



PT. Bumi Teknik Utama
PROFESSIONAL INDUSTRIAL EQUIPMENTS



**Jakarta
Semarang
Surabaya
Balikpapan**

**Product Catalog
2019 - 2020 Version 3**



B

PANEL TOOLS

Our Company

Established in 1968 as CV. Timur Raya, and later renamed to PT. Bumi Teknik Utama in 2004, with offices in Jakarta, Semarang, Surabaya, and Balikpapan. Our divisions are Welding Machines division, Welding Accessories division, Welding Consumable division, Tools & Power Tools division, Panel & Hand Tools, Retail division and Service & Support division.

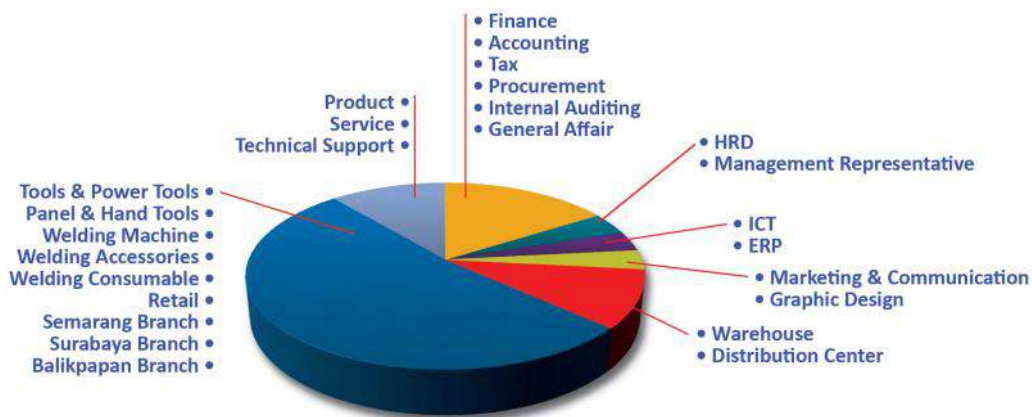
In order to serve our customers better, we established Bumi Distribution Center in Cengkareng and we are planning to open more branches in different provinces and cities in the nationwide.

More than 50 years of industrial experience and utilizing a strong backbone of the latest computerized system, such as online "SAP" ERP system, Business Intelligence and Bumi Intranet, give us the advantageous of fast working collaboration, knowledge, analyze and expertise that contributes greatly to the benefit of our customers.

As one of the fastest growing companies in the industry, we believe Human Capital is one of the company's main pillars. Which we pay lots of attention and investment in the recruitment and talent development program.

Our Customers : Metal Fabricators, Automotive Industry, Shipyard, Power Plant, Mechanical & Electrical, Oil, Gas, Mining and all related supporting Industries.

Our Products : High quality and reliable lifting, cutting, bevelling, grinding, welding, drilling, punching, bending, fastening and related products.



Our Vision : To be the leader in the professional industrial equipments by giving quality products and better after sales services.

Our Mission : To equip our Customers with reliable, durable and efficient Professional Industrial Equipments. Together with preventive and corrective services that fulfill the needs and expectations of our customers and business partners.

Our Core values :

- Treating our customers with respect and faith.
- We grow through creativity, invention and innovation
- We integrate honesty, discipline and commitment into all business aspects.

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
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Panel Punch & Die - Table of types and application possibilities

| Punch Dimension | Wrench | For use with | | |
|---|--------|---|---|--|
| | | Hand Hydraulic punch Compact, Compact- Combi, Compact Flex | Battery packed Hydraulic punch Akku Compact | Foot and electro hydraulic pump with hydraulic cylinder |
| | |  Standard Punch Round | | |
| 12.7 - 82.0 mm | Yes | Yes | Yes | Yes |
| 89.0 - 120.0 mm | - | - | Yes with special screw | Yes |
| | |  Splitter punch round TRISTAR/ TRISTAR PLUS/ TRISTAR PLUS-S | | |
| 12.5 - 63.5 mm | Yes | Yes | Yes | Yes |
| | |  Puncher Square | | |
| 12.7 x 12.7 mm - 25.4 x 25.4 mm | Yes | Yes | Yes | Yes |
| 45.5 x 45.5 mm - 68.0 x 68.0 mm | | Yes | Yes | Yes |
| 92.0 x 92.0 mm | | | Yes with special screw | Yes |
| 125.0 x 125.0 mm - 138.0 x 138.0 mm | | | | Yes |
| | |  Puncher Square for Stainless Steel | | |
| 46.0 x 46.0 mm - 68.0 x 68.0 mm | | Yes | Yes | Yes |
| 92.0 x 92.0 mm | | | Yes with special screw | Yes |
| | |  Puncher Rectangular | | |
| 17.0 x 19.0 mm - 25.0 x 50.0 mm | Yes | Yes | Yes | Yes |
| 45.0 x 92.0 mm - 46.0 x 92.0 mm | | Yes | Yes | Yes |
| 68.0 x 138.0 mm | | | | Yes |
| | |  Puncher Rectangular for Heavy Connectors | | |
| 36.0 x 52.0 mm - 46.0 x 86.0 mm | | Yes | Yes | Yes |
| 46.0 x 112.0 mm | | | | Yes |
| | |  Puncher Special Shapes | | |
| Ø 22.5 mm with 3 mm nose  | Yes | Yes | Yes | Yes |
| Ø 22.5 mm, 2-side flattened to 18.5 mm  | Yes | Yes | Yes | Yes |
| Ø 22.5 mm, nose 4-side flattened to 20.1 mm  | Yes | Yes | Yes | Yes |
| BKS Profile Cylinder  | Yes | Yes | Yes | Yes |
| Ø 16.3 mm, nose 4-side flattened to 14.1 mm  | Yes | Yes | Yes | Yes |
| | |  Puncher Sub Min-D | | |
| 9 pollg - 50 pollg | Yes | Yes | Yes | Yes |

Puncher for Manual and Hydraulic Operation - Square, Rectangular & Special Shapes

1. Screw draw stud ☐ with thread fully into the hydraulic cylinder ☐.
2. Die ☐ must not be canted when placed on draw stud ☐.
- Use distance bushes ☐ if necessary.
3. Insert draw stud ☐ through pre-drilled hole in the control cabinet door.
4. Set the punch ☐ squarely on the hydraulic draw stud from the rear and tighten the lock nut ☐.
5. Align the puncher ☐ on the cross hair with the four markings.

- ☐ lock nut
- ☐ punch
- ☐ draw stud
- ☐ die
- ☐ distance bush
- ☐ adapter for hydraulic operation
- ☐ forcing nut for manual operation
- ☐ hydraulic cylinder

Operating the hydraulic pump

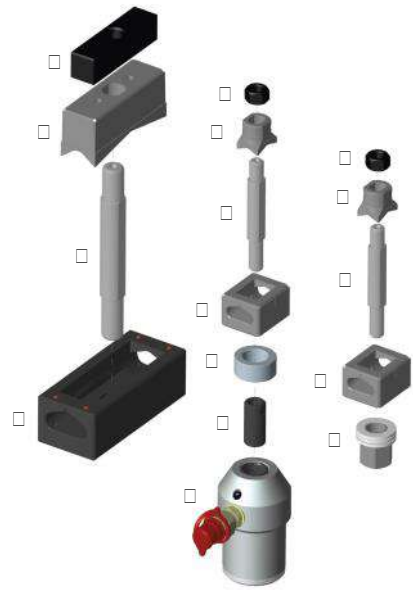
- Draw the punch fully through the metal.
- Do not use force.
- Release the pressure on the hydraulic cylinder after the punching operation by opening the valve wheel on the pump (hydraulic cylinder body).
- Disassemble the puncher and remove the waste from the die.

