

MANUAL PUNCHES





- Up to 750 bar pressure
- Up to 138 x 138 mm square
- Up to 152 mm round
- Only 1.45 kg

Compact™ manual punch straight

for use in construction of switch gear and control cabinets - suitable for all hole punch types
Loading only takes place in the tension direction and makes work considerably easier

- 1 Precisely-matched overpressure valve**
- 2 Reinforced handle - soft touch**
- 3 Body hard-anodised, stable grip, elegant**
- 4 Weighs only 1.45 kg**
- 5 High-compression cylinder bore surface**
- 6 Lasered production code on rear**
- 7 High punching force of 75 kN**





Ø mm	15,2	16,2	18,6	20,4	22,5	25,4	28,3	32,5	37	40,5	47	50,5	54	60	63,5
Ø metric	-	M 16	-	M 20	-	M 25	-	M 32	-	M 40	-	M 50	-	-	M 63
Ø PG	9	-	11	13	16	-	21	-	29	-	36	-	42	48	-
Ø Inch					7/8"	1"							2-1/8"		2-1/2"
	0.598	0.638	0.732	0.803	0.886	1.000	1.114	1.280	1.457	1.594	1.850	1.988	2.126	2.362	2.500

Item no

Set MonoCut™ - for sheet steel (S235):

1 Compact™ manual punch straight / MonoCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9,5 mm / 1 HSS pre-drill Ø 11 mm / 1 spacer sleeve set (3-part)

	02006	•		•	•	•		•		•		•		•	
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Set TriCut™ - for sheet steel (S235):

1 Compact™ manual punch straight / TriCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9,5 mm / 1 HSS pre-drill Ø 10 mm / 1 spacer sleeve set (3-part)

	01752	•		•	•	•		•		•		•		•	•
	01765		•		•		•		•		•				
	01758		•		•		•		•			•			•

Set TriCut+™ - for sheet steel (S235) and stainless steel sheeting:

1 Compact™ manual punch straight / TriCut+™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 11,1 mm / 1 HSS pre-drill Ø 11,5 mm / 1 spacer sleeve set (3-part)

	01650	•		•	•	•		•		•		•		•	
	01642		•		•		•		•		•				
	01654		•		•		•		•			•			•

Set TwinCut™ - for sheet steel (S235) and stainless steel sheeting:

1 Compact™ manual punch straight / TwinCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9,5 mm / 1 draw bolt Ø 19 x 11,1 mm / 1 HSS pre-drill Ø 11,5 mm / 1 spacer sleeve set (3-part)

	01570		•		•		•		•		•				
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Compact™ manual punch straight:

1 Compact™ manual punch straight / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9,5 mm / 1 HSS pre-drill Ø 11 mm / 1 spacer sleeve set (3-part)

	02001	without punches and dies													
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CompactCombi™ manual punch 90°

for use in construction of switch gear and control cabinets - suitable for all hole punch types
Loading only takes place in the tension direction and makes work considerably easier

- 1 Precisely-matched overpressure valve
- 2 Reinforced handle - soft touch
- 3 Body hard-anodised, stable grip, elegant
- 4 Weighs only 1.75 kg
- 5 High-compression cylinder bore surface
- 6 Lasered production code on rear
- 7 High punching force of 75 kN





Ø mm	15,2	16,2	18,6	20,4	22,5	25,4	28,3	32,5	37	40,5	47	50,5	54	60	63,5
Ø metric	-	M 16	-	M 20	-	M 25	-	M 32	-	M 40	-	M 50	-	-	M 63
Ø PG	9	-	11	13	16	-	21	-	29	-	36	-	42	48	-
Ø Inch					7/8"	1"							2-1/8"		2-1/2"
	0.598	0.638	0.732	0.803	0.886	1.000	1.114	1.280	1.457	1.594	1.850	1.988	2.126	2.362	2.500

Item no

Set MonoCut™ - for sheet steel (S235):

1 CompactCombi™ manual punch 90° / MonoCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9.5 mm / 1 HSS pre-drill Ø 11 mm / 1 spacer sleeve set (3-part)

	02052	•		•	•	•		•		•		•		•	•	
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Set TriCut™ - for sheet steel (S235):

1 CompactCombi™ manual punch 90° / TriCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9.5 mm / 1 HSS pre-drill Ø 10 mm / 1 spacer sleeve set (3-part)

