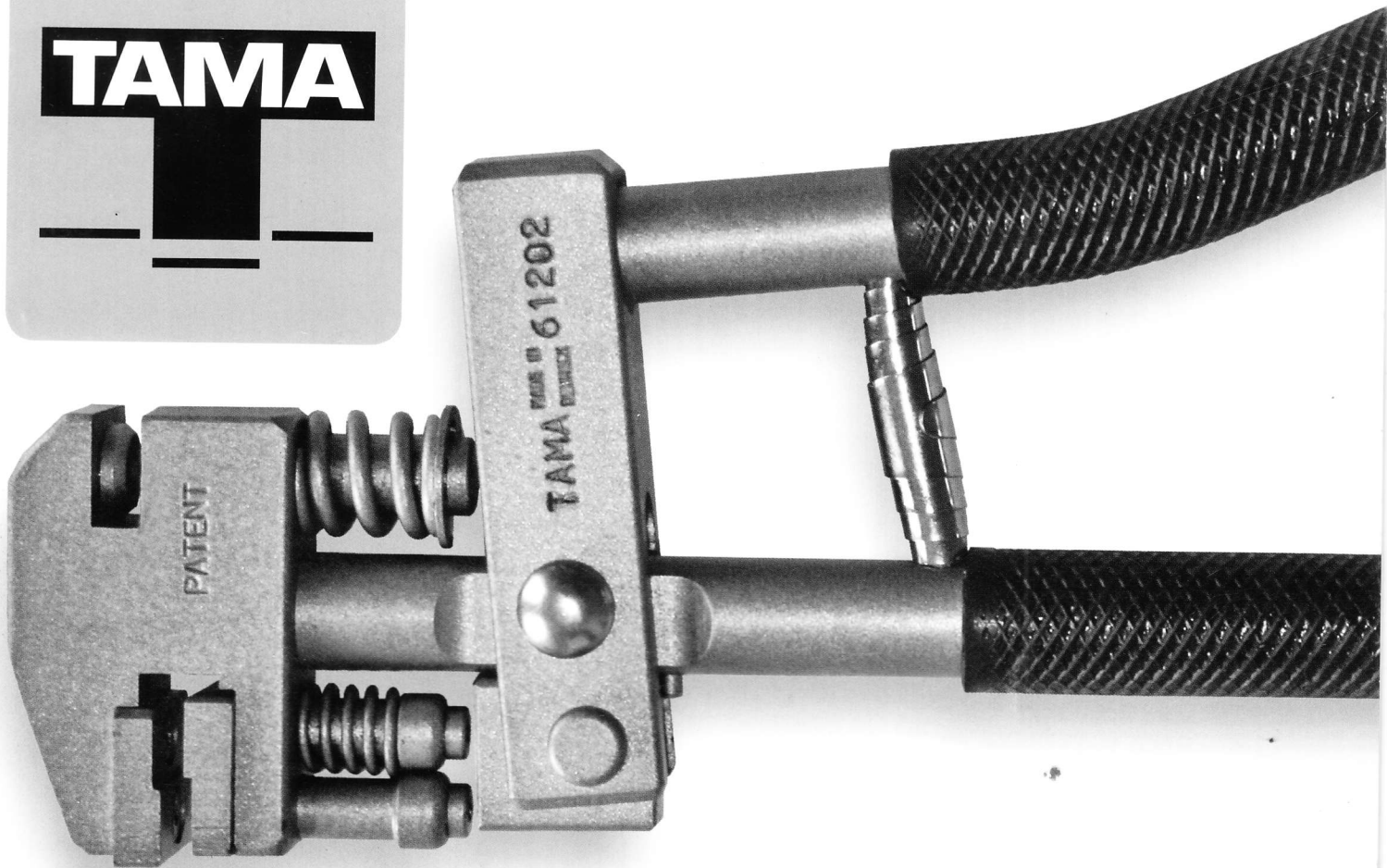
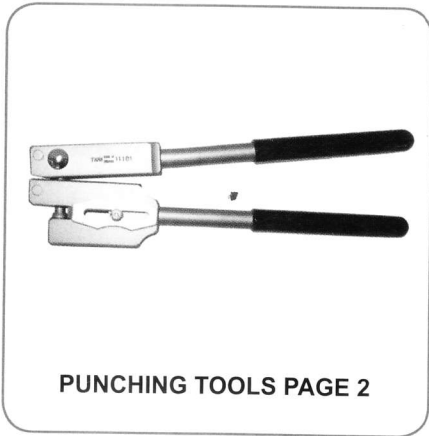


# TAMA



JOGGLER PAGE 2



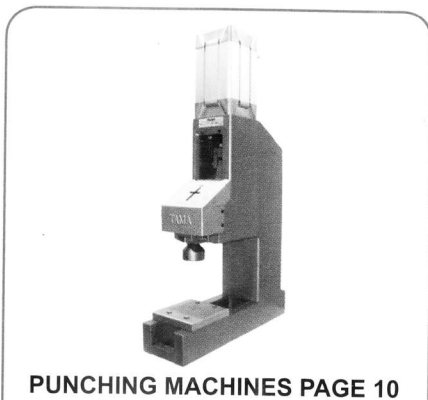
PUNCHING TOOLS PAGE 2



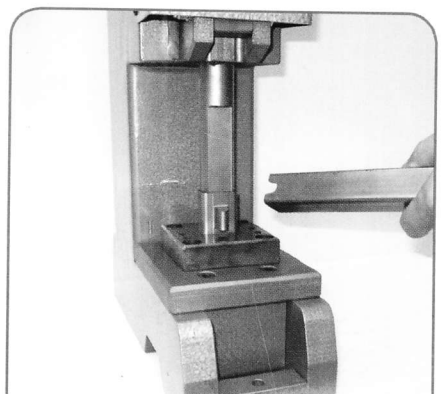
MANUAL PUNCHERS PAGE 7



DIN RAIL SHEARS PAGE 8



PUNCHING MACHINES PAGE 10



## PUNCHING TOOLS

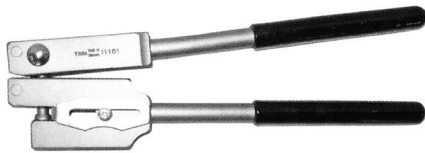


### JOGLLER 61 202

A useful tool for working car body components. The combined tool can be set for either punching or bending.

Available with 4-8 mm punches and dies as standard.

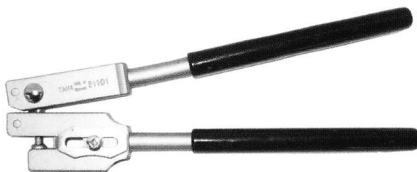
Capability in 1 mm standard mild steel	.....	ø 8 mm
Throat depth (punching)	.....	8 mm
Jaw width	.....	22 mm
Overall width	.....	110 mm
Bending depth	.....	13 mm
Overall length	.....	290 mm
Weight	.....	1.2 kg



### PUNCHING TOOL 11 101 SENIOR

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

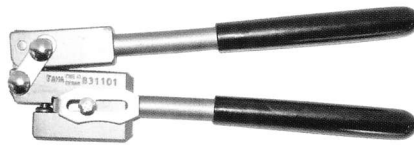
Capability in 1.5 mm standard mild steel	.....	ø 8 mm
Throat depth	.....	40 mm
Overall length	.....	320 mm
Weight	.....	1.8 kg



### PUNCHING TOOL 21 101 JUNIOR

Available with punches and dies from 2-5 mm, in 1/10 mm graduations.

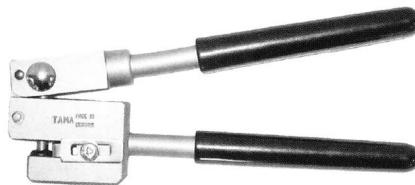
Capability in 1.5 mm standard mild steel	.....	ø 5 mm
Throat depth	.....	30 mm
Overall length	.....	250 mm
Weight	.....	1 kg



### HAND PUNCH B 31 101 JUNIOR

Available with punches and dies from 2-5 mm, in 1/10 mm graduations.

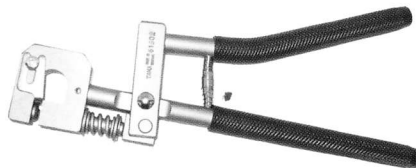
Capability in 1 mm standard mild steel	.....	ø 5 mm
Throat depth	.....	20 mm
Overall length	.....	200 mm
Weight	.....	0.8 kg



### PUNCHING TOOL D 31 203 JUNIOR

Available with punches and dies from 2-5 mm, in 1/10 mm graduations.

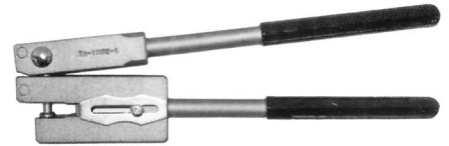
Capability in 1 mm standard mild steel	.....	ø 5 mm
Throat depth	.....	15 mm
Overall length	.....	170 mm
Weight	.....	0.4 kg



### PUNCHING TOOL 61 502 OVER FLANGES

For punching of guards. Can be supplied with punches and dies from 4-8 mm.

