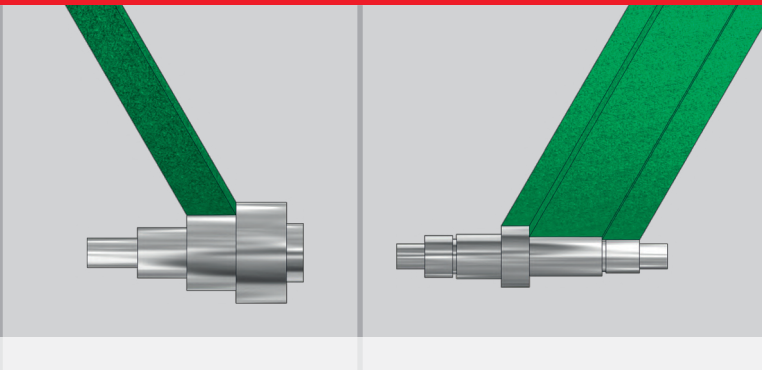
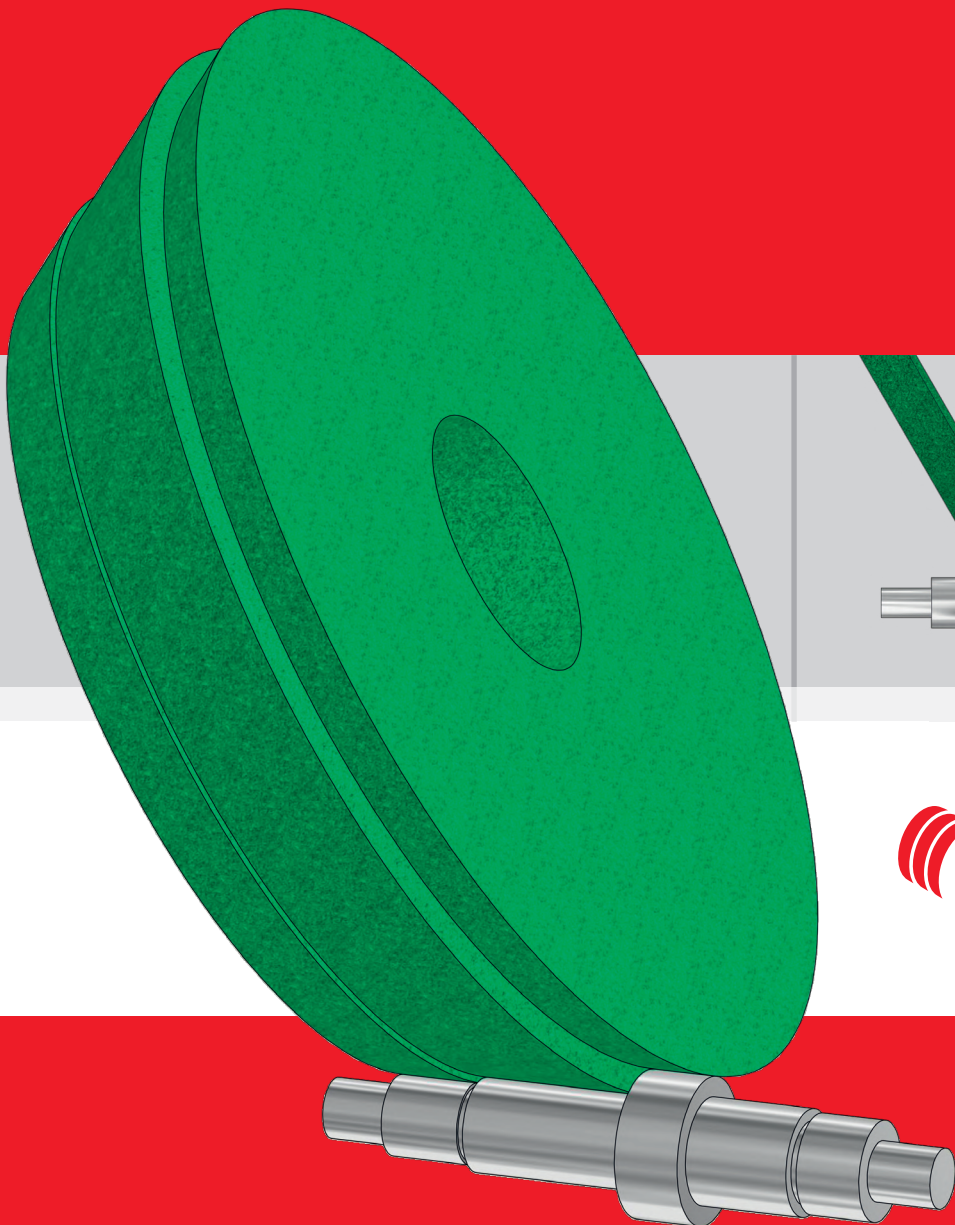