Caution :

- Only operate the puncher until the metal is cut. Avoid the punch acting against the inside of the die.
- Staggered punching (nibbling) is not possible.
- Never use force.

Important !

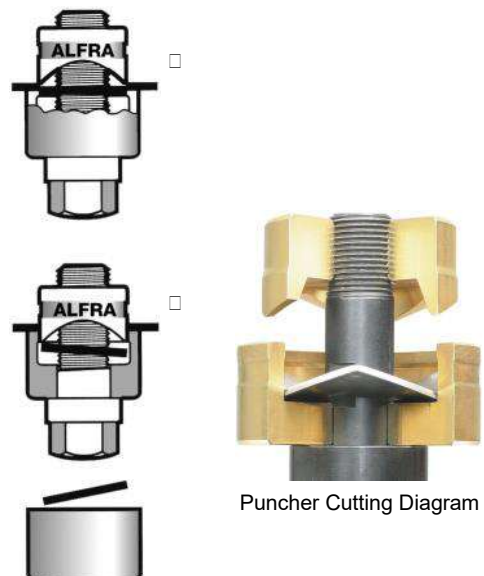
- Draw stud, cutter and guides should always be oiled or greased; punch and die then move more easily.
- Sharpen the punch in good time, depending on degree of bluntness.



When operated with wrench, use forcing nut ☐ instead of adapter ☐

Note : Punchers with three cutting tips as standard

The waste drops easily out of the die, if you turn the punch 2-3 turns further into the die using a spanner after the punching operation. ☐
This pushes the waste piece over the edge of the die and so falls freely out of the die if you have predrilled 11 or 21 mm. ☐





Panel Round Punch & Die



Puncher Cutting Diagram



Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Capable for cable bushes
- Applicable for Compact, Compact Combi, Hand and Foot Pump Hydraulic Machines

| Item Code | Item Name | PG | Inch | M | MoQ |
|------------|-------------------------------------|-------|---------|----------|-------|
| 209.26.001 | Hole Punch MonoCut™ Ø 12.7 mm | PG 7 | 1/2" | M 12 | 1 Set |
| 209.26.002 | Hole Punch MonoCut™ Ø 15.2 mm | PG 9 | | | 1 Set |
| 209.26.003 | Hole Punch MonoCut™ Ø 16.0 mm | | | M 16 | 1 Set |
| 209.26.004 | Hole Punch MonoCut™ Ø 16.7 mm | | | | 1 Set |
| 209.26.005 | Hole Punch MonoCut™ Ø 18.6 mm | PG 11 | | | 1 Set |
| 209.26.006 | Hole Punch MonoCut™ Ø 19.0 mm | | 3/4" | | 1 Set |
| 209.26.007 | Hole Punch MonoCut™ Ø 20.0 mm | | | | 1 Set |
| 209.26.008 | Hole Punch MonoCut™ Ø 20.4 mm | PG 13 | | M 20 | 1 Set |
| 209.26.009 | Hole Punch MonoCut™ Ø 22.0 mm | | | | 1 Set |
| 209.26.010 | Hole Punch MonoCut™ Ø 22.5 mm | PG 16 | 7/8" | | 1 Set |
| 209.26.011 | Hole Punch MonoCut™ Ø 25.0 mm | | | | 1 Set |
| 209.26.012 | Hole Punch MonoCut™ Ø 25.4 mm | | | M 25 - 1 | 1 Set |
| 209.26.013 | Hole Punch MonoCut™ Ø 27.0 mm | | | | 1 Set |
| 209.26.014 | Hole Punch MonoCut™ Ø 28.3 mm x 19 | PG 21 | | | 1 Set |
| 209.26.015 | Hole Punch MonoCut™ Ø 28.3 mm x 9.5 | PG 21 | | | 1 Set |
| 209.26.016 | Hole Punch MonoCut™ Ø 28.6 mm | | | | 1 Set |
| 209.26.017 | Hole Punch MonoCut™ Ø 30.1 mm x 9.5 | | | | 1 Set |
| 209.26.042 | Hole Punch MonoCut™ Ø 30.1 mm x 19 | | | | 1 Set |
| 209.26.018 | Hole Punch MonoCut™ Ø 30.5 mm x 9.5 | | 1-7/32" | | 1 Set |
| 209.26.019 | Hole Punch MonoCut™ Ø 31.7 mm | | 1-1/4" | | 1 Set |
| 209.26.020 | Hole Punch MonoCut™ Ø 32.5 mm | | | M 32 | 1 Set |
| 209.26.021 | Hole Punch MonoCut™ Ø 34.6 mm | | | | 1 Set |



Optional Accessories

| | | |
|------------|---|-------|
| 209.34.002 | Hydraulic Screws - 19 x 120 mm | 1 Set |
| 209.34.003 | Hydraulic Screws - 19 reduced to 9.5 mm | 1 Set |
| 209.34.004 | Hydraulic Screws - 9.5 x 75 mm | 1 Set |



209.34.002



209.34.004



209.34.003



Panel Round Punch & Die



Puncher Cutting Diagram



Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Capable for cable bushes
- Applicable for Compact, Compact Combi, Hand and Foot Pump Hydraulic Machines

| Item Code | Item Name | PG | Inch | M | MoQ |
|------------|-------------------------------------|-------|----------|------|-------|
| 209.26.022 | Hole Punch MonoCut™ Ø 35.0 mm x 19 | | 1-3/8" | | 1 Set |
| 209.26.023 | Hole Punch MonoCut™ Ø 35.0 mm x 9.5 | | 1-3/8" | | 1 Set |
| 209.26.024 | Hole Punch MonoCut™ Ø 37.0 mm | PG 29 | | | 1 Set |
| 209.26.025 | Hole Punch MonoCut™ Ø 38.0 mm | | 1-1/2" | | 1 Set |
| 209.26.026 | Hole Punch MonoCut™ Ø 40.5 mm | | | M 40 | 1 Set |
| 209.26.027 | Hole Punch MonoCut™ Ø 42.8 mm | | | | 1 Set |
| 209.26.028 | Hole Punch MonoCut™ Ø 44.4 mm | | 1-11/16" | | 1 Set |
| 209.26.029 | Hole Punch MonoCut™ Ø 47.0 mm | PG 36 | | | 1 Set |
| 209.26.030 | Hole Punch MonoCut™ Ø 49.6 mm | | 1-15/16" | | 1 Set |
| 209.26.031 | Hole Punch MonoCut™ Ø 50.5 mm | | | M 50 | 1 Set |
| 209.26.032 | Hole Punch MonoCut™ Ø 54.0 mm | PG 42 | 2-1/8" | | 1 Set |
| 209.26.033 | Hole Punch MonoCut™ Ø 60.0 mm | PG 48 | | | 1 Set |
| 209.26.034 | Hole Punch MonoCut™ Ø 61.5 mm | | 2-3/8" | | 1 Set |
| 209.26.035 | Hole Punch MonoCut™ Ø 63.5 mm | | 2-1/2" | M 63 | 1 Set |
| 209.26.036 | Hole Punch MonoCut™ Ø 68.0 mm | | | | 1 Set |
| 209.26.037 | Hole Punch MonoCut™ Ø 70.0 mm | | 2-3/4" | | 1 Set |
| 209.26.039 | Hole Punch MonoCut™ Ø 76.2 mm | | 3" | | 1 Set |
| 209.26.040 | Hole Punch MonoCut™ Ø 80.0 mm | | 3-1/8" | | 1 Set |
| 209.26.041 | Hole Punch MonoCut™ Ø 82.0 mm | | | | 1 Set |



