



Notching, punching and profile shears

Notching machines

MRA – Manual pipe notcher

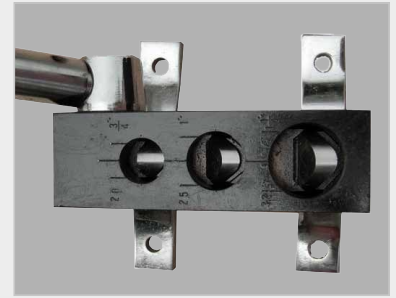
- For notching pipes up to 4.5 mm wall thickness
- Up to three pipe diameters can be notched (MRA 2)
- Can be used both horizontally and vertically
- Low force application

Scope of delivery:

► 1 knife set

Model	MRA 2	MRA 3
Art. no.	3772992	3772993
Technical specifications		
Pipe diameter*	28 / 34 / 43 mm	50 / 61 mm
Wall thickness (aluminium)	4.5 mm	4.5 mm
Wall thickness (copper)	4 mm	4 mm
Wall thickness (brass)	4 mm	4 mm
Wall thickness (construction steel*)	3 mm	3 mm
Wall thickness (stainless steel)	2 mm	2 mm
Notcher dimensions with lever	1060 x 160 x 80 mm	1090 x 160 x 105 mm
Weight	8 kg	15 kg

*Performance data for material with tensile strength of 400 N/mm²



► Up to three pipe diameters can be notched (MRA2)

Option	Art. no.
Replacement knife set MRA 2	3772996
Replacement knife set MRA 3	3772997

AKM 100 T – Manual notching machine

- Fast and easy straight notching with burr-free cut and without deformation of the cut edges
- Rugged grey cast iron design
- Adjustable stops with scale for convenient working

Scope of delivery:

► Blade

Model	AKM 100T
Art. no.	3770512
Technical specifications	
Cutting performance*	3 mm
Cutting area	100 x 100 mm
Cutting angle	90°
Work table	380 x 280 mm
Weight	90 kg
Stroke adjustment	30 mm
Dimensions L x W x H	450 x 390 x 1 020 mm

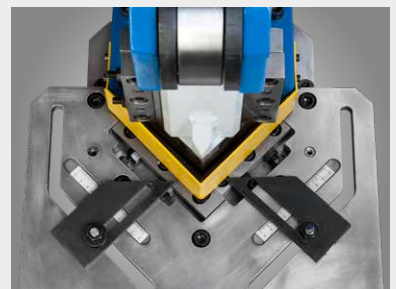
*Performance data for material with tensile strength of 400 N/mm²



AKM 100T
Manual notching machine



Rugged steel design



Easy scale setting

Accessories	Art. no.
Replacement knife AKM 100 T	3880701

AKM P – Pneumatic notching machine

- ▶ Stable design
- ▶ For fast straight notching in steel sheet
- ▶ User-friendly and labour-saving thanks to pneumatic drive
- ▶ Solid table with recessed scales and T slots for precise adjustment of the swivelling stops
- ▶ Finger protection cover made of Plexiglas enables an optimal view of the cutting edge
- ▶ Operation via foot pedal



AKM 130-3 P



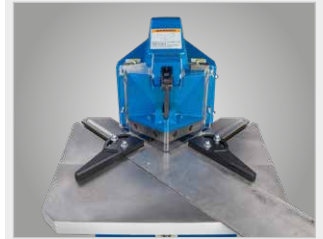
Scope of delivery:

- › Bottom knife set for steel
- › Top knife set for steel

Model	AKM 130-3 P	AKM 150-2 P
Art. no.	3833130	3832150

Technical specifications		
Cutting capacity (400 N/mm ²)	3 mm	2 mm
Cutting capacity (600N/mm ²)	1.5 mm	1.0 mm
Max. cutting pressure	2.2 t	2.2 t
Cutting area	130 x 130 mm	154 x 154 mm
Notching angle	90°	90°
Strokes/min	50	40
Table height	945 mm	945 mm
Table size	600 x 460 mm	600 x 460 mm
Dimensions (L x W x H) max.	1 020 x 660 x 1 260 mm	860 x 800 x 1 260 mm
Weight approx.	160 kg	170 kg

* only possible with optional knife set



▶ Table with stops and scale



▶ Plexiglas finger protection



▶ Stops with mitre adjustment



▶ Maintenance unit for pneumatics

Accessories AKM 130-3 P	Art. no.
Bottom knife set for steel	3839000
Top knife set for steel	3839001
Bottom knife set for stainless steel	3839002
Top knife set for stainless steel	3839003

Accessories AKM 150-2 P	Art. no.
Bottom knife set for steel	3839010
Top knife set for steel	3839011
Bottom knife set for stainless steel	3839012
Top knife set for stainless steel	3839013

Notching machines

AKM H – Hydraulic notching machine for fast straight notching in steel sheet

- ▶ Heavy-duty, rugged design
- ▶ User-friendly and labour-saving thanks to hydraulic drive
- ▶ Solid table with recessed scales and T slots for precise adjustment of the swivelling stops
- ▶ Finger protection cover made of Plexiglas enables an optimal view of the cutting edge
- ▶ Displaceable hold-down device
- ▶ Waste pieces are discharged through a scrap chute
- ▶ Operation via foot pedal



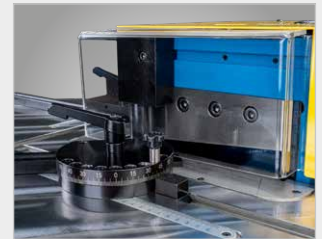
AKM 220-4 H



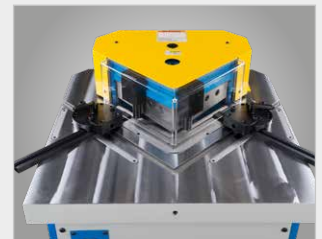
AKM 220-6 H



▶ Stops with adjustable blank holders



▶ Recessed scales and T slots for precise adjustment of the swivelling stops



▶ Finger protection cover made of Plexiglas enables an optimal view of the cutting edge

Scope of delivery:

- › Bottom knife set for steel
- › Top knife set for steel

Model	AKM 220-4 H	AKM 220-6 H
Art. no.	3834200	3836200
Technical specifications		
Cutting capacity (400 N/mm ²)	4 mm	6 mm
Cutting capacity (600N/mm ²)	2 mm	3 mm
Max. cutting pressure	22 t	24 t
Cutting area	200 x 200 mm	220 x 220 mm
Notching angle	90 °	90 °
Strokes/min	50	15
Table size	700 x 600 mm	650 x 650 mm
Motor output	2.25 kW	3.0 kW
Dimensions (L x W x H) max.	1 030 x 900 x 1 050 mm	860 x 860 x 1 100 mm
Weight	375 kg	495 kg

* Values for stainless steel (tensile strength 600 N/mm²) only possible with optional knife set

Accessories AKM 220-4 H	Art. no.
Bottom knife set for steel	3839020
Top knife set for steel	3839021
Bottom knife set for stainless steel	3839022
Top knife set for stainless steel	3839023

Accessories AKM 220-6 H	Art. no.
Bottom knife set for steel	3839030
Top knife set for steel	3839031
Bottom knife set for stainless steel	3839032
Top knife set for stainless steel	3839033

