

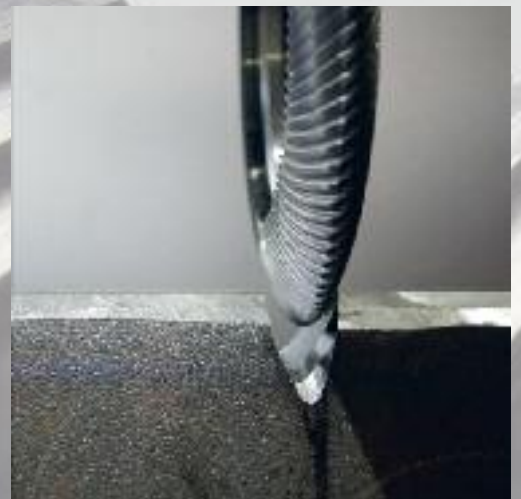
maiija
Frästechnik
GmbH



MAIJA MILLING DISCS
MAIJA-FRÄSRINGE



MAIJA DOUBLESIDED MILLING DISCS
MAIJA-SCHWEISSNAHTWURZELÖFFNER



DEPRAG TURBINE DISC GRINDER

A matching model for any range of application for the Maija Milling Discs and Doublesided Milling Discs – on the whole there are three different turbine disc grinder models with EU conformity declaration.

Each meeting all the requirements:

- low rotational speed
- pneumatic drive train
- constant 4kW output
- planetary gear

BENEFITS AT A GLANCE



in-place milling



flexible usage, handy



use existing equipment



increase working speed



chips instead of swarf, no abrasives



improved quality, rarely cavities



resharping up to seven times



very long service life



recycling of the chips



you will save money each day



Turbine disc grinder for Maija Milling Discs



UNITED STATES PATENT

For our own security and that of our customers we have protected our innovative technology by patent for the American market.

Therefore you can be sure to hold our premium and reliable original product in your own hands.

Patent

MAIJA MILLING TECHNOLOGY

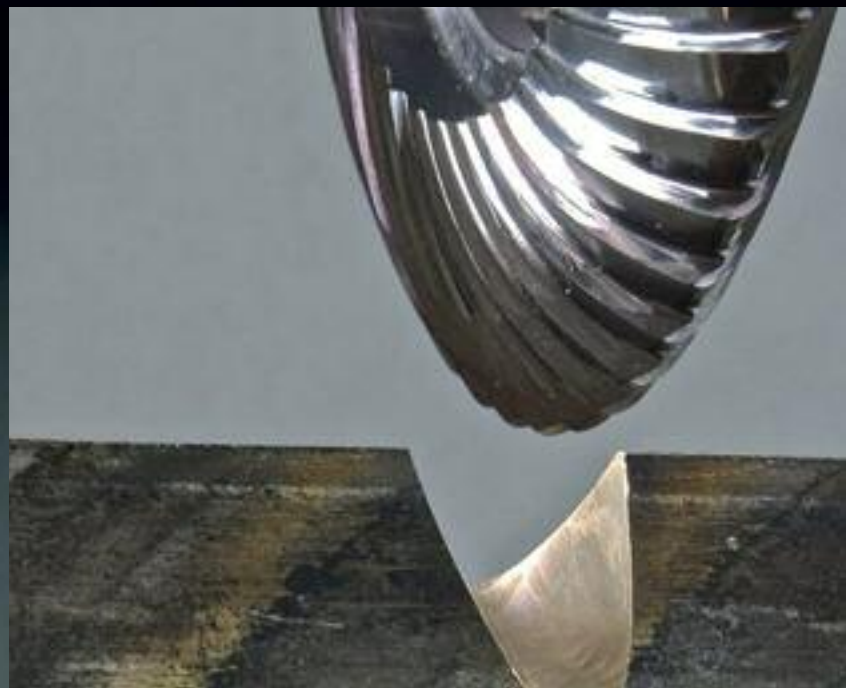
EFFECTIVE, SUSTAINABLE, CONVINCING

MADE IN GERMANY

15 YEARS OF EXPERIENCE AT MILLING FREEHAND

For special demands in i.e. ship-bilding, mechanical engeneering and aircraft construction **Maija Frästechnik GmbH** has developed innovative tools. With the **Maija Milling Disc** und dem **Doublesided Milling Disc** in-site milling with all its advantages is possible at last.

Discs in diametres of 70mm, 116mm, 125mm, 150mm, consequently for any purpose are available. Moreover in cooperation with DEPRAG high-performance ergonomic turbine disc grinders have been developed, which are perfectly adapted for the use along with our milling discs.



Doublesided Milling Disc and its produced marks

DEUTSCHER ROHSTOFFEFFIZIENZ-PREIS 2015

(German prize for resource efficiency 2015)

The Federal Ministry of Economics and Technology honored Maija-Frästechnik GmbH for the efficient use of limited resources in 2015.

Ministry and experts were convinced about the recyclability of the milling chips, which – other than conductive swarf – can be reused without major effort.

”Milling instead of grinding“, even Sigmar Gabriel subscribes this.