Optional Accessories

| | | |
|------------|---|-------|
| 209.34.002 | Hydraulic Screws - 19 x 120 mm | 1 Set |
| 209.34.003 | Hydraulic Screws - 19 reduced to 9.5 mm | 1 Set |
| 209.34.004 | Hydraulic Screws - 9.5 x 75 mm | 1 Set |



209.34.002



209.34.004



209.34.003



Panel Round Punch & Die Package

| Item Code | Package Type | Inch | MoQ |
|------------|------------------------------------|--------|-------|
| 209.29.001 | Panel Round Punch & Die Ø 89.0 mm | 3-1/2" | 1 Set |
| 209.29.002 | Panel Round Punch & Die Ø 92.0 mm | 3-5/8" | 1 Set |
| 209.29.003 | Panel Round Punch & Die Ø 100.5 mm | | 1 Set |
| 209.29.004 | Panel Round Punch & Die Ø 115.5 mm | 4-1/2" | 1 Set |
| 209.29.005 | Panel Round Punch & Die Ø 120.0 mm | | 1 Set |



| Hydraulic Screw | | | |
|-----------------|--|--|------|
| 209.34.001 | Hydraulic Screws - 19 reduced to 6.0 mm | | 1 Pc |
| 209.34.002 | Hydraulic Screws - 19 x 120 mm | | 1 Pc |
| 209.34.003 | Hydraulic Screws - 19 reduced to 9.5 mm | | 1 Pc |
| 209.34.004 | Hydraulic Screws - 9.5 x 75 mm | | 1 Pc |
| 209.34.005 | Hydraulic Screws - 28.3 x 155 mm | | 1 Pc |
| 209.34.006 | Hydraulic Screws - 19 x 11.1 mm | | 1 Pc |
| 209.34.008 | Hydraulic Screws - 11.1 mm | | 1 Pc |
| 209.34.010 | Hydraulic Screws - Adapter 19.0 x 9.5 mm | | 1 Pc |
| 209.34.011 | Hydraulic Screws - 9.5 x 40 | | 1 Pc |
| 209.34.012 | Hydraulic Screws - 9.5 x 50 | | 1 Pc |
| 209.34.013 | Hydraulic Screws - Ball Bearing 9.5 x 50 | | 1 Pc |



ALFRA Special Metal Antifriction Paste

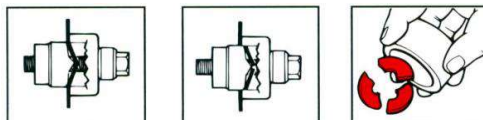
Advantageous

- Against seizing and excessive wear
- Resist high pressure up to 230 N/mm²
- Adheres firmly
- Resistant against water and most acids & alkaline
- Non corrosive, free of lead
- Non poisonous and non toxic
- Very much recommended when using punch and die sets





Panel Tristar Standard Punch & Die



Advantageous

- Punch & Die System with Splitter Punch for Steel St. 37
- For punching of holes into mild steel and plastic etc.
- Quickly without effort, clean and without burrs
- Capable for cable bushes
- Applicable for Compact, Compact Combi, Hand and Foot pump hydraulic machines

| Item Code | Item Name | PG | Inch | M | MoQ |
|------------|--|-------|---------|----------|-------|
| 209.30.001 | Panel Tristar Standard Punch & Die - Ø 12.5 mm | | | M 12 | 1 Set |
| 209.30.002 | Panel Tristar Standard Punch & Die - Ø 15.2 mm | PG 9 | | | 1 Set |
| 209.30.003 | Panel Tristar Standard Punch & Die - Ø 16.2 mm | | | M 16 | 1 Set |
| 209.30.004 | Panel Tristar Standard Punch & Die - Ø 18.6 mm | PG 11 | | | 1 Set |
| 209.30.005 | Panel Tristar Standard Punch & Die - Ø 20.4 mm | PG 13 | | M 20 | 1 Set |
| 209.30.006 | Panel Tristar Standard Punch & Die - Ø 22.5 mm | PG 16 | 7/8" | | 1 Set |
| 209.30.007 | Panel Tristar Standard Punch & Die - Ø 25.4 mm | | | M 25 - 1 | 1 Set |
| 209.30.008 | Panel Tristar Standard Punch & Die - Ø 28.3 mm | PG 21 | | | 1 Set |
| 209.30.009 | Panel Tristar Standard Punch & Die - Ø 28.3 mm | PG 21 | | | 1 Set |
| 209.30.010 | Panel Tristar Standard Punch & Die - Ø 30.5 mm | | 1-7/32" | | 1 Set |

Optional Accessories

| | | |
|------------|---|-------|
| 209.34.003 | Hydraulic Screws - 19 reduced to 9.5 mm | 1 Set |
| 209.34.004 | Hydraulic Screws - 9.5 x 75 mm | 1 Set |



| Item Code | Item Name | PG | Inch | M | MoQ |
|------------|--|-------|----------|------|-------|
| 209.30.011 | Panel Tristar Standard Punch & Die - Ø 32.5 mm | | | M 32 | 1 Set |
| 209.30.012 | Panel Tristar Standard Punch & Die - Ø 34 mm | | | | 1 Set |
| 209.30.013 | Panel Tristar Standard Punch & Die - Ø 37.0 mm | PG 29 | | | 1 Set |
| 209.30.014 | Panel Tristar Standard Punch & Die - Ø 40.5 mm | | | M 40 | 1 Set |
| 209.30.015 | Panel Tristar Standard Punch & Die - Ø 43.2 mm | | 1-11/16" | | 1 Set |
| 209.30.016 | Panel Tristar Standard Punch & Die - Ø 47.0 mm | PG 36 | | | 1 Set |
| 209.30.017 | Panel Tristar Standard Punch & Die - Ø 49.6 mm | | 1-5/16" | | 1 Set |
| 209.30.018 | Panel Tristar Standard Punch & Die - Ø 50.5 mm | | | M 50 | 1 Set |
| 209.30.019 | Panel Tristar Standard Punch & Die - Ø 54.0 mm | PG 42 | 2 1/8" | | 1 Set |
| 209.30.020 | Panel Tristar Standard Punch & Die - Ø 60.0 mm | PG 48 | | | 1 Set |
| 209.30.021 | Panel Tristar Standard Punch & Die - Ø 61.5 mm | | 2-3/8" | | 1 Set |
| 209.30.022 | Panel Tristar Standard Punch & Die - Ø 63.5 mm | | 2-1/2" | M 63 | 1 Set |

Optional Accessories

| | | |
|------------|--------------------------------|-------|
| 209.34.002 | Hydraulic Screws - 19 x 120 mm | 1 Set |
| 209.34.004 | Hydraulic Screws - 9.5 x 75 mm | 1 Set |





Panel Tristar Standard Punch & Die Set



Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Applicable for Compact, Compact Combi, Hand and Foot pump hydraulic machines
- With 10 sizes, 9 of them in PG sizes
- Complete in plastic storage case

| Item Content | Size | MoQ |
|-------------------------------|------------------|----------|
| Tristar Standard P/D | PG 9 - PG 48 | 1 Pc |
| Tristar Standard P/D | diameter 30.5 mm | 1 Pc |
| Bearing screws | 9.5 x 50 mm | 2 Balls |
| Bearing screw | 19.0 x 55 mm | 1 Ball |
| Ball bearing screw | 19.0 x 75 mm | 1 Ball |
| HSS-Cobalt pre drill | diameter 10 mm | 1 Pc |
| Bottle of Anti Friction Paste | - | 1 Bottle |



