

Compressor Housing

Material: Aluminum Alloy

ISCAR PCD LINE

1

- High accuracy
- Brazed PCD tips
- Precisely ground profile
- High machining parameters

Cutting conditions

$V_c=600$ m/min (1970 sfm)
 $f_z=0.08$ mm/t (0.0032 inch/t)



External Form Milling

- Prolonged tool life
- Excellent surface finish
- High speed machining of aluminum alloys
- Coolant through for improved chip control



Internal Form Boring

- High effective solution
- Excellent surface finish
- High profile repeatability
- Coolant through for improved chip control

ISCAR PCD LINE

2

- Brazed PCD tips
- Precisely ground profile
- Improved wear resistance

Cutting conditions

$V_c=400$ m/min (1300 sfm)
 $f_z=0.12$ mm/t (0.0047 inch/t)



ISCAR PCD LINE

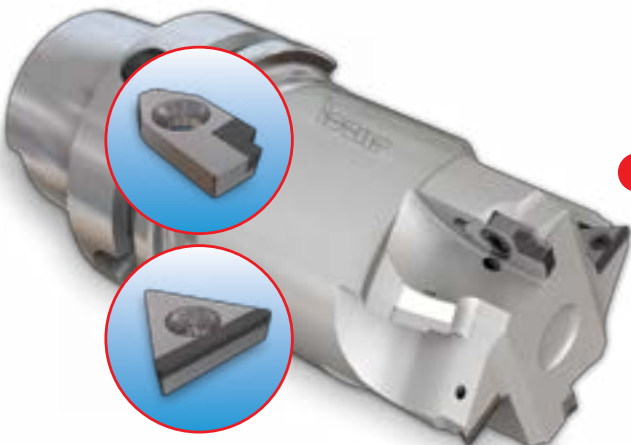
3

XNUW.../ TCMT... ID5

- Brazed PCD tips inserts
- Increased cutting parameters

Cutting conditions

$V_c=700$ m/min (1970 sfm)
 $f_z=0.2$ mm/t (0.0078 inch/t)



Integral Boring

- Quick insert change
- No need for regrindings
- Extremely rigid clamping
- Coolant through

ALUFRAISE

4

CA-SPM... ID5

- PCD tipped cartridge
- High accuracy $Ra0.4\mu m$
- Wide range of insert types
- High machining parameters

Cutting conditions

$V_c=2500$ m/min (8200 sfm)
 $f_z=0.07$ mm/t (0.0028 inch/t)



Face Milling

- Lightweight body
- Unique coolant system through a cover
- Axially adjustable cartridges for runout elimination
- User-friendly adjustment system
- High speed machining

ISCAR PCD LINE

5

- Brazed PCD tips
- Smooth top surface
- Precisely ground profile

Cutting conditions

$V_c=1200$ m/min (3900 sfm)
 $f_z=0.08$ mm/t (0.0032 inch/t)



Slot Milling

- Excellent surface finish
- Excellent part straightness
- Coolant supply to each cutting edge

ISCAR PCD LINE

6

- Excellent tool life
- High cutting speed

Cutting conditions

$V_c=600$ m/min (1970 sfm)
 $f_z=0.1$ mm/t (0.0039 inch/t)



External Forming

- Extreme accuracy
- High surface finish
- Coolant through