



**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.

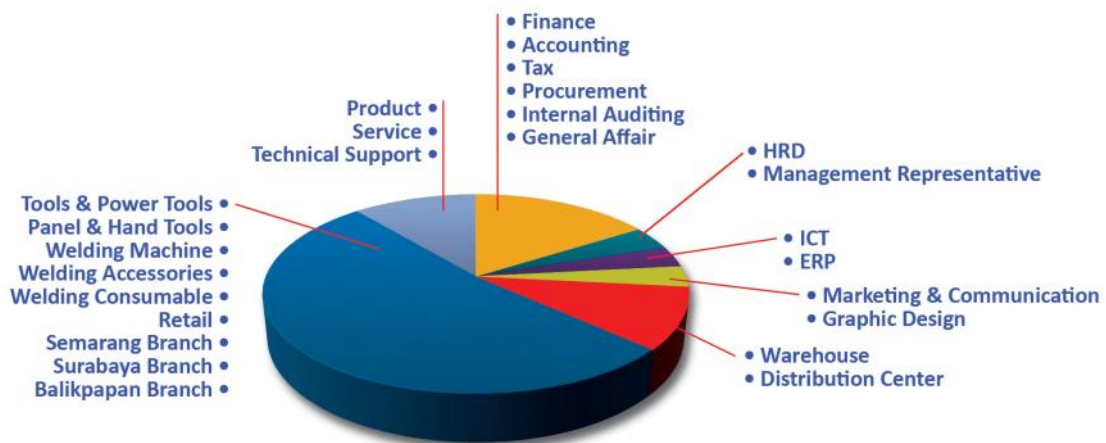
In order to serve our customers better, we established Bumi Distribution Center in Cengkareng and we are planning to open more branches in different provinces and cities in the nationwide.

51 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 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, during 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.

Stay connected with us :

 Website : [www.bumi.info](http://www.bumi.info)

 Youtube : [bumi.info](http://bumi.info)

 Facebook : [bumi.info](http://bumi.info) jakarta  
[bumi.info](http://bumi.info) semarang  
[bumi.info](http://bumi.info) surabaya  
[bumi.info](http://bumi.info) balikpapan

 Instagram : [bumi.info](http://bumi.info)

 Linked-In : [bumi.info](http://bumi.info)

 Twitter : [bumi.info](http://bumi.info)



**CONTENT**

<b>Group Name</b>	<b>Brand</b>	<b>Item Name</b>	<b>Page</b>
	ALFRA	Panel Punch & Die - Table of types and application possibilities Puncher for Manual and Hydraulic Operation - Square, Rectangular and Special Shapes	
Panel Round Punch & Die	ALFRA	Panel Round Punch and Dies	B 1 - B 2
Panel Round Punch & Die Package	ALFRA	Panel Round Punch and Dies Package	B 3
Hydraulic Screws	ALFRA	Hydraulic Screw	B 3
Panel Tristar Standard Punch & Die	ALFRA	Panel Tristar Standard Punch and Die	B 4
Panel Tristar Standard Punch & Die Set	ALFRA	Panel Tristar Standard Punch and Die Set	B 5
Panel Square Punch & Die	ALFRA	Panel Square Punch and Die	B 6
Panel Rectangular Punch & Die	ALFRA	Panel Rectangular Punch and Die	B 7
Panel Hydraulic Punching	ALFRA	Compact™ Manual Punch Straight	B 8
	ALFRA	Compact™ Manual Punch Straight - TriCut™ - Sets	B 9
	ALFRA	Compact Combi™ Manual Punch 90°	B 10
	ALFRA	Compact Combi™ Manual Punch 90° - Tricut™ - Sets	B 11
	ALFRA	Foot Pump with AEP-1	B 12
Universal Punching & Cutting	ALFRA	Universal Punching & Cutting	B 13
Wiring Duct Cuting Tool	ALFRA	Profile Rail Cutting Device - PSG Duo	B 14
	ALFRA	Profile Rail Cutting Device - PSG 4	B 15
	ALFRA	Cable Ducting Cutting Device - VKS 125	B 16
Mounting Table	ALFRA	Mounting Table - AMT 150	B 17
Busbar Bending and Punching Set	ALFRA	Busbar Bending and Punching Set	B 18 - B 20
Laminated Busbar	ALFRA	Laminated Busbar	B 21
Busbar Cutting	ALFRA	Busbar Cutting	B 22

