

Bending machines manufacturer!



www.strojegradnja-sas.si

UK

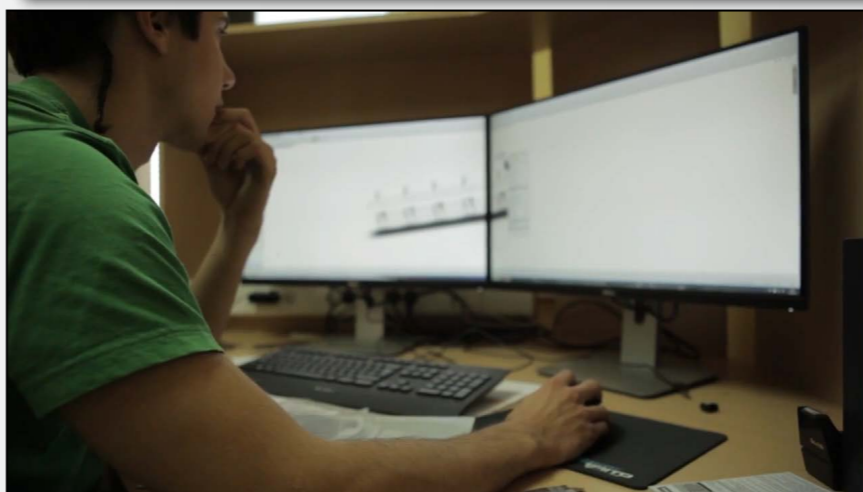
About us

Strojgradnja SAS - a qualitative and reliable manufacturer of hydraulic bending machines, following development trends and customers' needs.

We are a family run business, specialising in the development, production and selling of machines for bending, cutting and storing sheet metal. With our knowledge, experience and tradition we manufacture machines, which facilitate work and contribute to greater productivity in production plants. By fast dynamics of axis motion, graphic design and the possibility of remote controlling and programming, our newest products draw nearer to trends of **Industry 4.0**.

30 years of operation

More then 30 years of operation Strojgradnja SAS proved itself as one of the biggest European manufacturers of machines for bending sheet metal thinner than 2 mm. In 2022 we manufactured the **700th hydraulic machine** at our plant and thus strengthened our position in the market and proved ourselves as a qualitative and reliable manufacturer of hydraulic bending machines.



BENDING MACHINES

Hydraulic bending machines are the topmost machines for cutting and bending sheet metal. With their own technology they are designed for fast, precise and technically perfected production of your products. We offer three options of our basic series of machines: ***Profi***, ***Normal*** and ***Easy***.

Profi

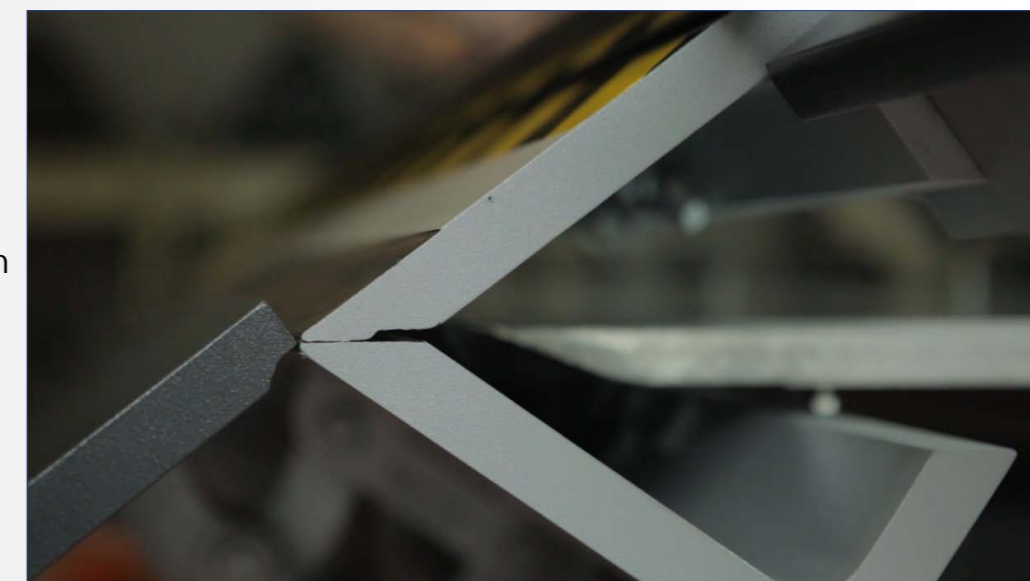
- intended for demanding users
- with automatic scissors and an operating depth of 1.150 mm
- option of CNC, Cs, Pf and E software

Normal

- with automatic scissors and operating depth of 1.050 mm
- with software Pf

Easy

- favourable variation of the bending machine
- option of automatic or manual roller shears,
- operating depth of 1.050 mm
- with software E



HKS-CNC Profi

Hydraulic bending machines HKS-CNC Profi are equipped with [automatic scissors](#) and [a movable mass for moving sheet metal](#). The closing pressure of the upper clamp can be adjusted according to the sheet metal thickness. The [CNC software](#) enables the graphic design of profiles of various forms and sizes. The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.