	01753	•		•	•	•		•		•		•		•	•	
	01766		•		•		•		•		•					
	01759		•		•		•		•		•		•			•

Set TriCut+™ - for sheet steel (S235) and stainless steel sheeting:

1 CompactCombi™ manual punch 90° / TriCut+™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 11.1 mm / 1 HSS pre-drill Ø 11.5 mm / 1 spacer sleeve set (3-part)

	01651	•		•	•	•		•		•		•		•		
	01643		•		•		•		•		•					
	01655		•		•		•		•		•		•			•

Set TwinCut™ - for sheet steel (S235) and stainless steel sheeting:

1 CompactCombi™ manual punch 90° / TwinCut™ punches and dies / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9.5 mm / 1 draw bolt Ø 19 x 11.1 mm / 1 HSS pre-drill Ø 11.5 mm / 1 spacer sleeve set (3-part)

	01575		•		•		•		•		•					
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CompactCombi™ manual punch 90°:

1 CompactCombi™ manual punch 90° / 1 draw bolt Ø 19 mm / 1 draw bolt Ø 19 x 9.5 mm / 1 HSS pre-drill Ø 11 mm / 1 spacer sleeve set (3-part)

	02050	without punches and dies													
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Akku-Compact Flex™

for use in construction of switch gear and control cabinets - suitable for all hole punch types
Loading only takes place in the tension direction and makes work considerably easier

- 1 Handle inset soft touch
- 2 High-pressure hose - flexible, elastic
- 3 USB interface for readable pressure values, service intervals etc....
- 4 Pressure sensor - automatic detection of punch breakthrough. Once the material has been punched through, the punch can not damage the die.



Practical manual hydraulics with 18 V Li-ion battery for punching circular, square and rectangular cutouts in control cabinet and switch gear construction. Extremely easy to handle and light thanks to high-tensile aluminium head.

- Light and easy to handle, only 2.5 kg including battery

Technical data:

Punching

Circular holes:

up to 82 mm Ø

3.0 mm sheet steel (S235)

2.0 mm stainless steel (F = 600 N/mm²)

89 - 152 mm Ø only with special traction bolt* and spacer*

2.0 mm sheet steel (S235)

1.5 mm stainless steel (F = 600 N/mm²)

Shaped holes:

68 x 68 mm

3.0 mm sheet steel (S235),

2.0 mm stainless steel (F = 600 N/mm²)

92 x 92 mm only with special traction bolt* and spacer*

2.0 mm sheet steel (S235)

1.5 mm stainless steel (F = 600 N/mm²)

Drive

Max. punching force: 75 kN

Max. hydraulic pressure: 680 bar

Battery

Charging time: 18 V Li-ion / 1.5 Ah

Use: 30 mins. after full discharge

- 10° - + 40° C

Battery charger

Charges all batteries 18 - 28 V, compatible for NiCD, NiMH and Li-ion batteries.

Automatic temperature monitoring. Battery cell overcharging is prevented by switchover from rapid charging to trickle charging.

The charging state is shown by the LED display.

The PCB is completely enclosed.

Punching capacity with 1.5 Ah battery

195 x Ø 22.5 mm MonoCut™ to 2.5 mm S235

165 x Ø 22.5 mm TriCut™ to 2.5 mm S235

105 x Ø 63.5 mm MonoCut™ to 2.5 mm S235

65 x Ø 63.5 mm TriCut™ to 2.5 mm S235

170 x Ø 22.5 mm TwinCut™ to 1.5 mm V2A

95 x Ø 63.5 mm TwinCut™ to 1.5 mm V2A

Weight

2.5 kg including battery

Scope of delivery:

Prod.-No.

ALFRA Akku-Compact Flex™ manual hydraulics

02082

with 1 battery 18 V, charger 18 - 28 V

Draw bolts – 9.5 x 19 mm – Prod.-No. 02003

Draw bolts – 19 x 120 mm – Prod.-No. 02002

Spacer sleeve set 3-part – Prod.-No. 02004

Pre-drill 11 mm Ø – Prod.-No. 08023

in heavy duty, practical plastic case

Spare parts:

Prod.-No.