Panel Tristar Standard Punch & Die Set - PG sizes

| Item Code | Item Name | MoQ |
|------------|---|-------|
| 209.31.001 | Panel Tristar Standard Punch & Die Set - PG sizes | 1 Set |

Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Applicable for Compact, Compact Combi, Hand and Foot pump hydraulic machines
- With 7 sizes according to ISO 16-20-25-32-40-50-63
- Complete in plastic storage case

| Item Content | Size | MoQ |
|----------------------------------|----------------|----------|
| Tristar Standard P/D ISO 16 - 63 | - | 1 Pc |
| Bearing screws | 9.5 x 50 mm | 2 Balls |
| Bearing screw | 19.0 x 55 mm | 1 Ball |
| Ball bearing screw | 19.0 x 75 mm | 1 Ball |
| HSS-Cobalt pre drill | diameter 10 mm | 1 Pc |
| Bottle of Anti Friction Paste | - | 1 Bottle |



Panel Tristar Standard Punch & Die Set - ISO sizes

| Item Code | Item Name | MoQ |
|------------|--|-------|
| 209.31.002 | Panel Tristar Standard Punch & Die Set - ISO sizes | 1 Set |



Panel Square Punch & Die



Square Punch and Die

Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Comes complete with screw in the plastic case
- Applicable for Hand and Foot pump hydraulic machines
- With crosshair for precision alignment (see Picture with red circle)



| Item Code | Item Name | MoQ |
|------------|---|------|
| 209.32.001 | Panel Square Punch & Die - 12.7 x 12.7 mm | 1 Pc |
| 209.32.002 | Panel Square Punch & Die - 15.8 x 15.8 mm | 1 Pc |
| 209.32.003 | Panel Square Punch & Die - 19.0 x 19.0 mm | 1 Pc |
| 209.32.004 | Panel Square Punch & Die - 22.2 x 22.2 mm | 1 Pc |
| 209.32.005 | Panel Square Punch & Die - 24.0 x 24.0 mm | 1 Pc |
| 209.32.006 | Panel Square Punch & Die - 25.4 x 25.4 mm | 1 Pc |
| 209.32.007 | Panel Square Punch & Die - 45.5 x 45.5 mm | 1 Pc |
| 209.32.008 | Panel Square Punch & Die - 46.0 x 46.0 mm | 1 Pc |
| 209.32.009 | Panel Square Punch & Die - 50.8 x 50.8 mm | 1 Pc |
| 209.32.010 | Panel Square Punch & Die - 68.0 x 68.0 mm | 1 Pc |
| 209.32.011 | Panel Square Punch & Die - 92.0 x 92.0 mm | 1 Pc |
| 209.32.012 | Panel Square Punch & Die - 125.0 x 125.0 mm | 1 Pc |
| 209.32.013 | Panel Square Punch & Die - 138.0 x 138.0 mm | 1 Pc |





Panel Rectangular Punch & Die



Rectangular Punch and Die



Advantageous

- For punching of holes into mild steel and stainless steel, plastic etc
- Quickly without effort, clean and without burrs
- Comes complete with screw in the plastic case
- Applicable for Hand and Foot pump hydraulic machines
- With crosshair for precision alignment (see Picture with red circle)

| Item Code | Item Name | MoQ |
|------------|---|------|
| 209.33.001 | Panel Rectangular Punch & Die - 17.0 x 19.0 mm | 1 Pc |
| 209.33.002 | Panel Rectangular Punch & Die - 21.8 x 25.8 mm | 1 Pc |
| 209.33.003 | Panel Rectangular Punch & Die - 22.0 x 30.0 mm | 1 Pc |
| 209.33.004 | Panel Rectangular Punch & Die - 22.0 x 42.0 mm | 1 Pc |
| 209.33.005 | Panel Rectangular Punch & Die - 25.0 x 50.0 mm | 1 Pc |
| 209.33.006 | Panel Rectangular Punch & Die - 45.0 x 92.0 mm | 1 Pc |
| 209.33.007 | Panel Rectangular Punch & Die - 46.0 x 92.0 mm | 1 Pc |
| 209.33.008 | Panel Rectangular Punch & Die - 68.0 x 138.0 mm | 1 Pc |





Compact™ Manual Punch Straight



Advantageous

- A practical hand puncher without hose or separate cylinder
- Ideal for workshop and work on construction sites
- Aluminum Body

Specifications

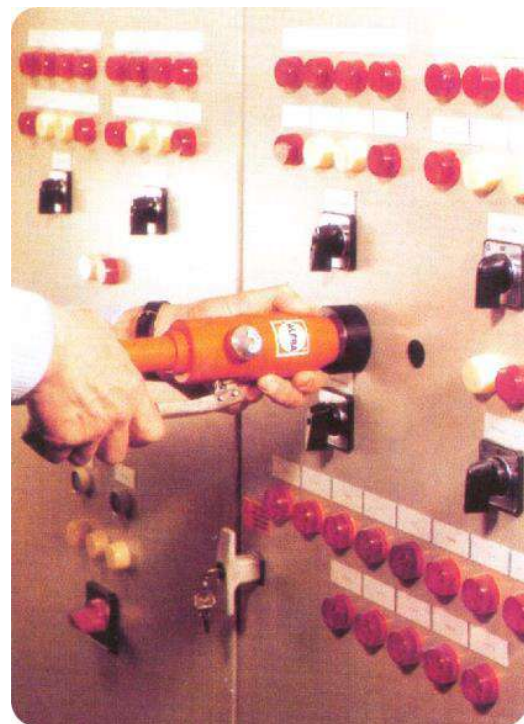
Mild steel

| | | |
|-------------|------------|--------|
| Round | Ø 85 mm | 2.0 mm |
| | Ø 64 mm | 3.0 mm |
| Square | 68 x 68 mm | 2.0 mm |
| Rectangular | 46 x 86 mm | 2.0 mm |

Stainless Steel

| | | |
|----------------|--------------|--------|
| Round | Ø 60 mm | 2.5 mm |
| Punching power | 75 KN | |
| Pressure | Max. 650 bar | |
| Weight | 1.6 Kg | |

| Item Code | Item Name | MoQ |
|------------|--|-------|
| 109.04.001 | Compact™ Manual Punch Straight <ul style="list-style-type: none"> • Hydraulic screw Ø 19 x 120 mm • Hydraulic screw Ø 19 reduced to 9.5 mm • Pre-drill HSS - Co Ø 11 mm • Distance bushes set 3 parts • Plastic case | 1 Set |





Compact™ Manual Punch Straight - TriCut™ - Sets



Advantageous

- A practical hand puncher without hose or separate cylinder
- Ideal for workshop and work on construction sites
- Aluminum Body