The machines can be equipped with a system for automatic adjustment of the sheet thickness, which increases the bending thickness of the sheet to 1.25 mm steel and 2.0 mm aluminium.

CNC Computer



A 21,5-inch industrial LCD touch-screen makes the programming even more manageable. New shapes of profiles can be programmed by simply entering dimensions and geometry. A profile library enables easy looking up of the saved profiles.

Profi console arms

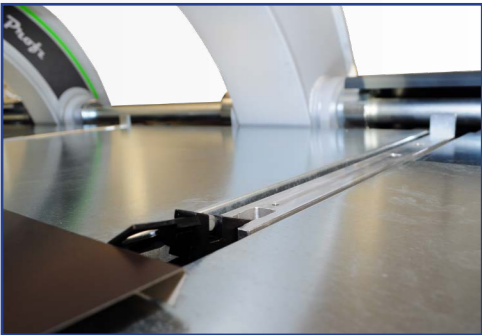


The Profi console arms are welded and they transfer movement from hydraulic cylinders to the upper clamp, which clamps the sheet metal in place during bending and cutting. [Roller shears](#) are driven with a hydraulic motor through a steel wire.

Roller sheras



Backgauge system

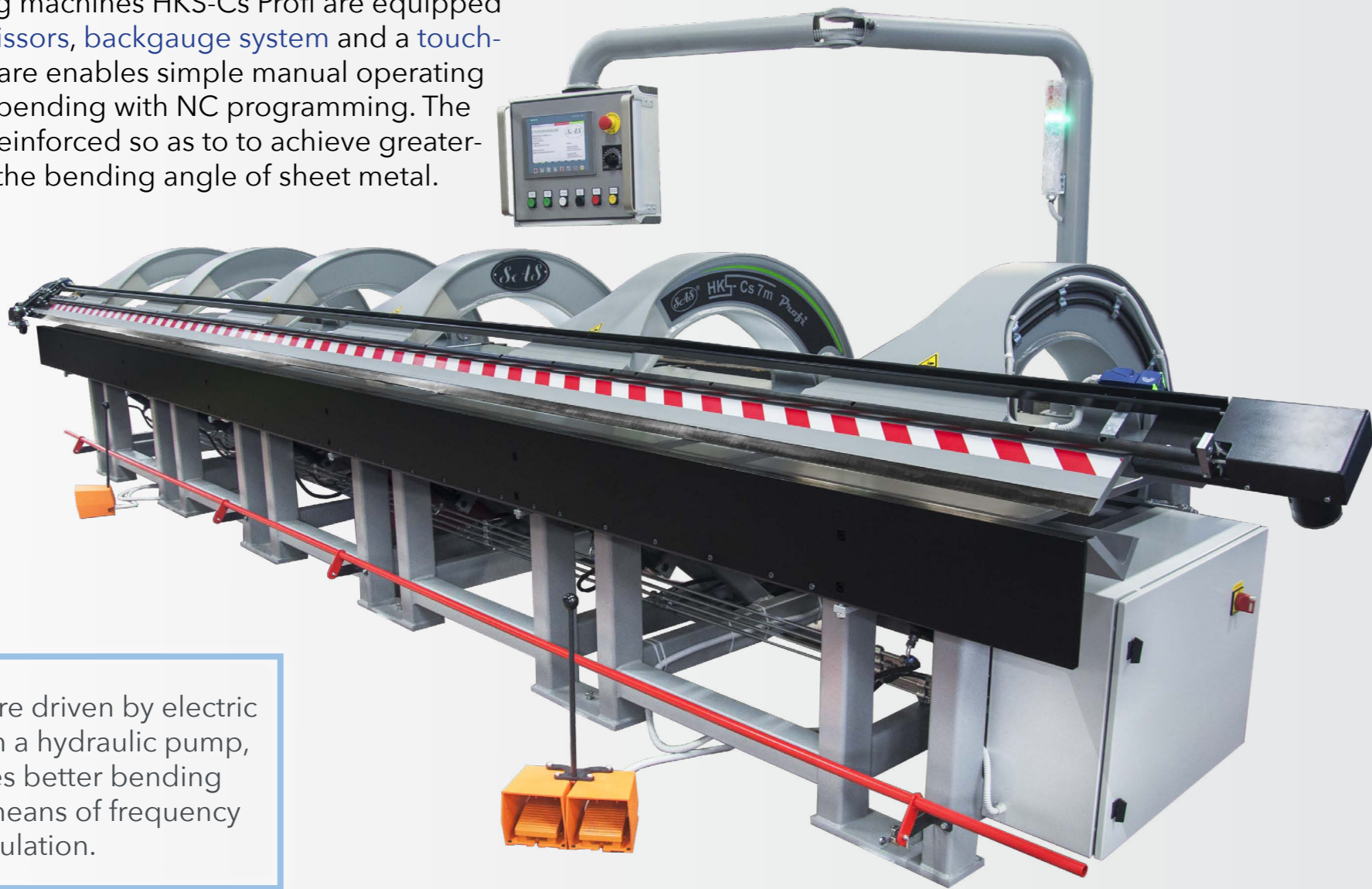


The system of sheet metal [movement](#) is [electrically](#) driven by front fingers and back support for sheet metal. The position of a backgauge system is measured by a measuring rod. The displacement range of the backgauge system is from 25 mm - 1.150 mm.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.300 mm	8.100 mm	7.200 mm	6.100 mm	5.100 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.150 mm	1.150 mm	1.150 mm	1.150 mm	1.150 mm
Sheet metal thickness	Al 1,5 mm, Steel (400 N/mm²) 1,25 mm	Al 1,5 mm, Steel (400 N/mm²) 1,25 mm	Al 1,5 mm, Steel (400 N/mm²) 1,25 mm	Al 1,5 mm, Steel (400 N/mm²) 1,25 mm	Al 1,5 mm, Steel (400 N/mm²) 1,25 mm
Weight	4.400 kg	4.000 kg	3.600 kg	3.100 kg	2.500 kg
Number of arms	8	7	6	5	4
Power of electric motor	5,5 kW	5,5 kW	4 kW	3 kW	2,2 kW

HKS-Cs Profi

Hydraulic bending machines HKS-Cs Profi are equipped with automatic scissors, backgauge system and a touch-screen. Cs software enables simple manual operating and automatic bending with NC programming. The bending bar is reinforced so as to to achieve greater-precision of the bending angle of sheet metal.

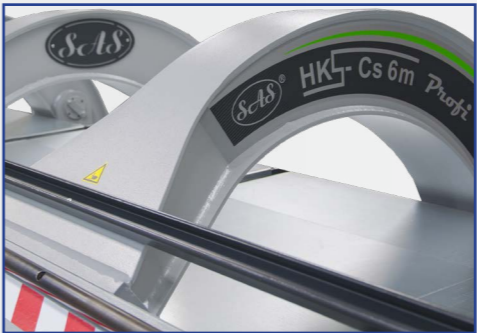


The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.

Cs Computer



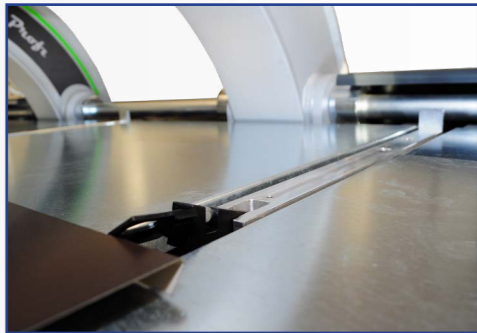
Profi console arms



Roller shears



Backgauge system



A computer with a selection of automatic or manual mode, with very simple NC programming and a touch-screen. In the automatic programming mode, up to 300 different programmes can be saved, which can include up to 50 steps.

All the HKS-Cs Profi machines are equipped with Profi console arms. They are stronger, wider, and enable an operating depth of 1.150 mm. Roller shears are driven by a hydraulic motor through a steel wire.

