Ваш официальный партнер:



Добрые традиции современного Производства



ACCESSORIES

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GRINDING MACHINE

PUNCHING UNIT

	LUBRICATING	
$\overline{}$	LODKICATING	

• TOOL HOLDER CART

SHEAR GRINDING FIXTURE

The sharpening of tools often is aproblem, especially when tools have a single inclined cutting part or even a double inclined cutting part (see whisper sharpening).

This fixture solves the problem by allowing to execute all kind of sharpening in an easy and fast way: when it is clamped on grinding machine, it accepts all adaptors showed in the the following pages.

This element is used on 0° position for plan punches and dies, or with a maximum +20°/-20° inclination for whisper punches.





FA22QE00 Universal Base

THICK TURRET ADAPTORS

To use adaptors FA22QF00 and FA22WH00 it is necessary to combine them with adaptor FA22QG00.



FA22QF00 Punch and Die Adaptor A STATION



FA22QG00 Punch and Die Adaptor B STATION



FA22QH00 Punch and Die Adaptor C STATION



FA22QJ00 Punch and Die Adaptor D STATION



FA22WF00 Punch and Die Adaptor E STATION



FA22WH00 Punch and Die Adaptor W90 A STATION



FA22QI00 Punch and Die Adaptor W90 C STATION



FA22QK00 Punch and Die Adaptor W90 D STATION



FA22WG00 Punch and Die Adaptor W90 E STATION



MULTITOOL AND TRUMPF® ADAPTORS

To use adaptors FA22QL00, FA22QM00, FA22QN00, FA22QP00 and FA22WI00 it is necessary to combine them with adaptor FA22QG00.



FA22QN00 Punch and Die Adaptor MULTIMT SERIES 8



FA22QM00 Punch and Die Adaptor MULTIMATRIX SERIES 16



FA22QL00 Punch and Die Adaptor MULTIMT AND MULTIMATRIX SERIES 24



FA22WI00 Punch and Die Adaptor MULTIMT SERIES X12,7



FA22QP00 Punch and Die Adaptor MULTIMATRIX SERIES 18



FA226100 Punch Adaptor TRUMPF®



FA226300 Die Adaptor TRUMPF® SIZE I



FA226400 Die Adaptor TRUMPF® SIZE II

MURATA WIEDEMANN® ADAPTORS

FAB0QF00 it is necessary to combine it with adaptor FAB0QG00.



FAB0QF00 Punch and Die Adaptor SERIES 114 A STATION



FAB0Q100 Punch and Die Adaptor SERIES 114 D STATION



FAB0QL00 Punch and Die Adaptor SERIES 114 G STATION



FAB0QG00 Punch and Die Adaptor SERIES 114 B STATION



FAB0QJ00 Punch and Die Adaptor SERIES 114 E STATION



FAB0QM00 Punch and Die Adaptor SERIES 114 H STATION



FAB0QH00 Punch and Die Adaptor SERIES 114 C STATION



FABOQK00 Punch and Die Adaptor SERIES 114 F STATION



Компания "КОВАЧЪ" Тел. +7 (498) 505-61-86 Web www.ковачъ.рф E-mail: info@kovach.pro

RAINER ADAPTORS

To use adaptor FABFQF00 it is necessary to combine it with adaptor FABFQG00.



FABFQF00 Punch and Die Adaptor RAINER OS A STATION



FABFQI00 Punch and Die Adaptor RAINER OS D STATION



FABF6100 Punch Adaptor RAINER ECCENTRIC



FABFQG00

Punch and Die Adaptor

RAINER OS B STATION

FABF6400 Die Adaptor RAINER ECCENTRIC SERIES 100



FABFQH00 Punch and Die Adaptor RAINER OS C STATION

TECNOLOGY ADAPTORS

To use adaptors FABLQK00 and FABLQG00 it is necessary to combine them with adaptor FABLQH00.



FABLQK00 Punch and Die Adaptor SERIES 15



FABLQG00 Punch and Die Adaptor SERIES 40/1



FABLQH00 Punch and Die Adaptor SERIES 40/2



FABLQ100 Punch and Die Adaptor SERIES 70



FABLQJ00 Punch and Die Adaptor SERIES 100











EASY QUICK INNOVATIVE

> TGM 150S grinding machine with electrical driver, designed to grind any punching tool in tempered steel.