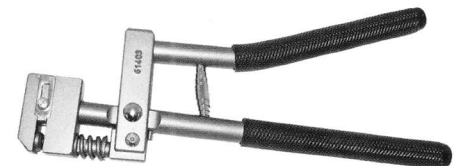
Capability in 1 mm standard mild steel	.....	ø 8 mm
Throat depth	.....	30 mm
Overall width	.....	85 mm
Overall length	.....	300 mm
Weight	.....	1 kg



### PUNCHING TOOL TN 11 102-1 FOR NUMBER PLATES - EXTRA THROAT

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

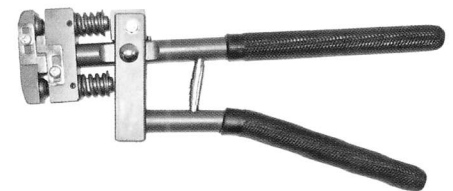
Capability in 1.25 mm standard mild steel	.....	ø 8 mm
Throat depth	.....	60 mm
Overall length	.....	330 mm
Weight	.....	1.8 kg



### PUNCHING TOOL 61 403 WITH RETURN SPRING

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1 mm standard mild steel	.....	ø 8 mm
Throat depth	.....	15 mm
Overall length	.....	290 mm
Weight	.....	1.2 kg

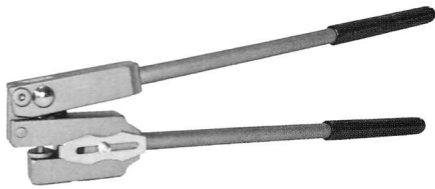


### PUNCHING TOOL 63 704 DOUBLE PUNCH

A combined tool which can accept two punches of different diameters. Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1 mm standard mild steel	.....	ø 8 mm
Throat depth	.....	15 mm
Overall length	.....	315 mm
Weight	.....	1.4 kg

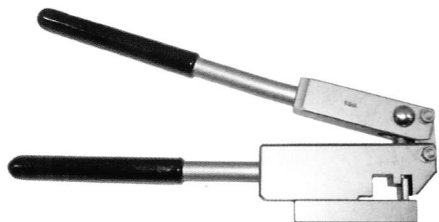
## PUNCHING TOOLS



### SLOT PUNCH 11 101A

Punching tool for oval holes 5 x 12 mm, 6 x 12 mm and 8 x 12 mm as standard.

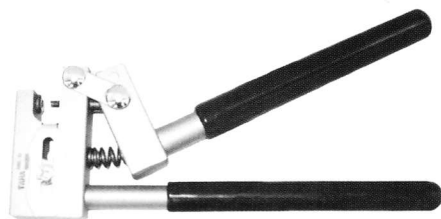
Max. mild steel. . . . . 1.5 mm  
Throat depth . . . . . 30 mm  
Overall length . . . . . 430 mm  
Weight . . . . . 2.2 kg



### SLOT PUNCH 11 101B

Punching tool for oval holes 6 x 20 mm as standard.

Max. mild steel. . . . . 0.8 mm  
Throat depth . . . . . 30 mm  
Overall length . . . . . 320 mm  
Weight . . . . . 2.2 kg



### PUNCHING TOOL 41 401 CURTAIN RAILS

Available with punches and dies from 2-5 mm, in 1/10 mm graduations. Specially developed for all profiled aluminium curtain rails.

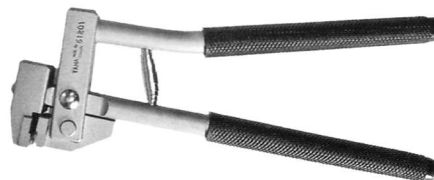
Overall length . . . . . 220 mm  
Weight . . . . . 0.9 kg



### PUNCHING/COUNTERSINKING 59 203

Punching and embossing in one operation. Special for 4 and 5 mm pop rivets, or as required.

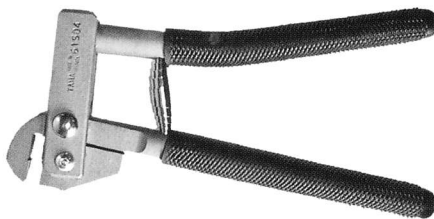
Capability in 1 mm standard  
mild steel . . . . .  $\varnothing$  5 mm  
Overall length . . . . . 290 mm  
Weight . . . . . 1.1 kg



### EDGE SETTER 61 201

A useful tool with hand-wearing rubber grips. The increased leverage makes work easier.

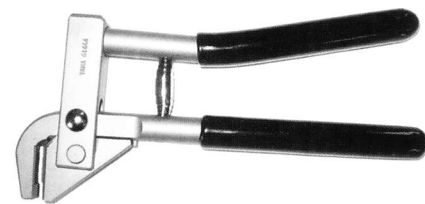
Max. mild steel. . . . . 1 mm  
Jaw width . . . . . 22 mm  
Bending width . . . . . 13 mm  
Overall length . . . . . 300 mm  
Weight . . . . . 1 kg



### EDGE SETTER 61 504 MINI

For working of small sheet edges – guards - panels - doors - parts etc. Bending tool - a good investment for bodywork repairs. The tool head is designed to enable folds to be made where the plate edges are very small.

Max. mild steel. . . . . 1 mm  
Jaw width. . . . . 10 mm  
Overall width . . . . . 90 mm  
Bending width . . . . . 13 mm  
Overall length . . . . . 220 mm  
Weight . . . . . 0.9 kg



### EDGE SETTER 61 444

For curves.

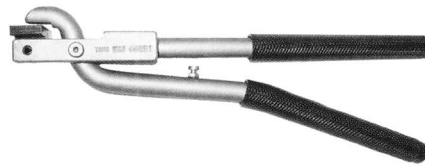
Max. mild steel. . . . . 1 mm  
Jaw width. . . . . 8 mm  
Bending depth – round jaws . . . . . 20 mm  
Overall length . . . . . 230 mm  
Weight . . . . . 0.9 mm



### FOLDING TOOL 61 608

Applicable to edge folding for bodywork welding. The possibility for protection against rust on the underside of the plate is an added advantage.

Max. mild steel. . . . . 1 mm  
Jaw width. . . . . 18 mm  
Overall width . . . . . 20 mm  
Overall length . . . . . 225 mm  
Weight . . . . . 0.8 kg



### DOOR SKIN EDGING TOOL 66 051

For joining sheets. Applicable for welding or gluing replacement panels on to bodies. A nylon pad prevents deformation of the flange on the outer side of the sheet.

Width of nylon pad. . . . . 40 mm  
Overall length . . . . . 310 mm  
Weight . . . . . 1.2 kg

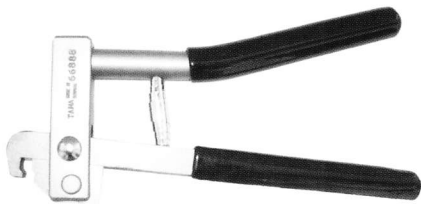
## PUNCHING TOOLS



**PLANNISHING  
TOOL FOR DOORLOCKS  
66 500**

Adjusting tool for vehicle door locks.

Jaw width . . . . . 10 mm  
Overall length . . . . . 210 mm  
Weight . . . . . 0.9 kg



**PLANNISHING TOOL  
FOR DOORLOCKS GOLF III  
66 888**

Adjusting tool for vehicle door locks.

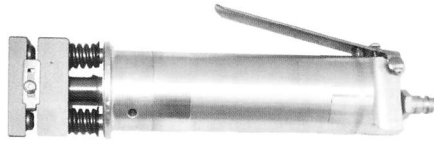
Jaw width . . . . . 10 mm  
Overall length . . . . . 210 mm  
Weight . . . . . 0.9 kg



**PNEUMATIC PUNCHER  
63 302**

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.  
An easy and useful puncher for thin plate work.

Capability in 1 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 15 mm  
Punching force . . . . . 550 kg  
Working pressure . . . . . 8 bar  
Diameter - body . . . . . 58 mm  
Overall length . . . . . 240 mm  
Weight . . . . . 1.3 kg



**PNEUMATIC PUNCHER  
63 805**

A combined tool which can accept two punches of different diameters.  
Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

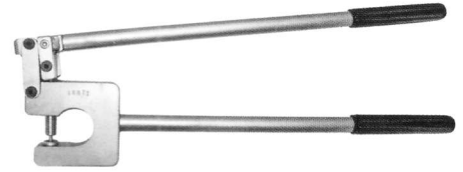
Capability in 1 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 15 mm  
Punching force . . . . . 550 kg  
Working pressure . . . . . 8 bar  
Diameter - body . . . . . 58 mm  
Overall length . . . . . 223 mm  
Weight . . . . . 1.3 kg



**PNEUMATIC COMBINED  
BENDING/PUNCHING TOOL  
63 301**

The ideal tool for bodywork component applications.  
The tool can rotate for optimum working position.  
Available with punches and dies from 4-8 mm as standard.

Capability in 1 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Bending capability . . . . . 0.8 - 1 mm  
Jaw width . . . . . 22 mm  
Punching force . . . . . 550 kg  
Working pressure . . . . . 8 bar  
Diameter - body . . . . . 58 mm  
Overall length . . . . . 240 mm  
Weight . . . . . 1.4 kg



**PUNCHING TOOL 18 022  
WITH LARGE STROKE**

Accurate punch guides enable e.g. oval and square tools to be mounted.  
Available with punches and dies from 2-10 mm, in 1/10 mm graduations.

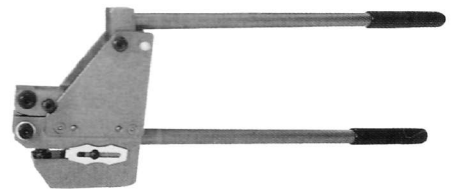
Capability in 2 mm standard  
mild steel . . . . .  $\varnothing$  10 mm  
Throat depth . . . . . 50 mm  
Overall height . . . . . 150 mm  
Overall width . . . . . 60 mm  
Stroke . . . . . 35 mm  
Overall length . . . . . 550 mm  
Weight . . . . . 4 kg



**PUNCHING TOOL 11 210  
10 MM DIAMETER**

Available with punches and dies from 2-10 mm, in 1/10 mm graduations.  
Special form punches, e.g. oval and square, also available.

