FANUC control

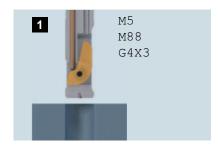
Workpiece carbon steel C45

Cutting data (see page 201)

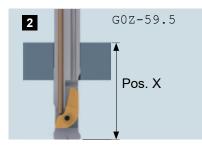
30 m/min. \rightarrow S = 400 rev./min. $V_c =$

F = 0.05 mm/rev.

Activation speed (see page 202) Counterbore ratio = 24.0 : 10.5 = 2.28 → Activation speed = 2500 rev./min.



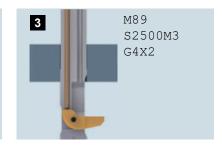
Position the tool above the top material surface, spindle stop, internal coolant ON, 2-5 sec. dwell time for coolant pressure build-up (depending on the pump), the blade retracts.



Traverse in rapid feed to position X.

(Position X= 5.0 mm + 30.0 mm + swing length¹ 22.5 mm + safety distance 2.0 mm)

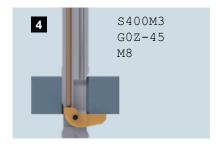
1) Values for swing length (AL) see page 171 onwards



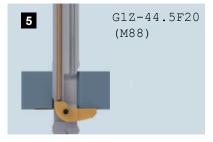
Switch OFF internal coolant, start activation speed², 1-2 sec. dwell time (attention to coolant pressure), blade swings out into the working position.

Recommended internal coolant pressure: 20-50 bar

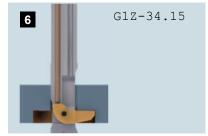
2) Values for activation speed see page 202



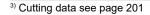
Travel the tool in rapid feed with working speed³ until approx. 1.0 mm below the rear material surface (attention to burr size, part tolerances). External coolant on.

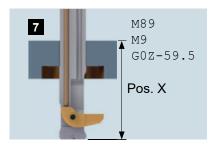


Start machining in working feed³. When full cut is reached (0.25 mm deep) internal coolant ON especially when working with deeper counterbores. Attention to internal coolant pressure particularly when machining soft materials!



Continue machining to desired counterbore depth. Cutting free without internal coolant (recommendable!).





When the counterbore depth is reached, switch OFF internal coolant, in rapid feed back to position X.



Spindle stop, internal coolant ON, 2-5 sec. dwell time (attention coolant pressure), blade retracts.

Recommended internal coolant pressure: 20-50 bar



Now, move out of the workpiece in rapid speed.