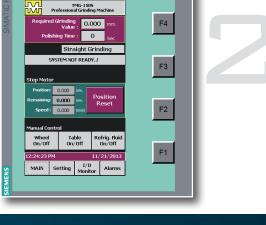
> Economic and efficient maintenance of tools, completed of all accessories.

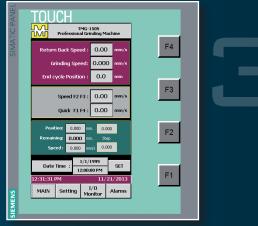
> Multilanguage Touch screen, to manage all operations necessaries for a quick and quality grinding, simply from one single screen; possibility to parameter all control functions, for a flexible performing of any type of grinding, for tools from diameter mm 1,5 up to mm 180.

> Four simple passages are sufficient to complete the whole cycle: tool fixing, setting of quantity to be grinded, zero piece research and start.

> Certified CE, TGM 150 S grants the operator safety thanks to a working area completely closed.











TYPES OF WORKING

The grinding machine is equipped with reclining mandrel completed of all accessories necessary to fix the tools most commonly used.

Equipped with straight and backwards terminals, to clamp pieces with diameter max mm 180, the machine allows to obtain plan grinding on punches and dies, or, by inclining the mandrel, single WN or double DWP.



WN

DWP

Besides the rotating table with standard configuration, on TGM 150S grinding machine you can get the option of an inclining universal base, designed to be clamped on dedicated grinder or surface grinder.



A series of adaptors duly designed to house on the reclining universal base for a quick handling of the most common type of punches and dies on the marked such as:

- Multitool Thick Turret
- Trumpf[®] Murata Wiedemann[®]
- Rainer Technology

TGM-1505 Professional Grinding Machine

TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHT		
Height	1700 mm	
Width	600 mm	
Depth	450 mm	
Weight	180 Kg	
POWER SUPPLY		
Voltage	380V 3 PH 50 Hz ±10%	
Power	1,2 Kw	
GRINDING		
CBN Grinding Wheel	150 x 5 x 4 mm (Cod. F680WV00)	
Maximum Grinding Diameter	180 mm	
Maximun Grinding Height	230 mm	
Maximum Grinding Speed	0,2 mm/min	
Quick Speed	600 mm/min	
Minumum Step	0,01 mm	
Grinding Motor Power Supply	380V 3 PH 50 Hz ±10% (0,75 Kw)	
PIECE HOLDER		
Rotating base diameter	310 mm	
Inclination Mandrel	7°	
Rotating motor power supply	380V 3 PH 50 Hz ±10% (0,18 Kw)	
COOLANT		
Reservoir capacity	20	
Pump flow rate	60 l/min	
Filter	TR160018-C	
Pump power Supply	380V 3 PH 50 Hz ±10% (0,09 Kw)	



TGM-150S

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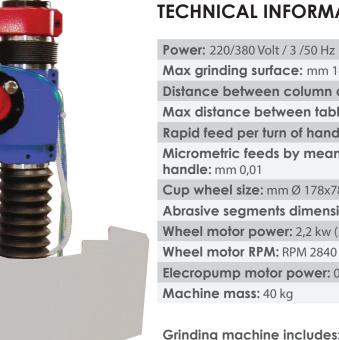


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GRINDING MACHINE





TECHNICAL INFORMATION

Max grinding surface: mm 140x330 Distance between column axis and wheel axis: mm 315 Max distance between table-level and wheel: mm 280 Rapid feed per turn of handwheel: mm 2 Micrometric feeds by means of small round graduated Cup wheel size: mm Ø 178x78x78 Abrasive segments dimensions: mm 50x16x90 Wheel motor power: 2,2 kw (3 HP) Wheel motor RPM: RPM 2840 Elecropump motor power: 0,06 kw (0,08 HP)

Grinding machine includes: **CBN wheel:** mm Ø 175x78x45 FA22QE00 Reclining Universal Base

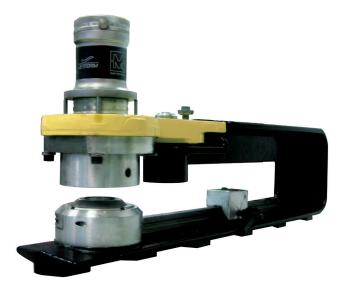
For punch and/or die adaptors please refer to specific punching machines tecnical sheets





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PUNCHING UNIT for thick turret C station



CODE: F227DZ00

DESCRIPTION

The cheapest solution for any hydraulic mechanical press or bending machine, using common tools

Diameters or shapes within 50,8 mm up to 6 mm thickness, engraving, logos and many other forming, easy to perform. Thick turret tools type, highly precise and performing.

