SCHRÖDER GROUP

MOTORIZED AND MANUAL SHEET METAL SHEARS

Sheet metal shears

Motorized and manual shears for the sheet metal sector

MHSU

PDC

PDC-NC

527

528

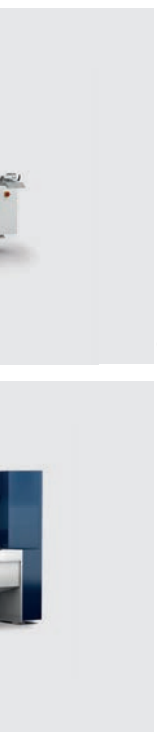
PowerShear

Better sheet metal working – we have dedicated ourselves to enabling highest quality standards and efficient processes in the production of sheet metal products. This brochure can only give you an initial overview of our machines designed for thin and thick sheet metal applications – we are pleased to offer you our advice to selecting a suitable machine for your requirements.

75 years of sheet metal working

Since 75 years Hans Schröder Maschinenbau GmbH specialized in the development of modern machine concepts for bending and cutting sheet metal for craftsmen and for industrial production processes. The family owned company founded in 1949 by Hans Schröder unifies traditional and modern approaches in machine building: technical competence and high commitment to innovation, intensive quality- and service orientation, the work for and with the customer as well as a trusting cooperation with suppliers and employees.

Note: All dimensions in mm, standard color machines: RAL 7035 light gray, RAL 5003 sapphire blue. Special painting against surcharge.



HS

Working length ▸	1,000	1,250	1,500	1,600	2,000	2,500	3,000	3,200	4,000
Sheet thickn.▾ (400 N/mm²)	Sheet metal shears								
1.00						HS	HS		
1.25					HS				
1.50								MHSU	
2.00	HS					MHSU		MHSU	
2.50			MHSU		MHSU	MHSU			PDC / PDC-NC
3.00	MHSU	MHSU			MHSU			PDC / PDC-NC	
3.25						527			
3.50						PDC			
3.75				527					
4.00	MHSU		MHSU		PDC				
4.50			PDC						
6.00							Power Shear		Power Shear
10.0					528		528		
13.0							528		

Table of content

The motorized shear MHSU

The motorized shear MHSU has been designed or processing sheet metal and plastics. This shear enables clear cuttings for your serial production.

RELAUNCH
coming soon!

The MSHU with sheet support to the front and the new NC positioning gauge Classic Cut.

Standard: MHSU with rear guarding via 3-beam light barrier incl. side protection grid and manual back gauge

Experience gathered over decades is reflected in the technology and design of the shear, which is capable of cutting almost any metal and non-metal materials. With the aid of new design techniques, we are able to offer a tried and tested product incorporating state-of-the-art technology.

The slideway guided shear MHSU offers you an entry into motorized cutting. This machine is able to cut up to 4 mm thick sheets fast and clearly and is available with a working length up to 3200 mm.

Easy handling

The compact and clearly-arranged machine construction of the MSHU as well as its ergonomic design enable an easy operation without any particular previous knowledge. All controls and displays are arranged for the operator and can be found on the cenral control panel.

The new positioning gauge Classic Cut with 9-fold program can program gauge lengths up to 750 mm or 1 000 mm. It significantly facilitates handling and precise positioning of the work piece compared to the manual adjustment.

Standard equipment
Manual back gauge 750 mm, adjustable from the front with digital readout
Hold-down device with hard rubber rail to protect polished sheets
Telescopic support table
All-steel blade, double-edged
Adjustable angle gauge left and right with scale
Milled grooves every 10 mm along the table, parallel to the blades
Selector switch for single and continous stroke
Obligatory CE safety package rear guarding via 3-beam light barrier incl. side protection grid
Foot switch
Anchor plates incl. dowels

Special equipment	
Blades	Fine adjustment screws for material with less thickness 0.5 mm (at working length 3200 mm incl.)
	Blades designed for stainless steel
Others	- Longlife bearing system driving rod with self-aligning roller bearing, connecting rods with needle bearing - LED cutting edge illumination - Pneumatic hold-down device - Stroke counter (with Classic Cut incl.) - Extended sheet chute to the front - Sheet shute on wheels, 4 steering castors, 2 lockable (for cuttings up to max. 500 mm, up to max. 200 kg - Sheet stacking cart (without stacking sheet insets), usable for deposition to the front, optionally to the back with 4 steering castors, lockable (for cuttings up to max. 750 mm, up to max. 500 kg, only in connection with sheet support) - Set of sheet metal plates for sheet stacking cart - Sheet support see p. 9 under gauges
Gauges	see p. 9
Tables	see p. 9

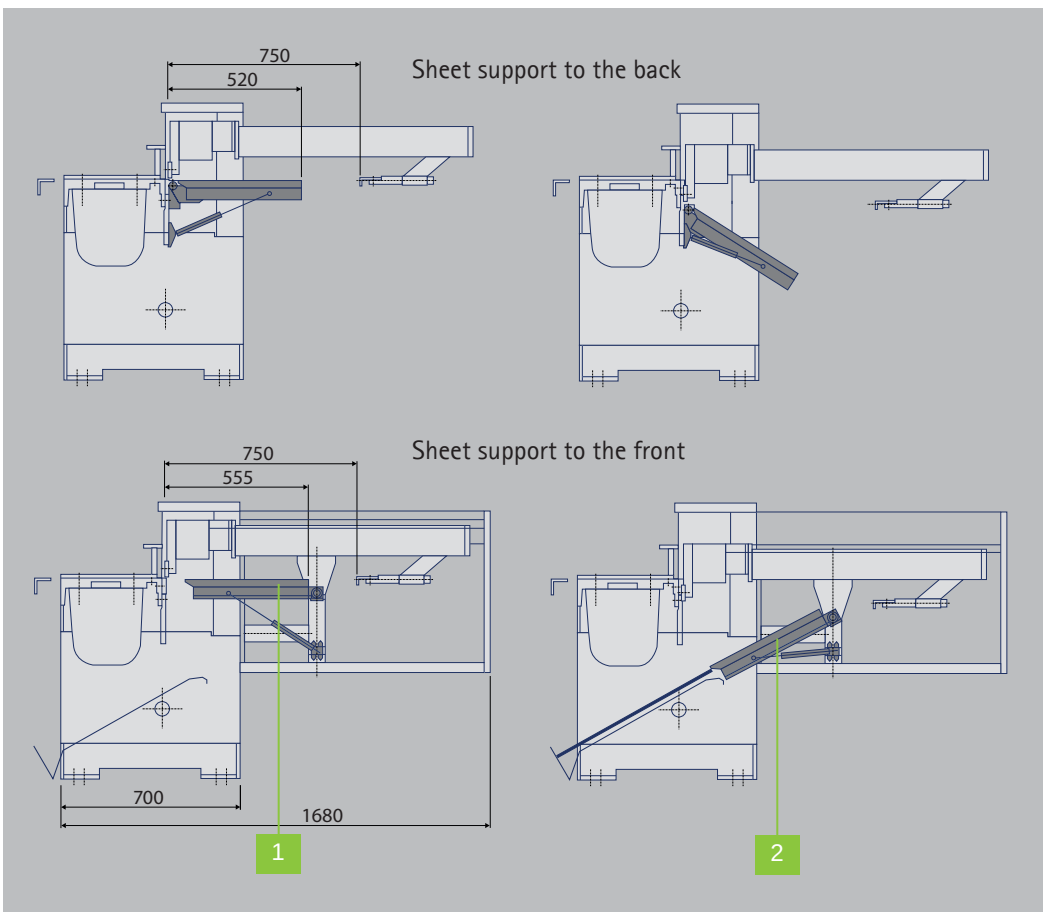
Option: NC-positioning gauge Classic Cut

