DEBURRING PROGRAM

CMS
Industrial Equipment Company
6112 N. Mesa St. #127, El Paso, TX 79912
Ph: 1-866-566-0222

RUKO

Product Information

Unigrat „Universal Handle", designed in accordance with the latest ergonomic research.

One-hand operation
The locking head can be drawn back with thumb and finger of the hand holding the tool. With the locking head withdrawn, all steel holders (B-C-D-E-F) can be used and adjusted to lengths of up to 100,0 mm.

Grip grooves
The ends of the grip grooves are raised, preventing the tool from slipping out of the hand.

Offset surfaces
The offset between the surfaces means that the Unigrat „Universal Handle" can be held firmly for maximum torque.

Tapered handle
Gets narrower towards the base, giving improved grip.

Removable cap
The relevant blades can be stored inside the handle.

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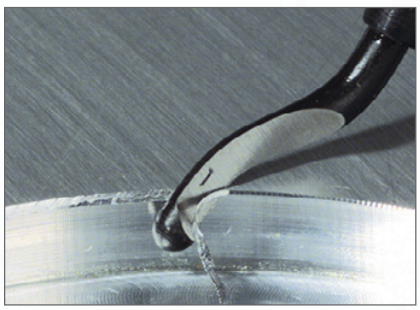
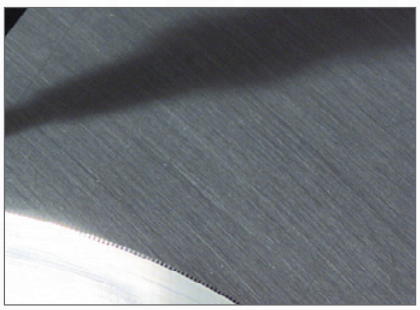
Application table

	Alloyed steel	Rust-resistant steel	Steel	Sheet metal	Cast iron	Aluminium	Copper	Brass	Polyacetal	Polyamid (PA)	Polyvinyl chlorid (PVC)	Polyphenylene oxide	Polyethylene	Polypropylene	Poly carbonate	Polytetrafluoroethylene	Polystyrene
Unigrat B 10			■			■	■		■	□	■	■	■	■	■	■	■
Unigrat B 20					■			■	■	□	■	■	□	■	■	■	■
Unigrat B 30			■			■	■		■	■	■	■	■	■	■	■	□
Unigrat B 50	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	□
Unigrat B 60			■			■	■		□	□	□	□	□	□	□	□	□
Unigrat B 70	□	■	■	■		■	■	□	□		■	■			■		□
Unigrat C 40		■	■	□	□	□	■	□	□	□	□	□	□	□	□	□	□
Unigrat C 42		■	■	□	□	□	■	□	□	□	□	□	□	□	□	□	□
Unigrat D 80	□	■	■	■	□	□	□		□		■	■			□		□
Unigrat D 82	□	■	■	■	□	□	□		□		■	■			□		□
Unigrat E 100			■			■	■		■	□	■	■	■	■	■	■	■
Unigrat E 200					■			■	■	□	■	■	□	■	■	■	■
Unigrat E 300			■			■	■		■	■	■	■	■	■	■	■	□
Unigrat E 350					■			■									
Unigrat E 600			■			■	■		■	□	□	□	□	□	■	■	□
Unigrat F 12		□	■	□	□	■	■	□	■	■	■	■	■	■	□	□	■
Unigrat F 20		□	■	□	□	■	■	□	■	■	■	■	■	■	□	□	■
Unigrat F 30		□	■	□	□	■	■	□	■	■	■	■	■	■	□	□	■
Double deburrer		□	■	□	□	■	■	□	□	□	□	□	□	□	□	□	□
Groove deburrer		□	■		□	■	■	□	■	■	■	■	■	■	■	■	■
Sheet-metal deburrer	□	■	■	■	□	■	■	□	■	■	■	■	■	■	■	■	■
Tube deburrer		□	□		□	■	■	□	■	□	■	■	■	■	■	□	■





■ Main application □ Other application

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HSS | Plastic

A Unigrat „Universal Handle”

This handle fits all holders B-C-D-E-F.

With the locking head withdrawn, the steel holders can be adjusted up to 100,0 mm in length and can be locked in any position. The replacement blades fit in the bottom cavity of the handle.

