

# MULTI-STEP DRILLS – HSS DM O5

- Standard execution with 2 chip spaces, spiral grooved.**
- More precise hole diameter through cylindrical steps.
  - Immediate deburring through the next step.
  - Drilling of sheet metals as thin as 4 mm possible.
  - Use coolant stick!
  - The keyway allows the drill to make a chipping cut during drilling for better chip removal.
  - Longer cutting edge compared to the usual straight groove and noticeably easier cutting.
  - Laser-etched scale in the chip space to indicate the bore diameter achieved.

Descriptio	Bore range	Shank Ø	Length	Prod.-No.
AMS-30	6 - 30 mm x 2 mm	10.0	98 mm	08072

<b>Multi-Step Drill – SVB</b>	10.0	08016
Pre-drill specifically for punches & dies		
Steps Ø 8.5 - 11.5 - 12.5 - 16.5 - 21.0		



Prod.-No. 08072



Prod.-No. 08016

Vorböhrer speziell  
für Blechlocher

## Standard values for the use of ALFRA Multi-step drills

This drill was developed to bore perfectly round and deburred holes in sheet metal from 4 - 6 mm thick. The transition forms a radius which serves to deburr or bevel the hole at the same time. While conical one-lip bits drill a slightly tapered hole, our ALFRA multi-step drill achieves a cylindrical hole. The tools have axial-radial relief grindings and can be lightly reground on the breast of the cutting tooth.

We recommend the use of pillar drilling machines, however, the small ALFRA Multi-step drills can be used on adjustable hand drilling machines. Sufficient cooling using **ALFRA coolant stick** or a bore emulsion is imperative.

R.P.M. Guiding Values					
Type		sheet steel S235	V2A sheets	non-ferrous metals	plastics soft
AM	drill	800	360	1000	1000
	counter-sink	500 - 180	50 - 70	800 - 400	1000 - 40