ALFRA - PUNCHER

TIME-SAVING QUALITY TOOLS

1. Hydraulic hand puncher made out of high-tensile aluminium (approx. 40% weight saving)
2. Angular head, 360° rotatable
3. Pressure-relief valve – protects against overload
4. Ergonomic handle – springs back automatically
5. 3-fold splitter – no jamming of drop-off pieces
6. Punches and dies of every PG and metric size
Compact hand hydraulic – Sets

In aluminium version – weight only 1.6 kg • Made in Germany by ALFRA

Practical hand punch without hose and cylinder. Ideal for workshop and assembly.

Punching capacity

<table>
<thead>
<tr>
<th>Round holes up to Ø 85 mm</th>
<th>2.0 mm F = 370 N/mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 64 mm</td>
<td></td>
</tr>
<tr>
<td>Square holes Ø 68 x 68 mm</td>
<td>2.0 mm F = 370 N/mm²</td>
</tr>
<tr>
<td>Rectangular holes 36 x 112 mm</td>
<td>2.0 mm F = 370 N/mm²</td>
</tr>
</tbody>
</table>

Steel sheets

| Round holes up to Ø 64 mm | 2.5 mm F = 600 N/mm² |

Stainless steel sheets

Weight: 1.6 kg
Punching force: 75 kN
Operating pressure max: 650 bar

Compact hand hydraulic

Complete in transport case
Content: 1 Aluminium compact hand hydraulic punch
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 11 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punch set PG

for mild steel (F = 370 N/mm²)

Complete in transport case
Content: 1 Aluminium compact hand hydraulic punch
8 Standard punches and dies
PG 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 11 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punching set Tristar PG

for mild steel (F = 370 N/mm²)

Complete in transport case
Content: 1 Aluminium compact hand hydraulic punch
9 Tristar punches and dies
PG 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42 - 48
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punching set Tristar Set – Metric

for mild steel (F = 370 N/mm²)

Complete in transport case
Content: 1 Hydraulic punch type Compact aluminium
5 Tristar punches and dies M 16 - M 40
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)
Compact hand hydraulic punching set
Tristar metric
Prod.-No. 01758

for mild steel (F = 370 N/mm²)

Complete in transport case
Content:
1 Aluminium compact hand hydraulic punch
7 Tristar punches and dies M 16 - M 63
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 - 50.5 - 63.5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punching set
Tristar Plus PG
Prod.-No. 01650

for mild steel (F = 370 N/mm²) and stainless steel

Complete in transport case
Content:
1 Aluminium compact hand hydraulic punch
8 Tristar Plus punches and dies
PG 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11.1 mm
1 HSS pre-drill Ø 11.5 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punching set
Tristar Plus Set – Metric
Prod.-No. 01642

for mild steel (F = 370 N/mm²) and stainless steel

Complete in transport case
Inhalt:
1 Hydraulic punch type Compact aluminium
5 Tristar Plus punches and dies M 16 - M 40
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11.1 mm
1 HSS pre-drill Ø 11.5 mm
1 Set of distance bushes (3 pieces)

Compact hand hydraulic punching set
Tristar Plus Metric
Prod.-No. 01654

for mild steel (F = 370 N/mm²) and stainless steel

Complete in transport case
Inhalt:
1 Aluminium compact hand hydraulic punch
7 Tristar Plus punches and dies M 16 - M 63
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 - 50.5 - 63.5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11.1 mm
1 HSS pre-drill Ø 11.5 mm
1 Set of distance bushes (3 pieces)

Inch sizes are available on request
Compact Combi hand hydraulic – Sets

Made in Germany by ALFRA

With 90° bent and 360° rotatable cylinder head. In aluminium version – weight only 1.9 kg

Especially suitable for congested spatial conditions.
Easy positioning of the die on the cross hairs due to single-handed operation.

<table>
<thead>
<tr>
<th>Punching capacity</th>
<th>Steel sheets</th>
<th>Stainless steel sheets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round holes up to Ø 85 mm</td>
<td>Ø 64 mm</td>
<td>Ø 64 mm</td>
</tr>
<tr>
<td>Square holes 68 x 68 mm</td>
<td>Rectangular holes 36 x 112 mm</td>
<td></td>
</tr>
<tr>
<td>Round holes up to Ø 64 mm</td>
<td>2.0 mm F = 370 N/mm²</td>
<td>3.0 mm F = 370 N/mm²</td>
</tr>
<tr>
<td>Weight:</td>
<td>1.9 kg</td>
<td>Punching force: 75 kN</td>
</tr>
<tr>
<td>Operating pressure max:</td>
<td>650 bar</td>
<td></td>
</tr>
</tbody>
</table>