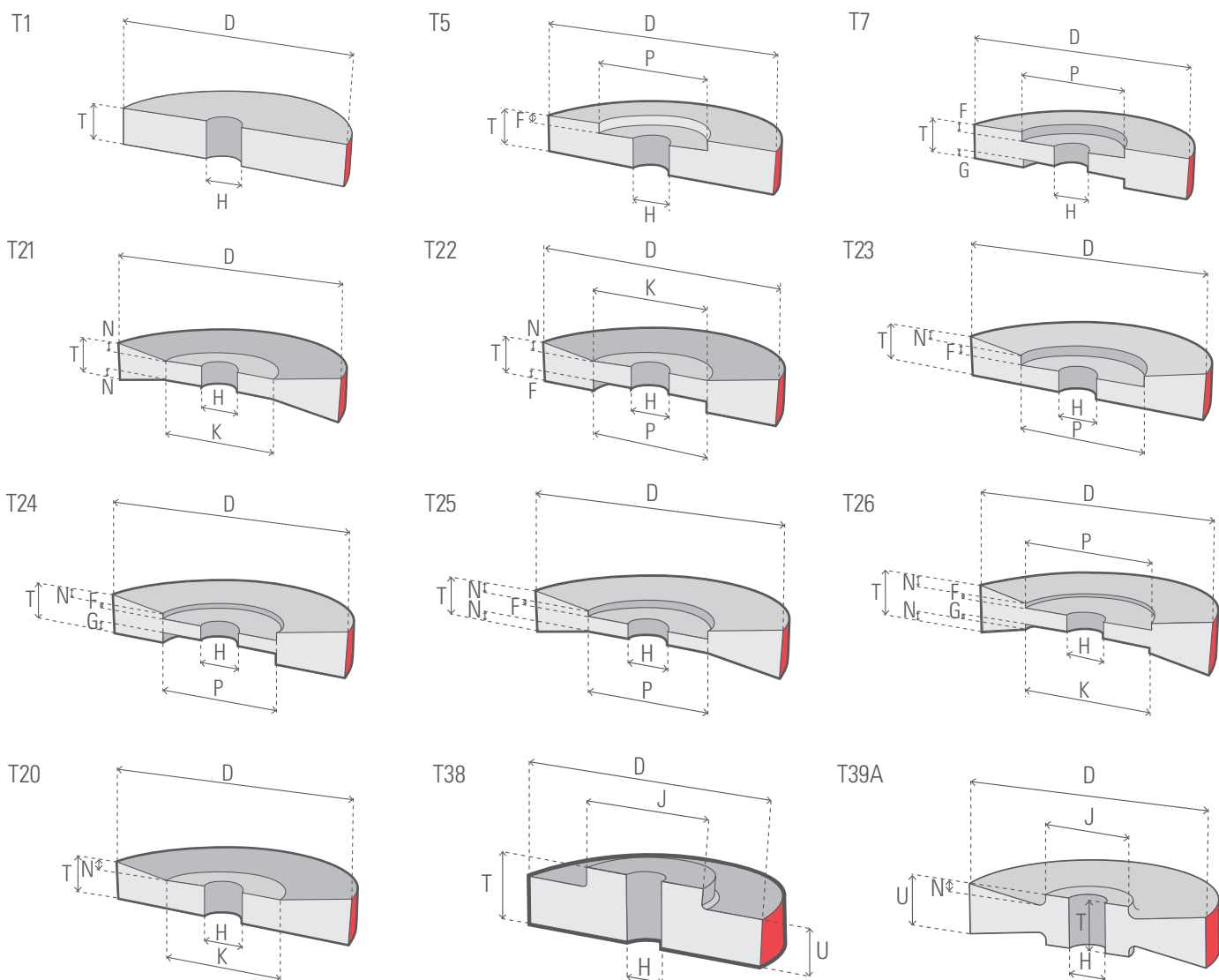
CYLINDRICAL
GRINDING (O.D.)
GRINDING WHEELS



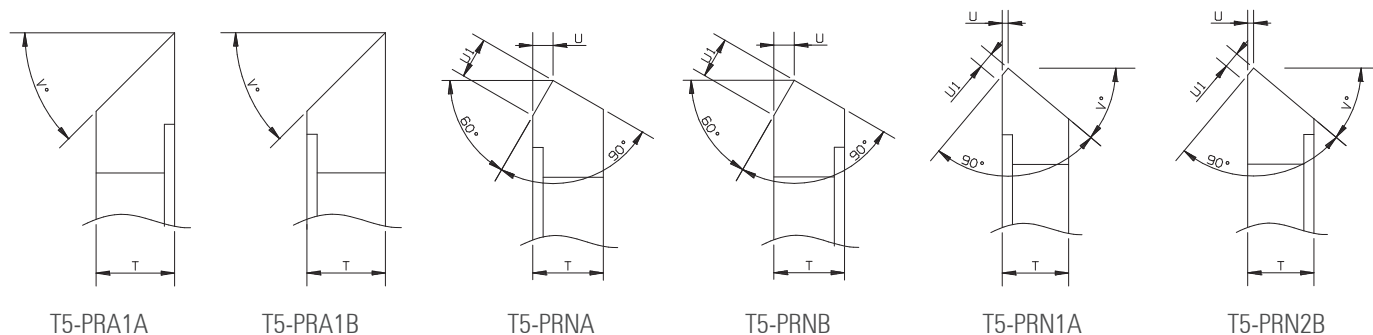
C6



SHAPES **molemab**

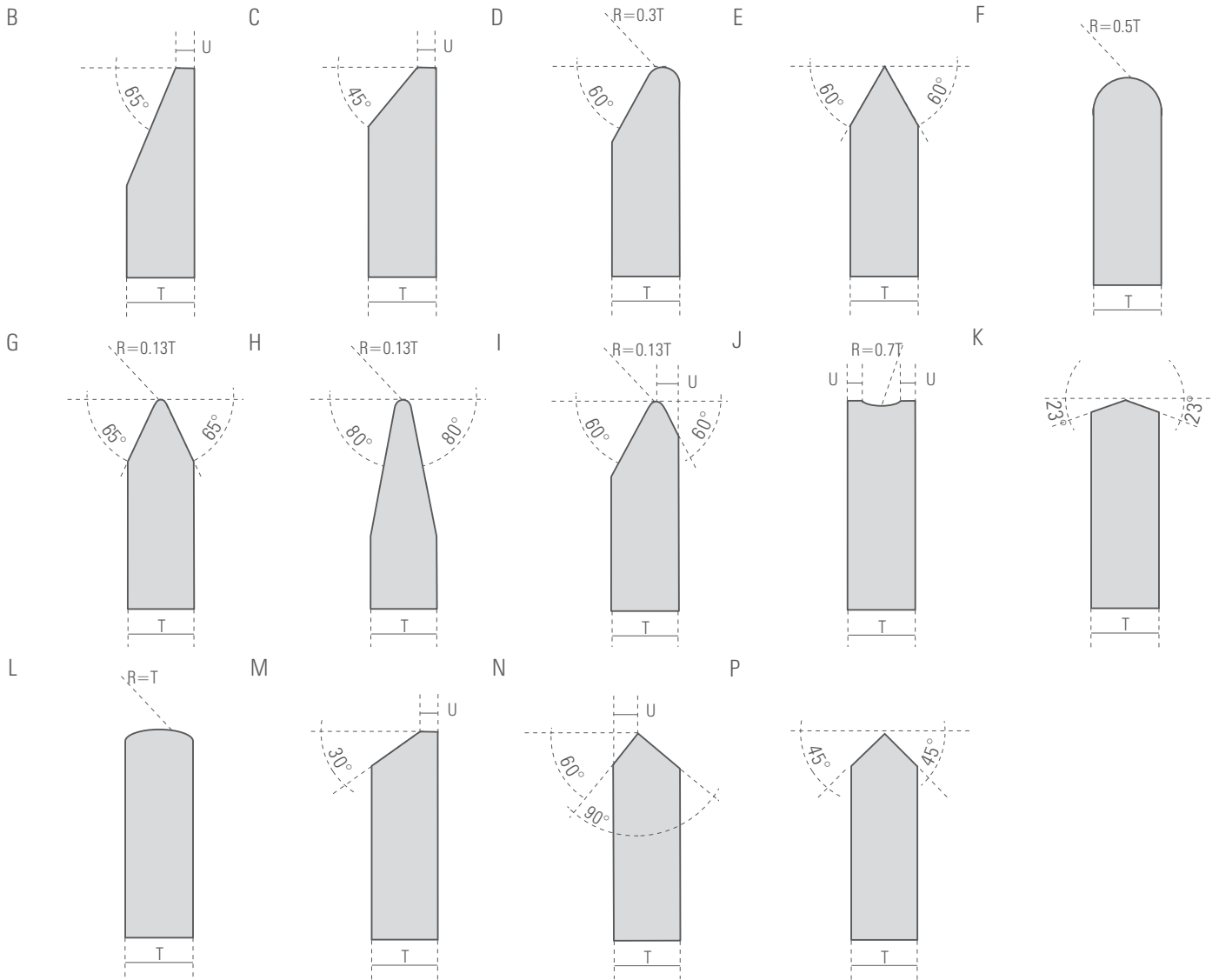