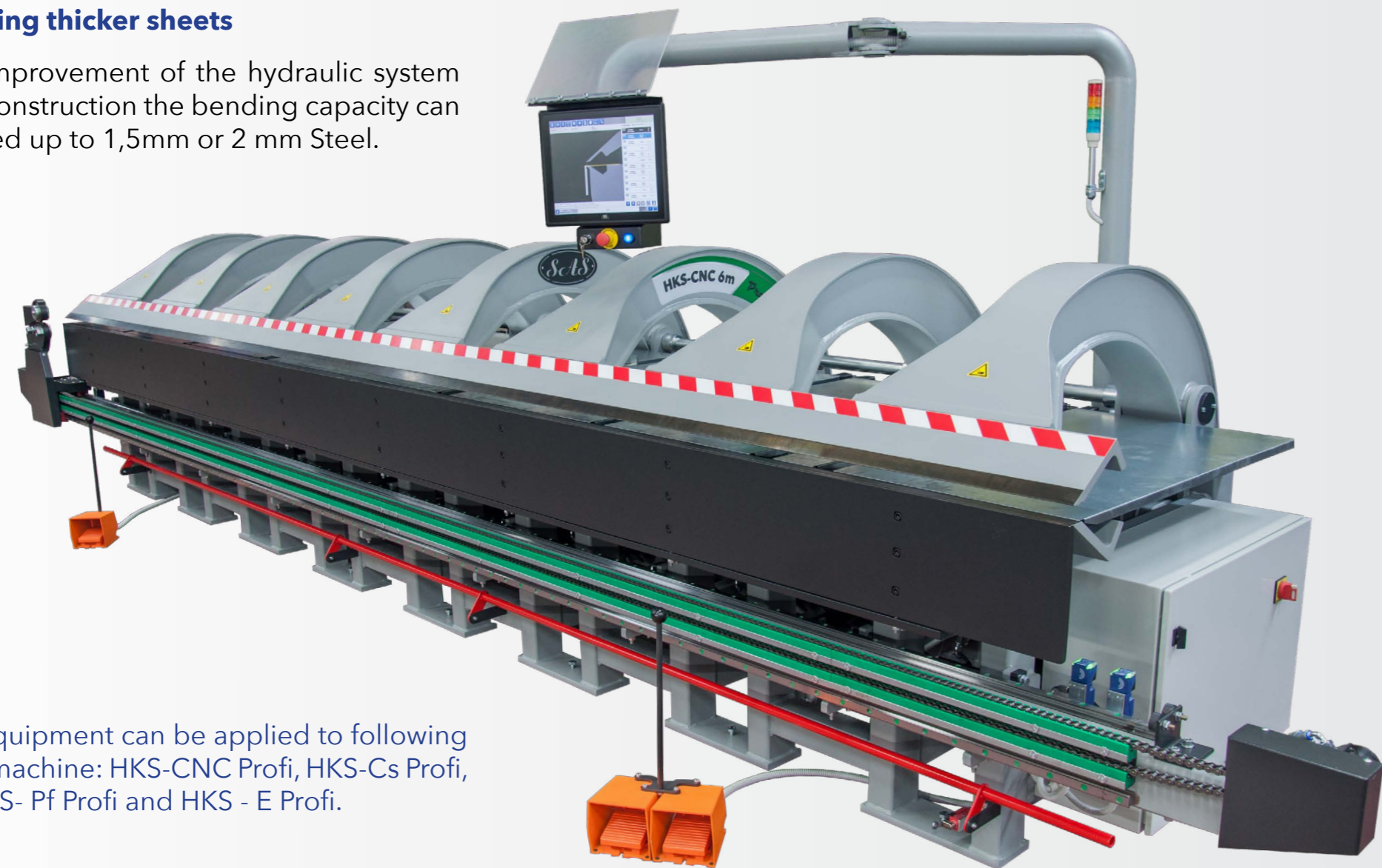
The system of sheet metal movement is electrically driven by front fingers and back support for sheet metal. The position of a backgauge system is measured by a measuring rod. The displacement range of the backgauge system is from 25 mm - 1.150 mm.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.150 mm	1.150 mm	1.150 mm	1.150 mm	1.150 mm
Sheet metal thickness	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm
Weight	4.100 kg	3.600 kg	3.100 kg	2.600 kg	2.400 kg
Number of arms	7	6	5	4	4
Power of electric motor	5,5 kW	4 kW	3 kW	2,2 kW	2,2 kW

Additional equipment

For bending thicker sheets

With the improvement of the hydraulic system and base construction the bending capacity can be increased up to 1,5mm or 2 mm Steel.



Additional equipment can be applied to following types of the machine: HKS-CNC Profi, HKS-Cs Profi, HKS- Pf Profi and HKS - E Profi.

Additional equipment

Motor driven shears on the lower part of the machine



Motor driven shears on the lower part of the machine increase the bending space in the upper part of the machine. Motor driven shears run on linear guides and cuts sheet metal that is thick 1.25mm Steel and 2,0mm Al. The cutting thickness increases with chain drive - 2mm Steel and 3mm Al.