Punch holders with 11 mm height adjusting after resharpening and, when forming, stroke adjusting with 0,08 mm precision.

TECHNICAL INFORMATION

Dimensions: 150 x 650 x H310 with tool fitted on Weight: 30 kg C Frame: 500 mm Max. diagonal: 50,8 mm Housing: thick turret C station A and B stations used with standard adaptors Adjustable stroke with rule

FORMING



This punching unit is a tool, and it is upon user's responsibility to set up and use the machine in accordance with local and national laws and standards for safety.





First rule to apply: punching is a shearing and extrusion process and in order to get a good result, lubrication of the shearing area is a must.

Lubrication is essential for punching machines and particularly punching stamps.

While punching, small quantities of material get stuck to the punch surface, increasing its diameter and decreasing the tolerance obtaining this way a greater material friction.

A lubricant oil with proper characteristics acts as a barrier between punch and material reducing significantly both friction and material build-up on the punch surface, improving therefore the punch life, since greater the viscosity, especially during punch pulling, better the protection

To reduce the negative effects above mentioned, Matrix offers a range of lubricants suitable to prolong punches and dies' life, besides granting geometric and dimensional precisions and an excellent surface roughness on shearing sections.

The evaporation characteristics of the selected lubricant are well used whenever we need to simplify or eliminate any degreasing operations.

If for some reasons lubrication is a problem, Titanium coated punches could help. Our technical and commercial department is at your complete disposal for any information you might require.

MTX06 OIL FOR PUNCHING - NIBBLING

PROPERTIES

Aspect:	
Color:	
Density at 15° C:	
Viscosity at 40° C:	
Flash point:	

Liquid, clear limpid Light brown Kg/l 1,092 mm²/s 32 > 180° C

Special fluid transparent light brown studied to answer to the technical problems related to fine shearing.

The additive pack allows a longer punches and dies' life, besides granting geometric and dimensional precisions and an excellent surface roughness on shearing sections.

MTX 06 thanks to its chemical-physic structure characteristic, presents a low viscosity variation when temperatures changes, as well as a good antirust power and easy to wash. MTX 06 can be applied by spray, with brush, by roll but it's important to distribute it uniformly on the shearing area.

Supply: Code: 5 lt can F680HR00.004



MTX010 LUBRICANT SPECIFIC FOR ALUMINIUM AND COPPER

PROPERTIES

Aspect:	Liquid
Density at 20º C:	Kg/m³ 780
Viscosity at 25° C:	mm²/s 1,92
Flash point:	> 62° C

MTX010 studied to answer to the technical problems related to aluminum shearing in particular, although recommended for other materials, according to the application.

MTX010 is characterized by a relatively quick evaporation and a light residual film. In case of painting and welding (TIG, MIG, Laser, etc..) cleaning is not required.

MTX010 can be used by mean of felt, drop to drop or with specific low pressure pulverization system.

 Supply:
 5 lt can

 Code:
 F680AJ00.004

MTX125 LUBRICANT SPECIFIC FOR STEEL AND MILD STEEL

PROPERTIES

Aspect:	Liquid
Density at 20° C:	Kg/m³ 780
Viscosity at 20° C:	mm²/s 1,22
Flash point:	> 45° C

MTX125 studied to answer to the technical problems related to fine and hard shearing in particular when using stainless steels.

MTX125 is characterized by a quick evaporation and an imperceptible residual film.

In case of varnishing (cadmium plating, passivation, etc.) cleaning is not required.

MTX125 can be used by mean of felt, drop to drop or with specific low pressure pulverization system.

Supply: 5 lt can Code: F680QR00.004



TOOL HOLDER CART

CODE: F680WQ00

TECHNICAL INFORMATION

Tool holder cart on 4 wheelsDimensions: mm 745x475x1098Weight: kg 110Compartments: 7 with inner height mm 50 and
1 with inner height mm 230









MATRIX

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