs from simple hole punching to complex special applications. Mate recognized the need for an international specialist in the punch press tooling field and has been serving the international market since 1967. Our commitment to serving manufacturers around the world was formally recognized when Mate was presented with the President's "E" Certificate for Exports by the Secretary of Commerce in 1996. Today, approximately 50% percent of Mate's revenue has come from outside the United States. We are committed to improving manufacturing technology around the world, by helping established and emerging manufacturers produce quality parts faster and more efficiently.



MATE VALUGRIND™ TOOL GRINDING SYSTEM

Mate's ValuGrind™ Tool Grinding System regrinds punches and dies to maintain optimum condition for the highest quality punch press fabrication.

ValuGrind accommodates Thick Turret, Trumpf style, Murata Wiedemann and Thin Turret tooling (see compatibility charts below). Customized to your requirements, you select the model based on fixture style and electrical wiring needs.

- Affordable
- Compact overall size
 - 820.0 mm Length
 - 520.0 mm Width
 - 675.0 mm Height
- Superior finish of ground surfaces
- Simple and safe operation
- Low maintenance and low operation costs
- Easy tool set up
- Easy installation



TOOLING SYSTEM COMPATIBILITY

THICK TURRET	ULTRA TEC®	Ultra XT™	Original Style	MXC™	AMX™	MTG™	MT™/XMT™
	A - 1/2"	A - 1/2"	A - 1/2"	A - 1/2"	A - 1/2"	3 station	8 mm
	B - 1-1/4"	B - 1-1/4"	B - 1-1/4"	B - 1-1/4"	B - 1-1/4"	8 station	16 mm
	C - 2"	C - 2"	C - 2"	C - 2"	C - 2"	8 station-long	24 mm
	D - 3-1/2"	D - 3-1/2"	D - 3-1/2"	D - 3-1/2"	D - 3-1/2"		
E - 4-1/2"	E - 4-1/2"	E - 4-1/2"	E - 4-1/2"	E - 4-1/2"			
TRUMPF STYLE	NEXT™	QuickLock™	Standard Style	Multi Tool			
	Size 40	Size 1	Size 0-A	3 station			
	Size 76	Size 2	Size 0-B	4 station			
			Size 1	5 station			
			Size 1-X	6 station			
		Size 2	10 station				
		Size 3					
MURATA	Marathon™ B through H Station		114 Style A through J Station		112 Style A through H Station		Varitool 6 Station 8 Station 12 Station
THIN TURRET	Thin Turret Style		3-1/2" Style		MTG		
	1/2" Station		3-1/2" Station, Inch Shank		3 Station		
	5/8" Station		3-1/2" Station, Strippit Style		8 Station		
	1-1/4" Station						
	2" Station Strippit Style						



BENEFITS OF VALUGRIND™

MATE VALUGRIND™ PROVIDES:

A superior grinding finish and ground surface flatness with its:

- Belt drive that ensures optimum wheel RPM
- Large diamond grinding wheel with inner cooled cup-style design that delivers coolant exactly where needed to prevent burning or discoloration
- Rigid and robust design
- Quick setup for grinding tools, and the flexibility to grind anything that will fit on its magnetic base.

FASTER GRINDING OF LARGER TOOLS BECAUSE IT COMES WITH:

- A Large motor that can accommodate up to Thick Turret E-station dies
- Large grinding wheel 160 mm

NO NEED FOR ANY WIRING CHANGES BEFORE USE:

- Electrical configurations available to fit your local needs in any country so it is ready to plug in and begin grinding*

MINIMAL MAINTENANCE:

- Manufactured with quality components like Siemens electric motors
- Uses diamond grinding wheels that do not need to be dressed
- Sight glass to view coolant level
- Easy access coolant sump drain plug on back of grinder
- Coolant screens that greatly reduce the amount of grinding swarf and allow for easier cleaning

EASY TO USE OPERATION:

- Portable tabletop design can be used virtually anywhere, even if space is limited
- Pre-featured to grind Thick Turret, Trumpf style, Murata Wiedemann and Thin Turret tools**
- Easy to expand tool style grinding capability by simply purchasing other available fixture sets
- All you need to do is unpack it, add coolant, plug it in and grind

SAFE TO USE OPERATION:

- Sturdy construction so it will not move or tip when in use
- Minimally exposed grinding wheel and safety stop button
- Tinted polycarbonate safety shield
- Diffuser-lined tub walls to keep coolant splatter to a minimum

* Any changes necessary to the plug style are the responsibility of the end user and need to be done by a certified electrician.

** See compatibility charts on page 3.



TECHNICAL SPECIFICATIONS

Dimensions:	Length	820 mm
	Width	520 mm
	Height	675 mm
Weight	160 kg	
208V Nominal voltage	3 Phase 208V	
208V Nominal frequency	60 Hz	
208V Nominal current	max. 5,5 A	
208V Power output	1080 W	
400V Nominal voltage	3/N/PE AC400/230V	
400V Nominal frequency	50/60 Hz	
400V Nominal current	max. 5,5 A	
400V Power output	940W	
Degree of protection	min. IP 54	
Grinding Wheel RPM	2200 / min	
Working travel of the spindle	56 mm	
Working travel scale division	0,02 mm	
Angular displacement of the arm	180°	
Grinding wheel:	Identification	12-160-3/6-50
	Quality	B-IIIa; B 151; K75
	Diameter	160 mm
Die Diameter	max. 159 mm	
Die Height	max. 40 mm	
Maximum length of punches A and B	208 mm	
Maximum length of punches B, C and D	97 mm	
Punch Shank Diameter	max. 121 mm	
Height Adjustment Graduations	0,02 mm	
Shear Angle	0°-8°	
Recommended coolant:	Type	P3 Multan 41-30 oder gleichw
	Dilution	1:30
	Volume	About 6 litres
Level of sound pressure acting on standing operator (measured in accordance with EN 11204)	75 dB	
Weighted effective value of vibration acceleration (in accordance with ISO 5349 at grinding)	2,5 m/s ²	
Warranty	12 month limited	