AKM V – Hydraulic notching machines with adjustable angle of 30 - 140°

- ▶ Heavy and stable welded design
- ▶ Precision steel table with recessed scale and T grooves for precise adjustment of the stops
- ▶ Stops adjustable $\pm 45^\circ$
- ▶ Fast angle adjustment of blades via hand wheels
- ▶ Drawer for cut-off waste
- ▶ Easy operation via foot pedal
- ▶ Premium rotatable knife, suitable for cutting stainless steel
- ▶ Time-saving stroke adjustment for adapting the cutting length
- ▶ Two hydraulic blank holders



AKM 200-60 V

Scope of delivery:

- > 1 knife set
- > Hydraulic oil

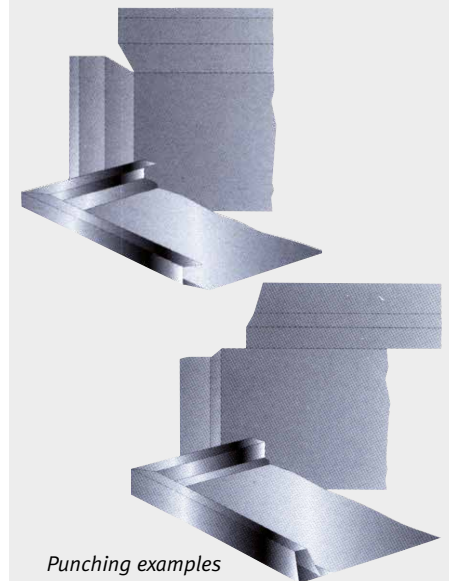
AKM V- notching machine with variable angle adjustment

Technical specifications	Cutting performance 30°	Cutting performance 60°	Cutting area in mm	Cutting angle	Oil reservoir content	Motor output	Electrical connection	Weight	Dimensions L x W x H	Article no.
AKM 200-60 V	6 mm	4 mm	200 x 200	30 - 140°	50 l	4.0 kW	400 V/50 Hz	1 000 kg	1 050 x 900 x 1 300	3817005

* Values for stainless steel (tensile strength 600 N/mm²) only possible with optional knife set



Work table with T grooves and recessed scales
Hydraulic blank holder



Punching examples

Accessories	Art. no.
Replacement knives (1 set)	3880019

Hydraulic section steel shears/hole punches

HPS – combined hydr. steel section shears/hole punches with up to 5 processing stations and foot operation

- ▶ Punching station, flat steel shears, angled steel shears, steel section shears, as of HPS 45S with notching station
- ▶ DS series with two work cylinders and two foot pedals for working with the punching station and steel section shears at the same time
- ▶ Continuously variable stroke length setting
- ▶ Larger throat for punching station with 620 mm optionally available as of HPS 55DS
- ▶ Heavy and stable welded design
- ▶ With notching knife as standard as of HPS 45S
- ▶ With powerful 400 Volt motor
- ▶ Optional V notching knife, extra-large punching unit and longer throat for punching station available on request
- ▶ Two-stage foot pedal for inching operation
- ▶ With MUBEA mount as standard for no. 1, no. 2 and no. 3 punches and no. 30, no. 45 and no. 60 dies, use of no. 4 and no. 80 punch and die possible as an optional



HPS 40S

Info & video



Scope of supply HPS 40S:

- ▶ Punching station
- ▶ Flat steel shears
- ▶ Angled steel shears
- ▶ Steel section shears with round and square knife
- ▶ Punch mount with bayonet closure
- ▶ MUBEA punch mount no. 1, no. 2, no. 3
- ▶ MUBEA die reducers no. 30 and no. 45 (no. 60 is fitted directly in the punching seat)
- ▶ Punch and flat steel shears with adjustable stops
- ▶ Hook wrench
- ▶ Foot pedal
- ▶ Hydraulic oil

Technical specifications	HPS 40S	HPS 45S	HPS 60S	HPS 55DS	HPS 65DS	HPS 85DS	HPS 115DS	HPS 175DS
Art. no.	3819040	3819045	3819060	3819055	3819065	3819085	3819115	3819175
Punching station								
Punching force	40 t	45 t	60 t	55 t	65 t	85 t	115 t	175 t
Ø x max. sheet thickness **	Ø 20 x 15 mm	Ø 22 x 15 mm	Ø 28 x 15 mm	Ø 20 x 20 mm	Ø 26 x 20 mm	Ø 33 x 20 mm	Ø 34 x 26 mm	Ø 40 x 32 mm
Ø max. x sheet thickness **	Ø 30 x 10 mm	Ø 38 x 8 mm	Ø 38 x 11 mm	Ø 40 x 10 mm	Ø 57 x 10 mm***	Ø 57 x 10 mm***	Ø 55 x 16 mm***	Ø 57 x 22 mm***
Throat	175 mm	175 mm	220 mm	255 mm	305 mm	355 mm	355 mm	625 mm
Stroke	50 mm	50 mm	55 mm	60 mm	55 mm	80 mm	80 mm	80 mm
Stroke/min.	20	20	25	25	25	25	25	22
Hole punch working height	970 mm	935 mm	955 mm	1 030 mm	1 030 mm	1 080 mm	1 110 mm	1 130 mm
Steel bar shears								
Round/rectangular in mm	Ø 30 / 25	Ø 30 / 25	Ø 40 / 35	Ø 40 / 40	Ø 45 / 45	Ø 50 / 50	Ø 55 / 50	Ø 65 / 50
Angled steel shears								
90° cut in mm	80 x 80 x 8	100 x 100 x 10	120 x 120 x 12	120 x 120 x 12	120 x 120 x 12	150 x 150 x 15	150 x 150 x 15	200 x 200 x 15
45° cut in mm	50 x 50 x 6	70 x 70 x 6	80 x 80 x 8	70 x 70 x 10	70 x 70 x 10	80 x 80 x 8	80 x 80 x 10	80 x 80 x 10
Working height	1 100 mm	1 140 mm	1 155 mm	1 130 mm	1 140 mm	1 200 mm	1 215 mm	1 130 mm
Flat steel shears								
Max. material thickness	200 x 13 mm	200 x 15 mm	200 x 20 mm	200 x 20 mm	300 x 20 mm	380 x 20 mm	380 x 25 mm	380 x 30 mm
Max material size	300 x 6 mm	300 x 12 mm	300 x 15 mm	300 x 15 mm	375 x 15 mm	480 x 15 mm	600 x 15 mm	600 x 20 mm
Knife length	356 mm	316 mm	317 mm	317 mm	380 mm	482 mm	610 mm	610 mm
45° cut at max. angle profile in mm	80 x 80 x 10	80 x 80 x 10	80 x 80 x 10	80 x 80 x 15	100 x 100 x 15	120 x 120 x 15	120 x 120 x 15	120 x 120 x 15
Working height	980 mm	935 mm	955 mm	900 mm	900 mm	940 mm	935 mm	810 mm
Notching station								
Max. material thickness	-	8 mm	10 mm	10 mm	10 mm	13 mm	13 mm	16 mm
Width	-	35 mm	42 mm	45 mm	45 mm	52 mm	60 mm	60 mm
Depth	-	75 mm	100 mm	90 mm	90 mm	100 mm	100 mm	100 mm
Motor output	3 kW	4 kW	4 kW	5.5 kW	5.5 kW	7.5 kW	11 kW	11 kW
Electrical connection	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Net weight	580 kg	1 165 kg	1 440 kg	1 520 kg	1 600 kg	2 315 kg	2 920 kg	6 000 kg
Dimensions in mm	1 100 x 800 x 1 520	1 430 x 950 x 1 780	1 520 x 950 x 1 780	1 500 x 950 x 1 880	1 700 x 950 x 1 880	1 920 x 950 x 2 040	2 040 x 950 x 2 180	2 730 x 1 150 x 2 280
Optional equipment								
Punching station throat	-	-	-	620 mm	620 mm	620 mm	620 mm	-
U-I profile cutter	76 x 38 mm	80 x 45 mm	80 x 45 mm	120 x 58 mm	120 x 58 mm	160 x 74 mm	200 x 90 mm	300 x 125 mm
T profile cutter	38 x 6 mm	40 x 5 mm	80 x 9 mm	80 x 9 mm	90 x 11 mm	100 x 11 mm	120 x 13 mm	150 x 15 mm
V notching tools in mm	100 x 100 x 8	100 x 100 x 10	100 x 100 x 10	100 x 100 x 10	100 x 100 x 10	100 x 100 x 13	100 x 100 x 13	100 x 100 x 16