Specifications

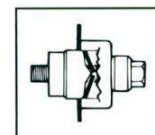
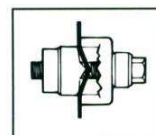
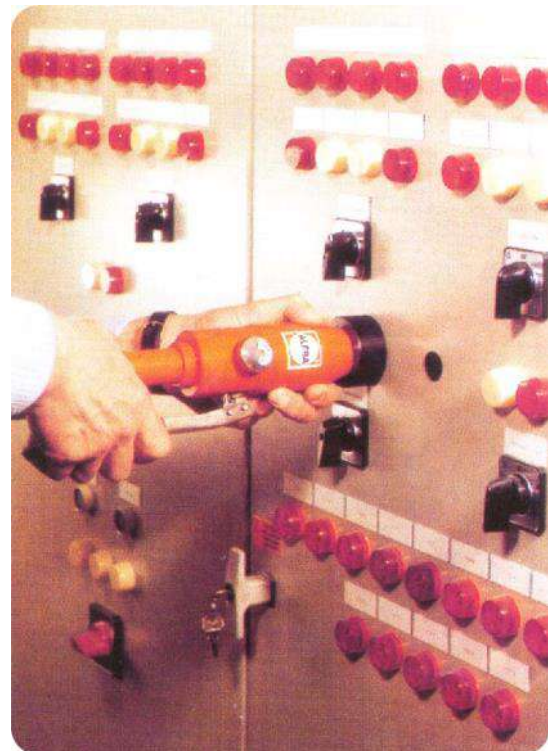
Mild steel

| | | |
|-------------|--------------------|------------------|
| Round | Ø 82 mm Ø 64 mm | 2.0 mm 3.0 mm |
| Square | 68 x 68 mm | 2.0 mm |
| Rectangular | 46 x 86 mm | 2.0 mm |

Stainless Steel

| | | |
|----------------|--------------|--------|
| Round | Ø 60 mm | 2.5 mm |
| Punching power | 75 KN | |
| Pressure | Max. 650 bar | |
| Weight | 1.6 Kg | |

| Item Code | Item Name | MoQ |
|------------|---|-------|
| 109.04.002 | Compact™ Manual Punch Straight - TriCut™ - Sets <ul style="list-style-type: none"> • Hydraulic screw Ø 19 mm • Hydraulic screw Ø 19 mm x 120 mm • Hydraulic screw Ø 19 mm x 9.5 mm • Pre-drill HSS - Co Ø 10 mm • Distance bushes set-3 parts • Panel Tristar Standard punch & die - Ø 15.2 mm-PG 9, Ø 18.6 mm-PG 11, Ø 20.4 mm-M20 PG 13, Ø 22.5 mm-PG 16 7/8, Ø 28.3 mm-PG 21, Ø 37.0 mm-PG 29, Ø 47.0 mm-PG 36, Ø 54.0 mm-PG 42 21/8, Ø 60.0 mm-PG 48 • Plastic case | 1 Set |





Compact Combi™ Manual Punch 90°



Advantageous

- With cylinder head at 90° and rotatable through 360°
- Very suitable for use in tight spaces
- Single handed operation for easy positioning of the die on the cross hairs.
- A practical hand puncher without hose or separate cylinder
- Ideal for workshop and work on construction sites
- Aluminum Body

Specifications

Mild steel

| | | |
|-------------|------------|--------|
| Round | Ø 82 mm | 2.0 mm |
| | Ø 64 mm | 3.0 mm |
| Square | 68 x 68 mm | 2.0 mm |
| Rectangular | 46 x 86 mm | 2.0 mm |

Stainless Steel

| | | |
|----------------|--------------|--------|
| Round | Ø 64 mm | 2.5 mm |
| Punching power | 60 KN | |
| Pressure | Max. 650 bar | |
| Weight | 3.5 Kg | |



| Item Code | Item Name | MoQ |
|------------|--|--------------|
| 109.04.003 | Compact Combi™ Manual Punch 90° | 1 Set |
| | <ul style="list-style-type: none"> • Hydraulic screw Ø 19 x 120 mm • Hydraulic screw Ø 19 reduced to 9.5 mm • Pre-drill HSS - Co Ø 11 mm • Distance bushes set 3 parts • Plastic case | |



Compact Combi™ Manual Punch 90° - TriCut™ - Sets



Advantageous

- With cylinder head at 90° and rotatable through 360°
- Very suitable for use in tight spaces
- Single handed operation for easy positioning of the die on the cross hairs.
- A practical hand puncher without hose or separate cylinder
- Ideal for workshop and work on construction sites
- Aluminum Body

Specifications

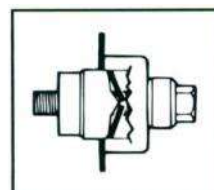
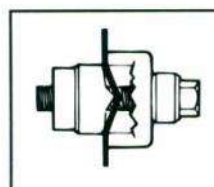
Mild steel

| | | |
|-------------|--------------------|------------------|
| Round | Ø 82 mm Ø 64 mm | 2.0 mm 3.0 mm |
| Square | 68 x 68 mm | 2.0 mm |
| Rectangular | 46 x 86 mm | 2.0 mm |

Stainless Steel

| | | |
|----------------|--------------|--------|
| Round | Ø 60 mm | 2.5 mm |
| Punching power | 60 KN | |
| Pressure | Max. 650 bar | |
| Weight | 3.5 Kg | |

| Item Code | Item Name | MoQ |
|------------|---|-----|
| 109.04.004 | Compact Combi™ Manual Punch 90° - 1 Set TriCut™ - Sets <ul style="list-style-type: none"> • Hydraulic screw Ø 19 mm x 120 mm • Hydraulic screw Ø 19 mm x 11.1 mm • Pre-drill HSS - Co Ø 11.5 mm • Distance bushes set-3 parts • Panel Tristar Standard punch & die - Ø 15.2 mm-PG 9, Ø 18.6 mm-PG 11, Ø 20.4 mm-M20 PG 13, Ø 22.5 mm-PG 16 7/8, Ø 28.3 mm-PG 21, Ø 37.0 mm-PG 29, Ø 47.0 mm-PG 36, Ø 54.0 mm-PG 42 21/8 • Plastic case | |





Foot Pump with AEP-1

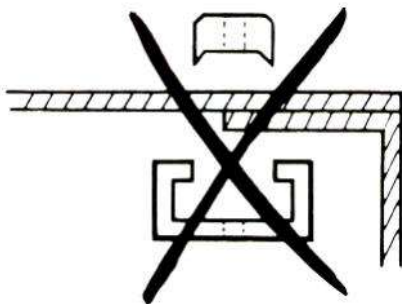


Advantageous

- Foot Pump with 2 step operations
- Maximum operating pressure 700 bar
- Built in pressure control valve
- For all Circular, Square, Rectangular and Special shape Punch & Die
- The foot pump leaves both hands free for exact positioning and punching on the control cabinet. The foot pump carrier frame is splayed, guaranteeing safe work without tilting
- Recommended for bigger sizes Punch & Die

ATTENTION : This operation cannot be applied

- Never overload the pump or pump by force
- Keep edge spacing, some manufacturers of cabinet doors have strengthenings in their doors, by that double thickness of sheet steel !
- Observe the mounting scheme and table of sheet steel thickness !