**Compact Combi hand hydraulic**

Prod.-No. 02050

Complete in transport case
Content: 1 Compact Combi hand hydraulic punches
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 11 mm
1 Set of distance bushes (3 pieces)

**Compact Combi Hand hydraulic punching set PG**

Prod.-No. 02052

for mild steel (F = 370 N/mm²)

Complete in transport case
Content: 1 Compact Combi hand hydraulic punches
10 Standard punches and dies PG 7 - 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42 - 48
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 11 mm
1 Set of distance bushes (3 pieces)

**Compact Combi hand hydraulic Tristar PG punching set**

Prod.-No. 01753

for mild steel (F = 370 N/mm²)

Complete in transport case
Content: 1 Compact Combi hand hydraulic punches
9 Tristar punches and dies PG 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42 - 48
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)

**Compact Combi hand hydraulic set Tristar Set – Metric**

Prod.-No. 01766

for mild steel (F = 370 N/mm²)

Complete in transport case
Inhalt: 1 Hydraulic punch type Compact Combi aluminium
5 Tristar punches and dies M 16 - M 40
Ø 16,2 - 20,4 - 25,4 - 32,5 - 40,5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9.5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)

Excess pressure valve
Extended tool life owing to a built-in pressure control valve.
"Automatic pressure switch off at 650 bar”

Inch sizes are available on request
Compact Combi hand hydraulic
Tristar metric punching set
Prod.-No. 01759
Complete in transport case
Inhalt:
1 Compact Combi hand hydraulic punches
7 Tristar punches and dies M 16 - M 63
Ø 16,2 - 20,4 - 25,4 - 32,5 - 40,5 - 50,5 - 63,5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 9,5 mm
1 HSS pre-drill Ø 10 mm
1 Set of distance bushes (3 pieces)

Compact Combi hand hydraulic
Tristar Plus PG punching set
Prod.-No. 01651
Complete in transport case
Content:
1 Compact Combi hand hydraulic puncher
8 Tristar punches and dies
PG 9 - 11 - 13 - 16 - 21 - 29 - 36 - 42
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11,1 mm
1 HSS pre-drill Ø 11,5 mm
1 Set of distance bushes (3 pieces)

Compact-Combi hand hydraulic set
Tristar Plus Set – Metric
Prod.-No. 01643
Complete in transport case
Content:
1 Hydraulic punch type Compact Combi aluminium
5 Tristar Plus punches and dies M 16 - M 40
Ø 16,2 - 20,4 - 25,4 - 32,5 - 40,5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11,1 mm
1 HSS pre-drill Ø 11,5 mm
1 Set of distance bushes (3 pieces)

Compact Combi hand hydraulic
Tristar Plus Metric punching set
Prod.-No. 01655
Complete in transport case
Content:
1 Compact Combi hand hydraulic puncher
7 Tristar Plus punches and dies M 16 - M 63
Ø 16,2 - 20,4 - 25,4 - 32,5 - 40,5 - 50,5 - 63,5 mm
1 Hydraulic screw Ø 19 mm
1 Hydraulic screw Ø 19 x 11,1 mm
1 HSS pre-drill Ø 11,5 mm
1 Set of distance bushes (3 pieces)

For further supplementary sets see Page 24
Supplementary sets

Puncher set
Tristar metric
Prod.-No. 01762
for mild steel (F = 370 N/mm²) (without illustration)
Complete in transport case
Content: 5 Tristar punches and dies M 16 - M 40
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 mm

Puncher set
Tristar Plus Set – Metric
Prod.-No. 01652
for mild steel (F = 370 N/mm²) and stainless steel
Complete in transport case
Inhalt: 5 Tristar Plus punches and dies M 16 - M 40
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 mm

Supplementary sets

Puncher set
Tristar metric
Prod.-No. 01757
for mild steel (F = 370 N/mm²) (without illustration)
Complete in transport case
Content: 7 Tristar punch and dies M 16 - M 63
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 - 50.5 - 63.5 mm

Puncher set
Tristar Plus Metric
Prod.-No. 01653
for mild steel (F = 370 N/mm²) and stainless steel
Complete in transport case
Content: 7 Tristar Plus punch and dies M 16 - M 63
Ø 16.2 - 20.4 - 25.4 - 32.5 - 40.5 - 50.5 - 63.5 mm

Spare parts

Compact hand hydraulic punches, units 02005
Compact-Combi hand hydraulic punches, units 02055
Hydraulic screw Ø 19.0 mm 02002
Hydraulic screw Ø 19.0 x 9.5 mm 02003
Hydraulic screw Ø 19.0 x 6.0 mm 02022
Hydraulic screw Ø 19.0 x 11.1 mm 02007
Hydraulic screw Ø 19.0 x 9.5 mm* 02010
Hydraulic screw Ø 19.0 x 11.1 mm* 02011
Distance bushes (3 pieces) 02004
Pre-drill Ø 10.0 mm 08036
Pre-drill Ø 11.0 mm 08023
Pre-drill Ø 11.5 mm 08035

* Hydraulic screw made out of high-alloy tool steel for heavy duty application.

