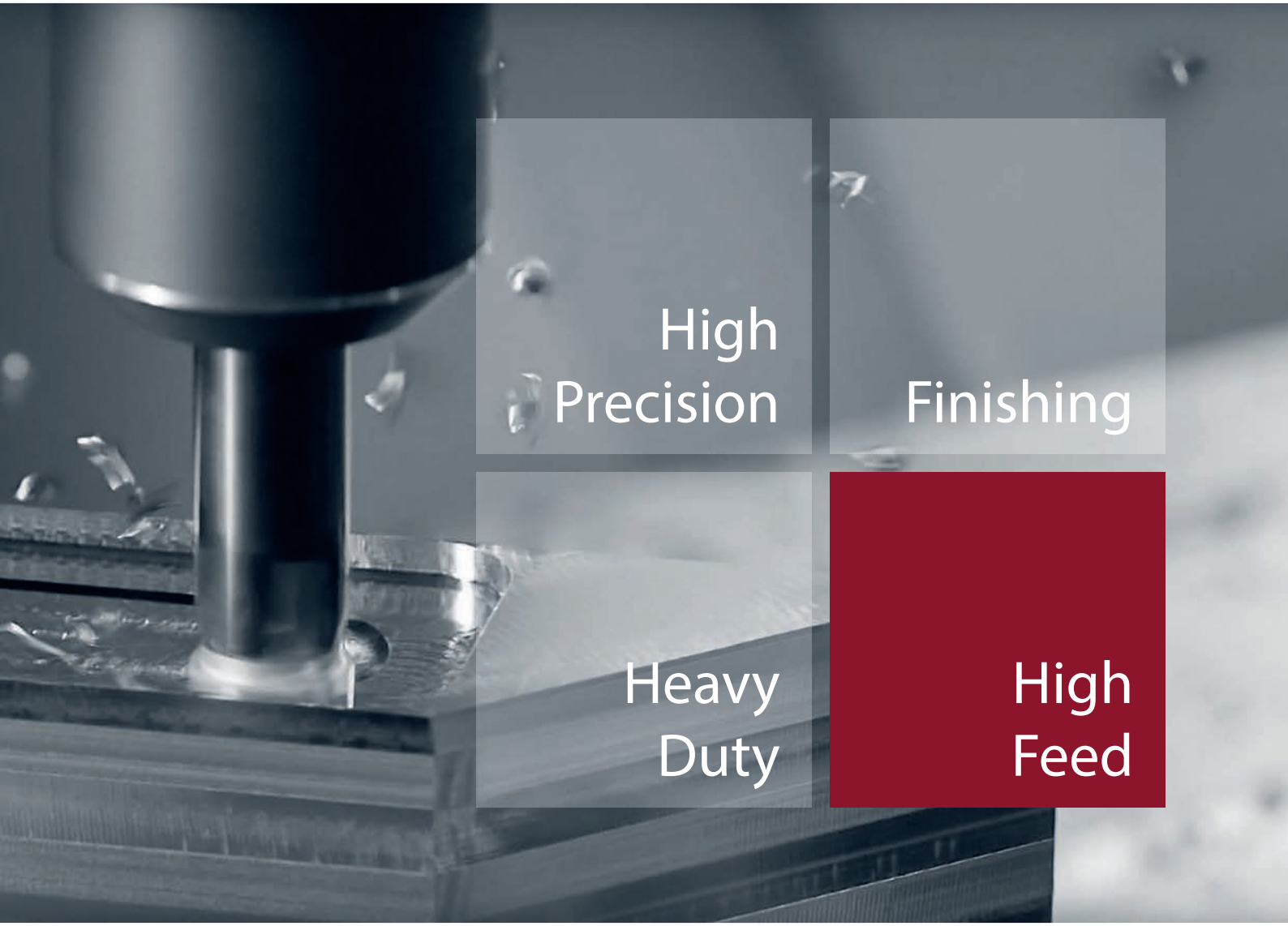
INFOCUS

Tool and Dye Making



Four key applications – one objective: max. Q

AVANTEC
MILLING. HIGHLY POSITIVE

Chipping with **loooong tool lives:** The Avantec indexable insert milling cutters

High Feed

Perfect form in absolute precision is particularly important for tool and die-making applications as well as the aerospace industry. Delivering a stable performance across the entire process for every component. Until the final chip falls. This applies to the manufacturing of prototypes, individual components or the series production of dies, structural components or die-cast molds. Reach your goal with dependable precision.

- **Axially and radially effective chipping angles for soft cuts**
- **High stability even under extreme cantilever conditions**
- **Outstanding surface quality**
- **Optimum rouging and finishing quality**

RO18

Universally deployable copy milling cutters for the machining of high-alloyed steel.