ALUMINIUM

MAIJA MILLING DISCS AND DOUBLESIDED MILLING DISCS

Product range

Milling discs for Aluminium

Item number Item

010070015	Milling disc 70 mm
010070888	Milling disc tool holder 70 mm for disc grinder M14
010116014	Milling disc 116 mm normal
010116015	Milling disc 116 mm coarse, 30°
010116016	Milling disc 116 mm coarse, 38°
010116314	Milling cutting disc 116 mm radius 3
010116821	Universal tool holder for milling disc 116-125mm
010116888	Tool holder M14 - milling disc 116-125mm
010125015	Milling disc 125 mm coarse, 30°
010125016	Milling disc 125 mm coarse, 38°

Features:

- made of solid carbide
- workpiece remains cold
- standard milling disc and coarse milling disc for stronger removal

Advantages:

- long service life with constant external diameter
- chips instead of swarf
- frequent disc change unnecessary
- metallic blank welding seam preparation, thus no shrinking cavitation (when grinding)

Practical effects:

- substantial time saving
- high quality weld seam (also see radiograph on the next page)
- waste prevention: chips and tools are fully recyclable



Doublesided milling disc with its marks



Work on an aluminium hull

MILLING INSTEAD OF GRINDING THE ADVANTAGES ARE OBVIOUS

MAIJA MILLING DISC AND DOUBLESIDED MILLING DISC (DMD) FOR USE WITH ALUMINIUM

You may be familiar with this topic from your daily work routine:

Welding seams have to be prepared or undone. The workpiece is firmly attached to the complete object and cannot be transported to a CNC mill. For about 70 years now an angle grinder traditionally has been employed in this situation.

For this special purpose **Maija Frästechnik GmbH** have developed a new tool. The **Doublesided Milling Disc** opens the range of milling benefits to on-site- and hand-milling. For example two closely juxtaposed components can be equipped with a v-shaped welding preparation.

Maija Milling Discs and **Doublesided Milling Discs** are used for:

- shipbuilding
- tank construction
- railed vehicle construction
- cooler production
- aircraft construction
- arms industry



Baux-Fluid minimal quantity adherent



Milling disc in action



Milling disc while grinding a chamfer

STEEL
STAINLESS STEEL
TITAN

**MAIJA MILLING DISCS AND
DOUBLESIDED MILLING DISCS**

Product range

Milling Discs for Steel

Item number	Item
010070888	Tool holder milling disc 70 mm for disc grinder M14
010116821	Universal tool holder milling disc 116-125mm
010116888	Tool holder M14 - milling disc 116-125mm
020070015	Milling disc 70mm for Steel to ST52
020116013	Milling disc 116mm for Steel bis ST52
021070016	Milling disc 70mm for stainless steel 1.4301 V2A to 1.4301 and V4A 1.4401

Milling Discs for Stainless Steel

010070888	Milling disc tool holder 70 mm for disc grinder M14
010116821	Universal tool holder for milling disc 116-125mm
010116888	Tool holder M14 - milling disc 116-125mm
021070016	Milling disc 70mm for stainless steel 1.4301 V2A to 1.4301 and V4A 1.4401

Milling Discs for Titanium

010070888	Milling disc tool holder 70 mm for disc grinder M14
010116821	Universal tool holder for milling disc 116-125mm
010116888	Tool holder M14 - milling disc 116-125mm
040070024	Milling disc 70mm for titanium
040116014	Milling disc 116mm for titanium
040125016	Milling disc 125mm for titanium

Features:

- made of solid carbide
- cuts on both sides with a predefined radius
- workpiece remains cold

Advantages:

- very easy handling, stability of positioning
- long service life with constant external diameter
- chips instead of swarf
- metallic blank welding seam preparation, thus no shrinking cavitation (when grinding)
- freehand welding seam preparation of two adjacent workpieces

Profits:

- time saving
- high quality weld seam (see radiograph below)
- waste prevention: Chips and tools are fully recyclable



Right side: Abeking & Rasmussen provided this weld seam radiograph according to DIN-EN-ISO 10042 valuation group-B-, which is showing a weld seam without cavitations that connects two aluminium sheets (ALMG 4.5).

FREEHAND STEEL MILLING

WE MAKE IT POSSIBLE!

MAIJA MILLING DISC AND DOUBLESIDED MILLING DISC (DMD) FOR USE WITH STEEL, STAINLESS STEEL AND TITANIUM

Also for steel, stainless steel, titan, other metals and other materials the above-mentioned conditions for the processing apply equally. For these purposes **Maija Frästechnik GmbH** developed special Milling Discs and doublesided Milling Discs, which are tailored to characteristics of the respective material.

Maija Milling Discs and **Doublesided Milling Discs** are used for:

- apparatus construction
- tool engineering
- shipbuilding
- foundries
- aircraft construction
- arms industry



Demonstration of the DMD



Doublesided miling disc (DMD)



Turbine disc grinder with mounted milling disc

See our products in action:

- www.maiija-fraestechnik.de
- www.youtube.com/user/maiijagmbh



CONFIGURATION POSSIBILITIES

You would like to optimize the milling discs for your respective production conditions and material?

- Your material tends to „grease“?
- Your workpiece has to be milled at an extremely high temperature?
- You'd like to optimize the service time?

We'll be glad to give you advice if coating, cut, disc size or minimum quantity lubricant are concerned.

Thanks to our years of experience we can jointly make milling even more efficient for your respective product. Ask for our experience and benefit from our Know-How.

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