

Garant
Copy mill 0° negative heavy metal, Weldon shank, Ø D: 20L mm

Order data

Order number	212110 20L
GTIN	4045197192554
Item class	210

Description
Version:

Milling body with irregular pitch for smooth cutting.

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

Note:

Use GARANT torque screwdriver TQ No. **211750 size 3.8** with bit No. **674252 size 15IP**.

$a_{p\ max} = 2.5\ mm$.

Tool exchange: PowerCard

Through-coolant: yes

Number of cutting edges Z: 2

Ø D₃: 10 mm

Overhang L₁: 100 mm

Overall length L_{tot}: 155 mm

Shank Ø D_s h6: 20 mm

Circular interpolation milling Ø D_{min}: 30 mm

Technical description

Shank Ø D _s h6	20 mm
Overhang L ₁	100 mm
Pack of insert screws	219804 (15IP; 3.8 Nm)
suitable indexable insert	RD..1003
Cutting edge Ø D _c	20 mm
Overall length L _{tot}	155 mm

Ø D ₃	10 mm
Number of cutting edges Z	2
Through-coolant	yes
Circular interpolation milling Ø D _{max}	38 mm
Circular interpolation milling Ø D _{min}	30 mm
Ramping angle α _{max}	537 degrees
Ramping length L for α _{max}	748 mm
Circular interpolation milling a _p	2.5 mm
Shank type	Weldon shank
Milling head suitable for insert shape	round
Milling application	Ramping
Milling application	Circular milling
Spacing of the cutters	unequal spacing
Tool exchange	PowerCard

Accessories

Torque screwdriver, fixed setting set torque 3,8 Nm	211750 3,8
Set of insert screws 10-piece	219804
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 15IP	674252 15IP