

**Garant**
**Indexable drill combination shank Shank Ø 20 mm, 3xD, Ø DC: 16 mm**

**Order data**

Order number	232302 16
GTIN	4045197351722
Item class	21S

**Description**
**Version:**
**High stability and very high process reliability.**

 With shank Ø 20 mm, particularly suitable for **driven tools** (see Group 31).

**Application:**
**For stationary and rotating application.**

 For holes free of withdrawal scoring and exact dimensional accuracy (approx.  $\pm 0.1$  mm).

**Also suitable for machines with low drive power.** Especially for **MTC (Multi Task Cutting)** use on the new generation of turning/milling centres (**MTM**).

With indexable inserts No. 232400 – 232780.

**Note:**
**Counterboring tools with up to 2 steps to your specification available on request. (Minimum order quantity: 2 pieces)**
**CAUTION!**

A disc falls off when the drill exits.

Risk of injury if the component is rotating.

Please take safety precautions.

 Overhang  $L_A$ : 72 mm

 Shank Ø  $D_s$ : 20 mm

 Shank length  $L_s$ : 50 mm

 Maximum adjustment limit  $V_{max}$ : 0.5 mm

ISO code indexable insert: WOEX 030204

Pack of insert screws: 239700 6IP (0.6 Nm)

**Technical description**

ISO code indexable insert	WOEX 030204
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Shank $\varnothing D_s$	20 mm
Number of cutting edges Z	1
Reach $L_1$	48 mm
Pack of insert screws	239700 6IP (0.6 Nm)
Shank length $L_s$	50 mm
Nominal $\varnothing D$	16
Maximum adjustment limit $V_{max}$	0.5 mm
Overhang $L_A$	72 mm
Drill depth for indexable insert drill up to	3xD
Shank	DIN 6535 HE, DIN 6595
Use for drilling	Centre drilling
Use for drilling	oblique spot drilling
Use for drilling	limited cross-drilling
Use for drilling	limited drilling through a stack
Use for drilling	Aperture
Use for drilling	oblique exit
Use for drilling	convex
Through-coolant	yes
Machining strategy	MTC

## Accessories

PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 6IP	674252 6IP
Torque screwdriver, fixed setting set torque 0,6 Nm	211750 0,6
Torx Plus® insert screw set 10 pieces Drive 6IP	239700 6IP