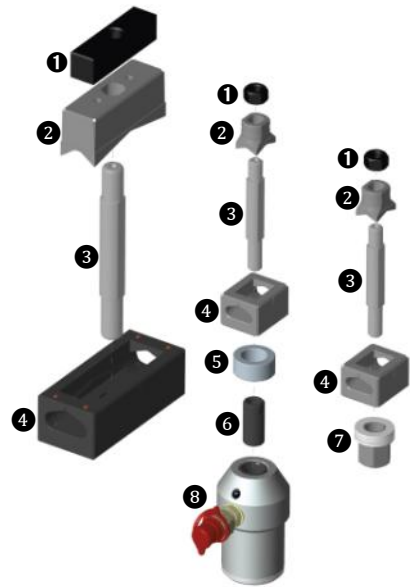
**Panel Punch & Die - Table of types and application possibilities**

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
		 <b>Standard Punch Round</b>		
12.7 - 82.0 mm	Yes	Yes	Yes	Yes
89.0 - 120.0 mm	-	-	Yes with special screw	Yes
		 <b>Splitter punch round TRISTAR/ TRISTAR PLUS/ TRISTAR PLUS-S</b>		
12.5 - 63.5 mm	Yes	Yes	Yes	Yes
		 <b>Puncher Square</b>		
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
		 <b>Puncher Square for Stainless Steel</b>		
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
		 <b>Puncher Rectangular</b>		
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
		 <b>Puncher Rectangular for Heavy Connectors</b>		
36.0 x 52.0 mm - 46.0 x 86.0 mm		Yes	Yes	Yes
46.0 x 112.0 mm				Yes
		 <b>Puncher Special Shapes</b>		
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
		 <b>Puncher Sub Min-D</b>		
9 pollg - 50 pollg	Yes	Yes	Yes	Yes

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

1. Screw draw stud ③ with thread fully into the hydraulic cylinder ⑧.
2. Die ④ must not be canted when placed on draw stud ③.  
Use distance bushes ⑤ if necessary.
3. Insert draw stud ③ through pre-drilled hole in the control cabinet door.
4. Set the punch ② squarely on the hydraulic draw stud from the rear and tighten the lock nut ①.
5. Align the puncher ② on the cross hair with the four markings.

- ① lock nut
- ② punch
- ③ draw stud
- ④ die
- ⑤ distance bush
- ⑥ adapter for hydraulic operation
- ⑦ forcing nut for manual operation
- ⑧ 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.