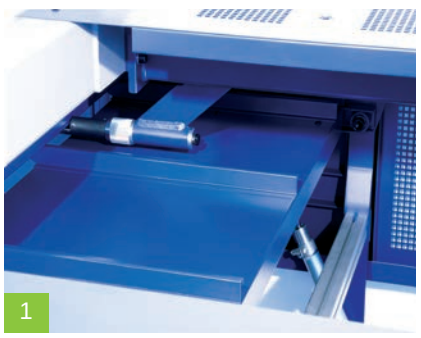

Sheet shute on wheels with 4 steering castors


Sheet stacking cart, usable for deposition to the front, optionally to the back with sheet metal plates

The right options for each task

The Schröder-shear is not just a productivity gain with its standard equipment, but its various options increase your efficiency additionally.





Sheet support to the front in horizontal position

Sheet support to the front in tilted position, pneumatically controlled incl. sheet shute, gauge width 750 mm or 1000 mm

High rigidity already in its basic configuration

The motorized shear MHSU is based on a torsion-free rigid welded construction and a powerful dynamic low-noise geared motor. The high static and dynamic rigidity are guaranteed thanks to sturdy key components such as cutting bar, sheet support table, lateral frames and main drive units.

The generously designed flat cutting beam guides dispose of robust and wear-resistant special sliding covers. This maintenance free sliding cover ensures optimum guidance and dampening characteristics.

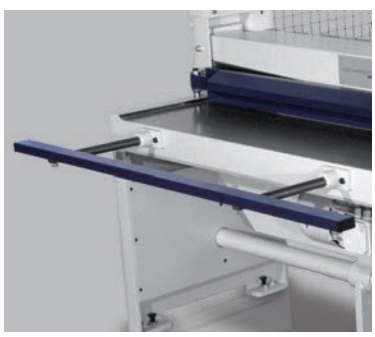
Efficient sheet support

The sheet support holds the sheet upwards and leads the sheet in horizontal position to the gauge. After a successful cut the sheet will be deposited to the back or to the front.

In its standard configuration, the sheet support to the front is provided with an integrated sheet chute. In addition to that you can acquire a sheet chute on wheels or a sheet stacking cart (see pictures p. 3) - the latter one is also available for the sheet support to the back.

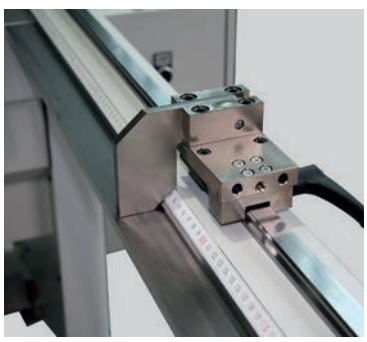
Gauge options and further possibilities

Thanks to the different gauge options multiple sheet formats can be cut by the MHSU which guarantees an optimal processing of your product.

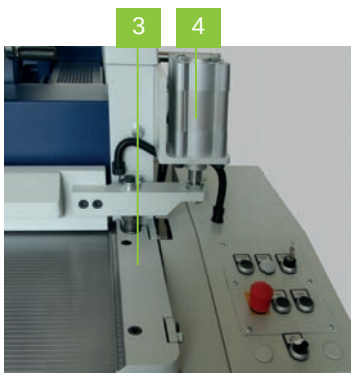


Telescopic support table

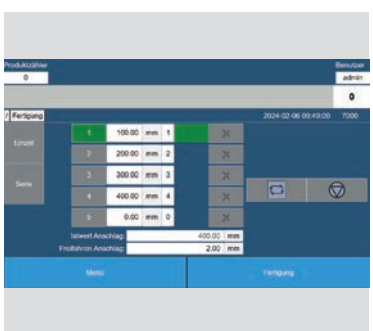
Manual back gauge, adjustable from the front with digital readout



Extended angle gauge on the right with scale incl. lateral flip gauge on linear guide



[3] Adjustable angle gauge
[4] Pneumatic hold-down device



NC positioning gauge Classic Cut with 9-step program

Cutting edge illumination

Optional: Extended angle gauge on the right with electronic length measurement system incl. lateral flip gauge on linear guide

[5] Movable sheet support with T-slots on linear guide

The control panel (left) is directly mounted on the control cabinet and clearly-arranged for all control elements:

- Cut counter (special equipment)
- Indicator lamp
- Selector switch for single and continous stroke
- Lift button
- EMERGENCY STOP button
- START button

Optimized cutting performance through inclined cutting beam

The cutting beam of the MHSU has been constructed and improved with the finite-element-method and thus ensures a precise cut of slim sheets with this working length.

Exact positioning

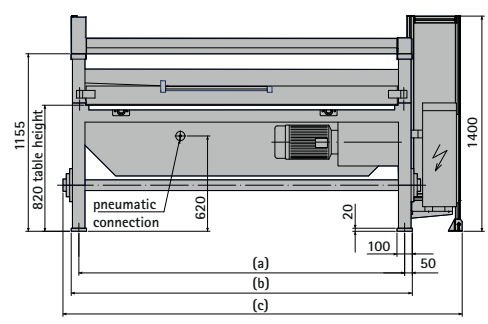
For our shears we are offering an adjustable angle gauge for you. Thus we grant an exactly right-angled positioning of the sheet.

On request this angle gauge can be exchanged quickly. As an extra feature the extended angle gauge is also available with a flip gauge and / or an electronic length measurement system.