Capability in 1.5 mm standard  
mild steel . . . . .  $\varnothing$  10 mm  
Throat depth . . . . . 40 mm  
Overall height . . . . . 90 mm  
Overall width . . . . . 50 mm  
Overall length . . . . . 450 mm  
Weight . . . . . 3.5 kg

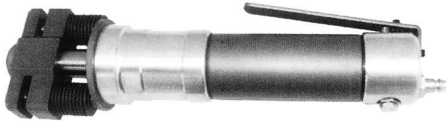


**PUNCHING TOOL 11 102  
FOR HEAVY SHEET**

The ideal tool for punching holes up to  $\varnothing$  10 mm.  
Available with punches and dies from 2-10 mm, in 1/10 mm graduations.  
Special form punches, e.g. oval and square, also available.

Capability in 3 mm standard  
mild steel . . . . .  $\varnothing$  10 mm  
Throat depth . . . . . 40 mm  
Overall height . . . . . 160 mm  
Overall width . . . . . 50 mm

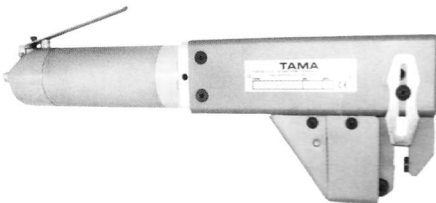
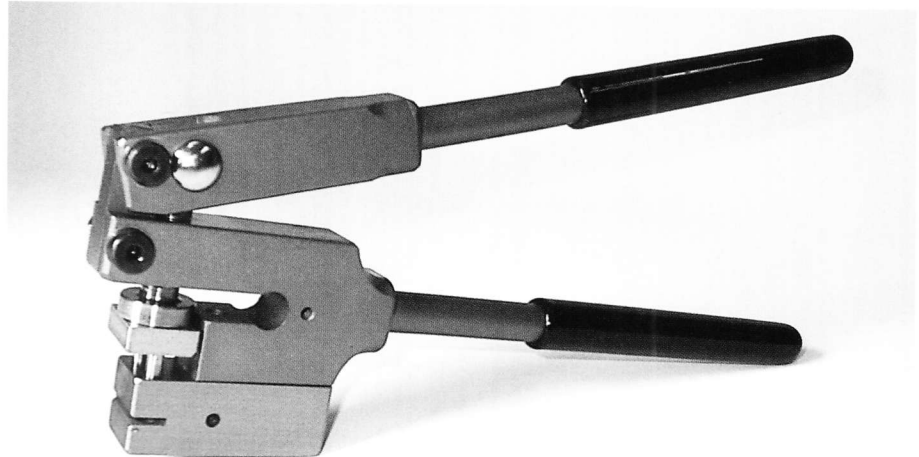
## PUNCHING TOOLS



### PNEUMATIC/HYDRAULIC TOOL 63 470

The combined tool head accepts two different punch sizes.

Capability in 1.75 mm standard  
mild steel . . . . .  $\varnothing$  10 mm  
Diameter - body . . . . . 70 mm  
Overall length . . . . . 400 mm  
Weight . . . . . 4 kg

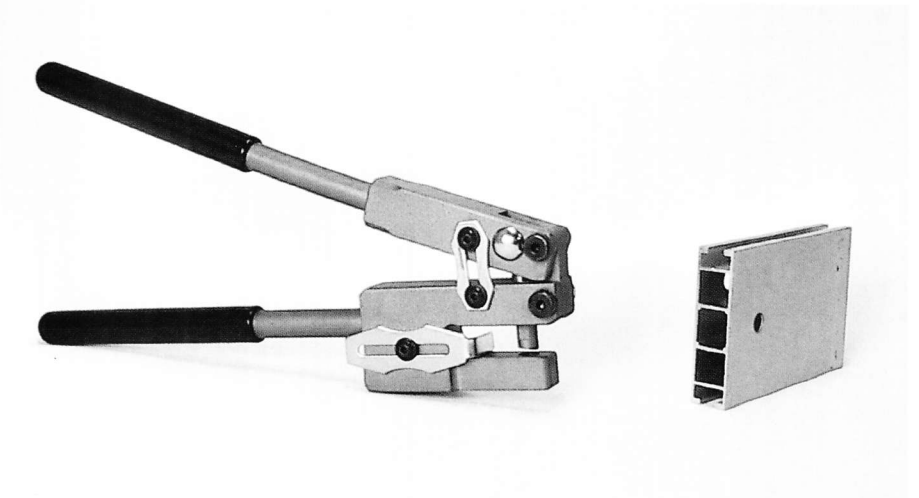
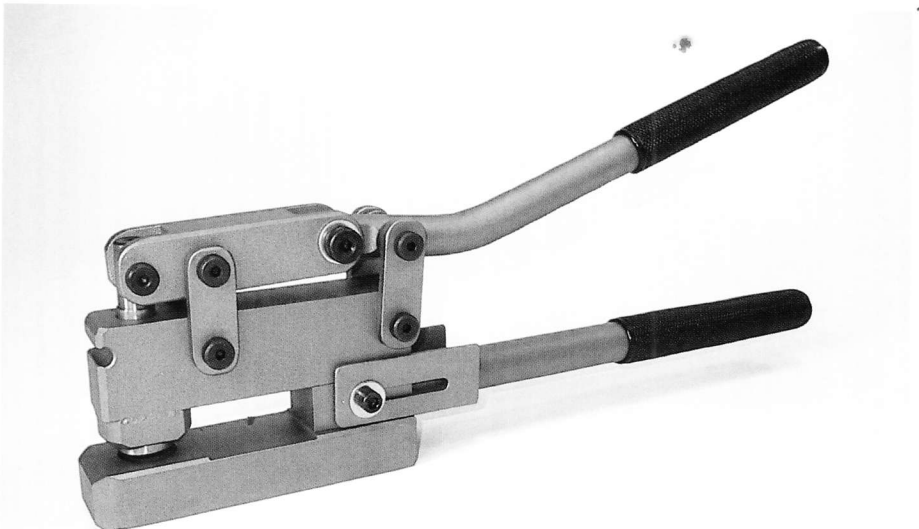
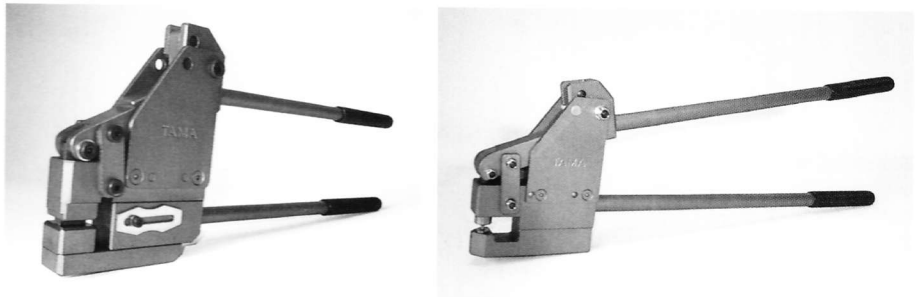


### PORTABLE PNEUMATIC PUNCHER TR 13 101

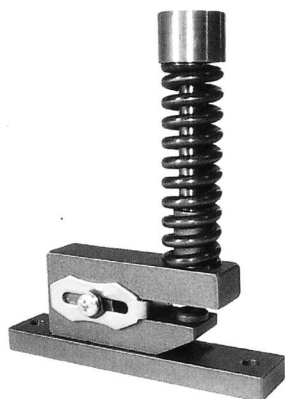
As easy and useful puncher for thin sheet work.

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 40 mm  
Punching force . . . . . 800 kg  
Working pressure . . . . . 8 bar  
Overall length . . . . . 320 mm  
Weight . . . . . 4 kg



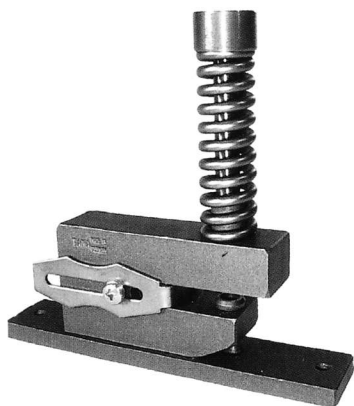
# PUNCHERS



## PRESS BRAKE PUNCHER TD 25 101 JUNIOR

These punches can be mounted in parallel on a common base plate.  
Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 2 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 30 mm  
Overall height . . . . . 138 mm  
Overall width . . . . . 25 mm  
Weight . . . . . 0.8 kg



## PRESS BRAKE PUNCHER TU 15 102 SENIOR

These punches can be mounted in parallel on a common base plate.  
Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

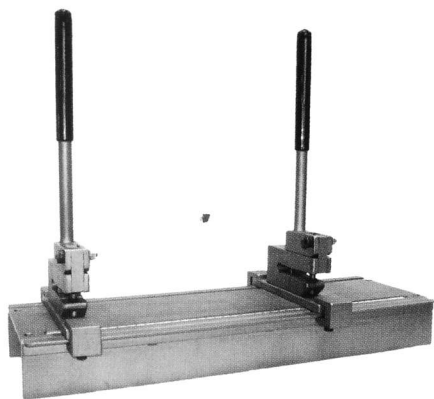
Capability in 2 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 40 mm  
Overall height . . . . . 146 mm  
Overall width . . . . . 30 mm  
Weight . . . . . 1.2 kg



## PUNCHER 12 101 SENIOR

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 40 mm  
Overall width . . . . . 40 mm  
Overall length . . . . . 380 mm  
Weight . . . . . 1.5 kg



## DUAL PUNCHER TO 12 601 FOR NUMBER PLATES

Twin punches mounted on a common base plate which contains a millimetre scale for adjusting distance between hole centres.  
Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

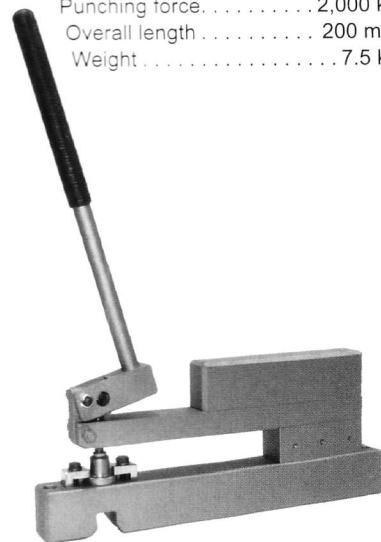
Capability in 1.25 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 60 mm  
Weight . . . . . 10 kg



## PUNCHER 11 203 FOR HEAVY DUTY WORK

The ideal machine for punching holes up to  $\varnothing$  10 mm.  
Available with punches and dies from 2-10 mm, in 1/10 mm graduations.  
Non-circular cross-section punches, e.g. square, oval, also available.