All hydraulic steel section shears are delivered with oil. * Please turn over for descriptions of the transport surcharges.

Performance data for material with tensile strength of 400 N/mm² *Extra-large punching unit option required



► Punching station



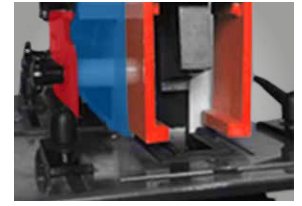
► Angled steel shears



► Flat steel shears



► Steel bar shears /
Steel bar knives



► Notching station
(as of HPS 45S)

Scope of supply HPS 45S/ HPS 60S

- › Punching station
- › Flat steel shears
- › Angled steel shears
- › Steel section shears with round and square knife
- › Notching station
- › Punch mount with bayonet closure
- › MUBEA punch mount no. 1, no. 2, no. 3
- › MUBEA die reducers no. 30 and no. 45 (no. 60 is fitted directly in the punching seat)
- › Punch, flat steel shears and notcher with adjustable stops
- › Hook wrench
- › Foot pedal
- › Hydraulic oil



HPS 45S



HPS 55DS

Scope of supply HPS 55DS / HPS 65DS / HPS 85DS / HPS 115DS / HPS 175DS:

- › Punching station
- › Flat steel shears
- › Angled steel shears
- › Steel section shears with round and square knife
- › Notching station
- › Work lamp
- › Electrical contact stop
- › Punch mount with bayonet closure
- › MUBEA punch mount no. 1, no. 2, no. 3
- › MUBEA die reducers no. 30 and no. 45 (no. 60 is fitted directly in the punching seat)
- › Punch with adjustable stop and scale, flat steel shears and notcher with adjustable stops
- › Hook wrench
- › 2 working cylinders and 2 foot pedals
- › Hydraulic oil

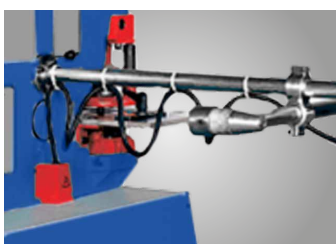
Hydraulic section steel shears/hole punches



HPS 115DS



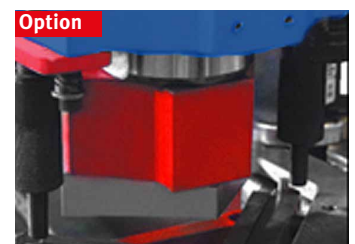
HPS 175DS



► Electrical contact stop
(standard as of HPS 55DS)



► Work light standard
as of HPS 55DS



► Option
Optional V notching knife
available as of HPS 45S

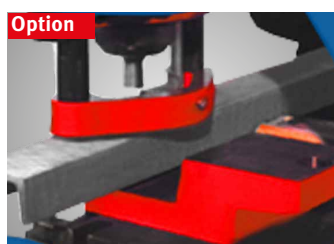
Accessories for hydraulic section steel shears

Replacement knife set for flat steel station	Art. no.	Knife set for IPN sections	Art. no.	Edge bending unit	Art. no.
for HPS 40S / 45S	3887010	for HPS 40S / 45S	3887050	100 x 12 mm for HPS 45S	3887090
for HPS 60S	3887011	for HPS 60S	3887051	110 x 12 mm for HPS 60S	3887091
for HPS 55DS / 65DS	3887012	for HPS 55DS / 65DS	3887052	250 x 15 mm for HPS 55DS / 65DS	3887092
for HPS 85DS	3887013	for HPS 85DS	3887053	500 x 3 mm for HPS 55DS / 65DS	3887093
for HPS 115DS	3887014	for HPS 115DS	3887054	250 x 20 mm for HPS 85DS	3887094
for HPS 175DS	3887015	for HPS 175DS	3887055	500 x 3 mm for HPS 85DS	3887095
				250 x 22 mm for HPS 115DS	3887096
				500 x 3 mm for HPS 115DS	3887097
				250 x 25 mm for HPS 175DS	3887098
				700 x 4 mm for HPS 175DS	3887099
Replacement knife set for angled steel station		Knife set for UPN sections		Die block for U section	
for HPS 40S / 45S	3887020	for HPS 40S / 45S	3887060	for HPS 40S / 45S	3887105
for HPS 60S	3887021	for HPS 60S	3887061	for HPS 60S	3887106
for HPS 55DS / 65DS	3887022	for HPS 55DS / 65DS	3887062	for HPS 55DS / 65DS	3887107
for HPS 85DS	3887023	for HPS 85DS	3887063	for HPS 85DS	3887108
for HPS 115DS	3887024	for HPS 115DS	3887064	for HPS 115DS	3887109
for HPS 175DS	3887025	for HPS 175DS	3887065	for HPS 175DS	3887110
Replacement knife set for steel bar station		Knife set for T sections		620 mm throat for punching station (only available ex works)	
for HPS 40S / 45S	3887026	for HPS 40S / 45S	3887070	for HPS 55DS	3887120
for HPS 60S	3887027	for HPS 60S	3887071	for HPS 65DS	3887121
for HPS 55DS / 65DS	3887028	for HPS 55DS / 65DS	3887072	for HPS 85DS	3887122
for HPS 85DS	3887029	for HPS 85DS	3887073	for HPS 115DS	3887123
for HPS 115DS	3887030	for HPS 115DS	3887074		
for HPS 175DS	3887031	for HPS 175DS	3887075		
Replacement knife set for notching station		V knife set 100 x 100 mm for notching station incl. mounts and bed		Punch and die mounts (fit all standard HPS models)	
for HPS 45S	3887040	for HPS 45S	3887130	Punch insert no. 1*	3889002
for HPS 60S	3887041	for HPS 60S	3887131	Punch reducer no. 1*	3889003
for HPS 55DS / 65DS	3887042	for HPS 55DS	3887132	Punch mount no. 2	3889005
for HPS 85DS	3887043	for HPS 65DS	3887133	Punch mount no. 3	3889006
for HPS 115DS	3887044	for HPS 85 DS	3887134	Die reducer 60-30	3889000
for HPS 175DS	3887045	for HPS 115DS	3887135	Die reducer 60-45	3889001
		for HPS 175DS	3887136		
Oversize punching unit (fits all standard HPS models)		Replacement V blade set 100 x 100 mm		* Punch insert no. 1, punch reducer no. 1 and punch mount no. 2 are required to use punch no. 1	
for HPS 45S	3887160	for HPS 45S	3887080		
for HPS 60S	3887161	for HPS 60S	3887081		
for HPS 55DS	3887162	for HPS 55DS / 65DS	3887082		
for HPS 65DS	3887163	for HPS 85DS	3887083		
for HPS 85 DS	3887164	for HPS 115DS	3887084		
for HPS 115DS	3887165	for HPS 175DS	3887085		
for HPS 175DS	3887166				
Electrical contact stop					
for HPS 45S	3887150				
for HPS 60S	3887151				