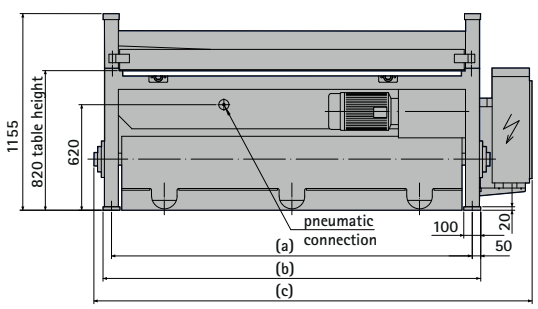
Technical data

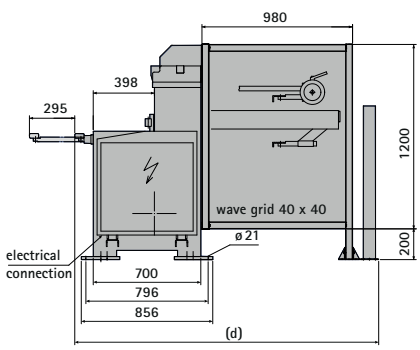
MHSU	1,000	1,250	1,500	2,000	2,500	3,200
Working length	1,030 mm	1,280 mm	1,530 mm	2,030 mm	2,530 mm	3,230 mm
Sheet thickness (400 N/mm²)	3.0/4.0 mm	3.0 mm	2.5/4.0 mm	2.5/3.0 mm	2.0/2,5 mm	1.5/2,0 mm
Cutting angle	2.4°	2.0°	2.7°	2.0°	1.7°	1.3°
Number of strokes (pro min.)	34					
Drive power	3.4 kW	3.4 kW	3.4/4.0 kW	3.4/4.0 kW	3.4/4.0 kW	3.4/4.0 kW
Weight basic machine (ca.)	780/850 kg	790 kg	780/940 kg	960/1,290 kg	1,140/1,350 kg	1,460/1,790 kg
Outer dimensions						
(a)	1,120 mm	1,370 mm	1,620 mm	2,120 mm	2,620 mm	3,320 mm
(b)	1,220 mm	1,470 mm	1,720 mm	2,220 mm	2,720 mm	3,420 mm
(c)	1,600 mm	1,850 mm	2,100 mm	2,600 mm	3,100 mm	3,800 mm
Back gauge, manual 750/1,000 mm (d)	1,980 mm					
Back gauge, motorized 750 mm (d)	1,980 mm					
Back gauge, motorized 1,000 mm (d)	2,080 mm					
MHSU with sheet support (= BHV) to the front: Outer dimensions						
(a)	1,120 mm	1,370 mm	1,620 mm	2,120 mm	2,620 mm	3,320 mm
(b)	1,220 mm	1,470 mm	1,720 mm	2,220 mm	2,720 mm	3,420 mm
Back gauge, manual (c)	1,500 mm	1,750 mm	2,000 mm	2,500 mm	3,000 mm	3,700 mm
Back gauge, motorized (c)	1,575 mm	1,825 mm	2,075 mm	2,575 mm	3,075 mm	3,775 mm
Back gauge, manual, sheet support to the front, rear guarding via cover 750 mm (d)	1,680 mm					
Back gauge, Classic Cut, sheet support to the front with protection grid 750 mm (d)	1,800 mm					
Back gauge Classic Cut, sheet support to the front 1,000 mm (d)	2,050 mm					

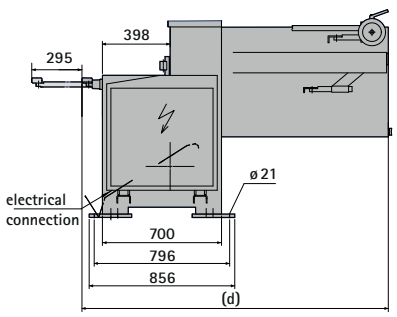
Without sheet support



Sheet support to the front







All dimensions in mm

Gauges and table variants

MHSU	Special equipment
Gauges	Manual back gauge 1,000 mm, adjustable from the front, with digital readout
	NC positioning gauge Classic Cut with touch control on turnable panel 750 mm or 1,000 mm
	Sheet support, pneumatically controlled, to the back (Seesaw with plastic supports reaching up to 20 mm to the lower blade)
	Sheet support, pneumatically controlled, to the front incl. sheet shute rear guarding via cover
	Sheet support to the front, with gauge extension up to 1,000 mm
Tables	2 sheet support arms with T-slot incl. scale (standard teleskop table is dropped) - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest
	Extended angle gauge (right or left) with scale - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest
	Extended angle gauge (right or left) with scale incl. lateral flip gauge on linear guide - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest
	Extended angle gauge (right or left) with electronic length measurement system, fine adjustment and lateral flip gauge on linear guide - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest
	Adjustable angle gauge with scale division 0 - 180°
	T-slot in table 400 mm
	Tipping gauge for insertion in T-slot
	Linear guide at the front for movable table support arms (without support arms)
	Moveable support arm for linear guide, at the front, incl. T-slot and scale - 1,000 mm - 1,500 mm - 2,000 mm incl. movable foot rest

PDC / PDC-NC

Options for every cutting task

The power-operated shear PDC is a stronger version of the MHSU line and offers a higher performance thanks to its robust design and its belateral „DUO-CUT„-drive.

Motorized shear PDC

Motorized shear PDC-NC with Classic Cut NC positioning control

Standard – Type PDC

The power-operated shear PDC has been designed for processing sheet metal and plastics.

It is a stronger version of the MHSU line. The sturdier and stiffened table and frame design as well as the „Duo-Cut" drive with two motors make for a considerably improved cutting capacity while retaining the many functional merits of the MHSU.

With the aid of new design techniques, we are able to offer a tried and tested product incorporating state-of-the-art technology.

Extension – Type PDC-NC

The motorized guillotine type PDC-NC is technically based on the PDC. With an integrated NC positioning gauge and a pneumatically controlled sheet support the PDC-NC offers an extensive standard equipment and an attractive design that all together lead to a significant upgrade compared to the PDC.

New features of the PDC-NC

- NC-positioning control Classic Cut on turnable panel: entry via touch display
- Chain dimension function for serial cutting
- Motorized blade gap adjustment (optional)
- Servo motors for precise positioning of the gauge

More information, pictures and videos
PDC

PDC-NC

Standard equipment

PDC	PDC-NC
Manual back gauge 750 mm, adjustable from the front, with digital readout	NC positioning gauge Classic Cut on turnable panel, entry via touch display, motorized back gauge 6 - 750 mm with servo drive
-	Cut counter
Hold-down device with hard rubber rail to protect polished sheets	
Manual blade gap adjustment, two-sided	
Extended angle gauge, right, with T-slot and scale 1,000 mm	
2 sheet support arms with T-slot and scale 1,000 mm (3 support arms with a working length of 4,000 mm)	
Table with exchangeable stainless steel plates with recessed grips	
All-steel blade, double-edged	
Function: single and continuous stroke	
From 2,000 mm bilateral drive	Bilateral drive
-	Pneumatically controlled sheet support to the front with sheet separator max. 750 mm, optionally to the back without sheet separator
Obligatory CE safety package for standard machines rear guarding via 3-beam light barrier incl. side protection grid	
Foot switch	
Anchor plates incl. dowels	

Special equipment

	PDC	PDC-NC
Blades	Blades designed for stainless steel, instead of standard blades	
Others	- Motorized blade gap adjustment (only in combination with positioning gauge Classic Cut) - Cutting edge illumination LED - Pneumatic hold-down device - Stroke counter (with Classic Cut incl.) - Sheet stacking cart, for back - Sheet stacking cart, for front (only in combination with working height 950 mm and shortened sheet shute) - Working height 950 mm - Shortened sheet shute - Longlife bearing system - Sheet support see p. 15 under gauges	
Gauges	see page 15	
Tables	see page 15	

The right accessories for all tasks

The Schröder shear is already a productivity gain in its standard equipment. Thanks to its numerous options this machine can be used for many businesses.

