

**Garant**

Copy mill 0° negative, with bore, Ø D / number of teeth Z: 52/4 mm


**Order data**

Order number	212165 52/4
GTIN	4045197193926
Item class	210

**Description**
**Version:**

Milling body with irregular pitch for smooth cutting.

- **High axial run-out accuracy and concentricity**
- **Stepless repositioning as the cutting edge wears.**

**Application:**

With pack of insert screws No. 219800 - for securing indexable inserts and retaining washers.

**Attention:**

Retaining screws and retaining washers should **not** be used for inserts with positive geometry.

**Note:**

Use GARANT torque screwdriver TQ No. **211750 size 5.7** with bit No. **674252 size 20IP**.

$a_{p\ max} = 5.0\ mm$ .

Tool exchange: PowerCard

Through-coolant: yes

Number of cutting edges Z: 4

Ø D<sub>3</sub>: 36 mm

Overall length L<sub>tot</sub>: 50 mm

Mounting bore Ø: 22 mm

Circular interpolation milling Ø D<sub>min</sub>: 88 mm

Circular interpolation milling Ø D<sub>max</sub>: 102 mm

## Technical description

suitable indexable insert	RD..1604
Set of retaining washers	219955
Pack of insert screws	219800 (20IP; 5.7 Nm)
Overall length $L_{tot}$	50 mm
$\varnothing D_3$	36 mm
Cutting edge $\varnothing D_c$	52 mm
Mounting bore $\varnothing$	22 mm
Number of cutting edges Z	4
Through-coolant	yes
Circular interpolation milling $\varnothing D_{min}$	88 mm
Circular interpolation milling $\varnothing D_{max}$	102 mm
Ramping length L for $\alpha_{max}$	31.94 mm
Ramping angle $\alpha_{max}$	2.01 degrees
Shank type	with bore
Milling head suitable for insert shape	round
Milling application	Circular milling
Milling application	Ramping
Spacing of the cutters	unequal spacing
Tool exchange	PowerCard

## Accessories

Set of insert screws 10 pieces	219800
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 20IP	674252 20IP
Torque screwdriver, fixed setting set torque 5,7 Nm	211750 5,7
Set of retaining washers 10 pieces	219955