



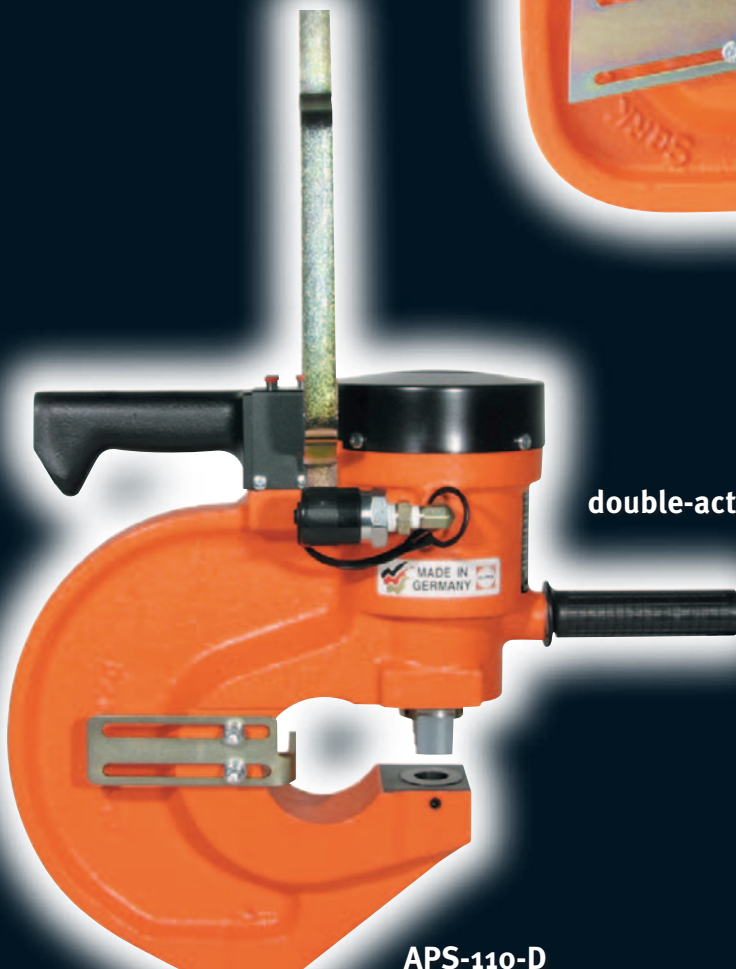
ALFRA PRESS

single-acting



APS-120

double-acting



APS-110-D

B

ALFRA HYDRAULIC PUNCHING UNITS



- ▶ **EASILY PORTABLE, FULLY AUTOMATIC HYDRAULIC PUNCHING UNITS FOR STEEL-, BRIDGE-, CONTAINER, CRANE- AND METAL CONSTRUCTION**
- ▶ **MOBILE USE, NO TRANSPORT OF MATERIAL**
- ▶ **ALMOST NOISELESS PUNCHING**
- ▶ **EASY POSITIONING THROUGH STOP-FUNCTION OF PUNCH**
- ▶ **FOR CHOICE:
SINGLE OR DOUBLE ACTION**



ALFRA-PRESS HYDRAULIC PUNCHES – @OVERVIEW

Made in Germany by ALFRA



APS 60



APS 70

Page	B/60	B/60	
Prod.-No.	23001	23002	
Max. hole Ø	18 mm 11/16"	22 mm 7/8"	
Max. oblong hole	–	22 x 14 mm 7/8" x 9/16"	
Max. material thickness (S235)	10 mm 3/8"	13 mm 1/2"	
Overall punch time with pump ...	SC 05 II-B: approx. 7 sec. SC 17: approx. 4 sec.	SC 05 II-B: approx. 10 sec. SC 17: approx. 4 sec.	
Throat depth	60 mm 2-3/8"	70 mm 2-3/4"	
Max. pressure	700 bar 10.150 psi	700 bar 10.150 psi	
Punching force	22 t	30 t	
Punch stroke	16 mm 5/8"	18 mm 11/16"	
Weight	20.8 kg / 45.8 lbs	29.9 kg / 65.9 lbs	
Scope of Supply	Hydraulic hose, 5 m / spanner Punch/die Ø 14 mm	Hydraulic hose, 5 m / spanner Punch/die Ø 18 mm Depth adjustment, suspension bracket	