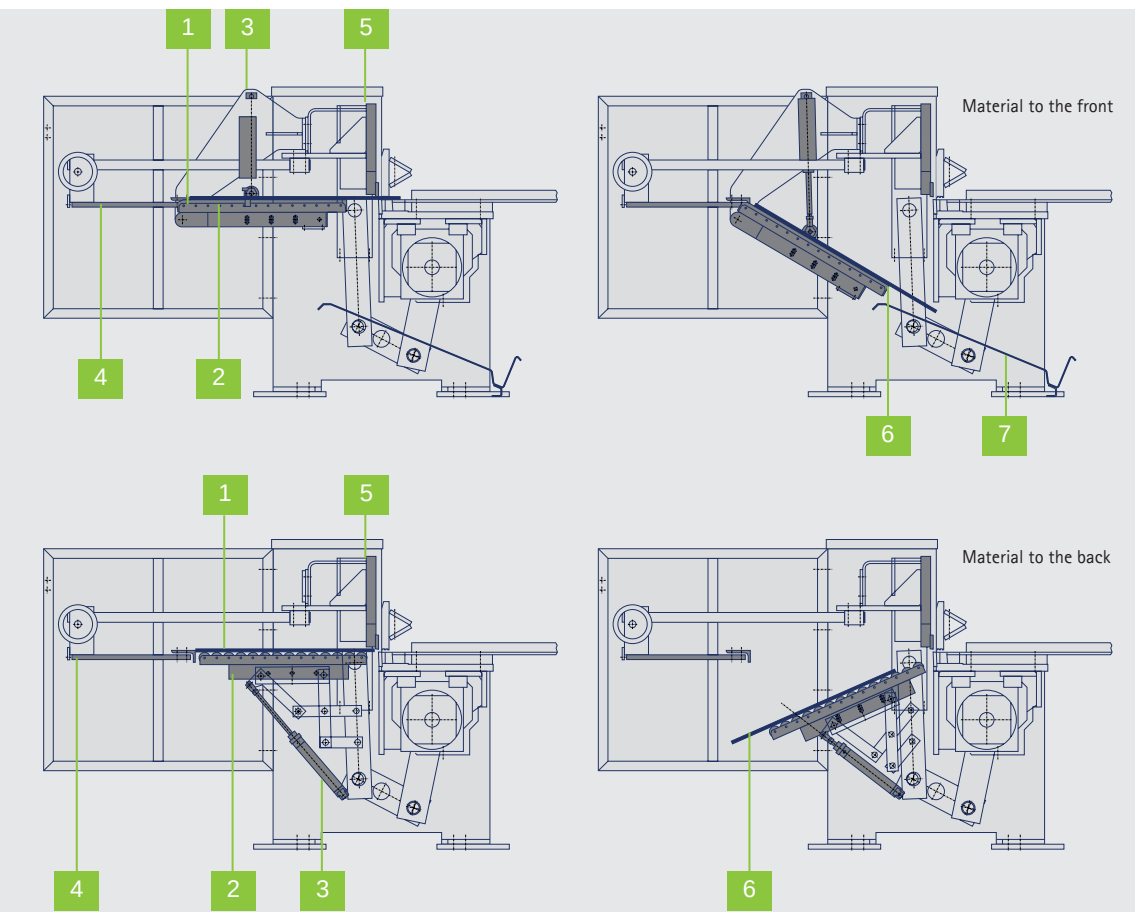


Table with exchangeable stainless steel plates with recessed grips [8] and extended angle gauge on the right with scale incl. lateral flip gauge on linear guide [9]

Technical description of the sheet support system

1 Cutting material
2 Tilting depositing device
3 Cylinder
4 Gauge
5 Cutting bar
6 Blank
7 Sheet separator

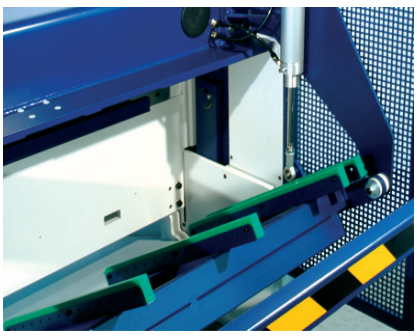
High rigidity already in its basic configuration

The motorized shear PDC is based on a torsion-free rigid welded construction and a „Duo-Cut" drive with two powerful dynamic low-noise geared motors. The high static and dynamic rigidity are guaranteed thanks to sturdy key components such as cutting bar, sheet support table, lateral frames and main drive units.

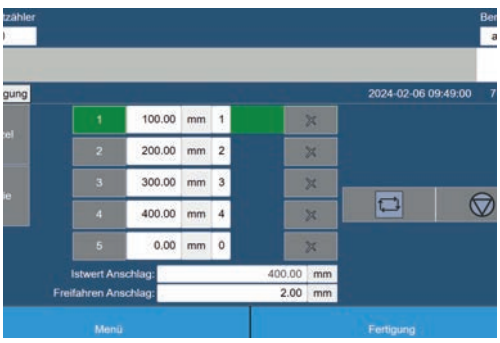
The generously designed flat cutting bar guides dispose of robust and wear-resistant special sliding covers. This maintenance free sliding cover ensures optimum guidance and dampening characteristics.

Gauge options for better handling

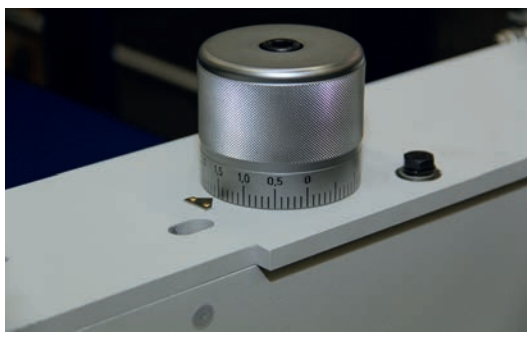
Both the PDC and the PDC-NC are able to process various types of sheets. We supply you with gauge options that are suited to your individual requirements.