Extended range of the backgauge system



The range of the backgauge system can be increased to 15 mm - 1.150 mm by making grooves in the beam.

LED lighting



LED lighting inside the machine improves visibility in the working area of the machine.

Machine cover



Machine cover acts as a protection and reduces the entry of small dust particles into the interior of the machine.

HKS-Pf Profi

Hydraulic bending machines HKS-Pf Profi are equipped with automatic scissors and a 5.7-inch touch-screen. Pf software enables simple manual operating and automatic bending with easy programming. With a memory of up to 100 programmes, the machine can satisfy the needs of tinsmiths. The bending bar is reinforced so as to achieve greater precision of the bending angle of sheet metal.



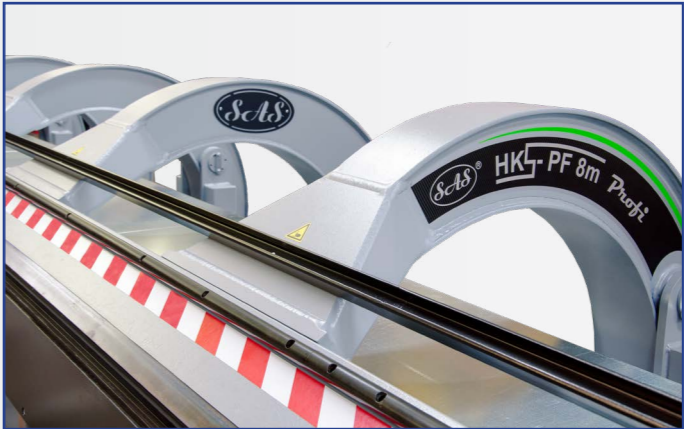
The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.

Pf Computer



A computer with a selection of manual or automatic operation mode, with very easy programming and a touch-screen. In the automatic mode, up to 100 different programmes can be saved.

Profi console arms



All the HKS-Pf Profi machines are equipped with Profi console arms. They are stronger, wider, and enable an operating depth of 1.150 mm.