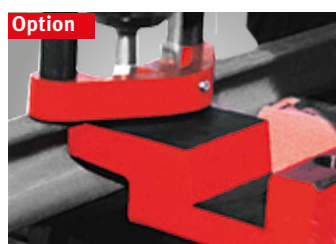
(required for using punch no. 4 and die no. 80)



Various steel section knives, die blocks and special punches and dies available on request.



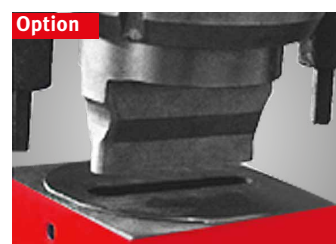
► Optional die block for U sections



► Optional die block for angled steel



► Optional edge bending unit for flat steel (available as of HPS 45S)



► Optional punching unit for large diameters

Hydraulic hole punches

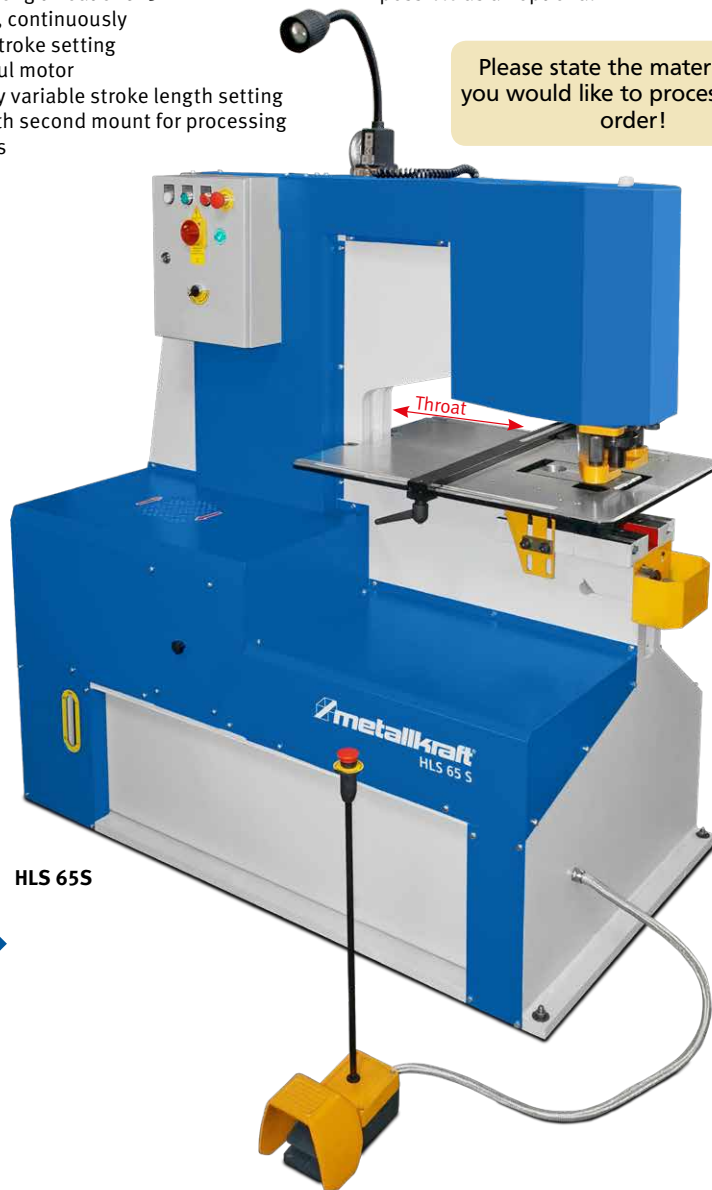


► Various optional punching tools on request

HLS – Hydraulic foot-operated hole punches from 65 to 175 t punching force

- For punching sheet metal, flat and U steels
- Heavy and stable welded design
- Punching table with scale and stops
- Particularly long throat of 625 mm
- Time-saving, continuously adjustable stroke setting
- With powerful motor
- Continuously variable stroke length setting
- Die block with second mount for processing UPN sections
- With MUBEA mount as standard for no. 1, no. 2 and no. 3 punches and no. 30, no. 45 and no. 60 dies, use of no. 4 and no. 80 punch and die possible as an optional

Please state the material type you would like to process in your order!



HLS 65S

Scope of delivery:

- › Punch mount with bayonet closure
- › MUBEA punch mount no. 1, no. 2, no. 3
- › MUBEA die reducers no. 30 and no. 45 (no. 60 is fitted directly in the punching seat)
- › Stop with scale
- › Work lamp
- › Foot pedal
- › Hook wrench
- › Hydraulic oil

Model	HLS 65S	HLS 85S	HLS 115S	HLS 175S
Art. no.	3818065	3818085	3818115	3818175
Technical specifications				
Punching force	65 t	85 t	115 t	175 t
Ø x max. sheet thickness **	Ø 26 x 20 mm	Ø 33 x 20 mm	Ø 34 x 26 mm	Ø 40 x 32 mm
Ø max. x sheet thickness **	Ø 57 x 10*** mm	Ø 57 x 12*** mm	Ø 55 x 16*** mm	Ø 57 x 22*** mm
Throat	625 mm	625 mm	625 mm	625 mm
Stroke	55 mm	80 mm	80 mm	80 mm
Stroke/min.	22	21	21	21
Hole punch working height	950 mm	950 mm	950 mm	950 mm
Motor output	5.5 kW	7.5 kW	11 kW	11 kW
Electrical connection	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Dimensions in mm	1 600 x 900 x 1 800	1 850 x 950 x 1 920	2 000 x 950 x 1 970	2 700 x 1 120 x 2 160
Weight	2 440 kg	3 270 kg	3 760 kg	5 270 kg
Optional				
Sheet metal bending max.	500 x 3 mm	500 x 3 mm	700 x 3 mm	700 x 4 mm

* Please turn over for descriptions of the transport surcharges. ** Performance data for material with tensile strength of 400 N/mm² *** Extra-large punching unit option required

MUBEA punch and die system

- ▶ The desired hole diameter matches the punch diameter
- ▶ The die diameter depends on the material thickness