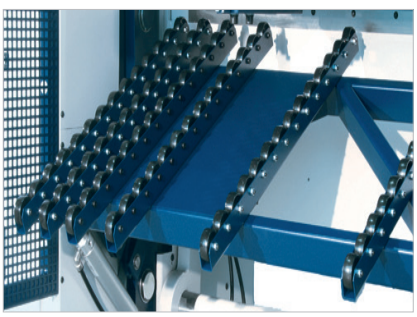
Sheet support to the front, pneumatically controlled, incl. sheet shute 750 mm or rather 1,000 mm



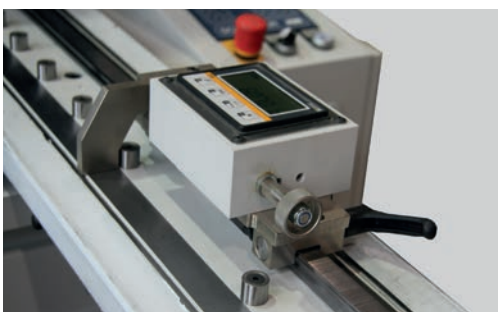
NC positioning gauge Classic Cut with 9-step program
Gauge dimension 750 mm or optionally 1,000 mm



Manual blade gap adjustment two-sided, optionally motorized



Optional: Sheet support to the back, pneumatically controlled, for gauge extension up to 1,000 mm, supporting width 750 mm



Optional for PDC and PDC-NC: Extended angle gauge (right or left) with electronic length measurement system incl. lateral flip gauge on linear guide

Optional: Manual back gauge, adjustable from the front, with digital readout (standard equipment)

Efficient sheet support

The sheet support holds the sheet upwards and leads the sheet in horizontal position to the gauge. After a successful cut the sheet will be deposited to the back or to the front.

Software Classic Cut

The back gauge, which is manually adjustable in the standard version, promises high cutting performance with minimum effort thanks to a modern, low-friction and virtually wear-free crank drive. As an option, the back gauge, which is equipped with servo motors, can be adjusted via the software Classic Cut. The manual blade gap adjustment for material thickness setting is also optionally available motorized.

The Classic Cut with 9-fold program can program gauge lengths up to 750 mm or 1 000 mm and significantly facilitate handling and precise positioning compared to the manual adjustment.

Exact positioning

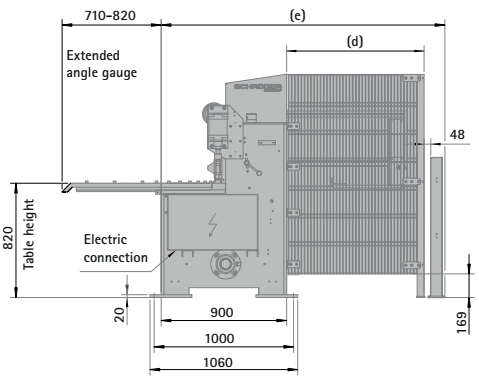
In order to be able to position a sheet exactly right-angled, it is recommended to make use of an extended angle gauge. Big sheets can be processed even better and more efficiently.

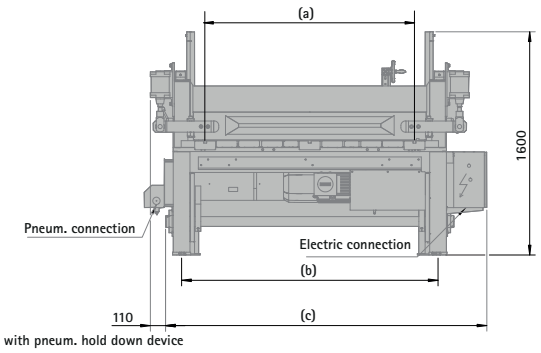
As an extra feature the extended angle gauge is also available with an electronic length measurement system.

Dimensions and technical data PDC / PDC-NC

PDC	1,500 x 4.5	2,000 x 4.0	2,500 x 3.5	3,200 x 3.0	4,000 x 2.5
Working length (a)	1,530 mm	2,030 mm	2,530 mm	3,230 mm	4,080 mm
Sheet thickness (400 N/mm²)	4.5 mm	4.0 mm	3.5 mm	3.0 mm	2.5 mm
Cutting angle	2.86°	2.5°	2.0°	1.6°	1.3°
Number of strokes (per min.)	34				
Drive power	1 x 7.5 kW	2 x 4.0 kW			
Weight (ca.)	2,450 kg	2,860 kg	3,110 kg	3,560 kg	4,160 kg
Outer dimensions					
Machine height	1,600 mm				
Hole space of machine fixings (b)	1,840 mm	2,340 mm	2,840 mm	3,540 mm	4,390 mm
Machine length (c)	2,370 mm	2,870 mm	3,370 mm	4,070 mm	4,920 mm
Back gauge, man./mot. 750 mm (d)	1,000 mm				
Back gauge, man./mot. 750 mm (e)	2,035 mm				
Back gauge, man./mot. 1000 mm (d)	1,285 mm				
Back gauge, man./mot. 1000 mm (e)	2,320 mm				

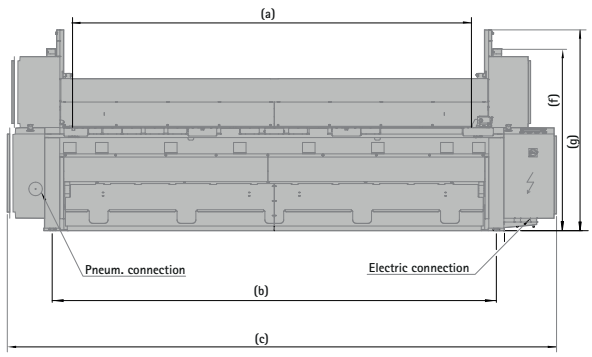
Dimension: PDC

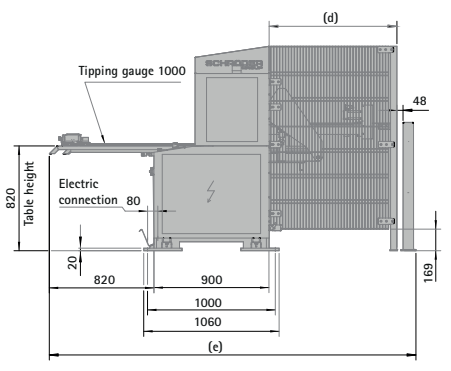




PDC-NC	3,200 x 3.0	4,000 x 2.5
Working length (a)	3,230 mm	4,080 mm
Sheet thickness 400 N/mm²	3.0 mm	2.5 mm
Cutting angle (°)	1.6	1.3
Stroke (per min.)	34	
Drive power (kW)	2 x 4.0 kW	
Weight, ca.	3,500 kg	3,800 kg
Outer dimensions		
Hole space of machine fixing (b)	3,540 mm	4,390 mm
Machine lenght (c)	4,329 mm	5,179 mm
Back gauge, motorized 750 mm (d)	1,000 mm	
Back gauge, motorized 750 mm (e)	2,870 mm	
Back gauge, motorized 1000 mm (d)	1,285 mm	
Back gauge, motorized 1000 mm (e)	3,155 mm	
Blade gap adjustment, manual (f)	1,387 mm	
Blade gap adjustment, manual (g)	1,600 mm	
Blade gap adjustment, motorized (f)	1,487 mm	
Blade gap adjustment, motorized (g)	1,800 mm	