HYDRAULIC PUMPS FOR



SC 05 II-B

Page	B/61	
Prod.-No.	23007	
Max. pressure	750 bar / 10.670 psi	
Pumping capacity	0.94 l/min at 2.770 rpm	
Motor power	1.100 W, 230V (50 Hz)* * upon request: 230V (60 Hz); 110 V (50 Hz); 110V (60 Hz)	
Oil flow	5 l	
Weight including oil fill volume	28.2 kg / 62.2 lbs	



ALFRA-PRESS HYDRAULIC PUNCHES – OVERVIEW

Made in Germany by ALFRA



APS 120

B/60

23004

25 mm

1-1/16"

25 x 18 mm

1" x 11/16"

16 mm

5/8"

SC 05 II-B: approx. 16 sec.

SC 17: approx. 5 sec.

110 mm

4-3/8"

700 bar

10.150 psi

44 t

25 mm

15/16"

47.3 kg / 104.2 lbs

Hydraulic hose, 5 m / spanner
Punch/die Ø 22 mm
Depth adjustment, suspension bracket



APS 110 D

B/62

23181

25 mm

1-1/16"

25 x 18 mm

1" x 11/16"

16 mm

5/8"

SC 17 D: approx. 8 sec.

110 mm

4-3/8"

700 bar

10.150 psi

44 t

25 mm

15/16"

38.5 kg / 84.8 lbs

Hydraulic hose, 5 m / spanner
Punch/die Ø 22 mm
Depth adjustment, suspension bracket

APS 60 / 70 / 120



SC 17

B/61

23170

750 bar / 10.670 psi

1.5 l/min at 1.370 rpm

1.500 W, 230V (50 Hz)*

* upon request:

230V (60 Hz); 110V (50 Hz); 110V (60 Hz)

17 l

64 kg / 141 lbs

**HYDRAULIC PUMPS
FOR APS 110D**



SC 17 D

B/62

23186

750 bar / 10.670 psi

1.4 l/min at 1.370 rpm

1.500 W, 230V (50 Hz)*

* upon request:

230V (60 Hz); 110V (50 Hz); 110V (60 Hz)

17 l

67 kg / 148 lbs



B



ALFRA-PRESS – HYDRAULIC PUNCHES, SINGLE-ACTION

Made in Germany by ALFRA

ALFRA-Press APS 60

Prod.-No.

Hydraulic punching unit with
Automatic return using Neoprene spring

23001

Technical specifications:

max. hole Ø mm	18 mm
max. material thickness as per DIN S275	10 mm
total punch time	
with pump SC 05 II B	approx. 7 sec.
with pump SC 17	approx. 4 sec.
throat depth	60 mm
max. pressure	700 bar (10.000 psi)
punching force	22 t
punch stroke	16 mm
weight	20.8 kg

Scope of Supply:

Punching unit, control cable, hydraulic hose 5 m, spanner,
1 x punch and die each, Ø 14 mm



Prod.-No. 23001

ALFRA-Press APS 70

Prod.-No.

Hydraulic punching unit with
Automatic return using Neoprene spring

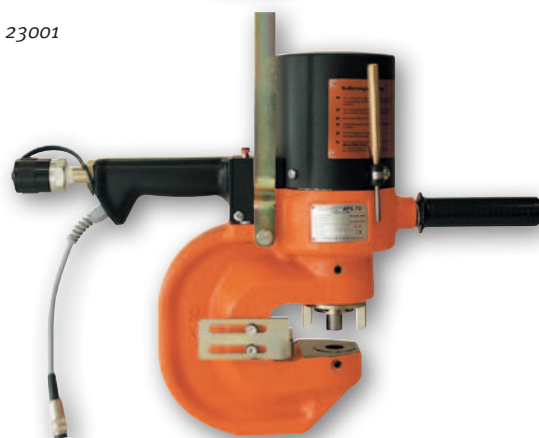
23002

Technical specifications

max. hole Ø mm	22 mm
max. oblong holes	22 x 14 mm
max. material thickness as per DIN S275	13 mm
total punch time	
with pump SC 05 II B	10 sec.
with pump SC 17	4 sec.
throat depth	70 mm
max. pressure	700 bar (10.000 psi)
punching force	30 t
punch stroke	18 mm
weight	29.9 kg

Scope of Supply:

Punching unit, control cable, hydraulic hose 5 m, spanner,
1 x punch and die each Ø 18 mm, 1 depth adjustment, 1 suspension bracket



Prod.-No. 23002

ALFRA-Press APS 120

Prod.-No.