Roller shears

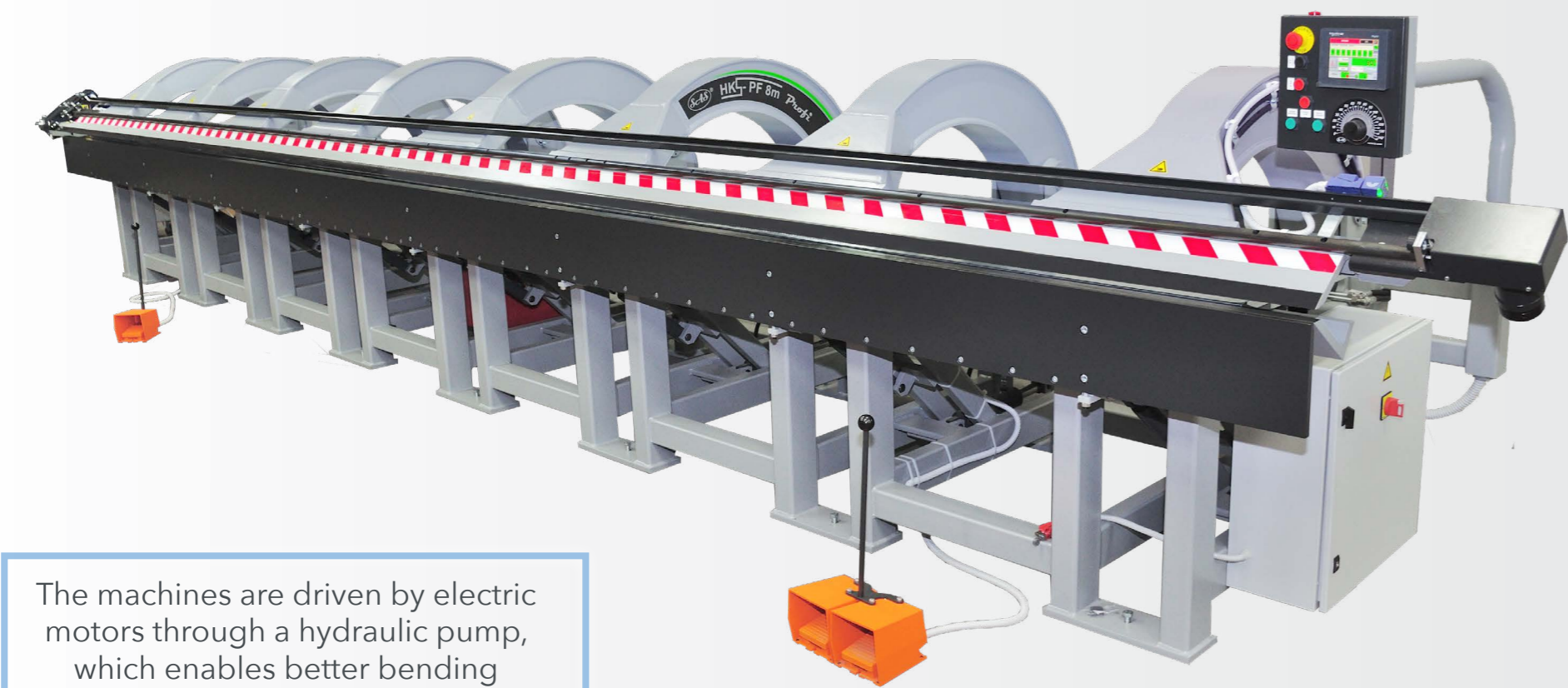


Roller shears driven by a hydraulic motor through a steel wire.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.150 mm	1.150 mm	1.150 mm	1.150 mm	1.150 mm
Sheet metal thickness	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm
Weight	3.800 kg	3.300 kg	2.800 kg	2.400 kg	2.200 kg
Number of arms	7	6	5	4	4
Power of electric motor	5,5 kW	4 kW	3 kW	2,2 kW	2,2 kW

HKS-E Profi

Hydraulic bending machines HKS-E Profi are equipped with automatic scissors and a 5-inch touch-screen. E software enables simple manual controlling and automatic bending with easy programming. With a memory