Dimension: PDC-NC





Gauges and table options

Special equipment

	PDC	PDC-NC
Gauges	Manual back gauge 1,000 mm, adjustable from the front, with digital readout	-
	NC positioning gauge Classic Cut on turnable panel with 9-step program 1,000 mm	NC positioning gauge Classic Cut on turnable panel with 9-step program 1,000 mm
	Sheet support to the back, pneumatically controlled, sheet support table width max. 750 mm, without sheet shute	Options in standard freely choosable.
	Sheet support to the front, pneumatically controlled, sheet support table width max. 750 mm, incl. sheet shute	
	Sheet support to the front, for gauge extension max. 1,000 mm	
	Back gauge with ball screw spindles 750 mm or 1,000 mm	
Tables	Closed table, support plate and support arms with ball rollers	
	Additional sheet support arm for closed table with ball rollers, T-slot and scale 1,000 mm	
	Additional sheet support arm with T-slot and scale 1,000 mm	
	2 sheet support arms with T-slot and scale (3 support arms with a working length of 4,000 mm) - 1,500 mm - 2,000 mm incl. Fußstütze	
	Additional extended angle gauge left side with T-slot and scale 1,000 mm	
	Extended angle gauge (right or left) wit T-slot and scale - 1,500 mm - 2,000 mm incl. foot rest	
	Extended angle gauge (right or left) with scale incl. lateral flip gauge on linear guide - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest	
	Extended angle gauge, right or left, with electronic length measurement system, fine adjustment and lateral flip gauge on linear guide - 1,000 mm - 1,500 mm - 2,000 mm incl. foot rest	
	Adjustable angle gauge with scale division 0 - 180°	
	Tipping gauge for insertion in T-slot	
	Linear guide at the front for movable table support arms (without support arms)	
	Moveable support arm 1500 mm for linear guide, at the front incl. T-slot and scale - 1,000 mm - 1,500 mm - 2,000 mm incl. movable foot rest	

The heavy-duty guillotine 527

The heavy-duty guillotine 527 meets the requirements of the demanding craftsman, but can also cope with the constant load of daily industrial practice.

The heavy duty crank guillotine with sturdy permanent accuracy.

Manual back gauge, adjustment range 10 - 600 mm

Pneumatically controlled sheet support will ball castors.

The guillotine 527 at a glance

Design

- All-steel welded structure with high rigidity and very short direct power flux between drive and blade
- Diagonal cut with adjustable guides free of play.
- Precise blade clearance adjustment
- Continous holding-down device with variable contact pressure
- Ergonomischer Flex-Tisch
- Efficient sheet support holding device holds the sheet at the top and guides it safely to the fence in a horizontal position. Once the cut is complete, the sheet is deposited to the rear.

In this new shearing unit, it is a combination of three crucial features that yields high cutting performance and notable economic efficiency.

- The welded connection between frame and guillotine table gives the all-steel structure very high rigidity
- The location of oscillating crank centre of the driving shaft relative to the cutting bar and cutting bar guide ensures an optimal power flux from drive to blade
- The inclined position of the cutting bar guides, in conjunction with easy blade clearance adjustment, and helps to optimize cut precision.

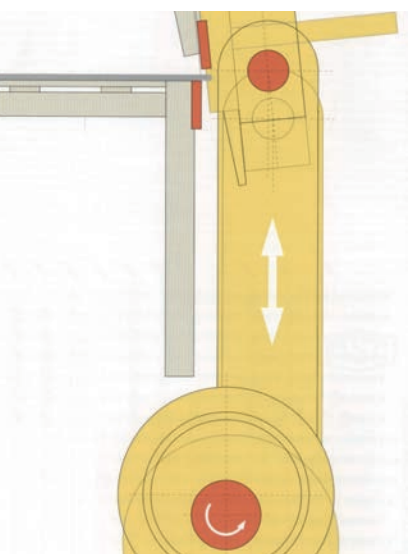
Standard equipment 527
Software control FM 1S electrical safety control Operation modes: Single stroke, continous stroke, inching
Manual blade gap adjustment
Continous hold-down device
Blades designed for steel, ca. 700 N/mm²
Flex-table
Angle gauge with scale 750 mm from blade edge
Manual back gauge HAH 52, adjustment range 10 - 600 mm
Table extension 750 mm from blade edge
Individual lubrication spots
Foot switch
Obligatory CE safety package: rear guarding via 3-beam light barrier incl. side protection grid

Manual blade gap adjustment

FM 1S software control

Special equipment 527
Angle gauge, mounted on the left with scale incl. seat for tipping gauge: Gauge dimension max. 1,000 mm or 1,500 mm
Tipping gauge for angle gauge (not in combination with standard angle gauge)
Table extensions with seat for pivoting cam gauge and scale: 1,000 mm, 1,500 mm oder 2,000 mm from cutting edge
Tipping gauge for table extension, each (not in combination with standard table extension)
Steel balls for standard table
Manual back gauge 700 mm or 1,000 mm adjustable from the front
MAH 51 - motorized back gauge Adjustment via trapezoidal spindles, FM 2 touch screen control, adjustment range 10 - 1,000 mm
Sheet support, pneumatically controlled,with sheet support arms with rolls (for cuts from 150 x 300 mm) only in combination with MAH 51
Cutting table on the left side of angle gauge closed through filling pieces with or without ball rollers
Others: Pneumatic hold-down device, LED cutting edge illumination

Slideway guided cutter bar with eccentric drive.



Technical data 527	16/3.75	25/3.25
Working length x sheet thickness (400 N/mm²) (mm)	1,640 x 3.75	2,540 x 3.25
Stroke (1/min)	50	50
Cutting angle (°)	1.3°	1.2°
Table extension	1	2
Hold-down force (mm)	13,000	13,000
Min. leftover on table (mm)	30	30
Min. leftover behind table (mm)	10	10
Space requirement „B" (mm)	870	970
Space requirement „L" (mm)	2,445	3,345
Back gauge HAH 52 (mm)		
Adjustment range (mm)	750	750
Space requirement „T" (mm)	1,800	1,800
Back gauge MAH 51 (mm)		
Adjustment range (mm)	1,000	1,000
Speed (mm/s)	333	333
Positioning accuracy (mm)	0.1	0.1
Adjustment range „T" (mm)	2,450	2,450
Motor drive (kW)	7.5	7.5
Weight (kg)	2,200	3,200

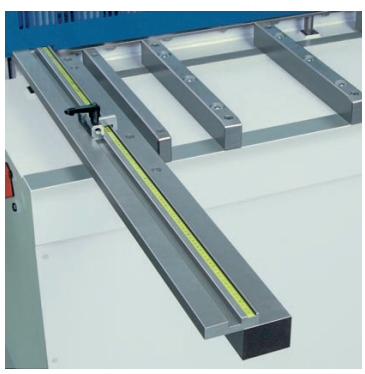
Hydraulic shear 528

The 528 hydraulic guillotine for heavy plate has been designed for high efficiency and well thought-out ergonomics.