Capability in 3 mm standard  
mild steel . . . . .  $\varnothing$  10 mm  
Throat depth . . . . . 40 mm  
Overall height . . . . . 700 mm  
Overall width . . . . . 80 mm  
Punching force . . . . . 2,000 kg  
Overall length . . . . . 200 mm  
Weight . . . . . 7.5 kg

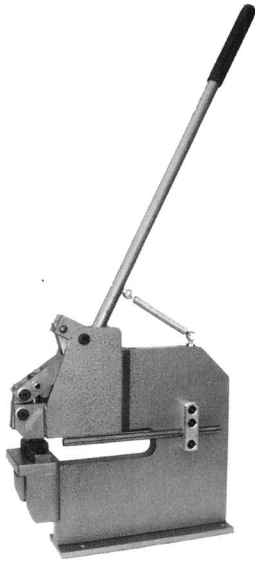


## PUNCHER 12 102

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.  
Non-circular cross-section punches, e.g. square, oval, also available. These punches can be mounted in parallel on a common base plate. Suitable for small batch quantities.

Capability in 1.5 mm standard  
mild steel . . . . .  $\varnothing$  8 mm  
Throat depth . . . . . 150 mm  
Overall width . . . . . 40 mm  
Weight . . . . . 7 kg

# PUNCHERS

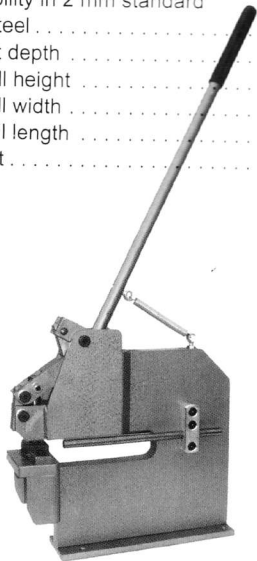


**BENCH MOUNTED  
MANUAL PUNCHER 11 405**

The ideal machine for small batch quantities. The accurate punch-guide system allows the use of oval, square, or other non-circular cross-section tools. A small but effective machine.

Standard tools from 2-18 mm, in 1/10 mm graduations.

Capability in 2 mm standard mild steel	.....	∅ 18 mm
Throat depth	.....	180 mm
Overall height	.....	1,000 mm
Overall width	.....	100 mm
Overall length	.....	340 mm
Weight	.....	24 kg



**BENCH MOUNTED  
MANUAL PUNCHER 11 801**

The ideal machine for small batch quantities. The accurate punch-guide system allows the use of oval, square, or other non-circular cross-section tools. A small but effective machine.

Standard tools from 2-18 mm, in 1/10 mm graduations.

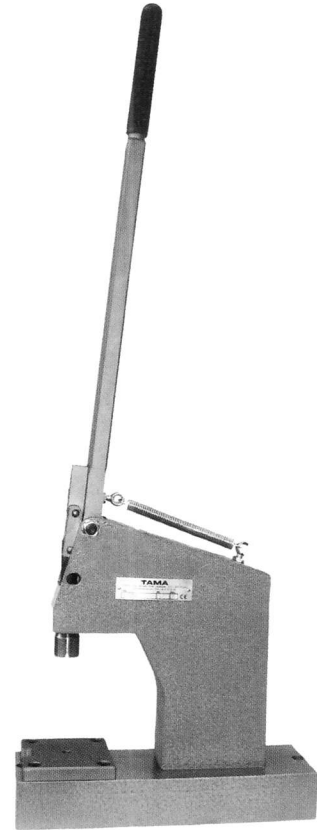
Capability in 2 mm standard mild steel	.....	∅ 18 mm
Throat depth	.....	300 mm
Overall height	.....	1,000 mm
Overall width	.....	100 mm
Overall length	.....	500 mm



**HAND PUNCHER 11 304**

The ideal tool for small batch orders. The accurate punch guide system allows the use of oval square, or other cross-section tools. A small but effective machine.

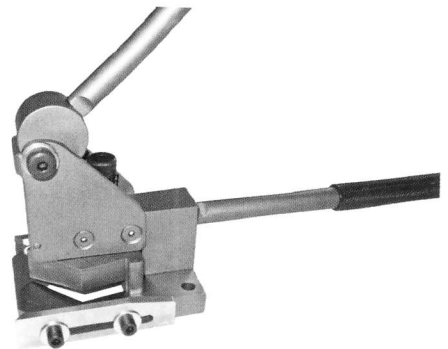
Capability in 3 mm standard mild steel	.....	∅ 10 mm
Throat depth	.....	40 mm
Overall height	.....	830 mm
Overall width	.....	120 mm
Overall length	.....	210 mm
Weight	.....	15 kg



**HAND PUNCHER 18 016**

The accurate punch guide system allows the use of oval, square, or other cross-section tools.

Throat depth	.....	100 mm
Stroke	.....	35 mm
Building in height	.....	95 mm
Overall height	.....	920 mm
Overall width	.....	130 mm
Punching force	.....	2,150 kg
Overall length	.....	310 mm
Weight	.....	28 kg

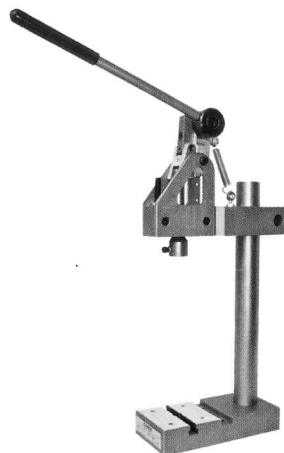


**HAND NOTCHER 11 555  
PORTABLE**

Cut out corners at 90°.

Max. mild steel	.....	40 x 40 x 1.25 mm
Weight	.....	3.5 kg

## PUNCHERS AND DIN RAIL SHEARS



### STANDARD DIRECT ACTION PRESS 2001

With stroke length limit stop and return spring. Adaptor with 15 mm  $\phi$  location. Handle can be mounted for left or right hand use and the start position adjustable through 360°.

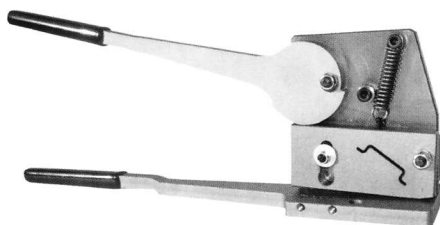
Throat depth ..... 110 mm  
 Stroke ..... 35 mm  
 Building in height ..... 140 mm  
 Table size ..... 100 x 100 mm  
 Punching force ..... 500 kg  
 Column diameter ..... 40 mm  
 Weight ..... 9 kg  
 Extra column height available.



### STANDARD DIRECT ACTION PRESS 2002

With stroke length limit stop and return spring. Adaptor with 15 mm  $\phi$  location. Handle can be mounted for left or right hand use and the start position adjustable through 360°.

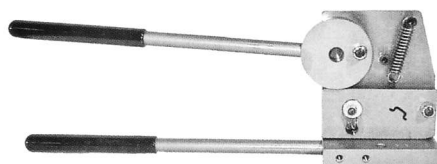
Throat depth ..... 110 mm  
 Stroke ..... 35 mm  
 Building in height ..... 200 mm  
 Table size ..... 160 x 140 mm  
 Punching force ..... 500 kg  
 Column diameter ..... 40 mm  
 Weight ..... 12 kg  
 Extra column height available.



### DIN RAIL SHEAR 30 002

Hand shear for cutting to length of DIN rails 35 x 7.5 x 1 mm.

Weight ..... 2.1 kg



### DIN RAIL SHEAR 30 003

Hand shear for cutting to length of DIN rails 15 x 5.5 x 1 mm.

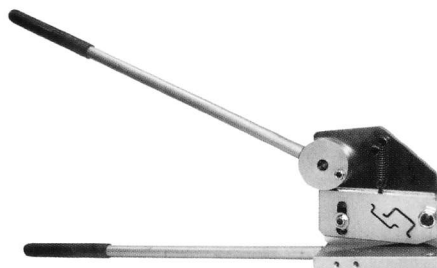
Weight ..... 2.1 kg



### DIN RAIL SHEAR 30 004

Hand shear for cutting to length of DIN rails 35 x 15 x 1.5 mm

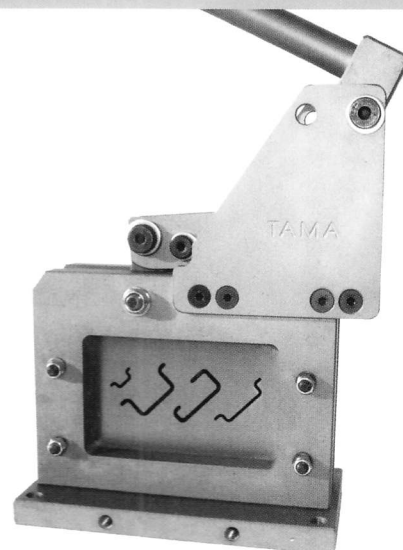
Weight ..... 4.5 kg



### DIN RAIL SHEAR 30 024 TWO PROFILES

Hand shear for cutting to length of DIN rails 35 x 7.5 x 1 mm and 35 x 15 x 1.5 mm.