Tool-Ø 52 mm
Material 1.7225
$v_f = 3400$ mm/min
$a_p = 2$ mm
$a_e = 45$ mm

UD90

Highly precise high feed milling cutter for 90°-machining. Ideal for pocket milling.

Tool-Ø 63 mm
Material 1.4548
$v_f = 3000$ mm/min
$a_p = 1.5$ mm
$a_e = 46$ mm

The smart stable solution: **Highly precise and process secure**

SP18 XS90

High performance milling cutters with replaceable cutter. Dynamically mill grooves, contours, ramps and pockets. Also, and especially suitable for high-alloyed steel. Stable cross-/star-shaped carrier face for high precision.

Tool-Ø 16 mm
Material 1.2363
$v_f = 5730$ mm/min
$a_p = 0.8$ mm
$a_e = 16$ mm

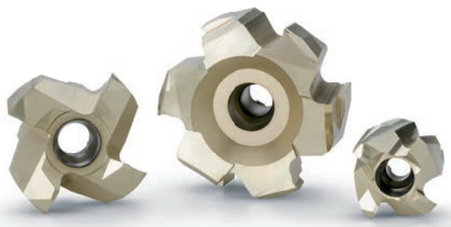
Tool-Ø 20 mm
Material 1.0503
$v_f = 4560$ mm/min
$a_p = 10$ mm
$a_e = 6$ mm

Avant Easy Change

High performance milling cutters with the advantages of long tool lives, stable precision and high process security.

- **Fast change times**
- **High change accuracy**
- **Variable diameters and number of teeth**
- **Extraordinarily smooth running**
- **Optimum power transmission**
- **Regrindable replaceable heads**

Avant Easy Change tools are smart alternatives to solid carbide shaft milling cutters.



For **everything that has an extended cantilever**. Triloc – perfect radial runout.

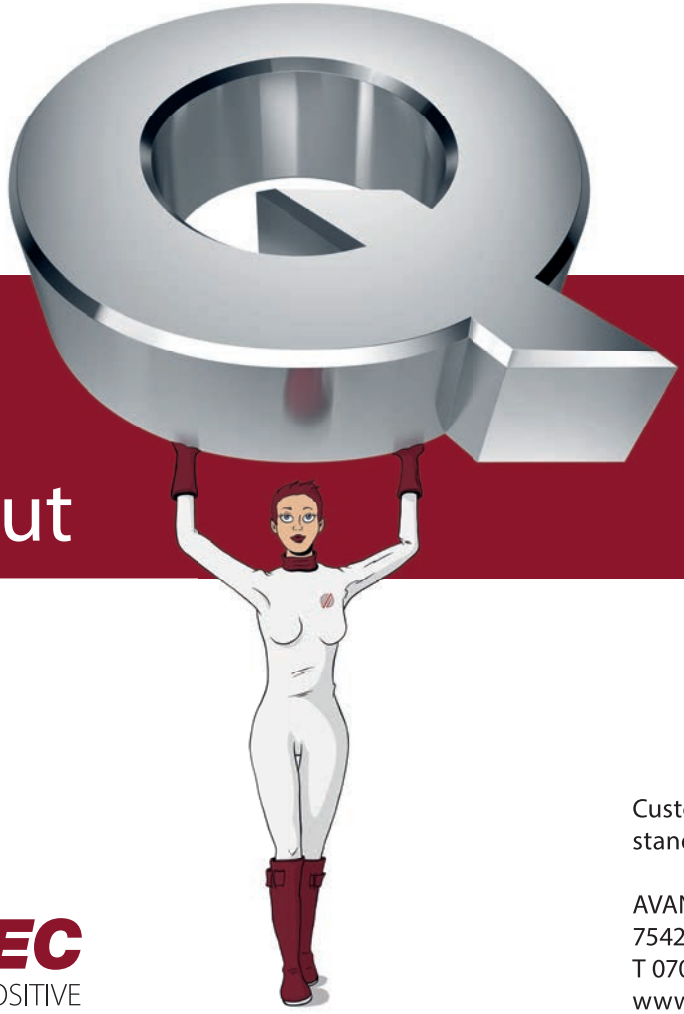
Triloc Program

For long cantilever machining, Triloc provides the stable interface that delivers outstanding radial runout precision. For all HSK-/SK-inserts, even in conjunction with vibration dampening.

Triloc HSC milling cutter program:

- **Shoulder milling cutter HC90**
- **Copy milling cutter UP90**
- **Copy milling cutter RO18**

RO18 HSC



It's all about

Custom solutions and standard tooling

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