Specifications

| | |
|-------------------|---------------------------------------|
| Tank volume | 270 cm ³ |
| Max load capacity | 210 cm ³ |
| Pumping capacity | 1.7 cm ³ per piston stroke |

| Item Code | Item Name | MoQ |
|------------|---|-------|
| 109.04.005 | Foot Pump with AEP-1 | 1 Set |
| | <ul style="list-style-type: none"> • Hydraulic cylinder with quick coupling • Hydraulic hose 2.8 m • Hydraulic screws - 19 reduced to 9.5 mm • Hydraulic screws - 19 x 120 mm • Set of distance bushes 5 parts • pre-drill HSS-Co Ø 11 mm • plastic case | |





Universal Punching & Cutting



Advantageous

- For DIN carrier rails, for hand lever operation for cutting pieces to length and punching holes lengthways and crossways in the carrier rails depicted
- With a reinforced eccentric located directly above the shearing blade
- Little force required due to better force transfer
- Burr free cutting without waste
- No maintenance needed
- Anodised, laser engraved length stop 1.000 mm long with rail support element for accurate angled cutting, with millimeter and inch scales
- Shear blade can be re sharpened, punches can be exchanged

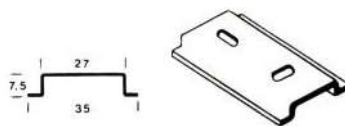
| Item Code | Item Name | MoQ |
|------------|--|-------|
| 109.05.001 | Profile Rail Cutting Device - PSG 5+ with Punch 12 x 6.4 mm + Complete with length and side ways hole punches 12 x 6.4 mm and measuring device 1 m also with guide arrangement | 1 Set |

| Item Code | Item Name | MoQ |
|------------|--|-------|
| 109.05.002 | Profile Rail Cutting Device - PSG 5+ with Round Punches 5.5 or 6.0 mm • Complete with round punches 5.5 or 6.0 mm and measuring device 1 m also with guide arrangement | 1 Set |

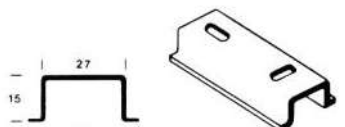


Standard Version

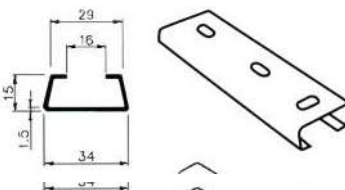
Carrier rail 35 mm/7.5
accord. to EN 60715



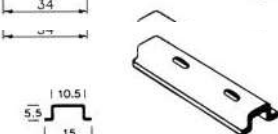
Carrier rail 35 mm/15
accord. to EN 60715



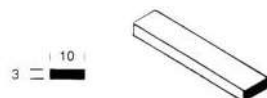
C. Profile 3415



Carrier rail 15 mm/5.5
accord. to EN 60715



Copper earthing rail
10 mm x 3 mm





Profile Rail Cutting Device - PSG Duo



Advantageous

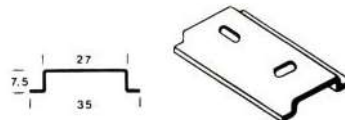
- For the most common DIN carrier rails, with hand lever operation
- Exactly and easily cuts profile and earthing rails.
- Standard version for TS 35/7,5 + 35/15 mm
- With rail support element for accurate 90° cuts
- With reinforced eccentric that lies directly above the shearing blade
- Little force required due to better force transfer
- Maintenance free
- Cutting without waste
- Shearing blade can be re sharpened
- Anodised, laser engraved length stop 1.000 mm long with rail support element for accurate angled cutting, with millimeter and inch scales
- Easy to fit to the work bench
- Scales in metric and inch measurements

Specifications

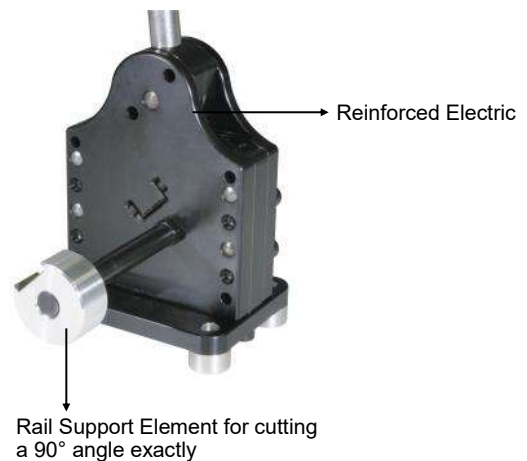
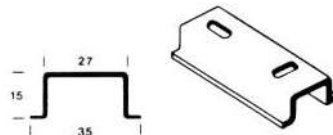
Standard Version, complete with Length Stop and rail support element

Carrier Rails

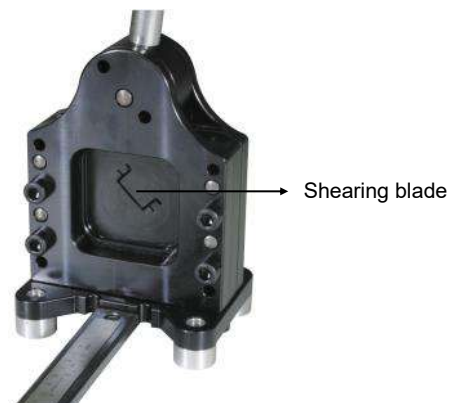
Carrier rail 35 mm/7.5 accord. to EN 60715



Carrier rail 35 mm/15 accord. to EN 60715



| Item Code | Item Name | MoQ |
|------------|---------------------------------------|-------|
| 109.10.003 | Profile Rail Cutting Device - PSG Duo | 1 Set |





Profile Rail Cutting Device - PSG 4



Advantageous

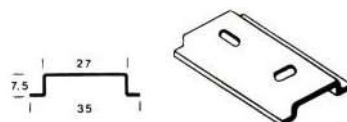
- For DIN carriers rails with hand lever operation
- Cuts profile and earthing rails exactly and effortless
- Standard version for TS 35/7.5 - 35/15 - 15/5.5 - Cu 10.0 x 3.0 mm
- With reinforced eccentric located directly above the shearing blade
- Less use of force due to better force transfer
- Anodised, laser engraved length stop 1.000 mm long with rail support element for accurate angled cutting, with millimeter and inch scales
- Burr free cutting without waste and maintenance free
- Shearing blade can be re sharpened
- Rail support element for accurate 90° cuts
- Easy to fit to the work bench
- Customized version also can be made
(Please send in sample rails of approx. 1.000 mm length)

Specifications

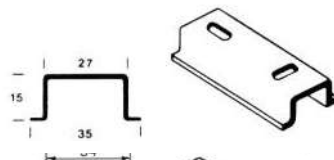
Standard Version, complete with Length Stop and rail support element

Standard Version

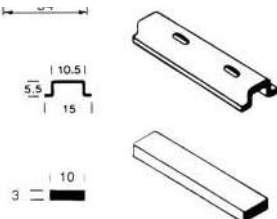
Carrier rail 35 mm/7.5
accord. to EN 60715



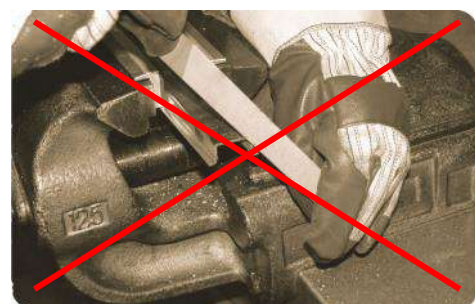
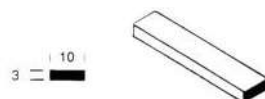
Carrier rail 35 mm/15
accord. to EN 60715



Carrier rail 15 mm/5.5
accord. to EN 60715



Copper earthing rail
10 mm x 3 mm



| Item Code | Item Name | MoQ |
|------------|-------------------------------------|-------|
| 109.10.004 | Profile Rail Cutting Device - PSG 4 | 1 Set |



Cable Ducting Cutting Device - VKS 125



Advantageous

- Cuts wiring ducts and covers up to 125 mm width exactly and effortlessly in seconds
- Both the tool and the length stop have fastening tabs to make fitting to the workbench easier
- The VKS 125 is equipped with a spring loaded blade guard which covers the blade when it is not in use
- Hand lever operation
- Burr free cutting without waste
- Accurate 90° cuts
- Full surface support with laser engraving
- Little force required for cutting
- Anodised, laser engraved length stop 1.000 mm long with rail support element for accurate angled cutting, with millimetre and inch scales
- Maintenance free
- Easy to fit to the workbench