Cutting play for round hole, rectangular hole and square hole

Material thickness	mm	0 – 3.9	4 – 8.9	9 – 13.9	14 – 18.9	19 – 24
Cutting play	mm	0.2	0.7	1.2	1.7	2.2

Example: Punch Ø 15 mm and material thickness 10 mm → die Ø 16.2

Cutting play for slotted hole

Material thickness	mm	0 – 5.9	6 – 14
Cutting play	mm	0.3	1.0

Example: Punch Ø 10 x 25 mm and material thickness 10 mm → die Ø 11 x 26 mm

Round punch no. 1

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
3.0 mm	388933.0	7.5 mm	388937.5	12.0 mm	3889312.0
3.5 mm	388933.5	8.0 mm	388938.0	12.5 mm	3889312.5
4.0 mm	388934.0	8.5 mm	388938.5	13.0 mm	3889313.0
4.5 mm	388934.5	9.0 mm	388939.0	13.5 mm	3889313.5
5.0 mm	388935.0	9.5 mm	388939.5	14.0 mm	3889314.0
5.5 mm	388935.5	10.0 mm	3889310.0	14.5 mm	3889314.5
6.0 mm	388936.0	10.5 mm	3889310.5	15.0 mm	3889315.0
6.5 mm	388936.5	11.0 mm	3889311.0		
7.0 mm	388937.0	11.5 mm	3889311.5		



Round punch no. 2

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
14.0 mm	3889314.0	20.0 mm	3889320.0	25.5 mm	3889325.5
15.0 mm	3889315.0	20.5 mm	3889320.5	26.0 mm	3889326.0
15.5 mm	3889315.5	21.0 mm	3889321.0	26.5 mm	3889326.5
16.0 mm	3889316.0	21.5 mm	3889321.5	27.0 mm	3889327.0
16.5 mm	3889316.5	22.0 mm	3889322.0	27.5 mm	3889327.5
17.0 mm	3889317.0	22.5 mm	3889322.5	28.0 mm	3889328.0
17.5 mm	3889317.5	23.0 mm	3889323.0	28.5 mm	3889328.5
18.0 mm	3889318.0	23.5 mm	3889323.5	29.0 mm	3889329.0
18.5 mm	3889318.5	24.0 mm	3889324.0	29.5 mm	3889329.5
19.0 mm	3889319.0	24.5 mm	3889324.5	30.0 mm	3889330.0
19.5 mm	3889319.5	25.0 mm	3889325.0		



Round punch no. 3

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
30.5 mm	3889330.5	34.0 mm	3889334.0	38.0 mm	3889338.0
31.0 mm	3889331.0	35.0 mm	3889335.0	39.0 mm	3889339.0
32.0 mm	3889332.0	36.0 mm	3889336.0	40.0 mm	3889340.0
33.0 mm	3889333.0	37.0 mm	3889337.0		



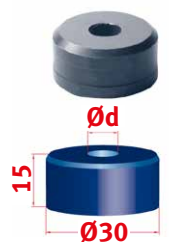
Round punch no. 4*

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
41.0 mm	3889330.5	45.0 mm	3889334.0	49.0 mm	3889338.0
42.0 mm	3889331.0	46.0 mm	3889335.0	50.0 mm	3889339.0
43.0 mm	3889332.0	47.0 mm	3889336.0		
44.0 mm	3889333.0	48.0 mm	3889337.0		



Round die no. 30

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
3.2 mm	388933.2	7.7 mm	388937.7	12.2 mm	3889312.2
3.7 mm	388933.7	8.2 mm	388938.2	12.7 mm	3889312.7
4.2 mm	388934.2	8.7 mm	388938.7	13.2 mm	3889313.2
4.7 mm	388934.7	9.2 mm	388939.2	13.7 mm	3889313.7
5.2 mm	388935.2	9.7 mm	388939.7	14.2 mm	3889314.2
5.7 mm	388935.7	10.2 mm	3889310.2	14.7 mm	3889314.7
6.2 mm	388936.2	10.7 mm	3889310.7	15.2 mm	3889315.2
6.7 mm	388936.7	11.2 mm	3889311.2	15.7 mm	3889315.7
7.2 mm	388937.2	11.7 mm	3889311.7		



Round die no. 45

(Ød)	Art. no.	(Ød)	Art. no.	(Ød)	Art. no.
14.7 mm	3889314.7	21.2 mm	3889321.2	27.7 mm	3889327.7
15.2 mm	3889315.2	21.7 mm	3889321.7	28.2 mm	3889328.2
15.7 mm	3889315.7	22.2 mm	3889322.2	28.7 mm	3889328.7
16.2 mm	3889316.2	22.7 mm	3889322.7	29.2 mm	3889329.2
16.7 mm	3889316.7	23.2 mm	3889323.2	29.7 mm	3889329.7
17.2 mm	3889317.2	23.7 mm	3889323.7	30.2 mm	3889330.2
17.7 mm	3889317.7	24.2 mm	3889324.2	30.7 mm	3889330.7
18.2 mm	3889318.2	24.7 mm	3889324.7	31.2 mm	3889331.2
18.7 mm	3889318.7	25.2 mm	3889325.2	31.7 mm	3889331.7
19.2 mm	3889319.2	25.7 mm	3889325.7	32.2 mm	3889332.2
19.7 mm	3889319.7	26.2 mm	3889326.2	32.7 mm	3889332.7
20.2 mm	3889320.2	26.7 mm	3889326.7		
20.7 mm	3889320.7	27.2 mm	3889327.2		



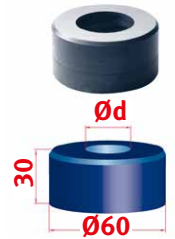
The punches and dies are not suitable for machining stainless steel. Tools for stainless steel can be quoted for on request.

* Use not possible with standard HPS/HLS scope of delivery – custom accessory "Oversized punching unit" required

Hydraulic hole punches

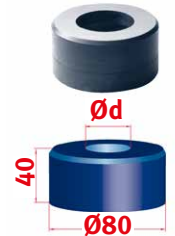
Round die no. 60

(Ød)	Art. no.		(Ød)	Art. no.		(Ød)	Art. no.	
32.2 mm	3889332.2		35.7 mm	3889335.7		39.2 mm	3889339.2	
32.7 mm	3889332.7		36.2 mm	3889336.2		39.7 mm	3889339.7	
33.2 mm	3889333.2		36.7 mm	3889336.7		40.2 mm	3889340.2	
33.7 mm	3889333.7		37.2 mm	3889337.2		40.7 mm	3889340.7	
34.2 mm	3889334.2		37.7 mm	3889337.7		41.2 mm	3889341.2	
34.7 mm	3889334.7		38.2 mm	3889338.2		41.7 mm	3889341.7	
35.2 mm	3889335.2		38.7 mm	3889338.7		42.2 mm	3889342.2	



Round die no. 80*

(Ød)	Art. no.		(Ød)	Art. no.		(Ød)	Art. no.	
42.7 mm	3889342.7		45.7 mm	3889345.7		48.7 mm	3889348.7	
43.2 mm	3889343.2		46.2 mm	3889346.2		49.2 mm	3889349.2	
43.7 mm	3889343.7		46.7 mm	3889346.7		49.7 mm	3889349.7	
44.2 mm	3889344.2		47.2 mm	3889347.2		50.2 mm	3889350.2	
44.7 mm	3889344.7		47.7 mm	3889347.7		50.7 mm	3889350.7	
45.2 mm	3889345.2		48.2 mm	3889348.2		51.2 mm	3889351.2	