Inch sizes are available on request
ALFRA

Battery packed
Compact Hydraulic Punch

FOR ROUND, SQUARE
AND RECTANGULAR
HOLE PUNCHING
Practical handling with high performance rechargeable battery of 18 V for round, square and rectangular punches for builders of control cabinets, panels and electrical system.

Extremely manageable and light, due to high guaranteeing tensile strength aluminum head.

- Light and handy, only 3.7 kg incl. the rechargeable battery.
- With pressure control valve
- High performance motor with ergonomic form designed hand grip „Soft-touch“
- The high performance rechargeable batteries can be inserted in two ways so you can obtain a weight counterbalance.

Technical Data:

**Punching**
- Round holes: up to Ø 80mm diam. (3.0 mm mild steel \( F = 370 \text{ N/mm}^2 \), 2.0 mm Chrome-Nickel-Steel)
- Square / rectangular: 68 x 68 mm (3.0 mm mild steel \( F = 370 \text{ N/mm}^2 \), 2.0 mm Chrome-Nickel-Steel) 92 x 92 mm only with special screw* and distance bush*. (2.0 mm mild steel \( F = 370 \text{ N/mm}^2 \), 1.5 mm Chrome-Nickel-Steel)

**Motor/Drive**
- Punch pressure: 80 kN, with pressure control valve
- Motor/Drive pressure: 80 kN, with pressure control valve

**Rechargeable battery**
- 18 V, 3.0 Ah NiMH
- Battery charge: 45 min. after complete discharge
- Charge cycles: ~ 500 under normal circumstances
- Working temperature: 0°C to +40°C, Capacity loss below 0°C

**Universal battery charger**
- Charging all batteries 18 to 28 V, for Li-ion, Ni-MH and Ni-Cd Batteries.
- Automatic temperature control. The change from quick-charge to trickle charge avoids overcharging of the rechargeable batteries.
- Charge of battery indicated by LED indicator
- PCB completely encapsulated.

**Punching time/ Punching capacity**
- Ø 22.5 mm diam., mild steel \( F = 370 \text{ N/mm}^2 \)
  - 2 mm: 5 sec., 190 holes per battery charge
  - 2 mm: 7 sec., 100 holes per battery charge
  - 68 x 68 mm: 7 sec., 70 holes per battery charge

**Weight**
- 3.7 kg with rechargeable battery.
- 2.7 kg without rechargeable battery.
- 7.8 kg complete set in transport case, without cutting tools.

**Scope of supply:**

<table>
<thead>
<tr>
<th>Prod.-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02070</td>
<td>ALFRA battery packed compact hydraulic punch with 2 rechargeable batteries 18 V, Battery charger 18 - 28 V</td>
</tr>
<tr>
<td>02003</td>
<td>Hydraulic screw - 9.5 x 19 mm – Prod.-No: 02003</td>
</tr>
<tr>
<td>02002</td>
<td>Hydraulic screw - 19 x 120 mm – Prod.-No: 02002</td>
</tr>
<tr>
<td>02004</td>
<td>Distance bush, 3 pieces – Prod.-No: 02004</td>
</tr>
<tr>
<td>08023</td>
<td>Pre-drill Ø 11 mm diam. – Prod.-No: 08023</td>
</tr>
</tbody>
</table>


**Spare parts:**

<table>
<thead>
<tr>
<th>Prod.-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02071</td>
<td>Extra battery</td>
</tr>
<tr>
<td>02072</td>
<td>Battery charger 220 V - 240 V</td>
</tr>
<tr>
<td>02074</td>
<td>ALFRA Compact Hydraulic Punch, without battery</td>
</tr>
<tr>
<td>01395</td>
<td>* Special screw for the square 92 x 92 mm punch</td>
</tr>
<tr>
<td>01396</td>
<td>* Special distance bush for the square 92 x 92 mm</td>
</tr>
</tbody>
</table>

Prod.-No. 02072
Prod.-No. 02071