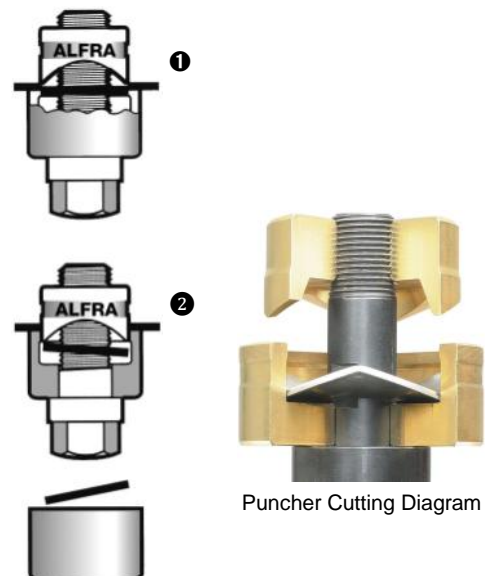
**Important !**

- 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 ⑦ instead of adapter ⑥

**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. ① 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. ②





## 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

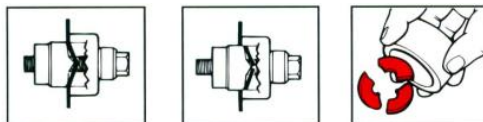
- Against seizing and excessive wear
- Resist high pressure up to 230 N/mm<sup>2</sup>
- Adheres firmly
- Resistant against water and most acids & alkaline
- Non corrosive, free of lead
- Non poisonous and non toxic
- Very much recommended when using punch and die sets







## 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	21/8"		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

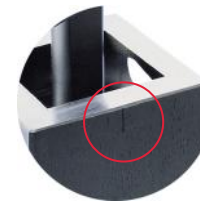




## Panel Rectangular Punch & Die



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

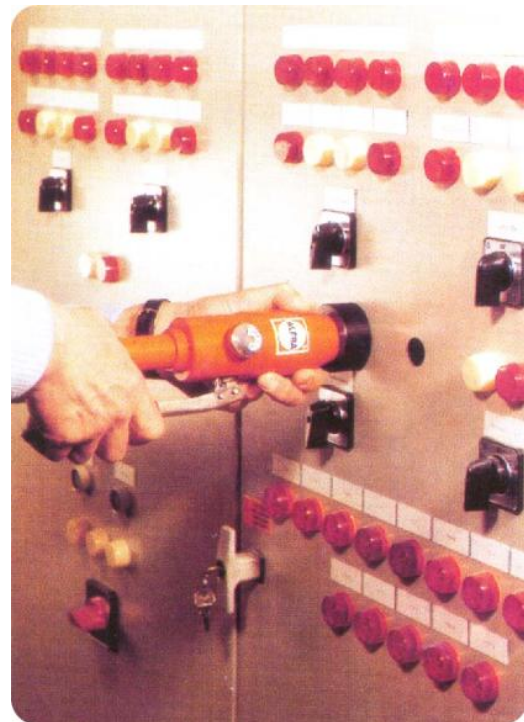
#### Mild steel

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	1 Set
	<ul style="list-style-type: none"> <li>• Hydraulic screw Ø 19 x 120 mm</li> <li>• Hydraulic screw Ø 19 reduced to 9.5 mm</li> <li>• Pre-drill HSS - Co Ø 11 mm</li> <li>• Distance bushes set 3 parts</li> <li>• Plastic case</li> </ul>	





## 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

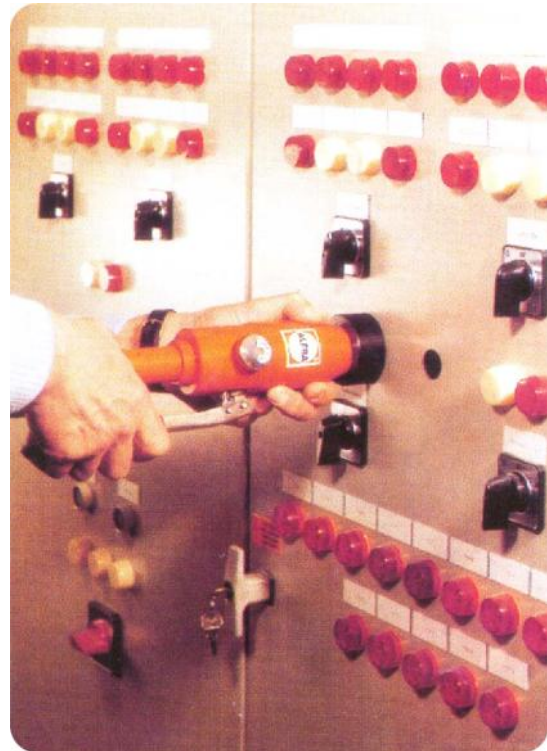
### Specifications

#### Mild steel

Round	Ø 82 mm	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

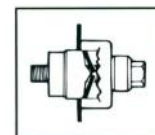
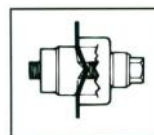
Round	Ø 60 mm	2.5 mm
Punching power	75 KN	
Pressure	Max. 650 bar	
Weight	1.6 Kg	