Slotted hole punch no. 2

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
5.0 x 10.0 mm	388945.0X10.0		8.0 x 30.0 mm	388948.0X30.0		13.0 x 20.0 mm	3889413.0X20.0	
5.0 x 15.0 mm	388945.0X15.0		9.0 x 13.0 mm	388949.0X13.0		13.0 x 25.0 mm	3889413.0X25.0	
5.0 x 20.0 mm	388945.0X20.0		9.0 x 18.0 mm	388949.0X18.0		13.0 x 30.0 mm	3889413.0X30.0	
5.0 x 25.0 mm	388945.0X25.0		9.0 x 20.0 mm	388949.0X20.0		13.5 x 20.0 mm	3889413.5X20.0	
5.5 x 11.0 mm	388945.5X11.0		9.0 x 25.0 mm	388949.0X25.0		13.5 x 25.0 mm	3889413.5X25.0	
5.5 x 15.0 mm	388945.5X15.0		9.0 x 30.0 mm	388949.0X30.0		13.5 x 30.0 mm	3889413.5X30.0	
5.5 x 20.0 mm	388945.5X20.0		9.5 x 20.0 mm	388949.5X20.0		14.0 x 20.0 mm	3889414.0X20.0	
5.5 x 25.0 mm	388945.5X25.0		9.5 x 25.0 mm	388949.5X25.0		14.0 x 25.0 mm	3889414.0X25.0	
6.5 x 13.0 mm	388946.5X13.0		9.5 x 30.0 mm	388949.5X30.0		14.0 x 30.0 mm	3889414.0X30.0	
6.5 x 20.0 mm	388946.5X20.0		10.5 x 15.0 mm	3889410.5X15.0		16.0 x 25.0 mm	3889416.0X25.0	
6.5 x 25.0 mm	388946.5X25.0		10.5 x 21.0 mm	3889410.5X21.0		16.0 x 30.0 mm	3889416.0X30.0	
6.5 x 30.0 mm	388946.5X30.0		10.5 x 25.0 mm	3889410.5X25.0		17.5 x 25.0 mm	3889417.5X25.0	
7.0 x 15.0 mm	388947.0X15.0		10.5 x 30.0 mm	3889410.5X30.0		17.5 x 30.0 mm	3889417.5X30.0	
7.0 x 20.0 mm	388947.0X20.0		11.0 x 20.0 mm	3889411.0X20.0		19.0 x 25.0 mm	3889419.0X25.0	
7.0 x 25.0 mm	388947.0X25.0		11.0 x 25.0 mm	3889411.0X25.0		19.0 x 30.0 mm	3889419.0X30.0	
7.0 x 30.0 mm	388947.0X30.0		11.0 x 30.0 mm	3889411.0X30.0		20.5 x 30.0 mm	3889420.5X30.0	
8.0 x 13.0 mm	388948.0X13.0		12.0 x 20.0 mm	3889412.0X20.0		22.5 x 30.0 mm	3889422.5X30.0	
8.0 x 20.0 mm	388948.0X20.0		12.0 x 25.0 mm	3889412.0X25.0		25.5 x 30.0 mm	3889425.5X30.0	
8.0 x 25.0 mm	388948.0X25.0		12.0 x 30.0 mm	3889412.0X30.0				



Slotted hole punch no. 3

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
9.0 x 40.0 mm	388949.0X40.0		16.0 x 35.0 mm	3889416.0X35.0		20.5 x 40.0 mm	3889420.5X40.0	
11.0 x 35.0 mm	3889411.0X35.0		16.0 x 40.0 mm	3889416.0X40.0		22.5 x 35.0 mm	3889422.5X35.0	
11.0 x 40.0 mm	3889411.0X40.0		17.5 x 35.0 mm	3889417.5X35.0		22.5 x 40.0 mm	3889422.5X40.0	
13.5 x 35.0 mm	3889413.5X35.0		17.5 x 40.0 mm	3889417.5X40.0		24.0 x 40.0 mm	3889424.0X40.0	
13.5 x 40.0 mm	3889413.5X40.0		19.0 x 35.0 mm	3889419.0X35.0		25.5 x 40.0 mm	3889425.5X40.0	
14.0 x 35.0 mm	3889414.0X35.0		19.0 x 40.0 mm	3889419.0X40.0		26.0 x 40.0 mm	3889426.0X40.0	
14.0 x 40.0 mm	3889414.0X40.0		20.5 x 35.0 mm	3889420.5X35.0		27.0 x 40.0 mm	3889427.0X40.0	



Slotted hole punch no. 4*

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
11.0 x 45.0 mm	3889411.0X45.0		20.5 x 50.0 mm	3889420.5X50.0		26.0 x 50.0 mm	3889426.0X50.0	
11.0 x 50.0 mm	3889411.0X50.0		22.5 x 50.0 mm	3889422.5X50.0		27.0 x 50.0 mm	3889427.0X50.0	
13.5 x 50.0 mm	3889413.5X50.0		24.0 x 50.0 mm	3889424.0X50.0				
17.5 x 50.0 mm	3889417.5X50.0		25.5 x 50.0 mm	3889425.5X50.0				



Punch and die mounts (fit all standard HPS models)	Art. no.		Override punching unit (fits all standard HPS models)	
Punch insert no. 1*	3889002		for HPS 45S	3887160
Punch reducer no. 1*	3889003		for HPS 60S	3887161
Punch mount no. 2	3889005		for HPS 55DS	3887162
Punch mount no. 3	3889006		for HPS 65DS	3887163
Die reducer 60-30	3889000		for HPS 85 DS	3887164
Die reducer 60-45	3889001		for HPS 115DS	3887165
			for HPS 175DS	3887166

(required for using punch no. 4 and die no. 80)

The punches and dies are not suitable for machining stainless steel. Tools for stainless steel can be quoted for on request.

* Use not possible with standard HPS/HLS scope of delivery – custom accessory "Oversized punching unit" required

Slotted hole punch no. 30

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
5.3 x 10.3 mm	388945.3X10.3		6.5 x 12.0 mm	388946.5X12.0		8.3 x 13.3 mm	388948.3X13.3	
5.3 x 15.3 mm	388945.3X15.3		6.5 x 16.0 mm	388946.5X16.0		9.0 x 14.0 mm	388949.0X14.0	
5.8 x 11.3 mm	388945.8X11.3		6.8 x 13.3 mm	388946.8X13.3		9.3 x 13.3 mm	388949.3X13.3	
5.8 x 15.3 mm	388945.8X15.3		7.3 x 15.3 mm	388947.3X15.3		10.0 x 14.0 mm	3889410.0X14.0	
6.0 x 11.0 mm	388946.0X11.0		7.5 x 14.0 mm	388947.5X14.0		10.8 x 15.3 mm	3889410.8X15.3	
6.0 x 16.0 mm	388946.0X16.0		8.0 x 16.0 mm	388948.0X16.0		11.5 x 16.0 mm	3889411.5X16.0	