Specifications

Standard Version, complete with Length Stop and rail support element

| Cost comparison for VKS 125 to conventional wiring duct cutting device | | | | | | |
|--|------------|--------------|-------------|------------|-------------|------------------------|
| Tools | Target | Cutting Time | Labour Cost | Cost / day | Working Day | Cost / Year |
| Conventional Cutting Machine | 10 pcs/day | 2 min | € 0.70 | € 14.00 | 250 | € 3,500.00 |
| VKS 125 | 10 pcs/day | 0.3 min | € 0.70 | € 2.10 | 250 | € 525.00 |
| SAVINGS | | | | | | € 2,975.00/year |

| Item Code | Item Name | MoQ |
|------------|--|-------|
| 109.10.002 | Cable Ducting Cutting Device - VKS 125 | 1 Set |

Optional Accessories

| | | |
|------------|-------------------------|------|
| 109.10.001 | Spare Knife for VKS 125 | 1 Pc |
|------------|-------------------------|------|





Mounting Table - AMT 150



Advantageous

- Mounting table for a dynamic and time saving installation and wiring of mounting plates
- Easy and variable fixation of mounting plates by means of quick release
- Mounting table continuously adjustable from vertical to horizontal position; by handwheel or cordless drill
- With the adjustable position, it also save your health from backbone pain compare to old mounting method
- Minimized space requirement when not in use
- 4 guide rolls with total locking device
- Independent of electricity network (no risk of cable over-run)

Specifications

| | |
|--|------------------|
| Adjustable tilting angle | 0 - 80° |
| Working height | 100 cm (fixed) |
| Max plates mounting capacity (W x H) | 1.100 x 1.900 mm |
| Max load capacity | 200 kg |
| Space required | 1.400 x 1.200 mm |
| Weight | 83 kg |

| Item Code | Item Name | MoQ |
|------------|---|-------|
| 109.11.001 | Mounting Table - AMT 150 | 1 Set |
| | <ul style="list-style-type: none"> • Clamping unit with screw • clamping unit with quick release • screw adapter for operation with cordless drill | |





Busbar Bending & Punching Set



Advantageous

Busbars at 120 x 12 mm (160 x 10 mm on request) can easily be bent using a universal working cylinder, and holes of Ø 6.6 up to 21.5 mm including longitudinal holes can be punched through the simple insertion of hole punches

Bending Busbar

Turn switch to "bend".

To bend busbars, the bending die is inserted in the hydraulic piston and the electric angle measurer is placed in the round guidance crew on the counter block. The contact cable is connected to the electric motor. The required angle is fixed on the angle scale using an adjusting screw. Since copper springs back, we recommend making a setting 1° - 3° above the required angle depending on the material thickness. You should check the first bending angle. This bending angle can be reproduced as often as required since the bending process is automatically interrupted on achieving the angle by the electrical contact switch.



Perforating Busbar / Punching Busbar

Switch setting to "perforate".

The punch with the neoprene scraper and the matching die are placed in the locating hole. The punch is fixed sideways using a grub screw. Depending on the busbar width and the required hole arrangement, the processing block can be infinitely variably raised or lowered hydraulically using the handwheel. A counter attached to the handwheel shows the height of the hole centre in millimetres.

We recommend centre punching the busbar and then aligning the punch centring point above the centre punch to guarantee a precise hole location. The neoprene scraper and a fitted electronic sensor ensure automatic punch retraction.



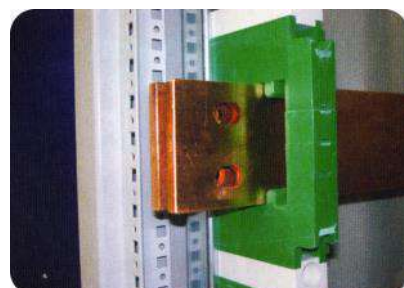
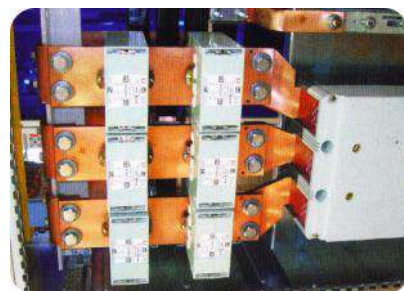
Machine Specifications

Bending

| | |
|-----------------------|------------------------------------|
| Copper | 120 x 12 mm |
| Angle | up to 90° |
| Smaller length of leg | 50 mm |
| Smallest U bending | 100 mm |
| Smallest Z bending | 72 mm depend on material thickness |

Punching

| | |
|-------------------------|--------------------|
| Round P/D | 6.6 - 21.5 mm |
| Oval P/D | up to 21 mm |
| Material thickness | 12 mm |
| Material width | 110 mm |
| Dimension (L x W x H) | 700 x 410 x 410 mm |
| Weight | 60 Kg |



Hydraulic Pumps Specifications for Busbar Hydraulic Pumps

| Hydraulic Pump | AHP-S |
|-------------------------|--------------------|
| Max. pressure | 700 Bar |
| Max. flow rate | 0.58 l/min |
| Oil type | HLP 32 Oil |
| Filling volume | 3.0 l |
| Working volume | 2.2 l |
| Power | 0.75 KW |
| Current consumption | 3.26 A |
| Motor speed | 2800 RPM |
| Motor voltage | 230 V / 50 Hz |
| Dimension (L x W x H) | 402 x 297 x 339 mm |
| Weight | 27 kg |


AHP-S

| Hydraulic Pump | AHP-M |
|-------------------------|--------------------|
| Max. pressure | 700 Bar |
| Max. flow rate | 1.1 l/min |
| Oil type | HLP 32 Oil |
| Filling volume | 3.2 l |
| Working volume | 2.2 l |
| Power | 1.3 KW |
| Current consumption | 5.65 A |
| Motor speed | 2800 RPM |
| Motor voltage | 230 V / 50 Hz |
| Dimension (L x W x H) | 402 x 297 x 339 mm |
| Weight | 29 kg |


AHP-M

| Item Code | Item Name | MoQ |
|---------------------|---|--------------|
| 109.06.007.2 | Busbar Bending Set 1 | 1 Set |
| | 109.06.008 Busbar bending and hole punching device - Busbar Bending/Punching Unit - Electrical angle measurer R10 - Bending die R10 - Length limit stop | 1 set |
| | 109.03.005 Hydraulic Pump AHP-M for Busbar | 1 Set |
| 109.06.007.3 | Busbar Bending Set 2 | 1 Set |
| | 109.06.008 Busbar bending and hole punching device - Busbar Bending/Punching Unit - Electrical angle measurer R10 - Bending die R10 - Length limit stop | 1 set |
| | 109.08.004 Hydraulic Pump AHP-S for Busbar | 1 Set |

| Item Code | Item Name | MoQ | 109.06.007.2 | 109.06.007.3 |
|-----------|-----------|-----|--------------|--------------|
|-----------|-----------|-----|--------------|--------------|

Optional Accessories for Bending

| | | | | |
|------------|--------------------------------|-------|---|---|
| 109.06.005 | Electric Angle Digital | 1 Set | • | • |
| 109.06.006 | Bending Die with Moveable Jaws | 1 Set | • | • |