Hydraulic punching unit with
automatic return using Neoprene spring

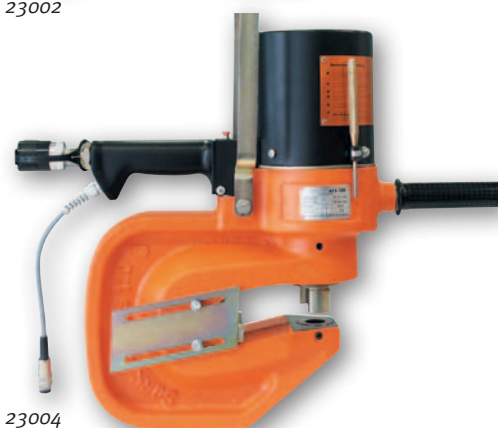
23004

Technical specifications

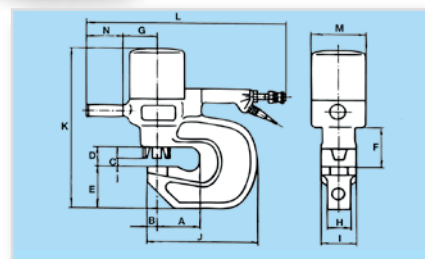
max. hole Ø mm	25 mm
max. oblong holes	25 x 18 mm
max. material thickness as per DIN S275	16 mm
total punch time	
with pump SC 05 II B	16 sec.
with pump SC 17	5 sec.
throat depth	110 mm
max. pressure	700 bar (10.000 psi)
punching force	44 t
punch stroke	25 mm
weight	47.3 kg

Scope of Supply:

Punching unit, control cable, hydraulic hose 5 m, spanner,
1 x punch and die each Ø 22 mm, 1 depth adjustment, 1 suspension bracket



Prod.-No. 23004



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
APS 60	60	17	12	51	73	92	75	40	74	162	360	552	110	135
APS 70	70	24	15	51	85	100	80	40	80	204	382	562	125	135
APS 120	110	25	18	51	111	110	90	68	100	285	442	585	144	135

Important technical notice:

Standard punching units are not normally suitable for punching high-strength tooling steel, stainless steels or boiler-plate steel.
Refer to us for technical advice for punching work in this application range.



Two hydraulic pumps are fitted to operate the punching unit

ALFRA Hydraulic Pump SC 05 II-B for APS 60, 70, 120

		Prod.-No.
ALFRA hydraulic pump SC 05 II-B	230V 50 Hz	23007
ALFRA hydraulic pump SC 05 II-B	230V 60 Hz	23007.230-60Hz*
ALFRA hydraulic pump SC 05 II-B	110V 50 Hz	23007.110-50Hz*
ALFRA hydraulic pump SC 05 II-B	110V 60 Hz	23007.110-60Hz*

Technical specifications:

max. operating pressure	750 bar (10.670 psi)
pump output	0.94 l/min at 2.770 rpm.
oil fill amount	5.0 l
single-phase motor, 2.770 rpm.	1.100 W 110V or 230V 50 Hz or 60 Hz
weight incl. oil fill volume	28.2 kg

* Upon request

Prod.-No. 23007



ALFRA Hydraulic Pump SC 17 for APS 60, 70, 120

		Prod.-No.
ALFRA hydraulic pump SC 17	230V 50 Hz	23170
ALFRA hydraulic pump SC 17	230V 60 Hz	23170.230-60Hz*
ALFRA hydraulic pump SC 17	110V 50 Hz	23170.110-50Hz*
ALFRA hydraulic pump SC 17	110V 60 Hz	23170.110-60Hz*

Complete with control system and switching cases.

These new hydraulic pumps were developed in order to drastically reduce punching times. These are particularly suited to workshop use.

Technical specifications:

max. operating pressure	750 bar (10.670 psi)
pump output	at 50 Hz, 1.50 l/min. at 1.370 rpm.
oil fill amount	17 l
single-phase motor, 1.450 rpm.	1.500 W 230 V 50 Hz
weight including oil fill volume	
and transport rollers	64 kg
dimensions L x W x H	550 x 370 x 560 mm

* Upon request

Prod.-No. 23170



SC 17



ALFRA-PRESS – HYDRAULIC HOLE PUNCHES, DOUBLE-ACTION

Made in Germany by ALFRA

ALFRA-Press APS 110D

Hydraulic punching unit with automatic return

Prod.-No.