The hydraulic shear for universal use.

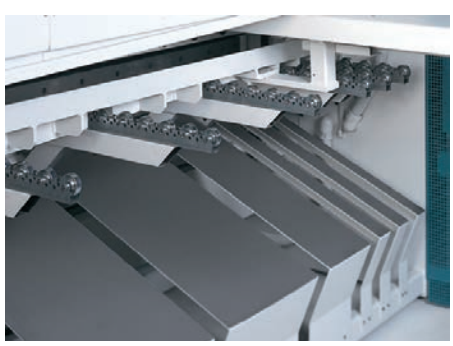
Flex-table incl. ball rollers

Extended angle gauge incl. flipping gauge



Pneumatically controlled sheet support

The hydraulic shear 528 features high static and dynamic rigidity thanks to sturdy components such as lateral frame, sheet support table and drive unit. Thus, it fulfills all requirements for an exact cut with high productivity. The machine has the 12" software control PSC 150 mounted on swivelling arm that automates production processes and allows an economic way of working.



Sheet support

- Pneumatically controlled sheet support with support arms and aluminum/steel rollers for max. 6 mm, can be switched off via the control system.
- Holding the sheet metal upright improves workpiece guidance and therefore the quality of the workpiece.

Standard equipment 528
12" software control PSC 150 mounted on swivelling arm, TFT colour touch screen display Automatic calculation and infinitely variable adjustment of cutting angles Storage of programs on memory card, 20 program steps per program Operating mode: single stroke, continous stroke, inching mode
Blades designed for steel, tensile strength ca. 700 N/mm²
Cutting edge illumination
Flex-table
Angle gauge with scale, 1,000 mm from blade edge
Table extension 1,000 mm
Central blade gap adjustment via handwheel on left side of the machine
Automatic calculation of cutting angle
Motorized back gauge MAH - 52, adjustment range 10 - 1,000 mm via recirculated ball screws
Obligatory CE safety package: rear guarding via 3-beam light barrier incl. side protection grid
Note: Size 30/13: with motorized blade gap adjustment in standard version

Angle gauge adjustable 0-360° according to scale

Manual blade gap adjustment

Special equipment 528
Angle gauge, mounted on left side, with scale and seat for tipping gauge (Gauge dimension max. 1,000 mm or 1,500 mm or 2,000 mm or rather 3,000 mm incl. support
Tipping gauge for angle gauge (not in combination with standard angle gauge)
Table extension with scale and seat for tipping gauge: 1,000 mm / 1,500 mm or 2,000 mm from blade edge
Tipping gauge for table extension (not in combination with standard table extension)
Ball rollers of steel for table extensions mounted at an angle in front of the table extension (not in combination with standard table extension)
Ball rollers of steel for standard table
Electrical readout with flip gauge 1,000 mm or 1,500 mm
Table closed by filling piece in left lateral gauge area
Angle gauge adjustable 0-360° according to scale, with table extension 1,350 mm long (groove width 25 mm) and gauge rail 1,000 mm long 1,000 mm
Sheet support, pneumatically controlled up to max. 6 mm sheet thickness
Contact cutting device 2,040 mm = 4 contacts
Contact cutting device 3,040 mm = 4 contacts
Plastic shoes for hold-down device
Motorized blade gap adjustmen (from 13 mm inclusive)

Pneumatically controlled sheet support incl. sheet shute in active mode.

Pneumatically controlled sheet support incl. sheet shute in non-active mode.

Technical data	20/10	30/10	30/13
Working length (mm)	2,040	3,040	3,040
Sheet thickness (mm)	10.0	10.0	13.0
Stroke (l/min)	20-38	13-26	9-19
Cutting angle (°)	0.5-2.2	0.5-2.2	1-2.5
Motor drive (kW)	15	15	22
Weight (kg)	6,800	9,200	12,200
Length (mm)	2,735	3,735	3,756
Width (mm)	1,650	1,650	1,875
Width with gauge (mm)	2,625	2,625	2,700
Table height (mm)	900	900	950
Height (mm)	2,155	2,155	2,300

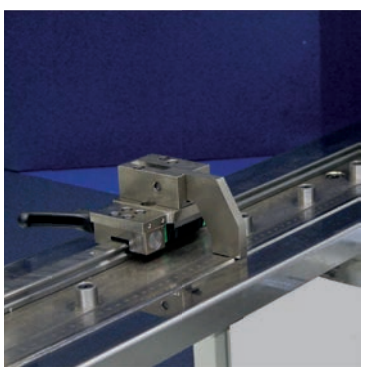
Hydraulic shear PowerShear

The hydraulic shear PowerShear is the industrial solution in order to cut loads of big sheets at high speed. The robust and yet precise machine is ideal for continuous operation in workshops, mid-sized companies and the industry.

The PowerShear Professional with energy-efficient drive ensures precise, burr-free and torsion-free cuttings..

The picture above shows the machine with the optional Professional-Package.

Lateral angle gauge 1000 mm with scale incl. flipping gauge on linear guide.



Sheet support, pneumatically controlled

The design of the extreme rigid machine body of the new PowerShear is based on decades of experience in industrial cutting. It was engineered with state of the art tools, using the finite elements method and computer simulations.

Thanks to an energy-efficient drive with a converter-controlled motor and a hydraulic pump, the machine is able to handle the most difficult cutting operations and materials. Besides single-cut operations also serial production is possible by using a converter-controlled motorized back gauge.

The advanced electronic control for programming cutting steps is operated via a touch display.

Rear view: Motorized back gauge and shear support as well as rear light barrier.

Moveable table extension
on linear guide

Sheet shute to the front

Standard equipment PowerShear
12" Touchscreen control PSC 150 on swivelling arm (possibility of saving on CF-card or USB flash drive)
Blades made for steel up to ca. 700 N/mm²
Energy-efficient drive with frequency-controlled drive and hydraulic pump
Automatic calculation of motorized blade gap adjustment
Automatic calculation of shear angle adjustment
Frequency controlled motorized back gauge 10 - 1000 mm
Pneumatic sheet support
LED-cutting edge illumination
Programmable start and end position of upper blade
1 x lateral angle gauge 1000 mm standard with scale, mounted on left side
2 x table extensions with T-Slot, 1000 mm with scale (3 x table extensions from working length 4040 mm)
Closed sheet support table with exchangeable stainless steel plates incl. ball rollers
Programming of cutting cycles
Protection of rear side by safety light barrier