of up to 40 programmes, the machine satisfies the needs of tin-smiths. The bending bar is reinforced so as to achieve greater precision of the bending angle of sheet metal.



The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.

E Computer



Profi console arms



Roller shears



A computer with a selection of manual or automatic operation mode, with very easy programming and a touch-screen. In the automatic mode, up to 40 different programmes can be saved.

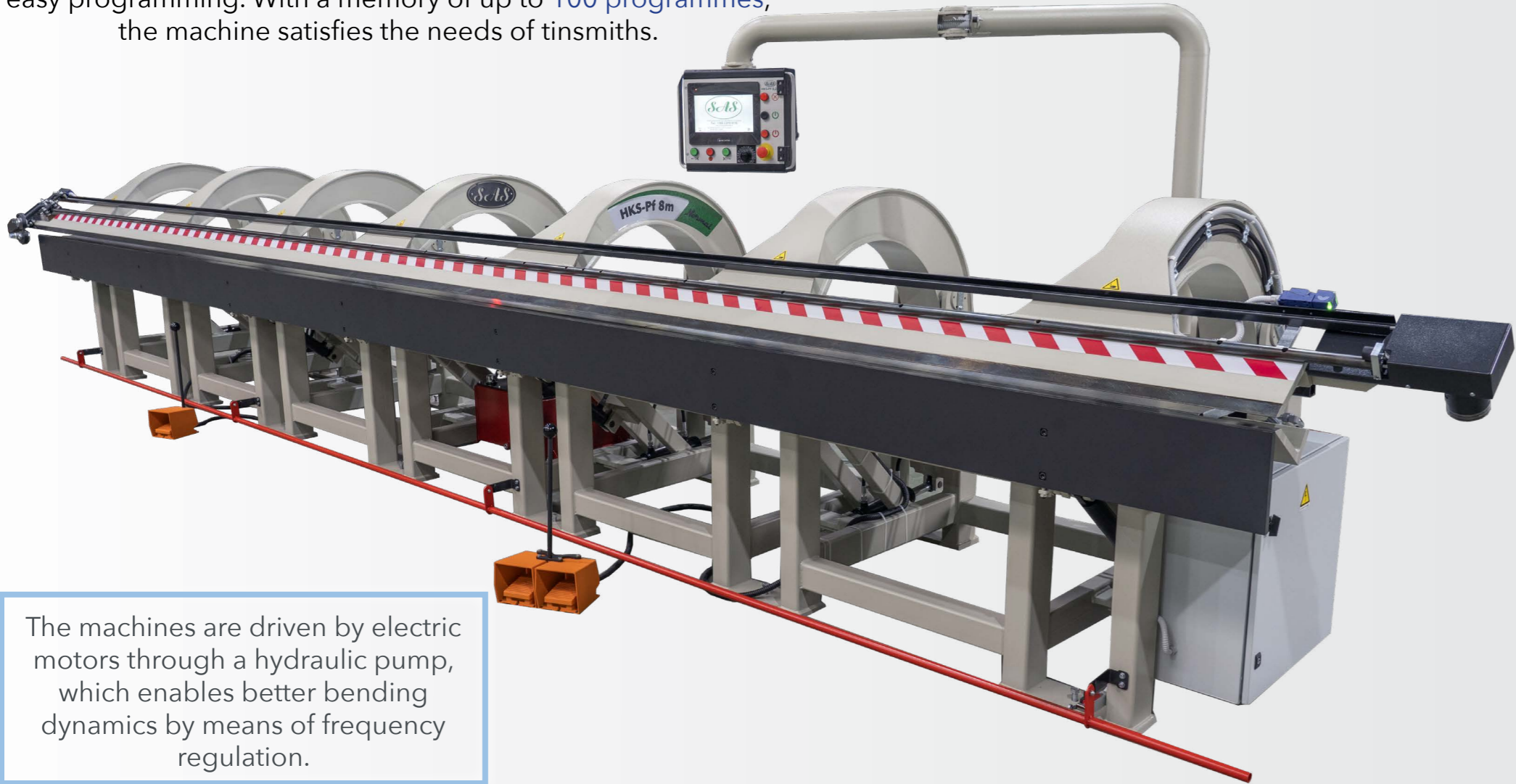
All the HKS-E Profi machines are equipped with Profi console arms. They are stronger, wider, and enable an operating depth of 1.150 mm.

