

# »»Blue for You««

*Your Way to High Performance*

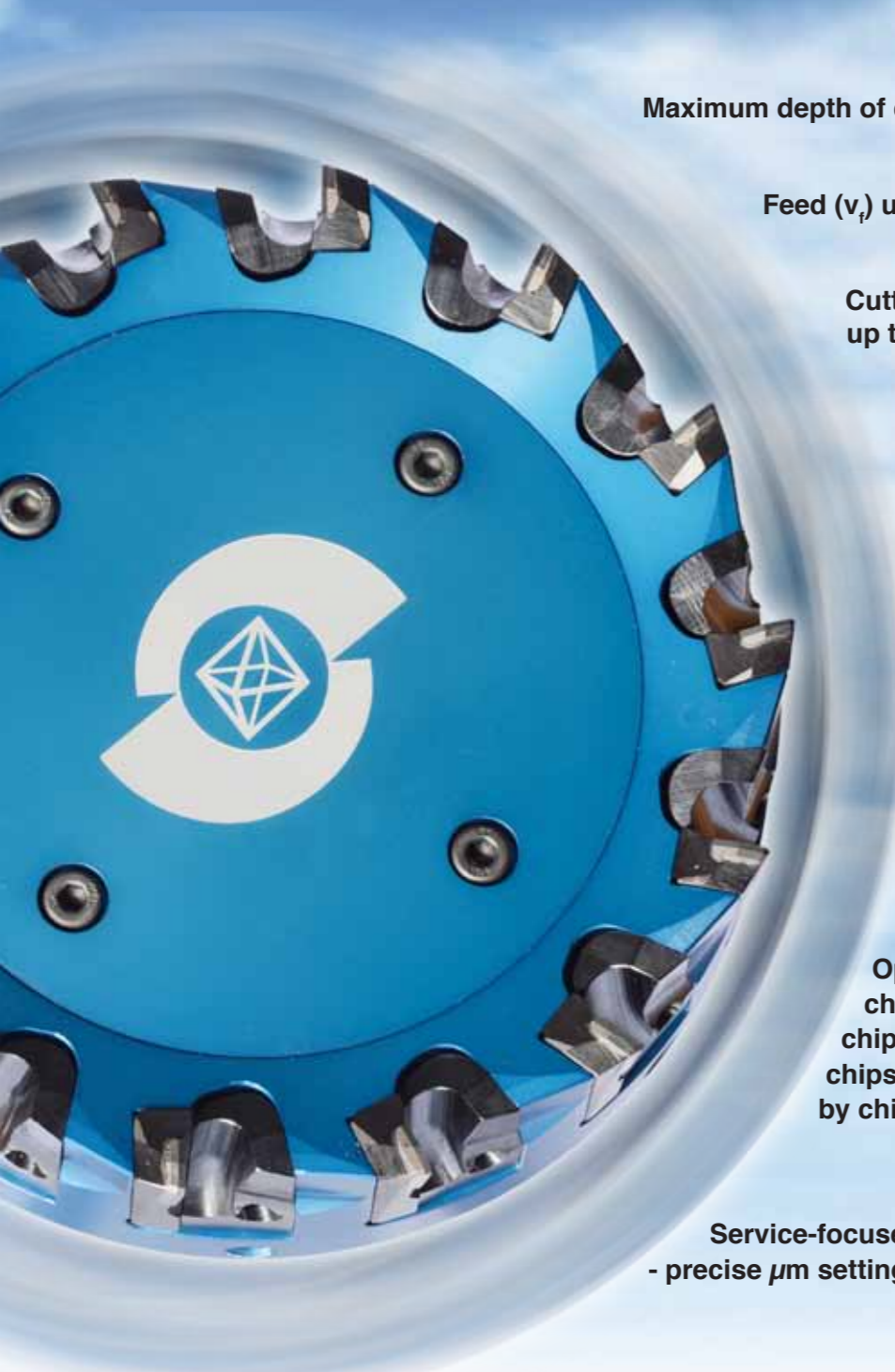


**PCD Cartridge Milling Cutter »»dia-blue-power««**

**LACH DIAMANT**



# PCD Cartridge Milling Cutter »dia-blue-power« sets New Standards for high-performance machining of non-ferrous metals



- Maximum depth of cut ( $a_p$ ) up to 5 mm
- Feed ( $v_f$ ) up to 30,000 mm/min
- Cutting speed ( $v_c$ ) up to 6,000 m/min
- Cycle time reduction up to 60 % compared to conventional face-milling cutters
- Improved quality of component (prevention of break-outs and burr formation) due to positive chip and shear angles
- Lower spindle load due to aluminium body
- Optional »chip breaker-plus«\*\* changeable clamping inserts with active chip breaker help to avoid inconvenient chips in cavities and prohibit damage by chips
- Service-focused - easy handling  
- precise  $\mu\text{m}$  settings - economic re-grinding concept