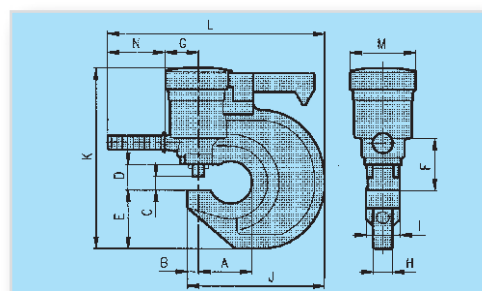
23181

Technical specifications

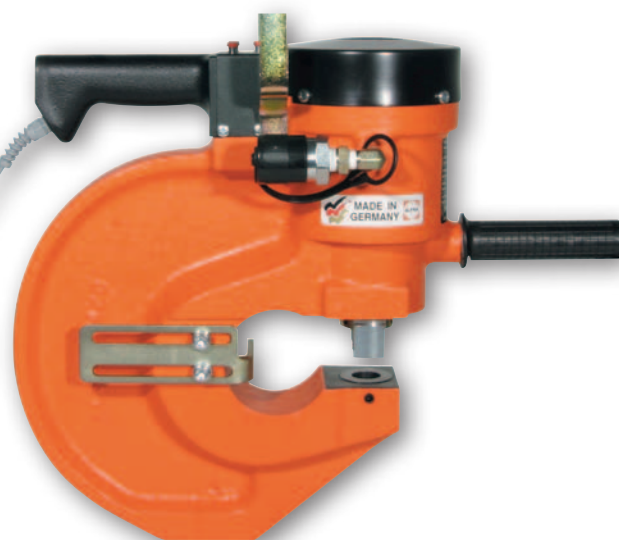
max. hole Ø mm	25 mm
max. oblong holes	25 x 18 mm
max. material thickness as per DIN S275	16 mm
total punch time	
with pump SC 17-D	8 sec.
throat depth	110 mm
max. pressure	700 bar (10.000 psi)
punching force	44 t
punch stroke	25 mm
weight	38.5 kg

Scope of Supply:

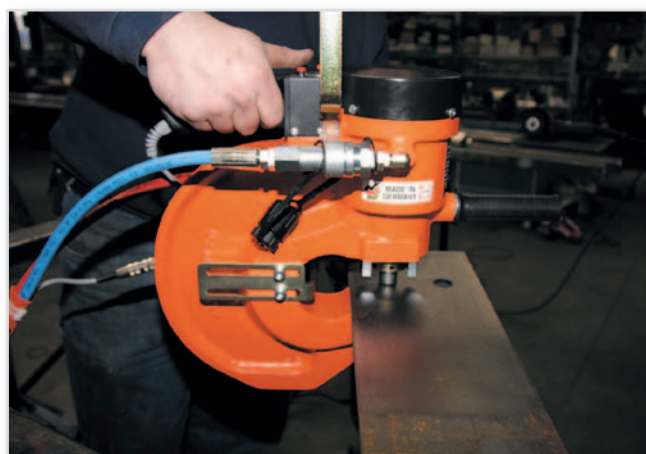
Punching unit, control cable, hydraulic hose 5 m, spanner, 1 x punch and die each Ø 22 mm, 1 depth adjustment, 1 suspension bracket



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
APS 110D	110	24	18	55	90	112	73	41	78	295	387	468	141	124



Prod.-No. 23181



Important technical notice:

Standard punching units are not normally suitable for punching high-strength tooling steel, stainless steels or boiler-plate steel. Refer to us for technical advice for punching work in this range of application.

ALFRA Hydraulic Pump SC 17D for APS 110D

Dual-action

Prod.-No.

ALFRA hydraulic pump SC 17D	230V 50 Hz	23186
ALFRA hydraulic pump SC 17D	230V 60 Hz	23186.230-60Hz*
ALFRA hydraulic pump SC 17D	110V 50 Hz	23186.110-50Hz*
ALFRA hydraulic pump SC 17D	110V 60 Hz	23186.110-60Hz*

* Upon request

With connection for double hose package

These new hydraulic pumps were developed in order to drastically reduce punching times. These are particularly suited to workshop use.