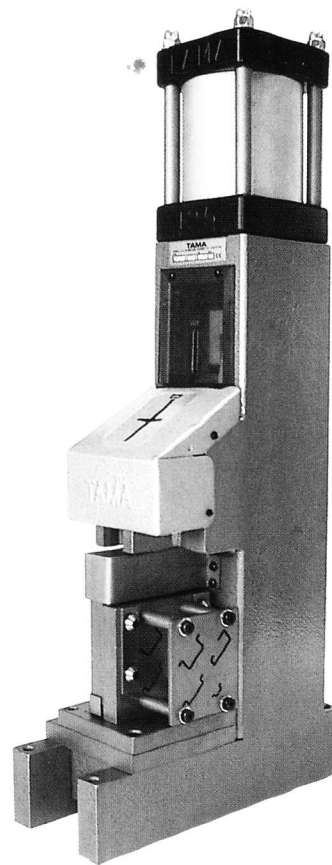
Weight ..... 5 kg



### DIN RAIL SHEAR 30 006

Hand shear for burr free cutting to length of four standard DIN-profiles in one tool. Easy to operate.

Weight ..... 12 kg



### PNEUMATIC PUNCHING MACHINE 30 010 DIN RAIL SHEAR

Punching machine for cutting to length of four standard DIN-profiles in one tool.

Weight ..... 72 kg



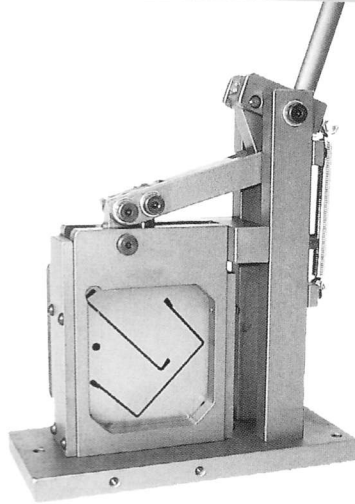
# HAND SHEARS



**HAND SHEAR 30 045**

Hand shear for cutting to length of round bar  
 $\varnothing$  3 – 4 – 5 and 6 mm.

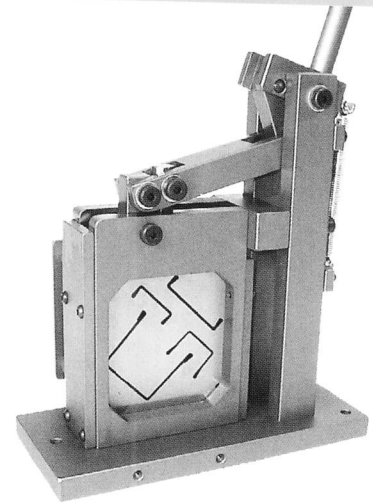
Weight . . . . . 2.5 kg



**HAND SHEAR 30 005**

Hand shear for burr free cutting to length  
of cable channels. Two profiles in one tool.  
Easy to operate.

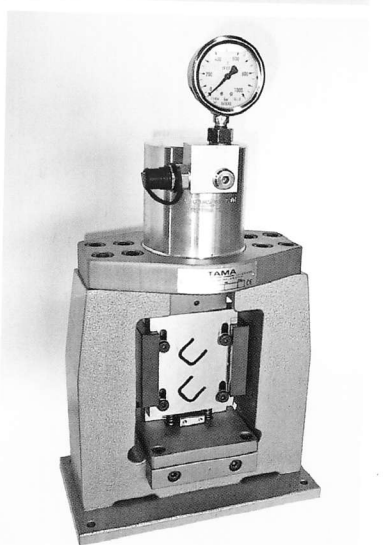
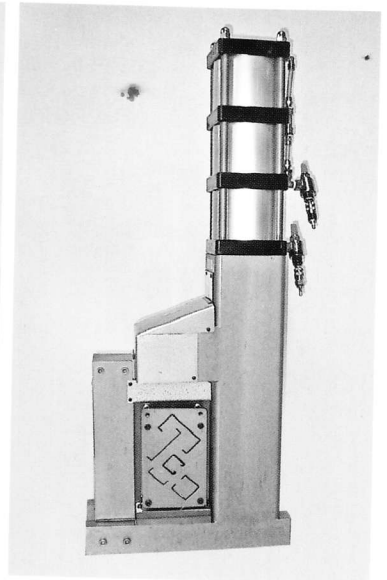
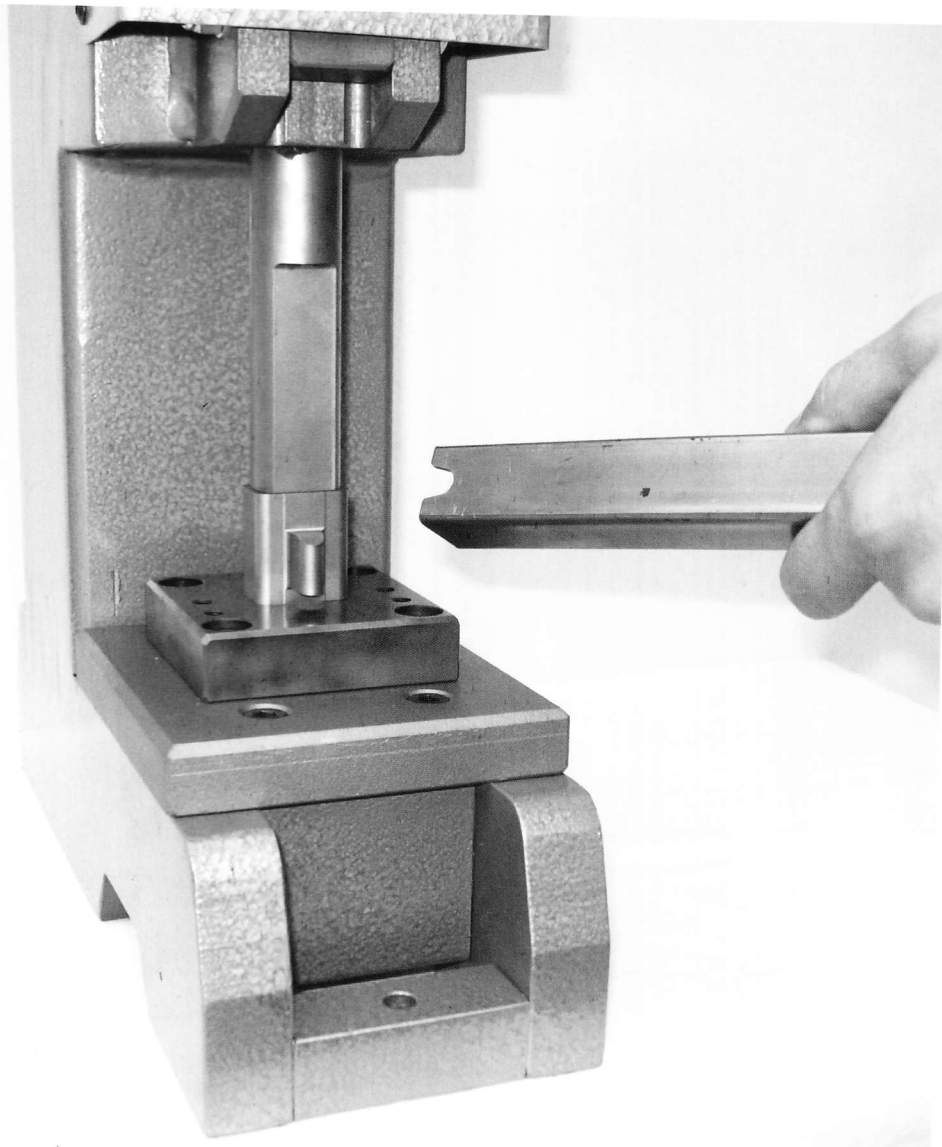
Weight . . . . . 22 kg



**HAND SHEAR 30 005**

Hand shear for burr free cutting to length  
of cable channels. Four profiles in one tool.  
Easy to operate.

Weight . . . . . 22 kg



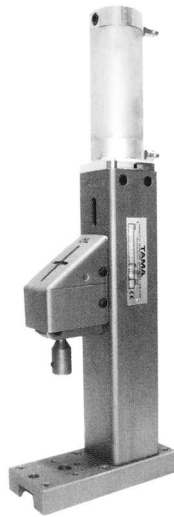
# PNEUMATIC PUNCHING MACHINES



**PNEUMATIC PUNCHING MACHINE TT 23 101**

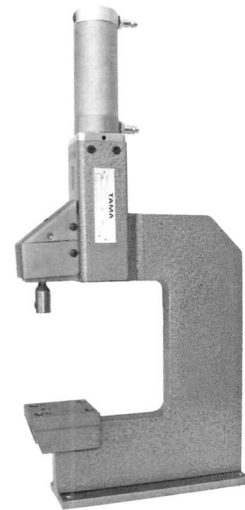
Available with punches and dies from 2-5 mm, in 1/10 mm graduations.