SPECIAL **molemab**

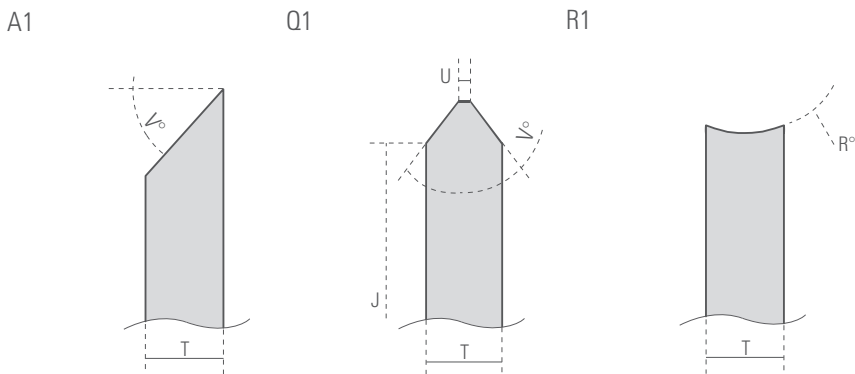


Naphthalene-Free since 1961
 With our products we contribute to a cleaner environment
 and a greener future for generations to come

PROFILES **molemab**



SPECIAL **molemab**



Special profiles available on request

If you wish to modify the standard FEPA profile add 1 after the code (example PRB1) and then specify the sizes requested



