

## format Hole punch for metal sheets

Hole punch for metal sheets, standard type, in special steel for tools, made up of matrix, punch and screw in compression.  
Function: for piercing different materials, like steel sheets, stainless steel, copper, brass and aluminium.  
Particularly suitable for points of difficult access, such as electric cabinets, instruments racks or similar.  
Piercing can be activated manually, through a control key, or assisted by hydraulic tools.



Code	€	Bore ø (mm)	Bore ø PG (mm)	Screw size	Max thickness (mm)
N602050012	◇	12,7	7	M8x1x40	1,5
N602050015	◇	15,2	9	M10x1x45	1,5
N602050016	◇	16	-	M10x1x45	2
N602050018	◇	18,6	11	M10x1x45	2
N602050020	◇	20	-	M10x1x45	2
N602050021	◇	20,4	13,5	M10x1x45	2
N602050022	◇	22	-	M10x1x45	2
N602050023	◇	22,5	16	M10x1x45	2
N602050025	◇	25	-	M10x1x45	2
N602050028	◇	28	-	M10x1x45	2
N602050029	◇	28,3	21	M12x1,5x55	2

Code	€	Bore ø (mm)	Bore ø PG (mm)	Screw size	Max thickness (mm)
N602050030	◇	30	-	M12x1,5x55	2
N602050032	◇	32	-	M12x1,5x55	2
N602050035	◇	35	-	M12x1,5x55	2
N602050037	◇	37	29	M12x1,5x55	2
N602050038	◇	38	-	M12x1,5x55	2
N602050040	◇	40	-	M12x1,5x55	2
N602050047	◇	47	36	M16x1,5x60	2
N602050051	◇	51	-	M16x1,5x60	3
N602050054	◇	54	42	M16x1,5x60	3
N602050060	◇	60	48	M16x1,5x60	3

## format Hole punch for metal sheets with ball bearing

Hole punch for metal sheets, ball-bearing type, in special steel for tools, made up of matrix, punch, ball bearing and screw in compression.  
Function: for piercing different materials, like steel sheets, stainless steel, copper, brass and aluminium.  
Particularly suitable for points of difficult access, such as electric cabinets, instruments racks or similar.  
Piercing can be activated manually, through a control key, or assisted by hydraulic tools.



Code	€	Bore ø (mm)	Bore ø PG (mm)	Screw size	Max thickness (mm)
N602100012	◇	12,7	7	-	1,5
N602100015	◇	15,2	9	M10x1x50	1,5
N602100016	◇	16	-	M10x1x50	2
N602100018	◇	18,6	11	M10x1x50	2
N602100020	◇	20	-	M10x1x50	2
N602100021	◇	20,4	13,5	M10x1x50	2
N602100022	◇	22	-	M10x1x50	2
N602100023	◇	22,5	16	M10x1x50	2
N602100025	◇	25	-	M10x1x50	2
N602100028	◇	28	-	M12x1,5x60	2
N602100029	◇	28,3	21	M12x1,5x60	2

Code	€	Bore ø (mm)	Bore ø PG (mm)	Screw size	Max thickness (mm)
N602100030	◇	30	-	M12x1,5	2
N602100032	◇	32	-	M12x1,5	2
N602100035	◇	35	-	M12x1,5	2
N602100037	◇	37	29	M12x1,5	2
N602100038	◇	38	-	M12x1,5x60	2
N602100040	◇	40	-	M12x1,5x60	2
N602100047	◇	47	36	M16x1,5x70	2
N602100051	◇	51	-	M16x1,5x70	3
N602100054	◇	54	42	M16x1,5x70	3
N602100060	◇	60	48	M16x1,5x70	3

## format Screws for hole punches

Spare screws for sheet metal piercers, hexagonal head, with or without bearing.



Code	€	Dimensions (mm)	Resistance	Bearing
N651180600	◇	M8x1x40	10,9	no
N651180800	◇	M10x1x45	12,9	no
N651181003	◇	M12x1,5x55	12,9	no
N651181600	◇	M16x1,5x60	12,9	no

Code	€	Dimensions (mm)	Resistance	Bearing
N651181000	◇	M10x1x50	12,9	yes
N651181200	◇	M12x1,5x60	12,9	yes
N651181603	◇	M16x1,5x70	12,9	yes

## USAG Metal sheet piercing and bending pliers

Metal sheets piercing and bending pliers, swivel head model for piercing and bending metal sheet edges to be welded, handle opening spring, plastic handles.



Code	€	Bore ø (mm)	Fold (mm)	Max thickness (mm)	Overall length (mm)
N650900005	◇	5	12	0,8	290