Replacement battery

02082-01

Battery charger 220 V - 240 V

02082-03

* Special draw bolt for square holes 92 x 92 mm

01395

* Special draw bolt for round holes 89 x 152 mm

01398L

* Special spacer sleeve

01396



Prod.-No. 02082



Prod.-No. 02072



Prod.-No. 02071

Compact Flex™ manual hydraulics

for use in construction of switch gear and control cabinets - suitable for all hole punch types
Loading only takes place in the tension direction and makes work considerably easier

- ① Precisely-matched overpressure valve
- ② Reinforced handle - soft touch
- ③ Body hard-anodised, stable grip, elegant
- ④ Weighs only 2 kg
- ⑤ High-compression cylinder bore surface
- ⑥ Lasered production code on rear
- ⑦ High punching force of 75 kN
- ⑧ High-pressure hose flexible - elastic



Punching capacity

Circular holes up to Ø 152 mm
Square holes up to 68 x 68 mm

Punching force: 75 kN
Operating pressure max.: 680 bar
Hydraulic hose length: 600 mm
Weight: 2.0 kg

Scope of delivery:

- 1 Compact Flex™ manual hydraulic punch
- 1 draw bolt Ø 19.0
- 1 draw bolt Ø 19.0 x 9.5 mm
- 1 HSS pre-drill Ø 11.0 mm
- 1 spacer sleeve set 3-part

Compact Flex™ manual hydraulics
in heavy duty, practical plastic case

Prod.-No.
02065

Practical manual hydraulics with 18 V NiMH battery for punching circular, square and rectangular cutouts in control cabinet and switch gear construction. Extremely easy to handle and light thanks to high-tensile aluminium head.

- Light and easy to handle, only 3.7 kg with battery package
- With overpressure valve.
- High-performance drive motor with ergonomically-designed "soft touch" handle
- Battery packages can be pushed in from both sides, therefore weight compensation.

Technical data:

Punching

Circular holes:

up to 82 mm Ø

3.0 mm sheet steel (S235)

2.0 mm stainless steel (F = 600 N/mm²)

89 - 152 mm Ø only with special traction bolt* and spacer*

2.0 mm sheet steel (S235)

1.5 mm stainless steel (F = 600 N/mm²)

Shaped holes:

68 x 68 mm

3.0 mm sheet steel (S235),

2.0 mm stainless steel (F = 600 N/mm²)

92 x 92 mm only with special traction bolt* and spacer*

2.0 mm sheet steel (S235)

1.5 mm stainless steel (F = 600 N/mm²)

Drive

Punching force:

75 kN with overpressure valve

Battery

18 V, 3.0 Ah NiMH

Charging time:

45 mins. after full discharge

Charging cycles:

~ 500 under normal conditions

Use:

0° - + 40° C, capacity loss below 0° C

Battery charger

Charges all batteries 18 - 28 V, compatible for NiCD, NiMH and Li-Ion batteries.

Automatic temperature monitoring. Battery cell overcharging is prevented by switchover from rapid charging to trickle charging.

The charging state is shown by the LED display.

The PCB is completely enclosed.

Punching time/Punching capacity

Ø 22.5 mm	2 mm sheet steel (S235)	5 sec.	190 holes/battery
Ø 63.5 mm	2 mm sheet steel (S235)	7 sec.	100 holes/battery
68 x 68 mm	2 mm sheet steel (S235)	7 sec.	70 holes/battery

Weight

3.7 kg with battery

2.7 kg without battery

Weight cpl. 7.8 kg without punching tools

Scope of delivery:

ALFRA Akku-Compact manual hydraulics

with 2 batteries 18 V, charger 18 - 28 V

Draw bolts - 9.5 x 19 mm - Prod.-No. 02003

Draw bolts - 19 x 120 mm - Prod.-No. 02002

Spacer sleeve set 3-part - Prod.-No. 02004

Pre-drill 11 mm Ø - Prod.-No. 08023

in heavy duty, practical plastic case

Prod.-No.

02070

Spare parts:

Replacement battery

Prod.-No.

02071

Battery charger 220 V - 240 V

02072

* Special draw bolt for square holes 92 x 92 mm

01395

* Special draw bolt for round holes 89 x 152 mm

01398L

* Special spacer sleeve

01396



Prod.-No. 02070



Prod.-No. 02072



Prod.-No. 02071