Special equipment PowerShear
Professional-Package: Scrap and part separator to the front for strips up to max. 200 mm incl. „Return to Sender" Free passage of material (swing away back gauge rail) Back gauge with linear guide and recirculated ball screws
Spare blades for steel up to 700 N/mm²
Extended angle gauge with scale 1500 mm
Lateral angle gauge mounted on left side incl. mechanical tipping gauge on linear guide 1000 mm or 1500 mm
Angle gauge mounted on the left side incl. length measurement system and fine adjustment on linear guide 1000 mm or 1500 mm
Sheet support arm with T-slot and scale incl. ball rollers 1500 mm 1500 mm
2x 1000 mm table extensions 1000 mm incl. ball rollers, movable on guide rail
3x 1000 mm table extensions 1000 mm incl. ball rollers, movable on guide rail
Tsheet support arm with T-slot and scale incl. ball rollers 1500 mm movable on guide rail
Tipping gauge for insertion in T-slot
Plastic shoes for hold-down device
Programmable holding-down pressure
Moveable finger grid protection 1500 mm long with electrical safety switch
Scrap container front side 1000 mm width movable, 2 fixed and 2 steering castors (Only in combination with Professional-Package)

Technical data	3,000 x 6.0	4,000 x 6.0
Working length [mm]	3,040	4,040
Sheet thickness 400 N/mm² (700 N/mm²)	6.0 (4.0)	6.0 (4.0)
Shear angle adjustment [°]	0.5 - 1.8	0.5 - 1.8
Machine depth [mm]	3,090	3,090
Machine length [mm]	4,000	5,000
Machine height [mm]	1,969	1,969
Weight, ca. [kg]	6,500	8,400
Stoke [per min.]	24-61	20-56
Drive power [kW]	12.0	12.0

HS – the effort-saving manual shear

The exccentric shear HS will be used for nearly all cutting requirements. Ridge-free, distortion-free and nearly burr-free cuttings are the typical characteristics of this shear.

HS

Sheet shute on wheels with 4 steering castors, 2 lockable.

Manual back gauge with scale and handwheel adjustment [6] on the angle guides [5] for parallel and conical cuts.

Standard – Modell HS

Experience gathered over decades is reflected in the technology and design of this shear, which is capable of cutting almost any metal and non-metal materials. With the aid of new design techniques, we are able to offer a tried and tested product incorporating stateof-the-art technology

.

Telescope sheet shute incl. stacking function

Basic design

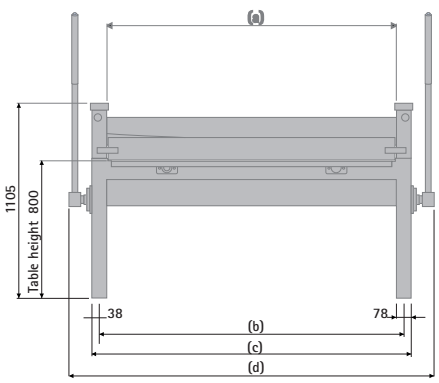
- Torsion-free rigid welded construction. Compact and well laid-out machine construction.
- Standard double-edged upper and lower blades of quality steel guarantee clean cuts without burrs for years to come.
- The low-friction overhead drive running in roller bearings ensures advantageous application of the levers.
- Flat cutting bar guides with robust and wearresistant special sliding cover.

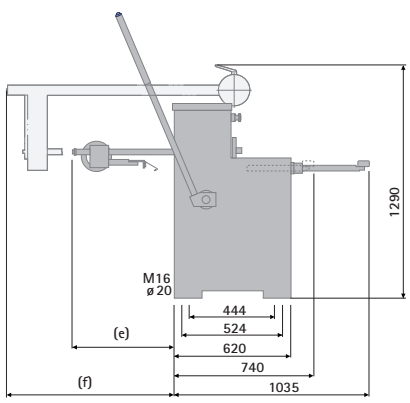
Standard equipment HS
Telescopic support table [1]
Angle gauge, left and right with inlaid scale [2]
Milled grooves every 10 mm along the table, parallel to the blades [3]
Hold-down device with hard rubber rail to protect polished sheets [4
Manual back gauge 500 mm [6]
All-steel blade, double-edged

6

Special equipment	
Back gauge	- Manual back gauge 750 mm - Manual back gauge 750 mm adjustable from the front with digital readout - Mechanical sheet support for manual back gauge 750 mm without sheet shute
Blades & Others	- Blades designed for stainless steel, instead of standard blades - Sheet shute to the front - Telescope sheet shute incl. stacking function - Sheet shute on wheels, 4 steering castors, 2 lockable (for cuttings up to max. 500 mm, up to max. 200 kg)

Dimensions: HS





Optional: Mechanical sheet support for manual back gauge 750 mm without sheet shute.

Optional: Manual back gauge 750 mm adjustable from the front with digital readout

Technical data	1,000 ×2.0	2,000 × 1.25	2,500 × 1.0	3,000 × 1.0
Work. length/Cutting length (a)	1,030 mm	2,030 mm	2,530 mm	3,030 mm
Sheet thickness 400 N/mm²	2.0 mm	1.25 mm	1.0 mm	1.0 mm
Cutting angle	4.0°	2.2°	1.8°	1.5°
Weight	485 kg	660 kg	775 kg	920 kg
Outer dimensions				
(b)	1,120 mm	2,120 mm	2,620 mm	3,120 mm
(c)	1,196 mm	2,196 mm	2,696 mm	3,196 mm
(d)	1,440 mm	2,440 mm	2,940 mm	3,440 mm
Machine width				
Back gauge, manual 500 mm (e)	540 mm			
Back gauge, manual 750 mm (e)	790 mm			
Back gauge, manual, adjustable from the front 750 mm (f)	860 mm			

Schröder Group

The Schröder Group consists of Hans Schröder Maschinenbau GmbH, which is located in Wessobrunn, Germany, SCHRÖDER-FASTI Technologie GmbH, located in Wermelskirchen, Germany and the SMU GmbH, located in Leinburg-Weißenbrunn.

Founded in 1949, Hans Schröder Maschinenbau GmbH unifies traditional and modern approaches in machine building: Successfully managed as a quality and customer-oriented, family-owned company, Hans Schröder Maschinenbau is specialized in the development of modern machine concepts for bending and cutting sheet metal.

The successful integration of the Fasti Company in 2006 and its worldwide presence make the Schröder Group one of today's leading providers of machines for bending, cutting, beading, flanging, and circular bending all types of sheet metal. The company's precision machines range from proven solutions for craftsmen to innovative, high-performance machines for automatic industrial production processes. 2021 the Schröder Group was expanded by the tool manufacturer SMU GmbH. Overall, the Schröder Group currently employs more than 300 people at various locations at home and abroad.

HSM 240318EN

Hans Schröder Maschinenbau GmbH
Feuchten 2 | 82405 Wessobrunn-Forst | Germany
T +49 8809 9220-0 | F +49 8809 9220-700
E info@schroedergroup.eu
www.schroedergroup.eu

Follow us on Instagram:
www.instagram.com/schroedergroup/

Follow us on Facebook:
www.facebook.com/schroedermaschinenbau/

Follow us on YouTube:
www.youtube.com/user/SchroederGroup

SCHRÖDER GROUP