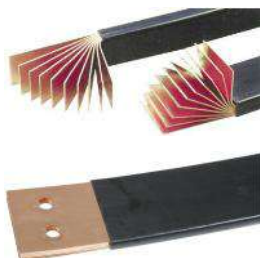

Optional Accessories for Punching

| | | | | |
|------------|--|-------|---|---|
| 209.47.001 | Busbar Punch & Die - 6.6 mm for M 6 package | 1 Set | • | • |
| 209.47.002 | Busbar Punch & Die - 9.0 mm for M 8 package | 1 Set | • | • |
| 209.47.003 | Busbar Punch & Die - 9.5 mm for M 8 package | 1 Set | • | • |
| 209.47.004 | Busbar Punch & Die - 11.0 mm for M 10 package | 1 Set | • | • |
| 209.47.005 | Busbar Punch & Die - 11.5 mm for M 10 package | 1 Set | • | • |
| 209.47.006 | Busbar Punch & Die - 13.5 mm for M 12 package | 1 Set | • | • |
| 209.47.007 | Busbar Punch & Die - 14.0 mm for M 12 package | 1 Set | • | • |
| 209.47.008 | Busbar Punch & Die - 17.5 mm for M 16 package | 1 Set | • | • |
| 209.47.009 | Busbar Punch & Die - 18.0 mm for M 16 package | 1 Set | • | • |
| 209.47.010 | Busbar Punch & Die - 21.0 mm for M 20 package | 1 Set | • | • |
| 209.47.011 | Busbar Punch & Die - 21.5 mm for M 20 package | 1 Set | • | • |
| 209.38.001 | Busbar Special Shape P/D - Oval Punch and Dies | 1 Set | • | • |


Optional Accessories for Cutting

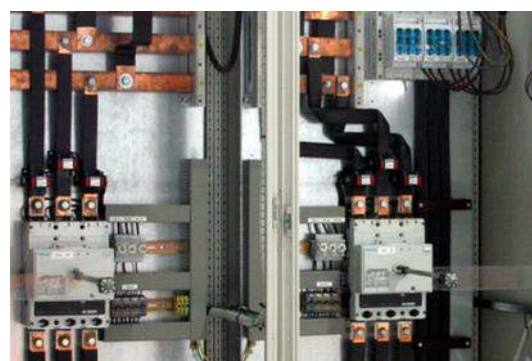
| | | | | |
|------------|--|-------|---|---|
| 109.07.001 | Busbar Cutting <ul style="list-style-type: none"> Busbar cutting device – S 125 Complete with quick coupling, vice with centring jaws and down holder | 1 Set | • | • |
|------------|--|-------|---|---|





Advantageous

- Cutting and punching on laminated Cu rails
- For punching from M6 - M14 (without insulation) and cutting of bendable laminated busbars, thickness up to 10 mm (without insulation) and width up to 100 mm (without insulation)
- Basic machine serves for holding : Cutting block and hole punching tools
- The pressure unit, made up of hydraulic piston and cylinder including punch holder in the top part, is permanently integrated in the basic unit
- There is a centric mounting hole for the die and cutter block insert in the bottom part. In addition, there are hinged stops mounted in front and on the sides for punching in the machine



Machine Specifications

| | |
|-------------------------|--------------------|
| Max. cutting thickness | 10 mm |
| Hole range | M6 - M14 |
| Dimension (L x W x H) | 150 x 250 x 400 mm |
| Weight | 32 Kg |

Footpump

AEP-1

| | |
|-------------------|---------------------------------------|
| Tank volume | 270 cm ³ |
| Max load capacity | 210 cm ³ |
| Pumping capacity | 1.7 cm ³ per piston stroke |

Hydraulic Pump

AHP-S

| | |
|-------------------------|--------------------|
| Max. pressure | 700 Bar |
| Max. flow rate | 0.58 l/min |
| Oil type | HLP 46 Oil |
| Filling volume | 3.0 l |
| Working volume | 2.2 l |
| Power | 0.75 KW |
| Current consumption | 3.26 A |
| Motor speed | 2.000 RPM |
| Motor voltage | 230 V / 50 Hz |
| Dimension (L x W x H) | 402 x 297 x 339 mm |
| Weight | 27 kg |



| Item Code | Item Name | MoQ |
|------------|--|-------|
| 109.09.001 | Punching for Processing Laminated Busbar | 1 Set |
| 109.09.002 | Cutting Block for Laminated Busbar | 1 Set |

Optional Accessories - Laminated Busbar Punch and Die

| Item Code | Item Name | MoQ |
|------------|--|-------|
| 209.50.001 | Laminated Busbar Punch & Die - 6 mm Package | 1 Set |
| 209.50.002 | Laminated Busbar Punch & Die - 9 mm Package | 1 Set |
| 209.50.003 | Laminated Busbar Punch & Die - 11 mm Package | 1 Set |
| 209.50.004 | Laminated Busbar Punch & Die - 14 mm Package | 1 Set |





Busbar Cutting



Advantageous

- For cutting copper 125 x 12 mm and aluminum bars cleanly and without flash
- The ideal supplement to our Busbar Bending and Punching Machine
- Cutting time with electro hydraulic pump SC 05 III B, in 5 up to 15 second according to busbar width
- Blank holder and support element for centered and accurate cutting
- Upper knife can be exchanged and re sharpened
- Lightweight, only 16 Kg

| Item Code | Item Name | MoQ |
|--------------|---|--------|
| 109.07.001 | Busbar Cutting | 1 Unit |
| 109.07.004.1 | Busbar Cutting with Hydraulic Pump | 1 Unit |
| | <ul style="list-style-type: none"> • Complete with quick coupling • vice with centring jaws and down holder | |



| Item Code | Item Name | MoQ |
|------------|------------------------|--------|
| 109.08.004 | Hydraulic Pump - AHP-S | 1 Unit |

Optional Accessories

| | | | | |
|------------|-------------|--------|---|---|
| 109.07.002 | Spare Knife | 1 Unit | • | • |
|------------|-------------|--------|---|---|



NOTES

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Welding Consumable Division : welding.consumable@bumiteknik.co.id
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Welding Accessories Division : welding.accessories.sby@bumiteknik.co.id
Welding Consumable Division : welding.consumable.sby@bumiteknik.co.id
Retail Division : retail.sby@bumiteknik.co.id
Service Division : service.sby@bumiservice.co.id

Bumi Service Center :

Jl. Raya Kamal No. 9, Unit G,
Jakarta Barat 11820
Telephone : +62 - 21 - 2255 3967
Fax : +62 - 21 - 2255 8374
Service Division : service.jkt@bumiservice.co.id

Semarang Branch Office :

Jl. Cendrawasih No. 8B
Semarang 50138
Telephone : +62 - 24 - 358 5809
Fax : +62 - 24 - 354 6278
Sales : bumi.smg@bumiteknik.co.id
Retail : retail.smg@bumiteknik.co.id
Service : service.smg@bumiservice.co.id

Balikpapan Branch Office :

Jl. Letkol Pol. H.M. Asnawi Arbain, Ruko Rubiz No. 39
Balikpapan Selatan 76115
Telephone : +62 - 542 - 771 728
Fax : +62 - 542 - 763 968
Sales : bumi.bpp@bumiteknik.co.id
Retail : retail.bpp@bumiteknik.co.id
Service : service.bpp@bumiservice.co.id

Bumi Distribution Center :

Jl. Raya Kamal No. 9, Unit C - Unit D,
Jakarta Barat 11820
Telephone : +62 - 21 - 555 8228
Fax : +62 - 21 - 2255 3921



website : www.bumi.info
www.bumiservice.co.id



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