CYLINDRICAL GRINDING (O.D.) GRINDING WHEELS

O.D. Grinding / Pro-X line			Pro-X	Pro-X
Material		Hardness	T < 35	T > 35
Carbon steel		HRC 24 ÷ 38	11A 080 K08 V86	11A 070 IJ8 V30
Carbon steel		HRC 24 ÷ 38		11A 060 J06 V86
Carbon steel		HRC 24 ÷ 38		11A 070 J08 V86
Material		Hardness	T < 35	T > 35
Steel-Low alloyed		HRC 40 ÷ 52	09A 060 K07 V86	09A 060 J08 V86
Steel-Low alloyed		HRC 40 ÷ 52	10A 080 J08V86	09A 060 I10 V86 P1
Steel-Low alloyed		HRC 40 ÷ 52		09A 070 JK8 VK PF
Steel-Low alloyed		HRC 40 ÷ 52	09A 120 J08 V86	10A 080 J09 V86
Steel-Low alloyed		HRC 40 ÷ 52		09A 120 J08 V86
Material	Heat treatment	Hardness	T < 35	T > 35
Steel-Alloyed	Heat-treated / Hardened steel	HRC 42 ÷ 56	45A 060 J08 V86	45A 060/2 I09 V86
Steel-Alloyed	Heat-treated / Hardened steel	HRC 42 ÷ 56	45A 080 J08 VK PF	43A 070 IJ09 V11
Steel-Alloyed	Heat-treated / Hardened steel	HRC 42 ÷ 56	45A 080 J08 V92	45A 070 J08 VK PF1
Steel-Alloyed	Heat-treated / Hardened steel	HRC 42 ÷ 56		45A 080 J08 VK PF
Steel-Alloyed	Heat-treated / Hardened steel	HRC 42 ÷ 56		44A 080 J10 V86
Material	Heat treatment	Hardness	T < 35	T > 35
Steel-Alloyed	Hardened steel	HRC 52 ÷ 58	43A 070 J08 V86	43A 070 IJ09 V11
Steel-Alloyed	Hardened steel	HRC 52 ÷ 58	43A 080/1 JK08 VK	43A 080 J08 VK7 PF
Steel-Alloyed	Hardened steel	HRC 52 ÷ 58		48A 120 IJ08 V86
Material	Heat treatment	Hardness	T < 35	T > 35
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64	3AK 080 J08 VK4	3AK 080 I08 VK4 PF
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64		3AK 080 J08 VK4

O.D. Grinding / sYnchro8 line			sYnchro8	sYnchro8
Material	Heat treatment	Hardness	T < 35	T > 35
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64	1CA 060 H08 V40 P1	1CA 060 I08 V40
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64	2CA 080/1 H110 V40 P1	2CA 060 I10 V40 P1
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64		2CA 080/1 H110 V40 P1
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64		2CA 080 I10 V40 P1
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64		2CA 100 I10 V40 P1

O.D. Grinding / Arctic Plus line			Arctic Plus	Arctic Plus
Material	Heat treatment	Hardness	T < 35	T > 35
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64	1GA 080/8 H12 V86 P1	1GA 080/8 H10 V86 P1
Steel-Alloyed / HSS	Hardened / Cemented / Nitrided	HRC 52 ÷ 64		1GA 100/8 I10 V86 P1

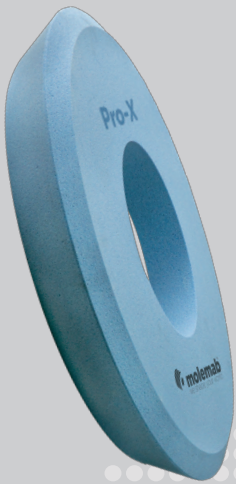
O.D. Grinding / Special application				
Material	Type	Hardness	T < 35	T > 35
Hard chrome	Chrome plated	HRC 64 ÷ 69	09A 080 IJ6 V86	09A 070 I 10 V86
Hard chrome	Chrome plated	HRC 64 ÷ 69		09A 080 IJ6 V86
Hard chrome	Chrome plated	HRC 64 ÷ 69		1GA 080/8 H10 V86 P1
Hard chrome	Chrome plated	HRC 64 ÷ 69		1BK 120/1 H10 V86

O.D. Grinding / Special application				
Material	Type	Heat treatment	T < 35	T > 35
Stainless steel	AISI family 400	Hardened and unhardened	45A 080 JK08 VK PF1	45A 070 J08 VK PF1
Stainless steel	AISI family 400	Hardened and unhardened		45A 080 J08 VK PF
Stainless steel	AISI 420 Hardened (< 55 HRC)	Hardened < 55 HRC		2CA 100 I10 V40 P1
Stainless steel	AISI family 300	Unhardened	08C 60/2 JK8 V11	08C 80 J08 V1 P1
Stainless steel	AISI 304 (medical)	Unhardened	2CA 100 I10 V40 P1	

