MATE®
PRECISION TECHNOLOGIES
RESPECT • SUPPORT • INSPIRE

ValuGrind™

SHARPENING SYSTEM

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Headquartered in Anoka, Minnesota, in a 300,000 sq. ft. (28,000m²) state-of-the-art facility.

SEVEN DECADES OF EXCELLENCE

Founded in 1962, Mate is a world-class manufacturer of superior solutions for the metal cutting and metal forming industries. We manufacture workholding systems, CNC punch press tooling, and offer a complete line of press brake tooling and laser consumables. Mate products and services are available worldwide, fully supported by more than 80 dealers in every industrialized country.

PERSONAL, RESPECTFUL RELATIONSHIPS

Mate does business with people, not companies. Our connection to you is personal. Mate's team of manufacturing and metalworking professionals knows what you go through. We know what it's like to compete for that next job, manage deadlines or even need a rescue. With Mate you have a partner that respects your knowledge and is dedicated to helping you succeed.

YOUR GO-TO SOURCE

Serving our customers is at the core of who we are. In your plant or on the phone, we're up for whatever metalworking challenges you face. Your Mate representatives are experts who know from experience what happens on the shop floor and provide our legendary in-field support. They speak your language, fully capable of helping you improve processes and solve problems. Mate customer service is ready to assist with fast quotes, guiding your order on to our top-notch machinists and shipping pros.

GET INSPIRED!

With our vast knowledge and broad product range we inspire innovative thinking. Our customer's projects can be seen around the world: from unique building façades thought to be impossible to make, to a new way to add strength to thin material. The possibilities are endless, so think big, bold and beyond.

WE'VE GOT YOU COVERED

Dedicated to quality in every aspect of our business, Mate offers an extensive standard product line that can be delivered with same day or next day service. All Mate products are backed with our industry leading 100% customer satisfaction guarantee.

MATE'S MISSION AND PROMISE TO YOU:

Mate's mission is to personally **Respect, Support** and **Inspire** metalworking professionals around the world with high-quality products and services for factory productivity.

[Dimensions in Inches (mm)]

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 compatibilty charts below).

Customized to your requirements, you select the model based on fixture style and electrical wiring needs.

- Affordable
- Compact overall size
  - 32.28(820.0) Length
  - 20.47(520.0) Width
  - 26.57(675.0) Height
- Superior finish of ground surfaces
- Simple and safe operation
- Low maintenance and low operation costs
- Easy tool set up
- Easy installation

TOOLING SYSTEM COMPATIBILTY

THICK TURRET	**ULTRA TEC®** A - 1/2" B - 1-1/4" C - 2" D - 3-1/2" E - 4-1/2"	**Ultra XT™** A - 1/2" B - 1-1/4" C - 2" D - 3-1/2" E - 4-1/2"	**Original Style** A - 1/2" B - 1-1/4" C - 2" D - 3-1/2" E - 4-1/2"	**MXC™** A - 1/2" B - 1-1/4" C - 2" D - 3-1/2" E - 4-1/2"	**AMX™** A - 1/2" B - 1-1/4" C - 2" D - 3-1/2" E - 4-1/2"	**MTG™** 3 Station 8 Station 8 Station-long	**MT™/XMT™** 8 mm 16 mm 24 mm

TRUMPF STYLE	**NEXT™** Size 40 Size 76	**QuickLock™** Size 1 Size 2	**Standard Style** Size 0-A Size 0-B Size 1 Size 1-X Size 2 Size 3	**Multi Tool** 3 Station 4 Station 5 Station 6 Station 10 Station

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** 1/2" Station 5/8" Station 1-1/4" Station 2" Station Strippit Style	**3-1/2" Style** 3-1/2" Station, Inch Shank 3-1/2" Station, Strippit Style	**MTG** 3 Station 8 Station

[Dimensions in Inches (mm)]

BENEFITS OF VALUGRIND™

MATE VALUGRIND™ PROVIDES:

A superior grinding finish and ground surface flatness with its:

- Belt drive that ensures optimum wheel RPM
- Large 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:

- Large motor that can accommodate up to Thick Turret E-station dies
- Large grinding wheel 6.29(160.0)

NO NEED FOR ANY WIRING CHANGES BEFORE USE:

- Aailable in multiple electrical configurations to fit any application around the world*

MINIMAL MAINTENANCE:

- Manufactured with quality components utilizing Siemens electric motors
- 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-fixtured 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
- Simple, turnkey set up: unpack, add coolant, plug it in and grind

SAFE TO USE OPERATION:

- Sturdy construction — will not move or tip when in use
- Minimally exposed grinding wheel and safety stop button
- Tinted polycarbonate safety shield
- Diffuser-lined tub walls 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.