Roller shears driven by a hydraulic motor through a steel wire.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.150 mm	1.150 mm	1.150 mm	1.150 mm	1.150 mm
Sheet metal thickness	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm	Al 1,5 mm, Steel (400 N/mm²) 1,00 mm
Weight	3.750 kg	3.250 kg	2.750 kg	2.350 kg	2.150 kg
Number of arms	7	6	5	4	4
Power of electric motor	5,5 kW	4 kW	3 kW	2,2 kW	2,2 kW

HKS-Pf *Normal*

Hydraulic bending machines HKS-Pf Normal are equipped with automatic scissors and a 5.7-inch touch-screen. Pf software enables simple manual controlling and automatic bending with easy programming. With a memory of up to 100 programmes, the machine satisfies the needs of tinsmiths.



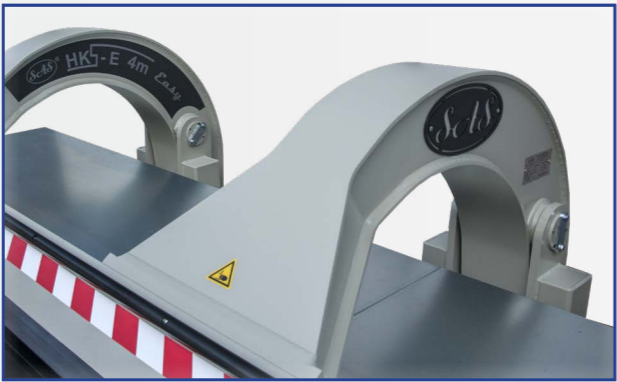
The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.

Pf Computer



A computer with a selection of manual or automatic operation mode, with very easy programming and a touch-screen. In the automatic mode, up to 100 different programmes can be saved.

Console arms



All the HKS-Pf machines are equipped with console arms, enabling an operating depth of 1.050 mm.