Treated wood transport box, not stackable	
Transport box weight	160 kg
Transport box height	850 mm
Transport box length	1000 mm
Transport box width	650 mm

FOR ADDITIONAL PRODUCT INFORMATION SEE OPERATIONS MANUAL

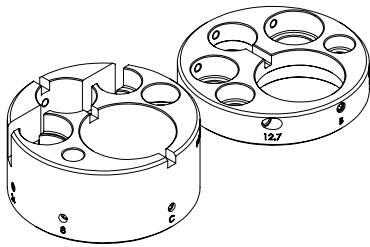


MATE VALUGRIND™ SYSTEM ORDER GUIDE

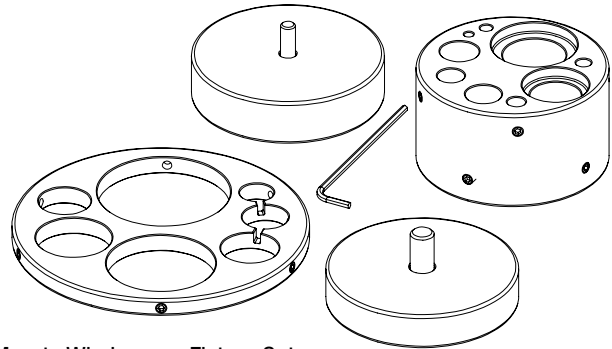
VALUGRIND™ SYSTEM CONFIGURATION

Tool Style	Voltage	Phase	Hertz	Plug Style	Part Number
THICK TURRET	208 V	3	60 Hz	20 amp	MATE01946
	400 V	3	50/60 Hz	16 amp	MATE01948
TRUMPF STYLE	208 V	3	60 Hz	20 amp	MATE01947
	400 V	3	50/60 Hz	16 amp	MATE01949
MURATA	208 V	3	60 Hz	20 amp	MATE01996
	400 V	3	50/60 Hz	16 amp	MATE01998
THIN TRUJET	208 V	3	50/60 Hz	20 amp	MATE01995
	400 V	3	50/60 Hz	16 amp	MATE01997

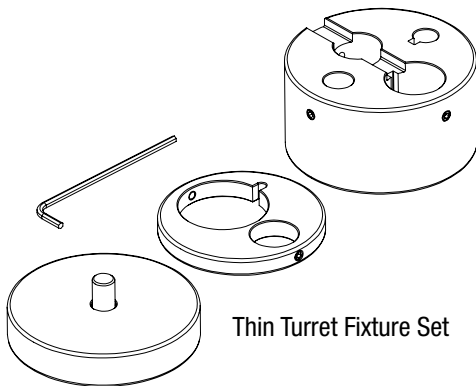
EACH VALUGRIND SYSTEM INCLUDES GRINDING FIXTURE SET FOR TOOL STYLE SELECTED.*



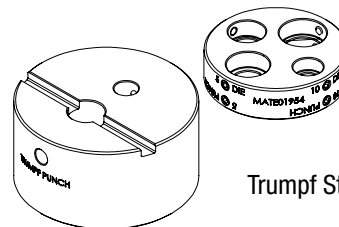
Thick Turret & MT Style Fixture Set



Murata Wiedemann Fixture Set



Thin Turret Fixture Set



Trumph Style Fixture Set

*CAD drawings are for illustrative purposes only. Actual fixtures may differ.



20 amp Plug



16 amp Plug

CONSUMABLE/SPARE PARTS ORDER GUIDE

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MATE VALUGRIND™ TOOL GRINDING SYSTEM

Aufspannvorrichtungen für	Artikel Nummer
Thick Turret und Multi Tool	MATE01953
Trumpf	MATE01954
Muraten Wiedemann	MATE01994
Thin Turret	MATE01993
Zubehör	Artikel Nummer
Schleifscheibe	MATE01950
Spritzschutz aus Plexiglas	MATE01951
Filter für Kühlmittel	MATE01952
Phase Sequence Monitor EMR4	MATE01983
Magnetic Base / T-handle	MATE01969
Motor 1080W, 208V, 60 hz	MATE01981
Motor 940W, 400V, 50/60 hz	MATE01980
Coolant Pump 80W, 208V, 60hz	MATE01959
Coolant Pump 65W, 230V, 50hz	MATE01958
Drive Belt 10x375	MATE01960
Cleaning Stick	CLS00001



Schleifscheibe

Magnet-Spannplatte
Spritzschutz aus Plexiglas

Riementrieb

Filter für Kühlmittel

Pumpe für Kühlmittel





Headquarter

MATE PRECISION TOOLING

1295 Lund Boulevard, Anoka, Minnesota 55303 USA
Tel 763.421.0230 Fax 763.421.0285 www.mate.com



EUROPEAN HEADQUARTER:

MATE Werkzeugsysteme UG (haftungsbeschränkt)
Heerstraße 129, 58553 Halver, Tel: +49 (0) 2353 66855-0
Fax: +49 (0) 2353 66855-29, info@mate-mn.de, www.mate-mn.de

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