Item Code	Item Name	MoQ
-----------	-----------	-----

**109.04.002 Compact™ Manual Punch Straight - TriCut™ - Sets 1 Set**

- 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





## 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"> <li>• Hydraulic screw Ø 19 x 120 mm</li> <li>• Hydraulic screw Ø 19 reduced to 9.5 mm</li> <li>• Pre-drill HSS - Co Ø 11 mm</li> <li>• Distance bushes set 3 parts</li> <li>• Plastic case</li> </ul>	



# 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

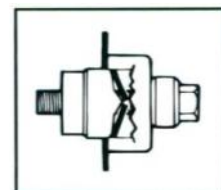
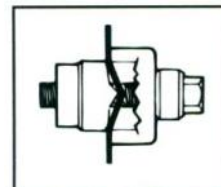
### Specifications

#### Mild steel

Round	Ø 82 mm	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	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	
------------	--	--

- 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

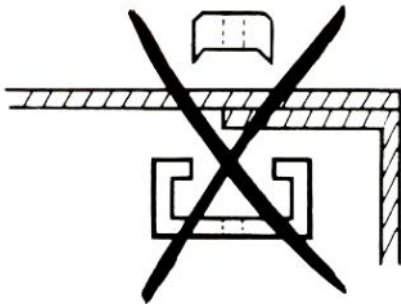


### Advantageous

- 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 <sup>3</sup>
Max load capacity	210 cm <sup>3</sup>
Pumping capacity	1.7 cm <sup>3</sup> per piston stroke

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



## 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

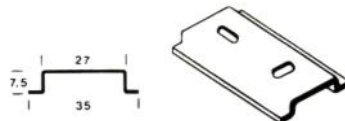
Item Code	Item Name	MoQ
109.05.001	<b>Profile Rail Cutting Device - PSG 5+ with Punch 12 x 6.4 mm</b> + Complete with length and side ways hole punches 12 x 6.4 mm and measuring device 1 m also with guide arrangement	1 Set

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

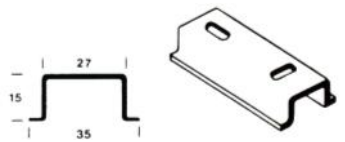


### Standard Version

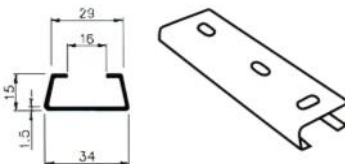
Carrier rail 35 mm/7.5  
accord. to EN 60715



Carrier rail 35 mm/15  
accord. to EN 60715



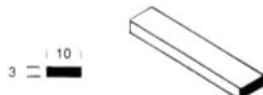
C. Profile 3415



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

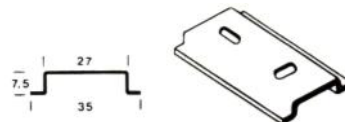
- For the most common DIN carrier rails, with hand lever operation
- Exactly and easily cuts profile and earthing rails.
- Standard version for TS 35/7,5 + 35/15 mm
- With rail support element for accurate 90° cuts
- With reinforced eccentric that lies directly above the shearing blade
- Little force 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