[Dimensions in Inches (mm)]

TECHNICAL SPECIFICATIONS

Dimensions:	Length	32.28(820.0)
	Width	20.47(520.0)
	Height	26.57(675.0)
Weight		352.74 lb/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		2.20(56.0)
Working travel scale division		0.078(0.02)
Angular displacement of the arm		180°
Grinding wheel:	Identification	12-160-3/6-50
	Quality	B-IIIA; B 151; K75
	Diameter	6.299(160.0)
Die Diameter		max. 6.259(159.0)
Die Height		max. 1.57(40.0)
Maximum length of punches A and B		8.18(208.0)
Maximum length of punches B, C and D		3.81(97.0)
Punch Shank Diameter		max. 4.76(121.0)
Height Adjustment Graduations		0.078(0.02)
Shear Angle		0°-8°
Recommended coolant:	Type	P3 Multan 41-30
	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/s2
Warranty		12 month limited

Treated wood transport box, not stackable	
Transport box weight	352.739 lb/160 kg
Transport box height	33.464(850.0)
Transport box length	39.370(1000.0)
Transport box width	25.590(650.0)

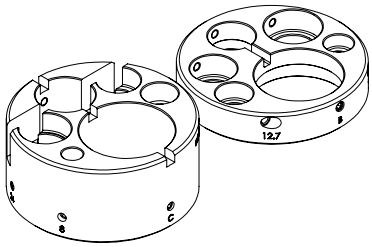
FOR ADDITIONAL PRODUCT INFORMATION SEE OPERATIONS MANUAL

[Dimensions in Inches (mm)]

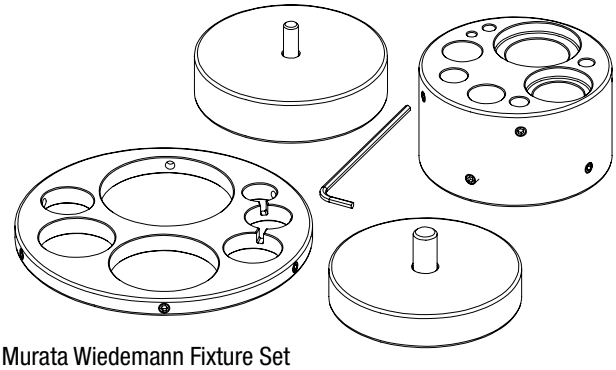
VALUGRIND™ SYSTEM CONFIGURATION

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 TRUUET	208 V	3	50/60 Hz	20 amp	MATE01995
	400 V	3	50/60 Hz	16 amp	MATE01997

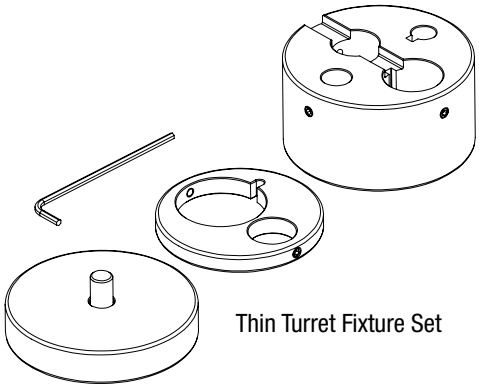
EACH VALUGRIND SYSTEM INCLUDES GRINDING FIXTURE SET FOR TOOL STYLE SELECTED.*



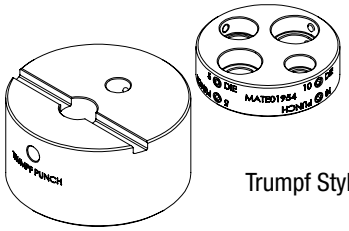
Thick Turret & MT Style Fixture Set



Murata Wiedemann Fixture Set



Thin Turret Fixture Set



Trumpf Style Fixture Set

*Drawings are for illustrative purposes only. Actual fixtures may differ.

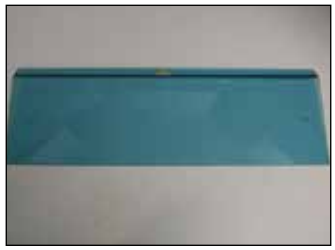
20 amp Plug

16 amp Plug

*Dimensions in Inches (mm)]

Fixture	Part Number
Thick Turret and Multi Tool Style Fixture Set	MATE01953
Trumpf Style Fixture Set	MATE01954
Murata Wiedemann Fixture Set	MATE01994
Thin Turret Fixture Set	MATE01993
Accessory	**Part Number**
Grinding Wheel	MATE01950
Plexiglass Cover	MATE01951
Coolant Strainer	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

Grinding Wheel



Plexiglass Cover

Magnetic Base/T-handle

Drive Belt

Coolant Strainer

Coolant Pump

[Dimensions in Inches (mm)]

MATE PRECISION TECHNOLOGIES GLOBAL COVERAGE

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Prices subject to change without notice