Slotted hole punch no. 45

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
5.3 x 20.3 mm	3889485.3X20.3		9.8 x 30.3 mm	3889489.8X30.3		14.0 x 21.0 mm	38894814.0X21.0	
5.3 x 25.3 mm	3889485.3X25.3		10.0 x 19.0 mm	38894810.0X19.0		14.0 x 26.0 mm	38894814.0X26.0	
5.8 x 20.3 mm	3889485.8X20.3		10.0 x 21.0 mm	38894810.0X21.0		14.0 x 31.0 mm	38894814.0X31.0	
5.8 x 25.3 mm	3889485.8X25.3		10.0 x 26.0 mm	38894810.0X26.0		14.3 x 20.3 mm	38894814.3X20.3	
6.0 x 21.0 mm	3889486.0X21.0		10.0 x 31.0 mm	38894810.0X31.0		14.3 x 25.3 mm	38894814.3X25.3	
6.0 x 26.0 mm	3889486.0X26.0		10.5 x 21.0 mm	38894810.5X21.0		14.3 x 30.3 mm	38894814.3X30.3	
6.5 x 21.0 mm	3889486.5X21.0		10.5 x 26.0 mm	38894810.5X26.0		14.5 x 21.0 mm	38894814.5X21.0	
6.5 x 26.0 mm	3889486.5X26.0		10.5 x 31.0 mm	38894810.5X31.0		14.5 x 26.0 mm	38894814.5X26.0	
6.8 x 20.3 mm	3889486.8X20.3		10.8 x 21.3 mm	38894810.8X21.3		14.5 x 31.0 mm	38894814.5X31.0	
6.8 x 25.3 mm	3889486.8X25.3		10.8 x 25.3 mm	38894810.8X25.3		15.0 x 21.0 mm	38894815.0X21.0	
6.8 x 30.3 mm	3889486.8X30.3		10.8 x 30.3 mm	38894810.8X30.3		15.0 x 26.0 mm	38894815.0X26.0	
7.3 x 20.3 mm	3889487.3X20.3		11.3 x 20.3 mm	38894811.3X20.3		15.0 x 31.0 mm	38894815.0X31.0	
7.3 x 25.3 mm	3889487.3X25.3		11.3 x 25.3 mm	38894811.3X25.3		16.3 x 25.3 mm	38894816.3X25.3	
7.3 x 30.3 mm	3889487.3X30.3		11.3 x 30.3 mm	38894811.3X30.3		16.3 x 30.3 mm	38894816.3X30.3	
7.5 x 21.0 mm	3889487.5X21.0		11.5 x 22.0 mm	38894811.5X22.0		17.0 x 26.0 mm	38894817.0X26.0	
7.5 x 26.0 mm	3889487.5X26.0		11.5 x 26.0 mm	38894811.5X26.0		17.0 x 31.0 mm	38894817.0X31.0	
7.5 x 31.0 mm	3889487.5X31.0		11.5 x 31.0 mm	38894811.5X31.0		17.8 x 25.3 mm	38894817.8X25.3	
8.0 x 21.0 mm	3889488.0X21.0		12.0 x 21.0 mm	38894812.0X21.0		17.8 x 30.3 mm	38894817.8X30.3	
8.0 x 26.0 mm	3889488.0X26.0		12.0 x 26.0 mm	38894812.0X26.0		18.5 x 26.0 mm	38894818.5X26.0	
8.0 x 31.0 mm	3889488.0X31.0		12.0 x 31.0 mm	38894812.0X31.0		18.5 x 31.0 mm	38894818.5X31.0	
8.3 x 20.3 mm	3889488.3X20.3		12.3 x 20.3 mm	38894812.3X20.3		19.3 x 25.3 mm	38894819.3X25.3	
8.3 x 25.3 mm	3889488.3X25.3		12.3 x 25.3 mm	38894812.3X25.3		19.3 x 30.3 mm	38894819.3X30.3	
8.3 x 30.3 mm	3889488.3X30.3		12.3 x 30.3 mm	38894812.3X30.3		20.0 x 26.0 mm	38894820.0X26.0	
9.0 x 21.0 mm	3889489.0X21.0		13.0 x 21.0 mm	38894813.0X21.0		20.0 x 31.0 mm	38894820.0X31.0	
9.0 x 26.0 mm	3889489.0X26.0		13.0 x 26.0 mm	38894813.0X26.0		20.8 x 30.3 mm	38894820.8X30.3	
9.0 x 31.0 mm	3889489.0X31.0		13.0 x 31.0 mm	38894813.0X31.0		21.5 x 31.0 mm	38894821.5X31.0	
9.3 x 18.3 mm	3889489.3X18.3		13.3 x 20.3 mm	38894813.3X20.3		22.8 x 30.3 mm	38894822.8X30.3	
9.3 x 20.3 mm	3889489.3X20.3		13.3 x 25.3 mm	38894813.3X25.3		23.5 x 31.0 mm	38894823.5X31.0	
9.3 x 25.3 mm	3889489.3X25.3		13.3 x 30.3 mm	38894813.3X30.3		25.8 x 30.3 mm	38894825.8X30.3	
9.3 x 30.3 mm	3889489.3X30.3		13.8 x 20.3 mm	38894813.8X20.3		26.5 x 31.0 mm	38894826.5X31.0	
9.8 x 20.3 mm	3889489.8X20.3		13.8 x 25.3 mm	38894813.8X25.3				
9.8 x 25.3 mm	3889489.8X25.3		13.8 x 30.3 mm	38894813.8X30.3				



Slotted hole die no. 60

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
9.3 x 40.3 mm	388949.3X40.3		16.3 x 40.3 mm	3889416.3X40.3		21.5 x 36.0 mm	3889421.5X36.0	
10.0 x 41.0 mm	3889410.0X41.0		17.0 x 36.0 mm	3889417.0X36.0		21.5 x 41.0 mm	3889421.5X41.0	
11.3 x 40.3 mm	3889411.3X40.3		17.0 x 41.0 mm	3889417.0X41.0		22.8 x 35.3 mm	3889422.8X35.3	
12.0 x 41.0 mm	3889412.0X41.0		17.8 x 35.3 mm	3889417.8X35.3		22.8 x 40.3 mm	3889422.8X40.3	
13.8 x 35.3 mm	3889413.8X35.3		17.8 x 40.3 mm	3889417.8X40.3		23.5 x 36.0 mm	3889423.5X36.0	
13.8 x 40.3 mm	3889413.8X40.3		18.5 x 36.0 mm	3889418.5X36.0		23.5 x 41.0 mm	3889423.5X41.0	
14.3 x 35.3 mm	3889414.3X35.3		18.5 x 41.0 mm	3889418.5X41.0		24.3 x 40.3 mm	3889424.3X40.3	
14.3 x 40.3 mm	3889414.3X40.3		19.3 x 35.3 mm	3889419.3X35.3		25.0 x 41.0 mm	3889425.0X41.0	
14.5 x 36.0 mm	3889414.5X36.0		19.3 x 40.3 mm	3889419.3X40.3		26.3 x 40.3 mm	3889426.3X40.3	
14.5 x 41.0 mm	3889414.5X41.0		20.0 x 36.0 mm	3889420.0X36.0		26.5 x 41.0 mm	3889426.5X41.0	
15.0 x 36.0 mm	3889415.0X36.0		20.0 x 41.0 mm	3889420.0X41.0		27.0 x 41.0 mm	3889427.0X41.0	
15.0 x 41.0 mm	3889415.0X41.0		20.8 x 35.3 mm	3889420.8X35.3		27.3 x 40.3 mm	3889427.3 x 40.3	
16.3 x 35.3 mm	3889416.3X35.3		20.8 x 40.3 mm	3889420.8X40.3		28.0 x 41.0 mm	3889428.0 x 41.0	