Capability in 1.0 mm standard mild steel . . . . .  $\varnothing$  5 mm  
 Punching force . . . . . 260 kg  
 Throat depth . . . . . 30 mm  
 Length of stroke . . . . . 8 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 45 x 145 x 307 mm  
 Weight . . . . . 2.4 kg



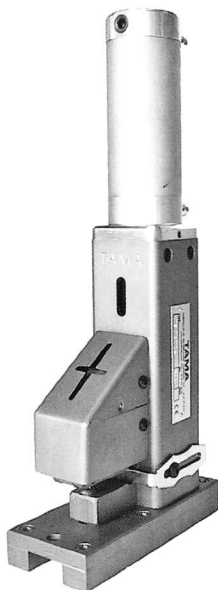
**PNEUMATIC PUNCHING MACHINE TS 15 200**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  8 mm  
 Punching force . . . . . 800 kg  
 Throat depth . . . . . 40 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 70 x 165 x 470 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 7 kg



**PNEUMATIC PUNCHING MACHINE TS 16 400**

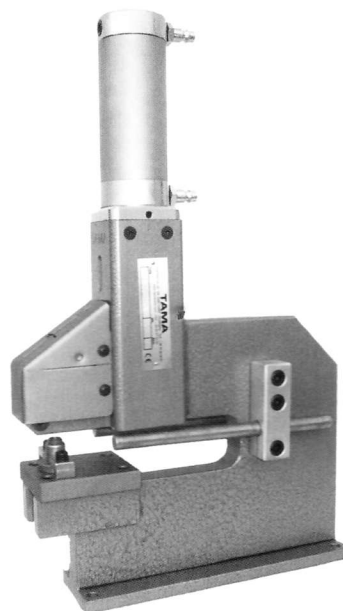
Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  8 mm  
 Punching force . . . . . 800 kg  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 70 x 280 x 580 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 15 kg



**PNEUMATIC PUNCHING MACHINE TS 13 102**

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  8 mm  
 Punching force . . . . . 800 kg  
 Throat depth . . . . . 40 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 70 x 165 x 375 mm



**PNEUMATIC PUNCHING MACHINE TH 63 106**

Available with punches and dies from 2-8 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  8 mm  
 Punching force . . . . . 800 kg  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 70 x 245 x 455 mm

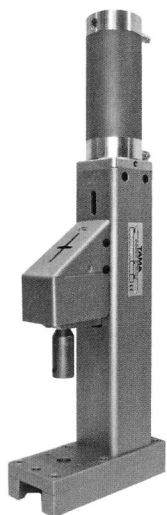


**PNEUMATIC PUNCHING MACHINE FF 11 222**

Available with punches and dies from 2-10 mm, in 1/10 mm graduations.

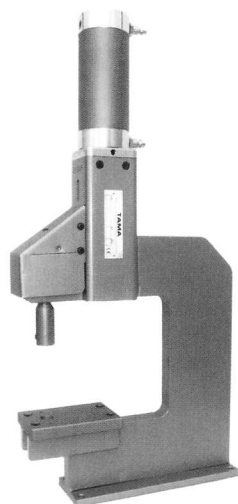
Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  10 mm  
 Punching force . . . . . 1.2 ton  
 Throat depth . . . . . 40 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 80 x 185 x 430 mm

## PNEUMATIC PUNCHING MACHINES



**PNEUMATIC PUNCHING MACHINE FF 11 333**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  10 mm  
 Punching force . . . . . 1.2 ton  
 Throat depth . . . . . 40 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 80 x 185 x 550 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 13 kg



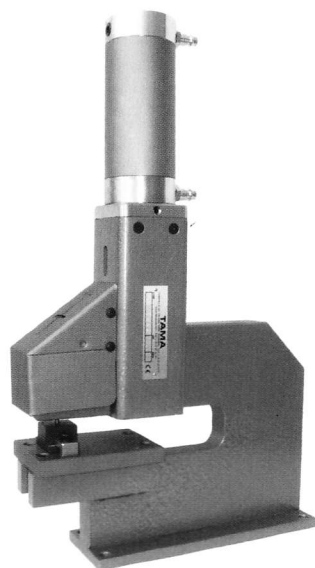
**PNEUMATIC PUNCHING MACHINE FF 11 888**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  10 mm  
 Punching force . . . . . 1.2 ton  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 80 x 310 x 630 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 19 kg



**PNEUMATIC PUNCHING MACHINE TY-1 63 105**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  18 mm  
 Punching force . . . . . 2.1 ton  
 Throat depth . . . . . 55 mm  
 Length of stroke . . . . . 12 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 100 x 250 x 691 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 28 kg



**PNEUMATIC PUNCHING MACHINE FF 11 444**

Available with punches and dies from 2-10 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  10 mm  
 Punching force . . . . . 1.2 ton  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 10 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 80 x 310 x 510 mm  
 Weight . . . . . 15 kg



**PNEUMATIC PUNCHING MACHINE TW 63 101**

Available with punches and dies from 2-18 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  18 mm  
 Punching force . . . . . 2.1 ton  
 Throat depth . . . . . 55 mm  
 Length of stroke . . . . . 12 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 100 x 240 x 544 mm  
 Weight . . . . . 24 kg

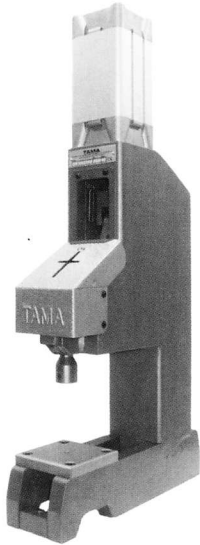


**PNEUMATIC PUNCHING MACHINE TW-1 63 102**

Available with punches and dies from 2-18 mm, in 1/10 mm graduations.

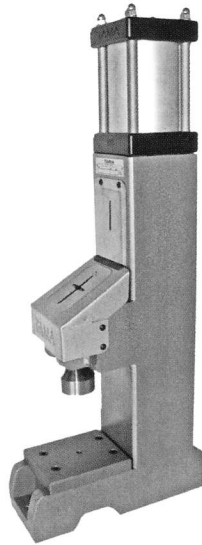
Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  18 mm  
 Punching force . . . . . 2.1 ton  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 12 mm  
 Working pressure . . . . . .8 bar  
 W-D-H . . . . . 100 x 340 x 540 mm  
 Weight . . . . . 34 kg

## PNEUMATIC PUNCHING MACHINES



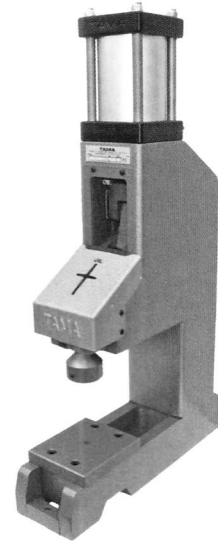
**PNEUMATIC PUNCHING MACHINE TY-1 63 100**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  18 mm  
 Punching force . . . . . 2.1 ton  
 Throat depth . . . . . 150 mm  
 Length of stroke . . . . . 12 mm  
 Working pressure . . . . . 8 bar  
 W-D-H . . . . . 100 x 350 x 691 mm  
 Building in height . . . . . 95 mm  
 Weight . . . . . 35 kg



**PNEUMATIC PUNCHING MACHINE TZ 63 107**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  28 mm  
 Punching force . . . . . 3.2 ton  
 Throat depth . . . . . 65 mm  
 Length of stroke . . . . . 13 mm  
 Working pressure . . . . . 8 bar  
 W-D-H . . . . . 120 x 320 x 770 mm  
 Building in height . . . . . 115 mm  
 Weight . . . . . 50 kg



**PNEUMATIC PUNCHING MACHINE TT 63 116**

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  28 mm  
 Punching force . . . . . 3.2 ton  
 Throat depth . . . . . 180 mm  
 Length of stroke . . . . . 13 mm  
 Working pressure . . . . . 8 bar  
 W-D-H . . . . . 120 x 440 x 770 mm  
 Building in height . . . . . 115 mm  
 Weight . . . . . 60 kg



**PNEUMATIC PUNCHING MACHINE TX 63 103**

Available with punches and dies from 2-28 mm, in 1/10 mm graduations.

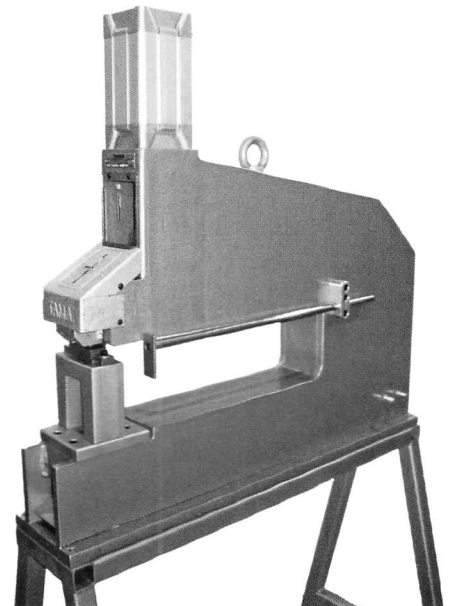
Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  28 mm  
 Punching force . . . . . 3.2 ton  
 Throat depth . . . . . 65 mm  
 Length of stroke . . . . . 13 mm  
 Working pressure . . . . . 8 bar  
 W-D-H . . . . . 120 x 285 x 623 mm



**PNEUMATIC PUNCHING MACHINE TX-1 63 104**

Available with punches and dies from 2-28 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  28 mm  
 Punching force . . . . . 3.2 ton  
 Throat depth . . . . . 180 mm  
 Length of stroke . . . . . 13 mm  
 Working pressure . . . . . 8 bar  
 W-D-H . . . . . 120 x 405 x 523 mm  
 Weight . . . . . 55 kg

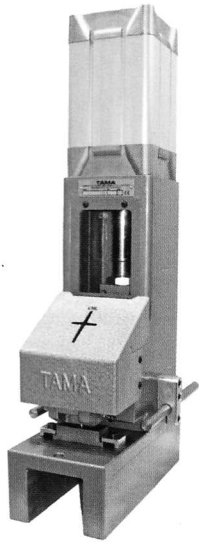


**PNEUMATIC PUNCHING MACHINE TO 20 204**

Available with punches and dies from 2-28 mm, in 1/10 mm graduations.

