

**Garant**
**Softcut® 90° shoulder mill MTC, Plain shank, Ø D / number of teeth Z: 20/2 mm**

**Order data**

Order number	215565 20/2
GTIN	4045197409096
Item class	210

**Description**
**Version:**

High precision indexable face mill with irregular pitch for very smooth cutting, very high precision, and very high metal removal rate. **New generation** of high performance indexable face mills **with special geometry for reduced cutting forces for MTC applications** under **unstable conditions** or **for spindles with low drive power**.

**Application:**

For face milling to large depths, also slotting. General use in all steels including stainless steels.

**Spare part:**

Pack of insert screws No. 219826 (8IP; 2.2 Nm).

**Note:**

The insert pocket must be modified when using indexable inserts with a radius greater than 2 mm.

GARANT torque screwdriver TQ No. **211750 size 2.2**, use bit No. **674252 size 8IP**.

Overhang  $L_1$ : 50 mm

Overall length  $L_{tot}$ : 160 mm

Shank  $\varnothing D_s$  h6: 20 mm

Circular interpolation milling  $\varnothing D_{min}$ : 27.1 mm

Circular interpolation milling  $\varnothing D_{max}$ : 39.1 mm

Circular interpolation milling  $a_p$ : 1.7 mm

**Technical description**

Cutting edge $\varnothing D_c$	20 mm
Overall length $L_{tot}$	160 mm
Pack of insert screws	219826 (8IP; 2.2 Nm)

Shank $\varnothing D_s$ h6	20 mm
Overhang $L_1$	50 mm
suitable indexable insert	AP.. 1335..
Number of cutting edges Z	2
Ramping length L for $\alpha_{max}$	117 mm
Circular interpolation milling $\varnothing D_{max}$	39.1 mm
Circular interpolation milling $\varnothing D_{min}$	27.1 mm
Circular interpolation milling $a_p$	1.7 mm
Ramping angle $\alpha_{max}$	4.4 degrees
Shank type	Plain shank
Setting angle $\kappa$	90 degrees
Milling application	End milling
Milling application	Circular milling
Milling application	Ramping
Spacing of the cutters	unequal spacing
Through-coolant	yes
Machining strategy	MTC
Tool exchange	PowerCard
Type of product	Indexable insert cutter

## Accessories

Set of insert screws 10-piece	219826
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 8IP	674252 8IP
Torque screwdriver, fixed setting set torque 2,2 Nm	211750 2,2