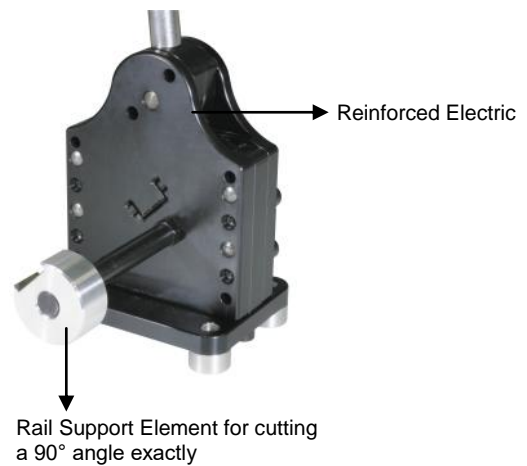
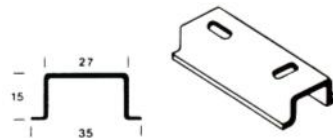
Standard Version, complete with Length Stop and rail support element

### Carrier Rails

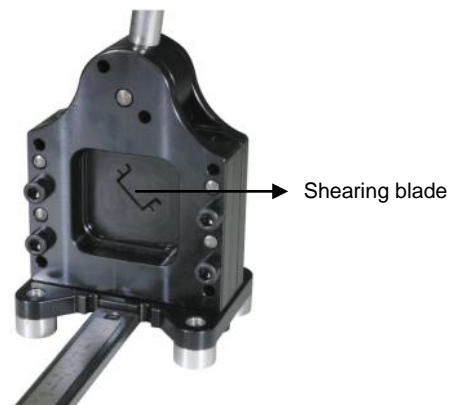
Carrier rail 35 mm/7.5 accord. to EN 60715



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

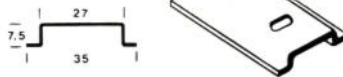
- For DIN carriers rails with hand lever operation
- Cuts profile and earthing rails exactly and effortless
- Standard version for TS 35/7.5 - 35/15 - 15/5.5 - Cu 10.0 x 3.0 mm
- With reinforced eccentric located directly above the shearing blade
- Less use of force due to better force transfer
- Anodised, 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 overrun )

### 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"> <li>• Clamping unit with screw</li> <li>• clamping unit with quick release</li> <li>• screw adapter for operation with cordless drill</li> </ul>	





## Busbar Bending & Punching Set



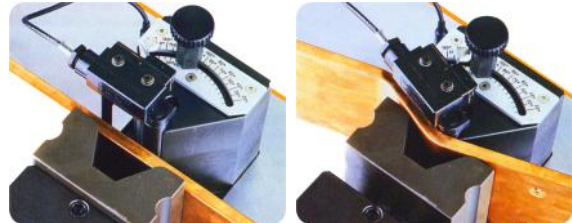
### Advantageous

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.



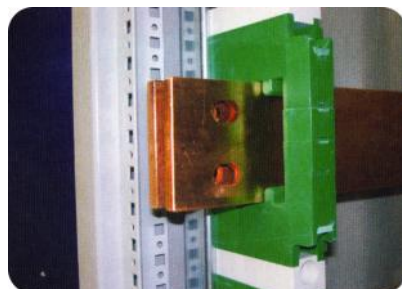
### Machine Specifications

#### 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
<b>109.06.007.2</b>	<b>Busbar Bending Set 1</b>	<b>1 Set</b>
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
<b>109.06.007.3</b>	<b>Busbar Bending Set 2</b>	<b>1 Set</b>
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



109.06.007.2  
109.06.007.3

Item Code	Item Name	MoQ		
<b>Optional Accessories for Bending</b>				
109.06.005	Electric Angle Digital	1 Set	•	•
109.06.006	Bending Die with Moveable Jaws	1 Set	•	•

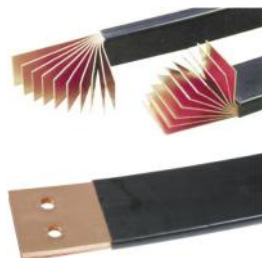


<b>Optional Accessories for Punching</b>				
209.47.001	Busbar Punch & Die - 6.6 mm for M 6 package	1 Set	•	•
209.47.002	Busbar Punch & Die - 9.0 mm for M 8 package	1 Set	•	•
209.47.003	Busbar Punch & Die - 9.5 mm for M 8 package	1 Set	•	•
209.47.004	Busbar Punch & Die - 11.0 mm for M 10 package	1 Set	•	•
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	•	•