Capability in 1.5 mm standard mild steel . . . . .  $\varnothing$  28 mm  
 Punching force . . . . . 3.2 ton  
 Throat depth . . . . . 500 mm  
 Length of stroke . . . . . 13 mm  
 Working pressure . . . . . 8 bar  
 W-D-H ex. stand . . . . . 200 X 930 X 860 mm  
 Weight . . . . . 215 kg

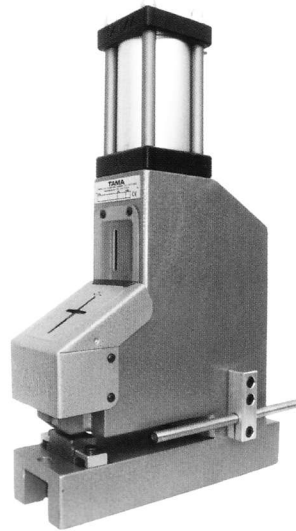
## PNEUMATIC PUNCHING MACHINES



**PNEUMATIC PUNCHING MACHINE  
TE 7777**

Available with punches and dies from  
2-28 mm, in 1/10 mm graduations.

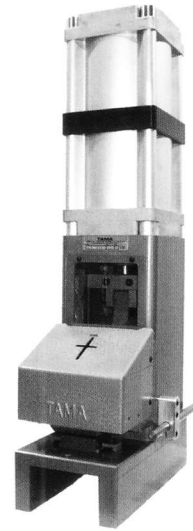
Capability in 2.0 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 5 ton  
Throat depth . . . . . 65 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 140 x 310 x 675 mm  
Weight . . . . . 55 kg



**PNEUMATIC PUNCHING MACHINE  
TE 6666**

Available with punches and dies from  
2-28 mm, in 1/10 mm graduations.

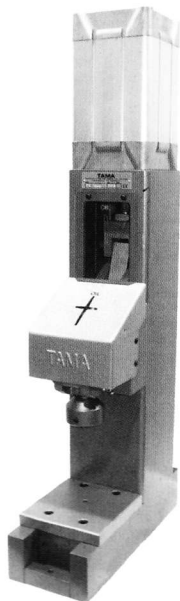
Capability in 2.0 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 5 ton  
Throat depth . . . . . 200 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 140 x 450 x 675 mm  
Weight . . . . . 60 kg



**PNEUMATIC PUNCHING MACHINE  
TB 64 111 D**

Available with punches and dies from  
2-28 mm, in 1/10 mm graduations.

Capability in 3.5 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 12 ton  
Throat depth . . . . . 65 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 180 x 350 x 854 mm  
Weight . . . . . 70 kg



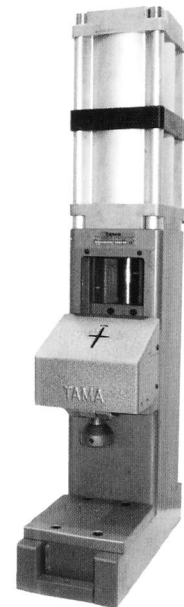
**PNEUMATIC PUNCHING MACHINE  
TE 4444**

Capability in 2.0 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 5 ton  
Throat depth . . . . . 65 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 140 x 350 x 827 mm  
Building in height . . . . . 135 mm  
Weight . . . . . 60 kg



**PNEUMATIC PUNCHING MACHINE  
TE 5555**

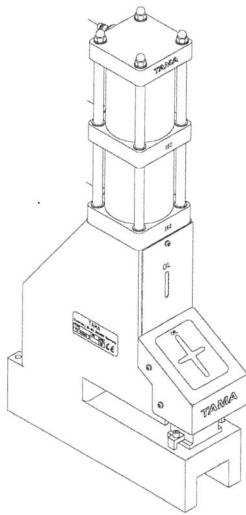
Capability in 2.0 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 5 ton  
Throat depth . . . . . 200 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 140 x 490 x 827 mm  
Building in height . . . . . 135 mm  
Weight . . . . . 68 kg



**PNEUMATIC PUNCHING MACHINE  
TB 64 122 D**

Capability in 3.5 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 12 ton  
Throat depth . . . . . 65 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . 8 bar  
W-D-H . . . . . 180 x 420 x 1,006 mm  
Building in height . . . . . 135 mm  
Weight . . . . . 80 kg

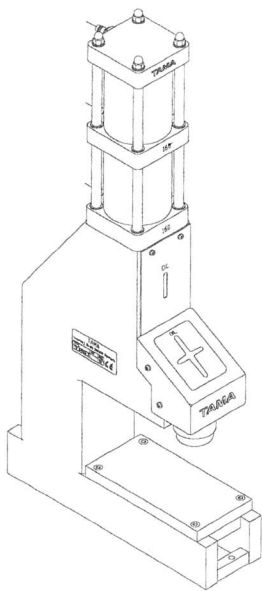
# PNEUMATIC PUNCHING MACHINES



**PNEUMATIC PUNCHING MACHINE  
TB 64 666 D**

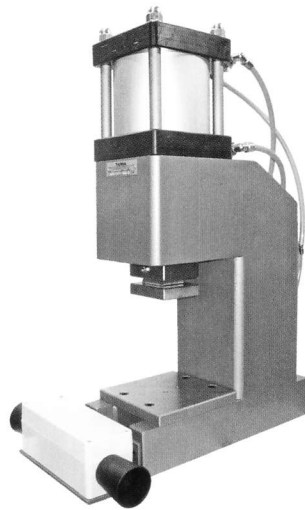
Available with punches and dies from  
2-28 mm, in 1/10 mm graduations.

Capability in 3.5 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 12 ton  
Throat depth . . . . . 240 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . .8 bar  
W-D-H . . . . . 180 x 530 x 894 mm  
Weight . . . . . 80 kg



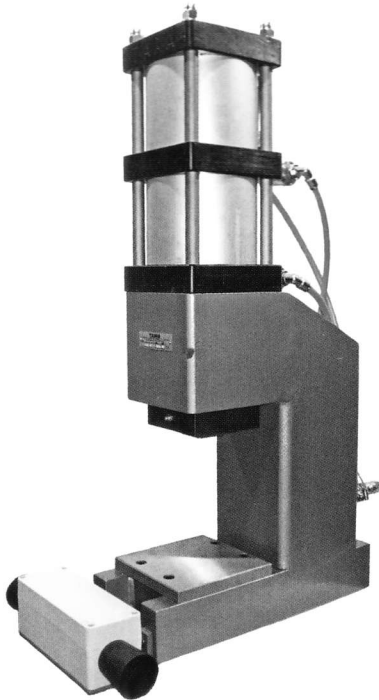
**PNEUMATIC PUNCHING MACHINE  
TB 64 888 D**

Capability in 3.5 mm standard  
mild steel . . . . .  $\varnothing$  28 mm  
Punching force . . . . . 12 ton  
Throat depth . . . . . 240 mm  
Length of stroke . . . . . 13 mm  
Working pressure . . . . . .8 bar  
W-D-H . . . . . 180 x 600 x 1,046 mm  
Building in height . . . . . 135 mm



**PNEUMATIC PUNCHING  
MACHINE DS 160**

Punching force . . . . . 1.4 ton  
Throat depth . . . . . 85 mm  
Length of stroke . . . . . 50 mm  
Working pressure . . . . . .8 bar  
Weight . . . . . 50 kg



**PNEUMATIC PUNCHING  
MACHINE DS 160 D**

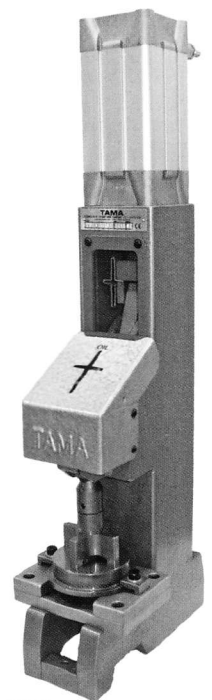
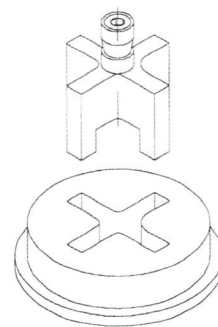
Punching force . . . . . 2.8 ton  
Throat depth . . . . . 85 mm  
Length of stroke . . . . . 50 mm  
Working pressure . . . . . .8 bar  
Weight . . . . . 60 kg



**NOTCHING MACHINE  
VK 10 001**

Machine for notching 50 x 50 mm in 90°.

Max. mild steel . . . . . 1.5 mm  
Punching force . . . . . 3.2 ton  
Working pressure . . . . . .8 bar  
W-D-H . . . . . 120 x 320 x 730 mm  
Weight . . . . . 46 kg