Standard version for  $R_z$  up to 15  $\mu\text{m}$  with PCD cartridges D-CR10x24-A6/P\*

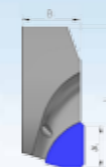
Description	D1	h	A	D2	Z	Art. No.
D-CFM 90-125-06-Z14/P	125	63	6	32	14	42402800
D-CFM 90-160-06-Z20/P	160	63	6	40	20	42402801
D-CFM 90-200-06-Z24/P	200	63	6	40	24	42402802
D-CFM 90-220-06-Z28/P	220	63	6	40	28	42402803
D-CFM 90-240-06-Z30/P	240	63	6	40	30	42402804
D-CFM 90-260-06-Z32/P	260	63	6	40	32	42402805
D-CFM 90-280-06-Z36/P	280	63	6	40	36	42402806
D-CFM 90-300-06-Z40/P	300	83	6	40	40	42402807
D-CFM 90-315-06-Z42/P	315	83	6	40	42	42402808
D-CFM 90-350-06-Z42/P	350	83	6	40	42	42402809
D-CFM 90-375-06-Z48/P	375	83	6	40	48	42402810
D-CFM 90-400-06-Z50/P	400	83	6	40	50	42402811

Finishing version for  $R_z$  up to 8  $\mu\text{m}$  with PCD cartridges D-CR10x24-A6/F\*

Description	D1	h	A	D2	Z	Art. No.
D-CFM 90-125-06-Z14/F	125	63	6	32	14	42402820
D-CFM 90-160-06-Z20/F	160	63	6	40	18	42402821
D-CFM 90-200-06-Z24/F	200	63	6	40	24	42402822
D-CFM 90-220-06-Z28/F	220	63	6	40	28	42402823
D-CFM 90-240-06-Z30/F	240	63	6	40	30	42402824
D-CFM 90-260-06-Z32/F	260	63	6	40	32	42402825
D-CFM 90-280-06-Z36/F	280	63	6	40	36	42402826
D-CFM 90-300-06-Z40/F	300	83	6	40	40	42402827
D-CFM 90-315-06-Z42/F	315	83	6	40	42	42402828
D-CFM 90-350-06-Z42/F	350	83	6	40	42	42402829
D-CFM 90-375-06-Z48/F	375	83	6	40	48	42402830
D-CFM 90-400-06-Z50/F	400	83	6	40	50	42402831

Do you prefer surface qualities of  $R_z < 5 \mu\text{m}$ ?  
We recommend to use cartridges for fine finishing\*\*\*  
D-CR 10x24-A6/FF.

We would be pleased to advise you.



PCD Cartridge Size 2*	B	L	A	Art. No.
D-CR 10x24-A6/P = Standard Cartridge	10	24	6	42404731
D-CR 10x24-A6/F = Finishing Cartridge	10	24	6	42404733
D-CR 10x24-A6/FF = Fine Finishing Cartridge***	10	24	6	42404735
Clamping Inserts** »chip breaker-plus« fit into all PCD cartridge milling cutters				42404834

LACH DIAMANT »dia-blue-power« with  $\phi$  125-400 mm is the perfect addition for high performance milling cutters HPC/HSC.

»dia-blue-power« combines the advantages of monoblock tools and conventional insert milling cutters, featuring top efficiency, stability and flexibility.

# LACH DIAMANT®

## Your Innovative Partner

Reliable, Customer-oriented, and Ready to Provide Customized Solutions



Head Office and Plant in Hanau near Frankfurt, Germany



Plant in Lichtenau near Chemnitz, Germany

Built in 1997 – expanded in 2007 and 2012 - Plant for polycrystalline diamond and CBN tools (PCD and PCBn)



### LACH DIAMANT Innovations

Example:  
»chipbreaker« type IC-plus (worldwide patents) – the premiere PCD chip-breaker due to its active chip-breaker – indispensable for cutting non-ferrous metals in serial production.



### LACH DIAMANT Service

Resharpening and regrinding service for all PCD and CBN (PCBn) tools, MCD and CVD, and natural diamonds. Refiling of diamond and CBN grinding wheels, recoating of electro-plated diamond tools.



### LACH DIAMOND INC., Grand Rapids/Michigan/USA

Production and service facility of polycrystalline diamond and CBN tools for the automobile and aviation industries and for the wood, plastic and composite industries.

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