

Garant
Softcut® 90° shoulder mill MTC, with bore, Ø D / number of teeth Z: 160/10 mm

Order data

Order number	215160 160/10
GTIN	4045197349392
Item class	210

Description
Version:

High precision square shoulder milling cutter with irregular pitch for very smooth cutting, very high precision and cutting power. High performance indexable square shoulder milling cutter **with special geometry for reduced cutting forces for MTC applications** under **unstable conditions** or **for spindles with low drive power**. For arbors to DIN 2079, with 4 additional attachment holes.

Without internal cooling.

Application:

For corner milling to large depths, also slotting. General use in all steels including stainless steels. Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres (**MTM**).

Note:

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

The insert pocket must be modified when using indexable inserts with a radius greater than 3.1 mm.

Overall length L_{tot} : 63 mm

Mounting bore Ø: 40 mm

Circular interpolation milling Ø D_{min} : 301.5 mm

Circular interpolation milling $\varnothing D_{\max}$: 318.5 mm

Circular interpolation milling a_p : 0.85 mm

Ramping angle α_{\max} : 0.3 degrees

Technical description

Pack of insert screws	219808 (15IP; 3.8 Nm)
Mounting bore \varnothing	40 mm
Cutting edge $\varnothing D_c$	160 mm
suitable indexable insert	AP.. 1805..
Overall length L_{tot}	63 mm
Number of cutting edges Z	10
Ramping angle α_{\max}	0.3 degrees
Circular interpolation milling a_p	0.85 mm
Ramping length L for α_{\max}	1718.9 mm
Circular interpolation milling $\varnothing D_{\min}$	301.5 mm
Circular interpolation milling $\varnothing D_{\max}$	318.5 mm
Series	Softcut®
Shank type	with bore
Setting angle κ	90 degrees
Milling application	Corner 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

Torque screwdriver, fixed setting set torque 3,8 Nm	211750 3,8
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 15IP	674252 15IP
Set of insert screws 10-piece	219808