Technical specifications:

max. operating pressure	750 bar (10.670 psi)
pump output	50 HZ 1.40 l/min. at 1.370 rpm.
oil fill amount	17 l
single-phase motor, 1.450 rpm.	1.500 W 230 V 50 Hz
weight including oil fill volume	
and transport rollers	67 kg
dimensions L x W x H	550 x 370 x 560 mm



Connection for double hose package



Prod.-No. 23186

SC 17 D



APS Go

For all types of APS hydraulic punching units.



For all types of APS hydraulic punching units

APS GO enables you to easily move our punching units over the steel bar.

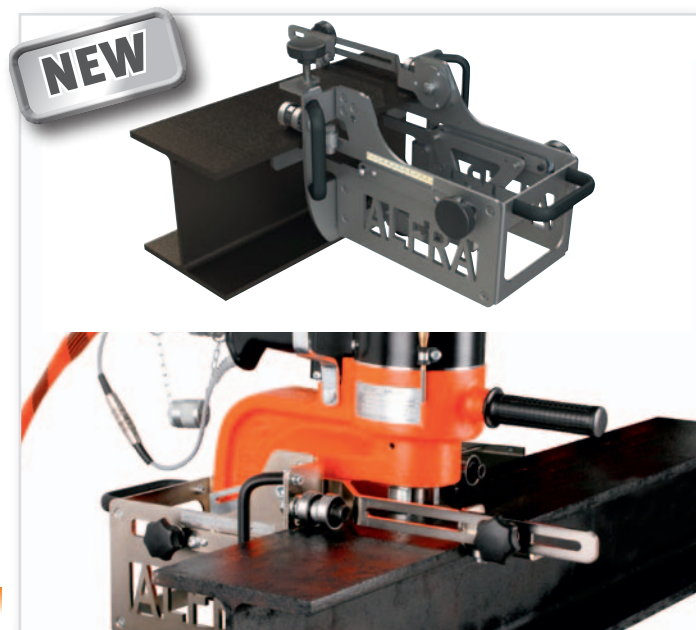
An adapter plate connects the punching unit to the moving system, and allows this to be removed at any time.

This generates enormous time savings, especially when punching at identical space intervals, as the measurement needs only to be set once, and the interval lengths are easy to measure.

Massive, solid heavy-duty rollers and the side-mounted hand grips enable completely effortless movement over the steel bar.

Dimensions (L x W x H): 700 x 355 x 280 mm

Weight: 14 kg / 30.8 lbs



Prod.-No.
23155

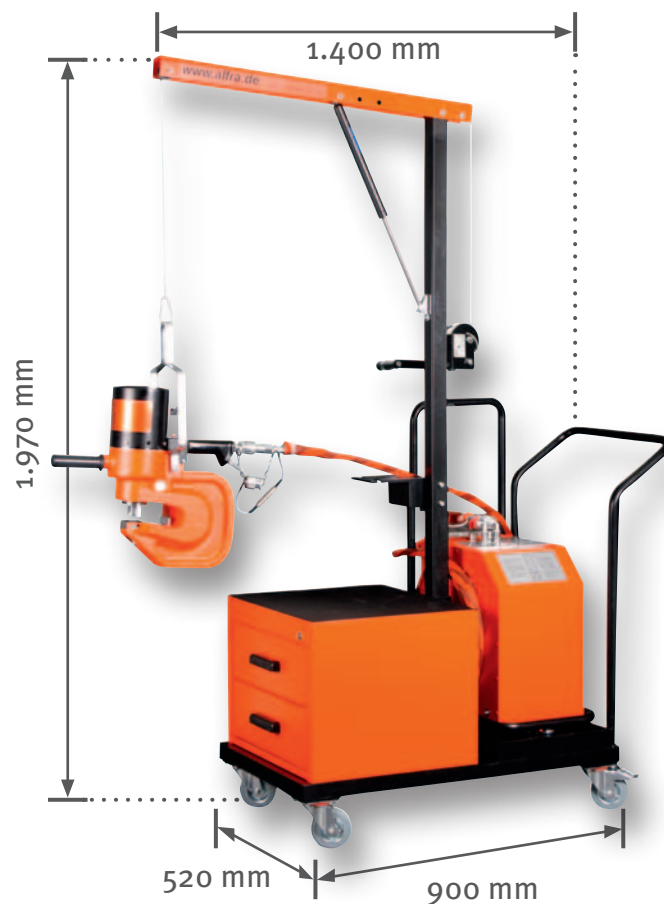
APS Go

SERVICE-BOY

For all types of APS hydraulic punching units

This practical, time and energy-saving trolley makes handling of our ALFRA Press hydraulic punching units much easier. Absolutely necessary for every steel and metal worker wherever punching units are already in use.