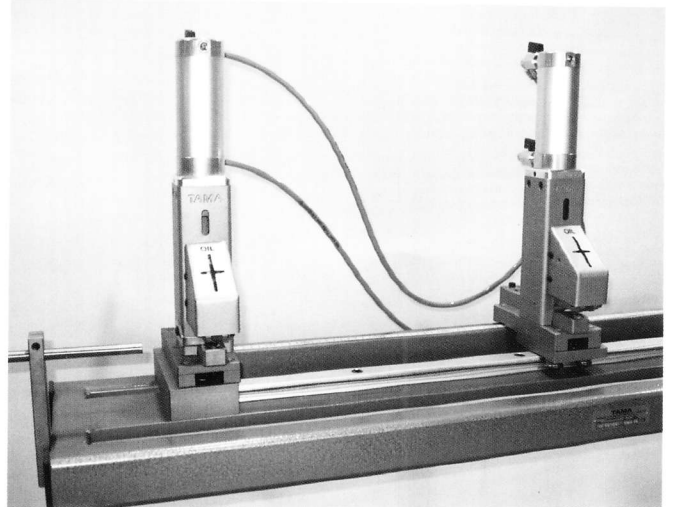
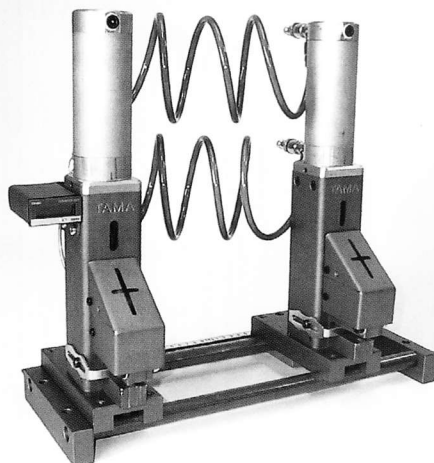
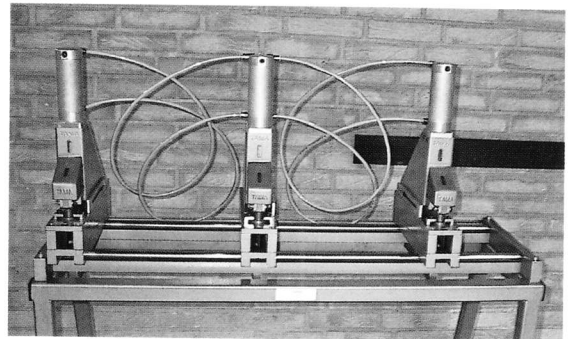
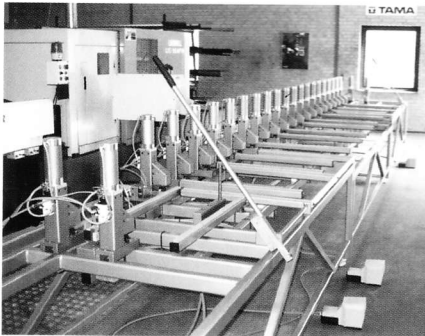
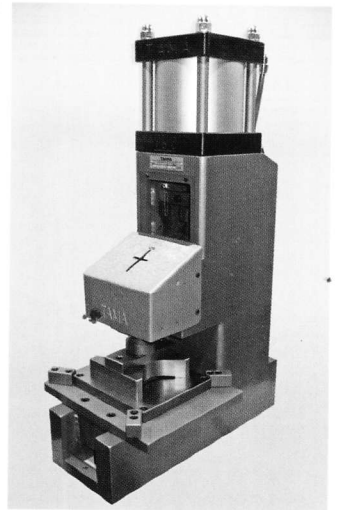
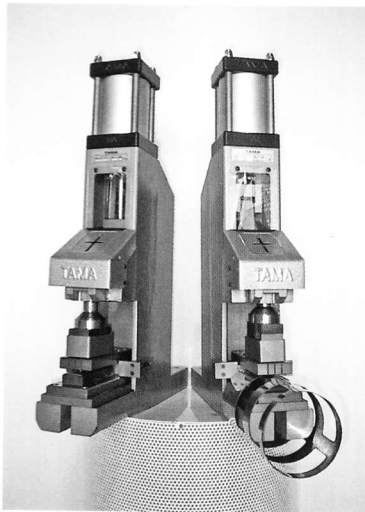
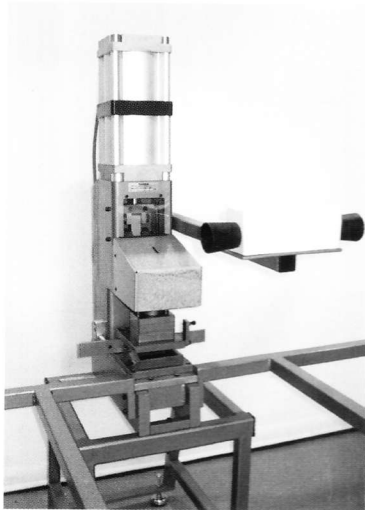
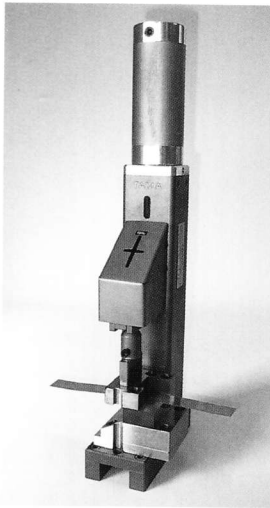
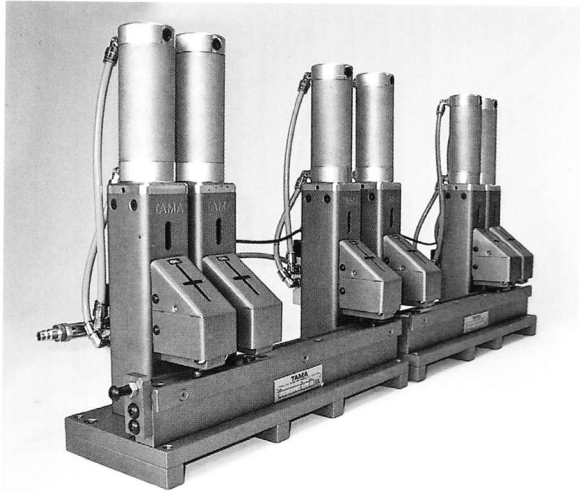


**CORNERING  
PNEUMATIC PUNCHING  
MACHINE VK 10 100**

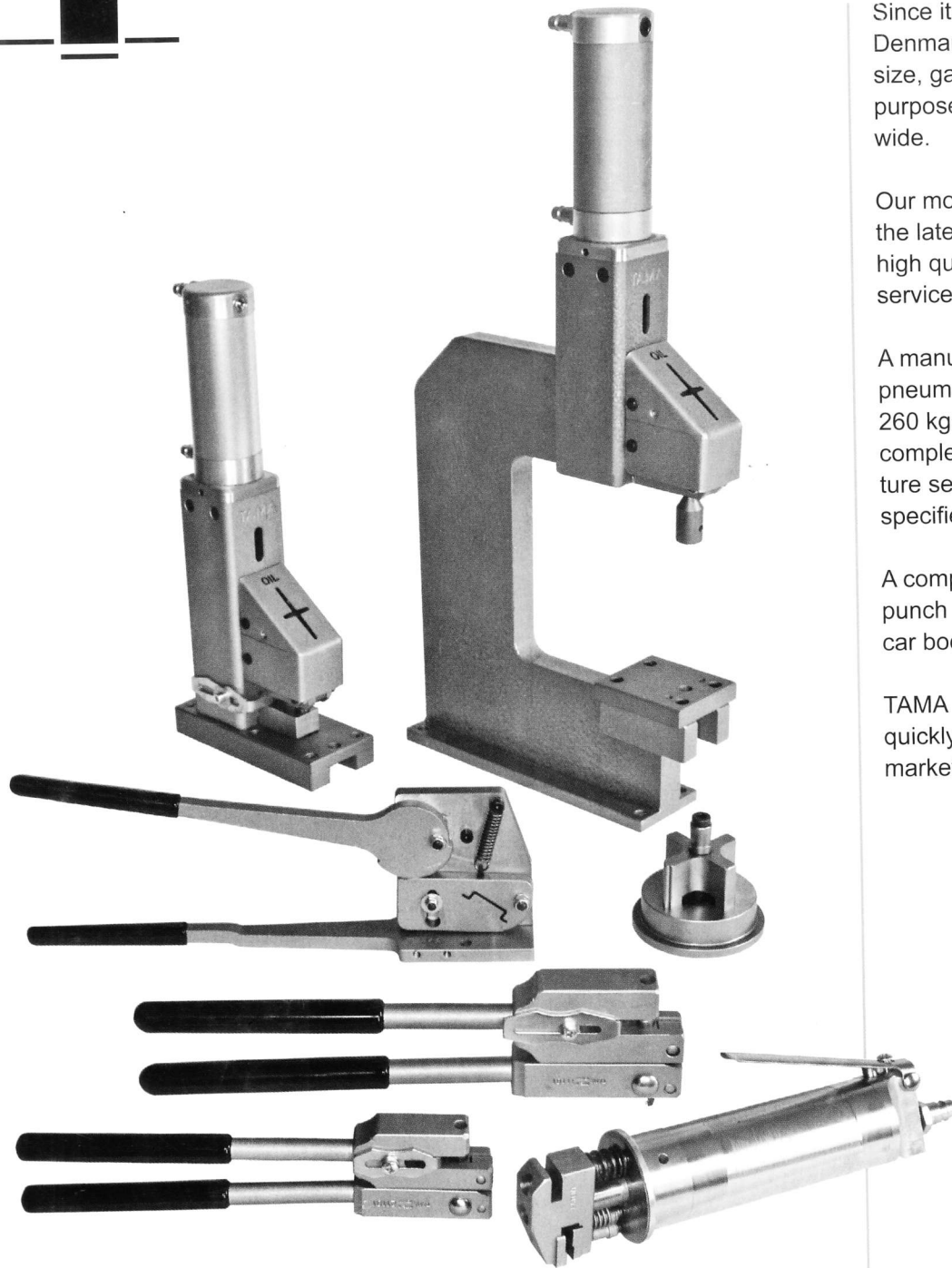
Machine mounted with a radius tool  
6-8-10-14 mm for cornering.  
Available with other radius tools.

Max. mild steel . . . . . 3 mm  
Punching force . . . . . 2.1 ton  
Working pressure . . . . . .8 bar  
W-D-H . . . . . 100 x 250 x 725 mm

# GALLERY



# TAMA



Since its inception in 1970 TAMA Denmark has steadily grown in size, gaining a reputation for special purpose punching equipment world-wide.

Our modern factory equipped with the latest technology, guarantees high quality workmanship and service.

A manufacturer of bench mounted pneumatic air lever presses, from 260 kgs to 16000 kgs, supporting a complete tool design and manufacture service that can be customer specified.

A comprehensive manual and hand punch programme with a focus on car body repair tools.

TAMA is flexible enough to respond quickly to the demands of a world market and our loyal customers.

## TAMA ApS

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