O.D. Grinding / Special application				
Material		Hardness	T < 35	T > 35
Spheroidal cast iron		HRC 21 ÷ 26	08C 080/1 JK08 V11	08C 080/1 J08 V11

Pro-X

A line of standard vitrified bonded grinding wheels. They provide excellent performances combined with low grinding cost per workpiece. Ideal for both through feed and plunge grinding.



Cylindrical grinding allows to remove over material on the workpiece granting perfect geometrical shape and high degree of finishing. Choosing a wheel made by the best raw materials will ensure the best results in the grinding operation.

Arctic Plus

The new line was designed and developed using new abrasives and bonds of last generation, featuring improved mechanical strength to take full advantage of the potential of Aluminium Oxide and Ceramic Abrasives. Ideal on hardened steels up to 62 HRC.

Ideal on hardened steels up to 62 HRC

Standard grits: 1GA 80 - 1GA 100

Standard bonds: VG4 - V86



sYnchro8

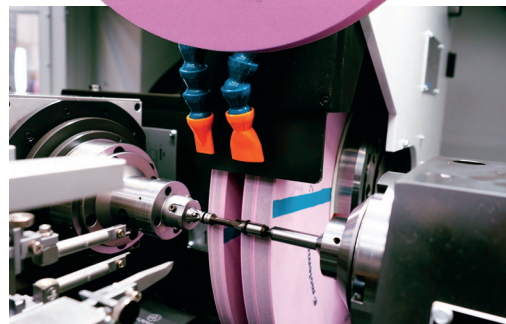
This new line is the result of a combination between the best abrasives available on the market with the new generation of Molemab bonds. It features:

High stock removal rate

Excellent profile retention

Reduced heat generation

sYnchro8 is the ideal solution to improve the production efficiency by increasing the process quality.



Application

Hardened, cemented, nitride and tempered carbon steels hardness from 48 to 62 HRC / Metal alloys (MnCr, CrMo, NiCrMo, MnCrB5, etc.) hardness from 48 to 62 HRC.

Application areas

Aerospace, agricultural and earthmoving machinery manufacturing, automotive, energy.

Cubic Boron Nitride (CBN) ranks second in the hardness scale of known materials. When compared to conventional abrasives it has significant advantages in hardness and thermal and chemical resistance.

Molemab combines the features of the CBN grit with special bonds designed by our R&D department to achieve the best results even in the most critical grinding operations.

DIA/CBN VIT Vitrified bond diamond and CBN grinding wheels

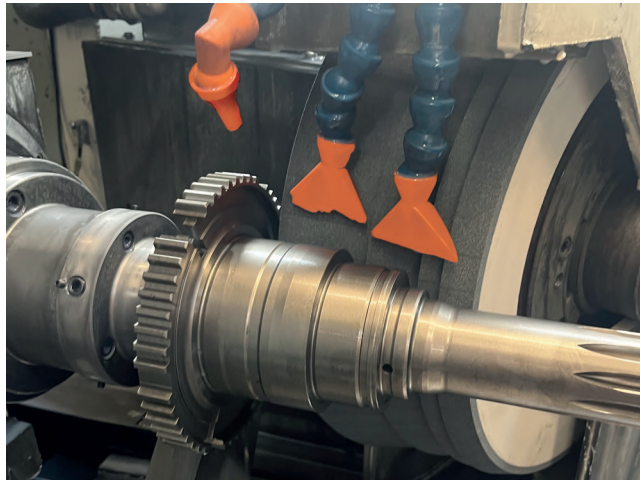
The increasing need to improve machine performances and reduce production difficulties require always better tools. To offer excellent results in O.D. grinding, Molemab has developed a line of vitrified bonded diamond and CBN grinding wheels.

