# Tools for Aluminium composite panels

CNC-processing
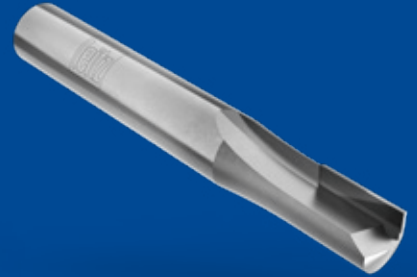
**leitz**

NOW AVAILABLE:

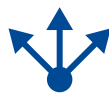Diamaster WhisperCut
Prismatic-Rebate-Cutterhead

# Leitz shapes Aluminium composite panels

Tool programme for CNC-processing of Aluminium composite panels.

**Aluminium composite panels are often used in architecture, industry and vehicle construction when special requirements are placed on the stability and formability of construction elements, on the durability of finishes or on weight reduction. The fact that panels of the most varied shapes, sizes and material properties are used, makes the processing of these materials a real challenge in many cases.**

Leitz offers an optimally coordinated range of tools for the processing of Aluminium composite panels, whose versatility is particularly impressive due to its high quality and performance.

## Leitz tools for Aluminium composite panels: Realize any shape and size in perfect quality!

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### FLEXIBILITY AND QUALITY

## VHW-Spiral finishing router

**The expert for machining Aluminium composites.**

#### YOUR BENEFITS

- Applicable in nearly all Aluminium composite panels
- High cutting quality
- Proven cutting technology

#### AT A GLANCE

- Small diameters for corner radius for perfect trimming
- Two selected diameters for sizing
- Suitable for all conventional machines
- Available ex stock

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### PRODUCTIVITY AND SUSTAINABILITY

## Diamaster PRO router

**The long-term specialist for sizing.**

#### YOUR BENEFITS

- Long lifetime
- Short machining times
- Perfect cutting results
- Reduced set-up times

#### AT A GLANCE

- Suitable for all conventional machines
- Available ex stock
- Diamond-tipped

**NEW**

## QUALITY AND EFFICIENCY

### DP V-grooving cutter with shank

**The tool for perfect folding edges with 90° or 135°.**

#### YOUR BENEFITS

- Long lifetime
- Proven cutting technology
- Perfect cutting results
- Resharpenable

#### AT A GLANCE

- Suitable for all conventional machines
- Available ex stock
- Diamond-tipped

## SUSTAINABILITY AND EFFICIENCY

### Diamaster WhisperCut Prismatic-Rebate-Cutterhead

**Particularly for V-grooves with 90° and 135°. Light, quiet, resharpenable.**

#### YOUR BENEFITS

- Energy saving
- Significantly less noise
- Long lifetime
- Perfect cutting results

#### AT A GLANCE

- Multiply resharpenable
- Individual diameters
- Suitable for all conventional machines and aggregates
- Available at short notice
- Diamond-tipped

## EFFICIENCY

### Circular sawblades in HW/DP

**If perfect finish cut quality is required.**

#### YOUR BENEFITS

- Short production times
- Long lifetime
- No need of edge finishing
- Protection of the support panel

#### AT A GLANCE

- Multiply resharpenable
- Individual diameters
- Suitable for all conventional aggregates
- Available at short notice
- Tungsten carbide or diamond-tipped

Ordering information for the products shown above can be found overleaf!

# Ordering information

| Description | Application | Cutting material | Dimensions | Parameters | Ordering ID | Avail-ability |
|---|---|---|---|---|---|---|
| VHW-single knife cutter | Sizing Grooving Inner corner radius 1,5 mm Bores | HW | D3/NL10/S6/GL58/Z1/RD/RL | $v_c$ = 3-6 m/s $f_z$ = 0,02-0,15 mm | 240540 | ● |
| VHW-single knife cutter | Sizing Grooving Bores | HW | D6/NL20/S6/GL58/Z1/RD/RL | $v_c$ = 6-10 m/s $f_z$ = 0,02-0,18 mm | 240541 | ● |
| DP V-grooving cutter with shank for Aluminium composite panels | V-groove 135° | DP | D20/d2/NL3,7/S16/GL75/Z1/RL | $v_c$ = 15-25 m/s $f_z$ = 0,04-0,25 mm | 191106 | ● |
| DP V-grooving cutter with shank for Aluminium composite panels | V-groove 90° | DP | D17,8/NL7,4/S16/GL75/Z1/RL | $v_c$ = 15-25 m/s $f_z$ = 0,05-0,25 mm | 191100 | ● |
| Diamaster PRO router | Sizing Grooving | DP | D8/NL10/S8x35/GL55/Z1/RL | $v_c$ = 15-25 m/s $f_z$ = 0,03-0,4 mm | 191107 | ● |
| Diamaster WhisperCut Prismatic-Rebate-Cutterhead | V-groove 90° | DP | D180/SB20/BO30/Z6/Z6x2 | $v_c$ = 60-80 m/s $f_z$ = 0,2-0,4 mm | 100240441 | ☐ |
| Circular sawblade Excellent | Splitting Sizing | DP | D125/SB3,2/TDI2,2/BO35/Z30/ ZF FZFA/FZFA | $v_c$ = 60-80 m/s $f_z$ = 0,02-0,04 mm | 156019311 | ☐ |
| Circular sawblade Excellent | Splitting Sizing | DP | D200/SB3,2/TDI2,2/BO30/Z48/ ZF FZFA/FZFA | $v_c$ = 60-80 m/s $f_z$ = 0,02-0,04 mm | 156019492 | ☐ |

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|---|---|---|---|---|---|
| ● | = | available ex stock | ☐ | = | available at short notice |
| BO | = | bore diameter | RD | = | right hand twist |
| d | = | diameter | RL | = | right hand rotation |
| D | = | cutting circle diameter | S | = | shank dimension |
| DP | = | polycrystalline diamond (PCD) | SB | = | cutting width |
| $f_z$ | = | tooth feed | TDI | = | thickness of tool |
| GL | = | total length | $v_c$ | = | cutting speed |
| HW | = | tungsten carbide (TCT) | Z | = | number of teeth |
| NL | = | cutting length | ZF | = | tooth shape (cutting edge shape) |

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