Slotted hole die no. 80*

(w x l)	Art. no.		(w x l)	Art. no.		(w x l)	Art. no.	
11.3 x 45.3 mm	3889411.3X45.3		18.5 x 51.0 mm	3889418.5X51.0		25.8 x 50.3 mm	3889425.8X50.3	
11.3 x 50.3 mm	3889411.3X50.3		20.8 x 50.3 mm	3889420.8X50.3		26.3 x 50.3 mm	3889426.3X50.3	
12.0 x 46.0 mm	3889412.0X46.0		21.5 x 51.0 mm	3889421.5X51.0		26.5 x 51.0 mm	3889426.5X51.0	
12.0 x 51.0 mm	3889412.0X51.0		22.8 x 50.3 mm	3889422.8X50.3		27.0 x 51.0 mm	3889427.0X51.0	
13.8 x 50.3 mm	3889413.8X50.3		23.5 x 51.0 mm	3889423.5X51.0		27.3 x 50.3 mm	3889427.3X50.3	
14.5 x 51.0 mm	3889414.5X51.0		24.3 x 50.3 mm	3889424.3X50.3		28.0 x 51.0 mm	3889428.0X51.0	
17.8 x 50.3 mm	3889417.8X50.3		25.0 x 51.0 mm	3889425.0X51.0				



The punches and dies are not suitable for machining stainless steel. Tools for stainless steel can be quoted for on request.

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Hydraulic hole punches

Square punch no. 2

(s)	Art. no.	
4.0 mm	388954.0	
5.0 mm	388955.0	
6.0 mm	388956.0	
7.0 mm	388957.0	
8.0 mm	388958.0	
9.0 mm	388959.0	

(s)	Art. no.	
10.0 mm	3889510.0	
11.0 mm	3889511.0	
12.0 mm	3889512.0	
13.0 mm	3889513.0	
14.0 mm	3889514.0	
15.0 mm	3889515.0	

(s)	Art. no.	
16.0 mm	3889516.0	
17.0 mm	3889517.0	
18.0 mm	3889518.0	
19.0 mm	3889519.0	
20.0 mm	3889520.0	



Square punch no. 3

(s)	Art. no.	
21.0 mm	3889521.0	
22.0 mm	3889522.0	
23.0 mm	3889523.0	
23.5 mm	3889523.5	
24.0 mm	3889524.0	

(s)	Art. no.	
24.5 mm	3889524.5	
25.0 mm	3889525.0	
25.5 mm	3889525.5	
26.0 mm	3889526.0	
26.5 mm	3889526.5	

(s)	Art. no.	
27.0 mm	3889527.0	
27.5 mm	3889527.5	
28.0 mm	3889528.0	



Square punch no. 4*

(s)	Art. no.	
28.5 mm	3889528.5	
29.0 mm	3889529.0	
29.5 mm	3889529.5	
30.0 mm	3889530.0	
30.5 mm	3889530.5	

(s)	Art. no.	
31.0 mm	3889531.0	
31.5 mm	3889531.5	
32.0 mm	3889532.0	
32.5 mm	3889532.5	
33.0 mm	3889533.0	

(s)	Art. no.	
33.5 mm	3889533.5	
34.0 mm	3889534.0	
34.5 mm	3889534.5	
35.0 mm	3889535.0	

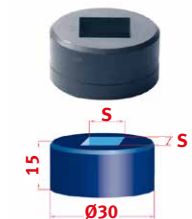


Square die no. 30

(s)	Art. no.	
4.2 mm	388964.2	
4.7 mm	388964.7	
5.2 mm	388965.2	
5.7 mm	388965.7	
6.2 mm	388966.2	

(s)	Art. no.	
6.7 mm	388966.7	
7.2 mm	388967.2	
7.7 mm	388967.7	
8.2 mm	388968.2	
8.7 mm	388968.7	

(s)	Art. no.	
9.2 mm	388969.2	
9.7 mm	388969.7	
10.2 mm	3889610.2	
10.7 mm	3889610.7	
11.2 mm	3889611.2	

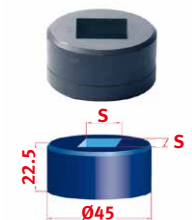


Square die no. 45

(s)	Art. no.	
11.7 mm	3889611.7	
12.2 mm	3889612.2	
12.7 mm	3889612.7	
13.2 mm	3889613.2	
13.7 mm	3889613.7	
14.2 mm	3889614.2	
14.7 mm	3889614.7	
15.2 mm	3889615.2	

(s)	Art. no.	
15.7 mm	3889615.7	
16.2 mm	3889616.2	
16.7 mm	3889616.7	
17.2 mm	3889617.2	
17.7 mm	3889617.7	
18.2 mm	3889618.2	
18.7 mm	3889618.7	
19.2 mm	3889619.2	

(s)	Art. no.	
19.7 mm	3889619.7	
20.2 mm	3889620.2	
20.7 mm	3889620.7	
21.2 mm	3889621.2	
21.7 mm	3889621.7	
22.2 mm	3889622.2	
22.7 mm	3889622.7	
23.2 mm	3889623.2	

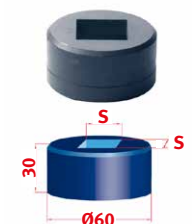


Square die no. 60

(s)	Art. no.	
23.2 mm	3889623.2	
23.7 mm	3889623.7	
24.2 mm	3889624.2	
24.7 mm	3889624.7	
25.2 mm	3889625.2	

(s)	Art. no.	
25.7 mm	3889625.7	
26.2 mm	3889626.2	
26.7 mm	3889626.7	
27.2 mm	3889627.2	
27.7 mm	3889627.7	

(s)	Art. no.	
28.2 mm	3889628.2	
28.7 mm	3889628.7	
29.2 mm	3889629.2	

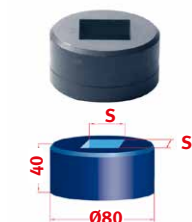


Square die no. 80*

(s)	Art. no.	
28.7 mm	3889628.7	
29.2 mm	3889629.2	
29.7 mm	3889629.7	
30.2 mm	3889630.2	
30.7 mm	3889630.7	

(s)	Art. no.	
31.2 mm	3889631.2	
31.7 mm	3889631.7	
32.2 mm	3889632.2	
32.7 mm	3889632.7	
33.2 mm	3889633.2	

(s)	Art. no.	
33.7 mm	3889633.7	
34.2 mm	3889634.2	
34.7 mm	3889634.7	
35.2 mm	3889635.2	
35.7 mm	3889635.7	



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Intermediate and
custom sizes on
request (3889399)



We are always happy to advise you on
the subject of dies and punches, e.g.,

- ▶ Which punch matches which die?
- ▶ What size do I need for my application?
- ▶ What material can I punch?

Prices on request!

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