Packing unit: in plastic pack

	L1 mm	Article no.	
Universal handle A	150,0	107 010	1

B Unigrat „Blade B”

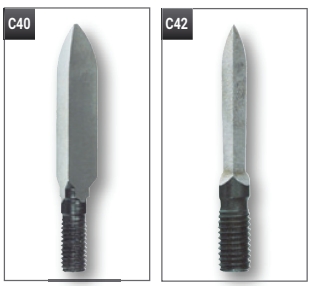
Packing unit: in plastic pack

		Article no.	
	The HSS blade most commonly used for internal and external deburring work on long-chipping materials such as steel, aluminium, plastics etc.	107 012	10
B20	This HSS blade is used for short-chipping materials such as brass and cast iron. Can be used in both directions.	107 014	10
	This HSS blade is suitable for the simultaneous deburring of inside and outside bores in material up to 4,0 mm thickness.	107 015	10
B50	Scriber with carbide-tipped point, regrindable.	107 016	1
	This HSS blade removes burrs from the back of material up to 20,0 mm thickness.	107 017	10
B70	This carbide-tipped blade deburs workpieces made of material up to 3,0 mm thickness.	107 018	1

C Unigrat „Blade C”

Packing unit: in plastic pack

		Article no.	
C40	Small HSS triangular scraper 4,0 x 20,0 mm for precision work on surfaces up to 4 mm width.	107 020	1
C42	Large HSS triangular scraper 8,0 x 30,0 mm for standard work on surfaces up to 8,0 mm width.	107 021	1



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Unigrat „Blade D"

Packing unit: in plastic pack

		Article no.	
D80	Reversible tungsten-carbide insert for blunt scraping and deburring sheet metal up to 3,0 mm thickness. 6 cutting edges.	107 023	1
D82	Reversible tungsten-carbide insert for deburring sheet metal up to 8,0 mm thickness. 2 cutting edges.	107 024	1

Unigrat „Blade E"

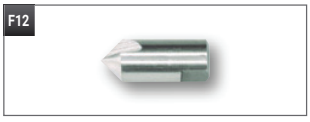
Packing unit: in plastic pack

		Article no.	
E100	HSS blade with B 10 cutting edge, long shank only. For internal and external deburring work on long-chipping materials such as steel, aluminium, plastics etc.	107 026	10
E200	HSS blade with B 20 cutting edge, long shank only. For short-chipping materials such as brass and cast iron. Usable in both directions.	107 027	10
E300	HSS blade with B 30 cutting edge, long shank only. For simultaneous deburring of internal and external bores in materials up to 4,0 mm thickness.	107 028	10
E350	This HSS blade is suitable for deburring straight edges, keyways etc.	107 029	10
E600	This HSS blade is suitable for deburring from behind in materials up to 20,0 mm thickness.	107 030	5

Unigrat „Blade F"

Packing unit: in plastic pack

		Article no.	
F12	HSS countersinker for deburring bores up to Ø 12,0 mm.	107 032	1
F20	HSS countersinker for deburring bores up to Ø 20,0 mm.	107 033	1
F30	HSS countersinker for deburring bores up to Ø 30,0 mm.	107 034	1



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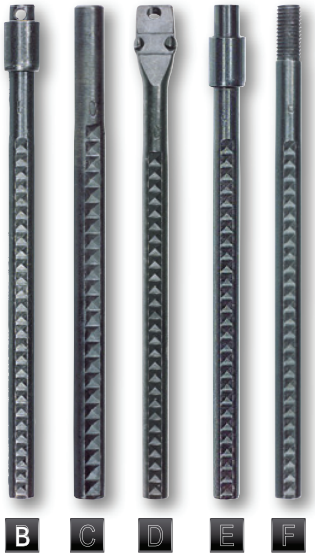
HSS | Plastic

Unigrat „Steel holder”

Packing unit: in plastic pack

	Article no.	
Steel holder B	107 011	1
Steel holder C	107 019	1
Steel holder D	107 022	1
Steel holder E	107 025	1
Steel holder F	107 031	1



Edge trimmer with HSS blades

- Plastic handle with removable back for spare blade storage.
- Exchangeable blades.
- Ideal for trimming edges, tubes, steel, aluminium, brass and copper sheets, cast iron and plastic sheets.

Packing unit: in plastic pack

	Article no.	
Edge trimmer A1 complete with E 100 HSS blade	107 050	1
4-piece set of edge trimmer A3 complete with 3 HSS blades	107 051	1

Rapid deburrer with HSS blade

- Hexagonal aluminium handle.
- Small and handy.
- Pocket-sized for permanent readiness.

