



# 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

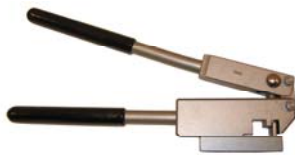


# PUNCHING TOOLS



**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 an embossing in one operation. Special for 4 and 5 mm pop rivets, or as required.  
Capability in 1 mm standard mild steel..... $\phi$  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 – door – 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 111  
66 888**

Adjusting tool for vehicle door locks.  
Jaw width .....10 mm  
Overall length .....210 mm  
Weight ..... 0.9 kg



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

The ideal tool for bodywork component applications. Available with punches and dies from 4-8 mm as standard. The tool can rotate for optimum working position.  
Capability in 1 mm standard  
mild steel.....ø 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



**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 ..... ø 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 witch 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  
Punching force.....550 kg  
Working pressure.....8 bar  
Diameter - body ..... 58 mm  
Overall length ..... 223 mm  
Weight .....1.3 kg



# PUNCHING TOOLS



**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..... $\phi$  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..... $\phi$  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  $\phi$  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 .....  $\phi$  10 mm  
Throat depth.....40 mm  
Overall height.....160 mm  
Overall width.....50 mm  
Punching force.....2,000 kg  
Overall length.....590 mm  
Weight.....6 kg



**PNEUMATIC/HYDRAULIC  
TOOL 63 470**

The combined tool head accepts two different punch sizes.  
Capability in 1.75 mm standard mild steel.....  $\phi$  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 .....  $\phi$  8 mm  
Throat depth .....40 mm  
Punching force .....800 kg  
Working pressure .....8 bar  
Overall length .....320 mm  
Weight .....4 kg



# PUNCHER



**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..... $\phi$  8 mm  
Throat depth .....30 mm  
Overall height .....138 mm  
Overall width .....25 mm  
Weight ..... 0.8 kg



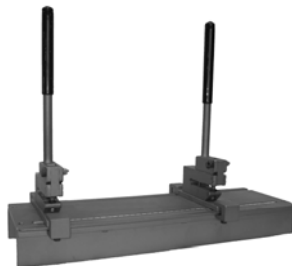
**PRESS BRAKE  
PUNCHER TU 15 102  
SENIOR**

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..... $\phi$  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..... $\phi$  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..... $\phi$  8 mm  
Throat depth..... 60 mm  
Weight.....10 kg



**PUNCHER 11 203  
FOR HEAVY DUTY WORK**

The ideal machine for punching holes up to  $\phi$  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..... $\phi$  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..... $\phi$  8 mm  
Throat depth .....150 mm  
Overall width .....40 mm  
Weight ..... 7 kg



# PUNCHER



## 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..... $\phi$  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 WITH 300 MM THROAT

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..... $\phi$  18 mm  
Throat depth ..... 300 mm  
Overall height ..... 1,000 mm  
Overall width ..... 100 mm  
Overall length ..... 500 mm  
Weight ..... 35 kg



# MANUAL PUNCHER



**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..... $\varnothing$  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<sup>0</sup>.  
Max. sheet st.37 ..... 40 x 40 x 1.25 mm  
Weight .....3.5 kg



**STANDARD DIRECT ACTION  
PRESS 2001**

With stroke length limit stop. With precision adjusting adaptor. With return spring. All presses mounted with a fixed punch. All action presses the handle is mounted from the side adjustable 360<sup>0</sup> – left and right.

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. With precision adjusting adaptor. With return spring. All presses mounted with a fixed punch. All action presses the handle is mounted from the side adjustable 360<sup>0</sup> – left and right.

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.





# HAND SHEARS



**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 PROFILE**

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



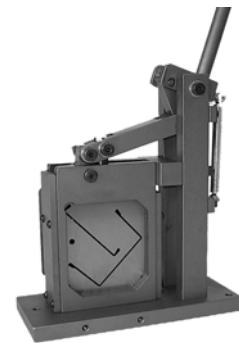
**PNEUMATIC PUNCHING  
MACHINE 30 010  
DIN RAIL SHEAR**

Punching machine for cutting to length of four standard DIN-profiles in one tool.  
Weight..... 72 kg



**HAND SHEARS 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 MACHINE



**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..... $\phi$  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 .....  $\phi$  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..... $\phi$  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..... $\phi$  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  
 Weight ..... 6 kg



**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 .....  $\phi$  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  
 Weight ..... 13 kg



**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..... $\phi$  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  
 Weight ..... 11 kg



# PNEUMATIC PUNCHING MACHINE



**PNEUMATIC PUNCHING MACHINE FF 11 333**

Capability in 1.5 mm standard mild steel..... $\phi$  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 .....  $\phi$  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..... $\phi$  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..... $\phi$  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 .....  $\phi$  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..... $\phi$  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 MACHINE



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

Capability in 1.5 mm standard mild steel..... $\phi$  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 .....  $\phi$  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..... $\phi$  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..... $\phi$  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  
 Weight ..... 35 kg



**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 .....  $\phi$  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..... $\phi$  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 MACHINE



**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..... $\phi$  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..... $\phi$  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..... $\phi$  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..... $\phi$  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..... $\phi$  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

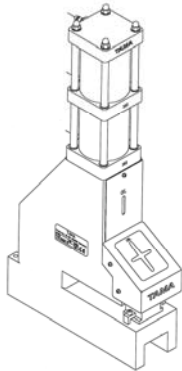


**PNEUMATIC PUNCHING MACHINE TB 64 122 D**

Capability in 3.5 mm standard mild steel..... $\phi$  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

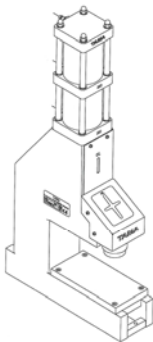


# PNEUMATIC PUNCHING MACHINE



**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  
 Weight ..... 90 kg



**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



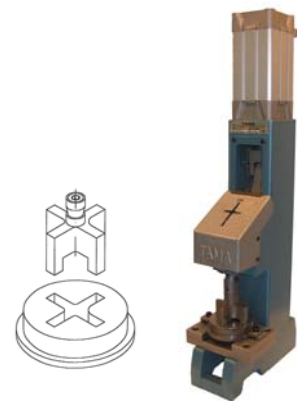
**PNEUMATIC PUNCHING MACHINE DS 160 D**

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  
 Weight ..... 31 kg



# PNEUMATIC PUNCHING MACHINE



# PNEUMATIC PUNCHING MACHINE