- Gas pressure shock absorbers allow the easy positioning of the punching head on the steel bar.
- The hydraulic pump remains on the trolley, and must not be dragged along behind you.
- Work tool cabinet with drawers for the clear arrangement of punching work tools and accessories.
- Solid and secure, TÜV-tested design – and more cost-effective than any "DIY-build".
- Dimensions (L x W x H): 900 x 520 x 1.970 mm
- Weight: 74 Kg / 163 lbs



Prod.-No.
23160

Service-Boy
Complete with tool cabinet and drawers

Prod.-No. 23160 (no punching unit / pump + accessories)

B



ALFRA – SPRING BALANCERS

For ALFRA-Press hydraulic hole punches

Prod.-No.

With **clamping device**, spring fracture safety device, wire rope hoist, 2.0 m

9362 B	15 - 20 kg	23150
9363 B	20 - 25 kg	23151
9366 B	35 - 45 kg	23152
9367 B	45 - 55 kg	23154

according to EN 15112

Note:

The spring balancer should only be operated when the punching unit is suspended and/or under load.



Prod.-No. 23152



Punch for

APS 120 / APS 110D	APS 70	APS 60	Ø mm	Ø Inches	Prod.-No.
■	■	■	7	1/4"	23-01-06-IN
■	■	■	8	5/16"	23-01-07
■	■	■	9		23-01-08-IN
■	■	■	10		23-01-08
■	■	■	11	3/8"	23-01-09
■	■	■	12		23-01-10-IN
■	■	■	13		23-01-10
■	■	■	14	7/16"	23-01-11
■	■	■	15		23-01-11-IN
■	■	■	16	1/2"	23-01-12
■	■	■	17		23-01-12-IN
■	■	■	18		23-01-13
■	■	■	19	9/16"	23-01-14
■	■	■	20		23-01-14-IN
■	■	■	21	5/8"	23-01-15
■	■	■	22		23-01-16-IN
■	■	■	23		23-01-16
■	■	■	24	11/16"	23-01-17
■	■	■	25		23-01-17-IN
■	■	■	26		23-01-18
■	■	■	27	3/4"	23-01-19
■	■	■	28		23-01-19-IN
■	■	■	29		23-01-20
■	■	■	30	13/16"	23-01-21
■	■	■	31		23-01-21-IN
■	■	■	32		23-01-22
■	■	■	33	7/8"	23-01-23
■	■	■	34		23-01-23-IN
■	■	■	35	15/16"	23-01-24
■	■	■	36		23-01-24-IN
■	■	■	37		23-01-25
■	■	■	38	1"	23-01-25-IN

*) with lock nut, Prod.-No. 23004-056 B

Dies for

APS 120 / APS 110D	APS 70	Ø mm	Ø Inches	Prod.-No.
■	■	7	1/4"	23-02-06-IN
■	■	8	5/16"	23-02-07
■	■	9		23-02-08-IN
■	■	10		23-02-08
■	■	11	3/8"	23-02-09
■	■	12		23-02-10-IN
■	■	13		23-02-10
■	■	14	7/16"	23-02-11
■	■	15		23-02-11-IN
■	■	16	1/2"	23-02-12
■	■	17		23-02-13-IN
■	■	18		23-02-13
■	■	19	9/16"	23-02-14
■	■	20		23-02-14-IN
■	■	21	5/8"	23-02-15
■	■	22		23-02-16-IN
■	■	23		23-02-16
■	■	24	11/16"	23-02-17
■	■	25		23-02-17-IN
■	■	26		23-02-18
■	■	27	3/4"	23-02-19
■	■	28		23-02-19-IN
■	■	29		23-02-20
■	■	30	13/16"	23-02-21
■	■	31		23-02-21-IN
■	■	32		23-02-22
■	■	33	7/8"	23-02-23
■	■	34		23-02-23-IN
■	■	35	15/16"	23-02-24
■	■	36		23-02-24-IN
■	■	37		23-02-25
■	■	38	1"	23-02-25-IN



Prod.-No. 23-01-..



Prod.-No. 23-02-..