Packing unit: in plastic bags of 1 each

	Article no.	
Rapid deburrer with non-exchangeable E 100 HSS blade	107 052	1
Rapid deburrer with exchangeable E 100 HSS blade	107 054	1

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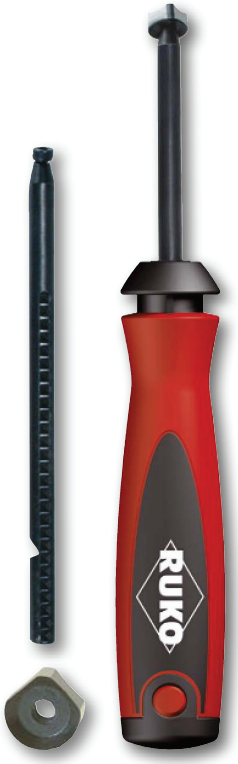
Groove deburrer set “N” with HSS disk blade



- Plastic handle.
- Exchangeable HSS disk blade.
- Ideal for grooves from 2,4 - 11,0 mm width.
- Especially suitable for deburring shaft keyways and bores in steel and aluminium.

Packing unit: in plastic pack

	Article no.	
3-piece set of groove deburrer “N” 3 pieces with RUKO universal handle A	107 062	1
1 replacement steel holder N	107 037	1
1 replacement HSS disk blade	107 063	1

Double deburrer with HSS disk blades

- Plastic handle with hand protector and 2 HSS blades.
- Exchangeable HSS disk blades.
- The disk blades can be turned when the cutting surfaces become worn, enabling the whole blade circumference to be utilized.
- The distance between the disk blades can be adjusted.
- Suitable for double-sided deburring of steel, aluminium, brass, copper and plastic sheets up to 10,0 mm thickness.

Packing unit: in plastic pack

	Article no.	
Double deburrer, complete	107 060	1
Replacement HSS disk blade	107 061	2

Tube deburrer with HSS cutting edges

- Ideal for internal tube deburring.
- Ideal for external tube deburring.
- Suitable for tube diameters from 4,0 to 36,0 mm.

Packing unit: individual cartons

	Article no.	
Tube deburrer	107 053	1

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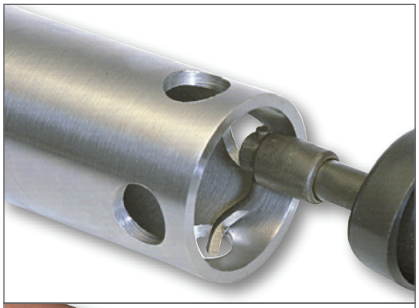
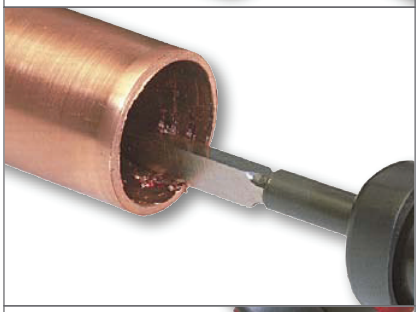
Unigrat sets

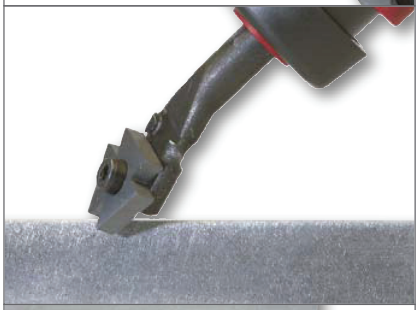
A rational deburring system for all deburring work that has to be done by hand.
The wide selection of blades provides a wide range of deburring possibilities for bores and edges.
The various blades enable you to debur bores from inside, outside or on both sides, as the blade itself adapts to the contours.

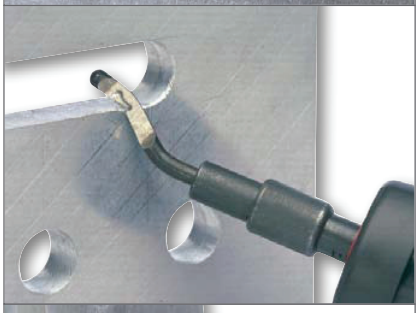
Packing unit: in plastic packs

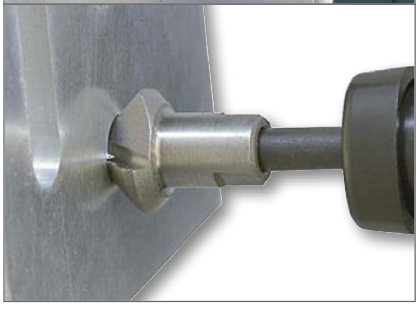
	Article no.
4-piece set of unigrat deburrer "B"	107 003
3-piece set of unigrat deburrer "C"	107 004
4-piece set of unigrat deburrer "D"	107 005
5-piece set of unigrat deburrer "E"	107 006
3-piece set of unigrat deburrer "F"	107 007











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