Advantages

Longer life

Higher profile retention

Cool cut



Titan-X

The Titan-X line is the new line of vitrified CBN wheels which offers extraordinary versatility and resistance. A special vitrified bond has been specifically designed for this application. These grinding wheels offer exceptional wear resistance and much longer profile retention than conventional grinding wheels. Titan-X wheels are ideal for machining hard alloys, hardened and case-hardened steels, cast iron and other metal alloys based on nickel, chromium, and molybdenum, usually very difficult to grind.

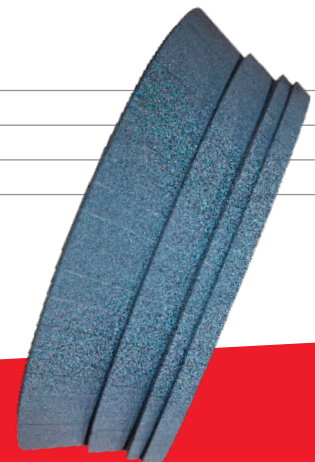
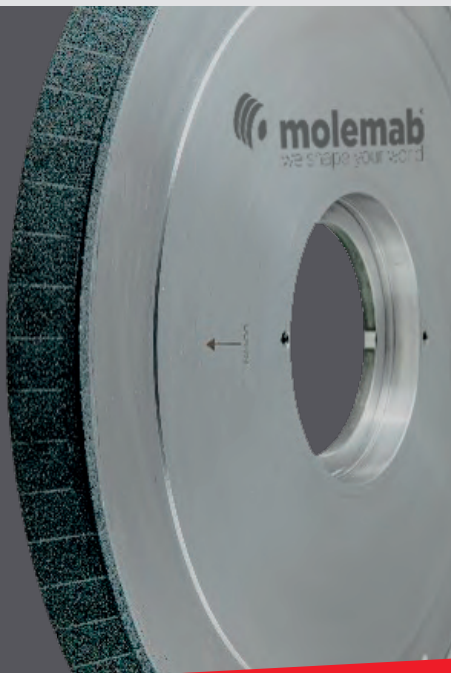
Advantages

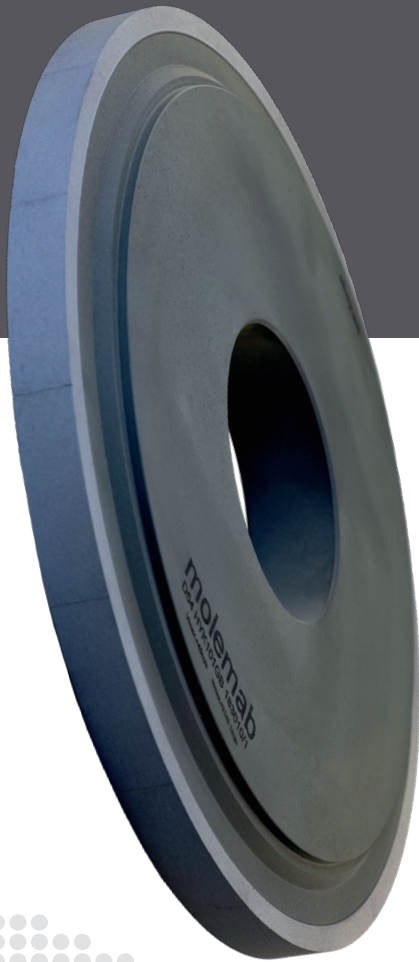
Cost reduction

Improved performances

Reduced cycle times

Excellent surface finishing





Diamond and CBN wheels with hybrid and resin bonds

The state-of-the-art hybrid and resinoid bonds developed by Molemab, combined with the best quality Diamond and CBN, enable a steady grinding process, cold cut and reduction in cycle time. Ideal for HSS and Hard Metal.

Power Spark

Achieve outstanding grinding results with unmatched precision and consistency. Electroplating technology provides a uniform abrasive layer, ensuring precise cut and consistent finishing every time. Made to withstand the toughest grinding jobs, Power Spark provides long-lasting performances, saving you time and money avoiding frequent wheel replacements. Its rugged construction ensures long life even in high-intensity applications.



we shape your world

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