<b>Optional Accessories for Cutting</b>				
<b>109.07.001</b>	<b>Busbar Cutting</b> • Busbar cutting device – S 125 • Complete with quick coupling, vice with centring jaws and down holder	1 Set	•	•

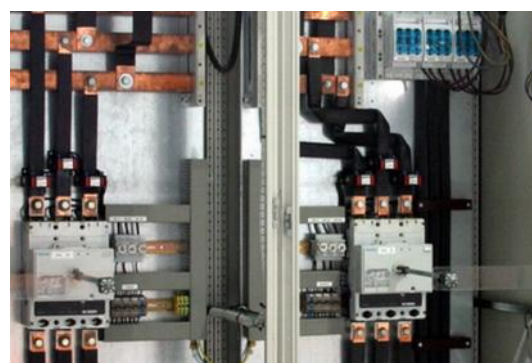




## Laminated Busbar

### 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

Tank volume	270 cm <sup>3</sup>
Max load capacity	210 cm <sup>3</sup>
Pumping capacity	1.7 cm <sup>3</sup> per piston stroke

### Hydraulic Pump

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
	• Complete with quick coupling	
	• vice with centring jaws and down holder	



Item Code	Item Name	MoQ	109.07.001	109.07.004.1
<b>Standard Accessories</b>				
109.08.004	Hydraulic Pump - AHP-S	1 Unit		•

<b>Optional Accessories</b>				
109.07.002	Spare Knife	1 Unit	•	•







#### Jakarta Head Office :

Jl. Pangeran Jayakarta 141, Block II No. C 4 & 5, Jakarta 10730  
Telephone : +62 - 21 - 600 8460  
Fax : +62 - 21 - 624 4405, 649 0759  
Tools & Power Tools Division : tools@bumi.info  
Panel & Hand Tools Division : pht@bumi.info  
Welding Machine Division : welding.machine@bumi.info  
Welding Accessories Division : welding.accessories@bumi.info  
Welding Consumable Division : welding.consumable@bumi.info  
Retail Division : retail@bumi.info  
Service Division : service.jkt@bumi.info

#### Surabaya Branch Office :

Jl. Saroni Jiwo No. 4 , Surabaya 60299  
Telephone : +62 - 31 - 847 5608  
Fax : +62 - 31 - 841 1736  
Tools & Power Tools Division : tools.sby@bumi.info  
Panel & Hand Tools Division : pht.sby@bumi.info  
Welding Machine Division : welding.machine.sby@bumi.info  
Welding Accessories Division : welding.accessories.sby@bumi.info  
Welding Consumable Division : welding.consumable.sby@bumi.info  
Retail Division : retail.sby@bumi.info  
Service Division : service.sby@bumi.info

#### Semarang Branch Office :

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

#### 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@bumi.info  
Retail : retail.bpp@bumi.info  
Service : service.bpp@bumi.info

#### Bumi Distribution Center :

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



website : [www.bumi.info](http://www.bumi.info)



Facebook : [bumi.info jakarta](https://www.facebook.com/bumi.info.jakarta)  
[bumi.info semarang](https://www.facebook.com/bumi.info.semarang)  
[bumi.info surabaya](https://www.facebook.com/bumi.info.surabaya)  
[bumi.info balikpapan](https://www.facebook.com/bumi.info.balikpapan)



Youtube : [bumi.info](https://www.youtube.com/bumi.info)



Instagram : [bumi.info](https://www.instagram.com/bumi.info)



Linked-In : [bumi.info](https://www.linkedin.com/bumi.info)



Twitter : [bumi.info](https://www.twitter.com/bumi.info)