Dies for

APS 60	Ø mm	Ø Inches	Prod.-No.
■	7		23-03-07
■	8		23-03-08
■	9		23-03-09
■	10		23-03-10
■	11		23-03-11
■	12		23-03-12
■	13		23-03-13
■	14		23-03-14
■	15		23-03-15
■	16		23-03-16
■	17		23-03-17
■	18		23-03-18

When selecting your tool, please note:

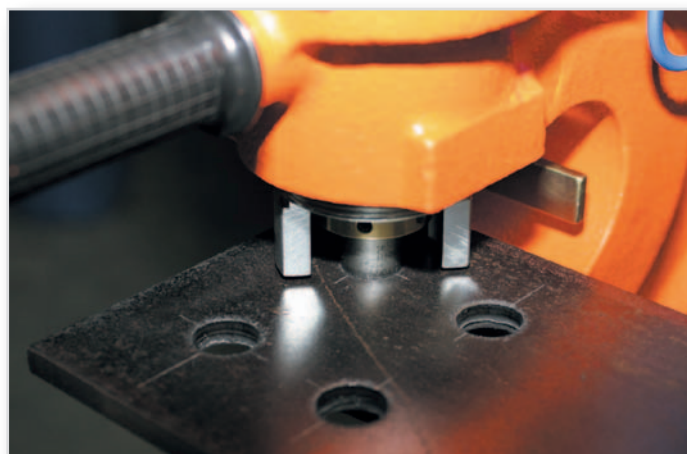
For material DIN S233: maximum material thickness = 0.8 x hole Ø
For material DIN S275: maximum material thickness = 0.5 x hole Ø

Tip:

Punches and dies can be replaced and used for Nitto / Selfer Punching systems.

Tip:

Please oil punch from time to time, when material is heavily oxidized.





ALFRA – ORIGINAL TOOLS

Made in Germany by ALFRA

5°-bevelled dies for

APS 120 APS 110D	APS 70	Ø mm	Prod.-No.
■	■	10	23-04-10
■	■	11	23-04-11
■	■	12	23-04-12
■	■	13	23-04-13
■	■	14	23-04-14
■	■	15	23-04-15
■	■	16	23-04-16
■	■	17	23-04-17
■	■	18	23-04-18
■	■	19	23-04-19
■	■	20	23-04-20
■	■	21	23-04-21
■	■	22	23-04-22
■	-	23	23-04-23
■	-	24	23-04-24
■	-	25	23-04-25



Prod.-No. 23-04-.. (For girders with angled flanges)

Oblong punches for

mm	APS 120 APS 110D	APS 70	Punch Prod.-No.	Die Prod.-No.
16 x 8	■	■	23-01-1608	23-02-1608
18 x 9	■	■	23-01-1809	23-02-1809
18 x 11	■	■	23-01-1811	23-02-1811
20 x 10	■	■	23-01-2010	23-02-2010
20 x 12	■	■	23-01-2012	23-02-2012
20 x 14	■	■	23-01-2014	23-02-2014
22 x 11	■	■	23-01-2211	23-02-2211
22 x 14	■	■	23-01-2214	23-02-2214
24 x 12	■	-	23-01-2412	23-02-2412
25 x 9*	■	-	23-01-2509	23-02-2509
25 x 12*	■	-	23-01-2512	23-02-2512
25 x 13*	■	-	23-01-2513	23-02-2513
25 x 14*	■	-	23-01-2514	23-02-2514
25 x 18*	■	-	23-01-2518	23-02-2518

*) with lock nut, Prod.-No. 23004-56B
Other dimensions are available upon request



Prod.-No. 23-02-..



Prod.-No. 23-01-..

Spare parts

	Prod.-No.
Spare HD connection cable, 5 m complete with control cable and coupling	23015
Spare HD connection cable, *10 m complete with control cable and coupling	23016
Spare HD connection cable, *15 m complete with control cable and coupling	23017
Spare HD connection cable, 5 m For APS 110D (dual-action) complete with control cable and coupling	23020

Note:

The pressure build-up extends at 10 m to approx. 4 sec., and at 15 m to approx. 6 sec.

Lock nut for punch Ø 7 - 24 mm	23004-056A
Lock nut for punch Ø 25 mm (APS 120 / 110D only)	23004-056B
Lock nut for punch Ø 26 mm (upon request)	23004-056C



Prod.-No. 23015



Prod.-No. 23020



Prod.-No. 23004-056A
For punches Ø 7 - 24 mm



Prod.-No. 23004-056B
For punches Ø 25 mm