Roller shears

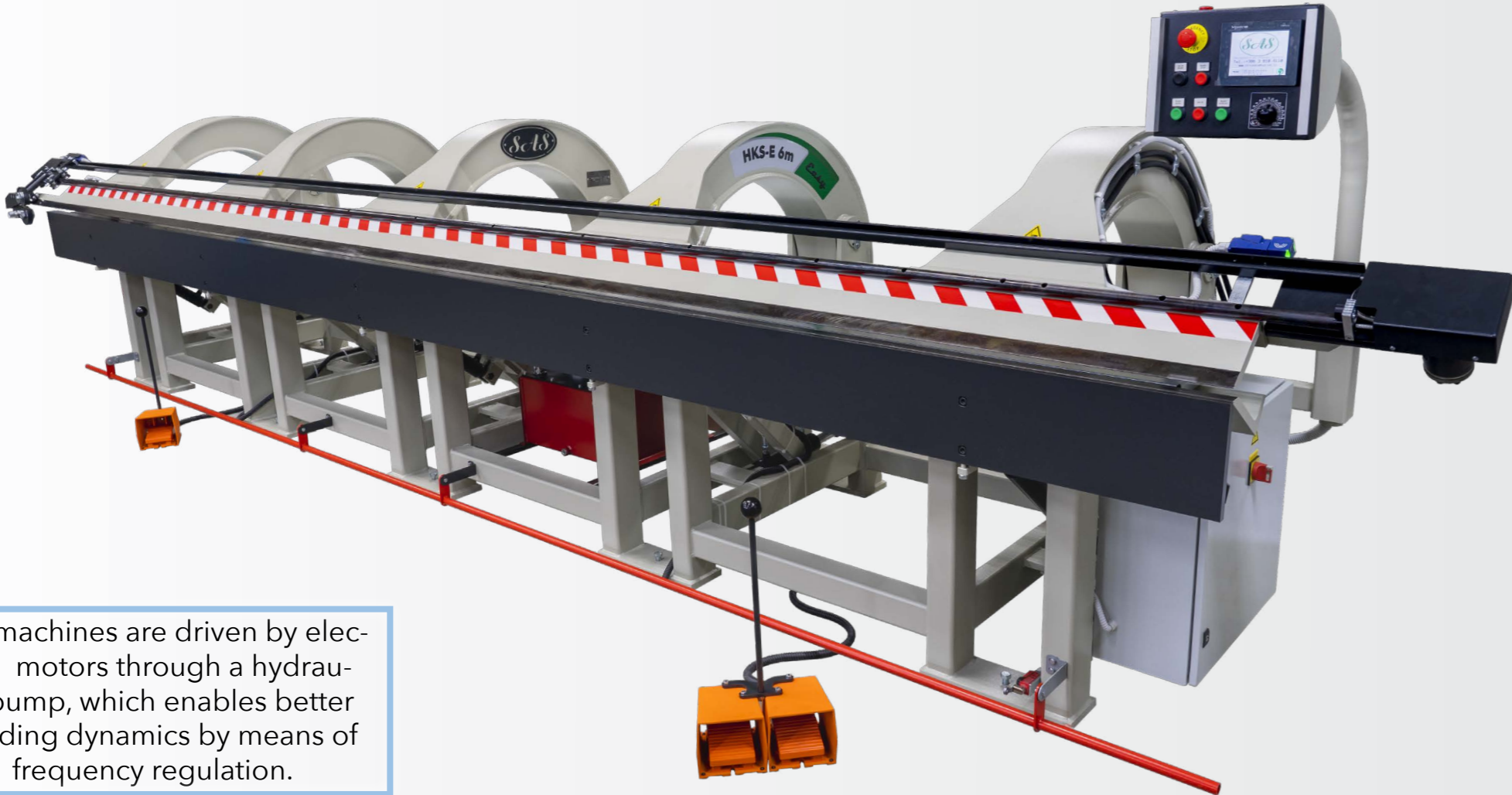


Roller shears driven by a hydraulic motor through a steel wire.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.050 mm	1.050 mm	1.050 mm	1.050 mm	1.050 mm
Sheet metal thickness	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm
Weight	3.400 kg	3.000 kg	2.600 kg	2.200 kg	2.050 kg
Number of arms	7	6	5	4	4
Power of electric motor	5,5 kW	4 kW	3 kW	2,2 kW	2,2 kW

HKS-E Easy

Hydraulic bending machines HKS-E Easy are equipped with automatic scissors and a 5-inch touch-screen. E software enables simple manual controlling and automatic bending with easy programming. With a memory of up to 40 programmes, the machine satisfies the needs of tinsmiths.



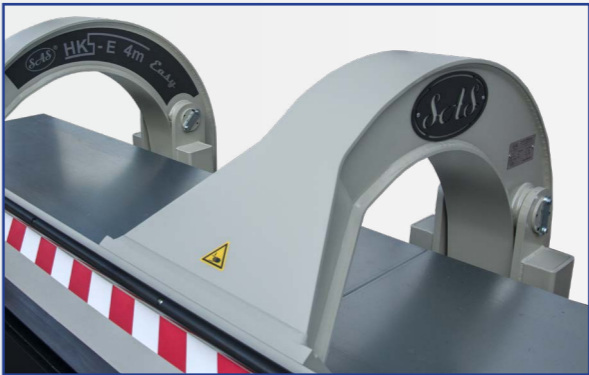
The machines are driven by electric motors through a hydraulic pump, which enables better bending dynamics by means of frequency regulation.

E Computer



A computer with a selection of manual or automatic operation mode, with very easy programming and a touch-screen. In the automatic mode, up to 40 different programmes can be saved.

Console arms



All the HKS-E machines are equipped with console arms, enabling an operating depth of 1.050 mm.

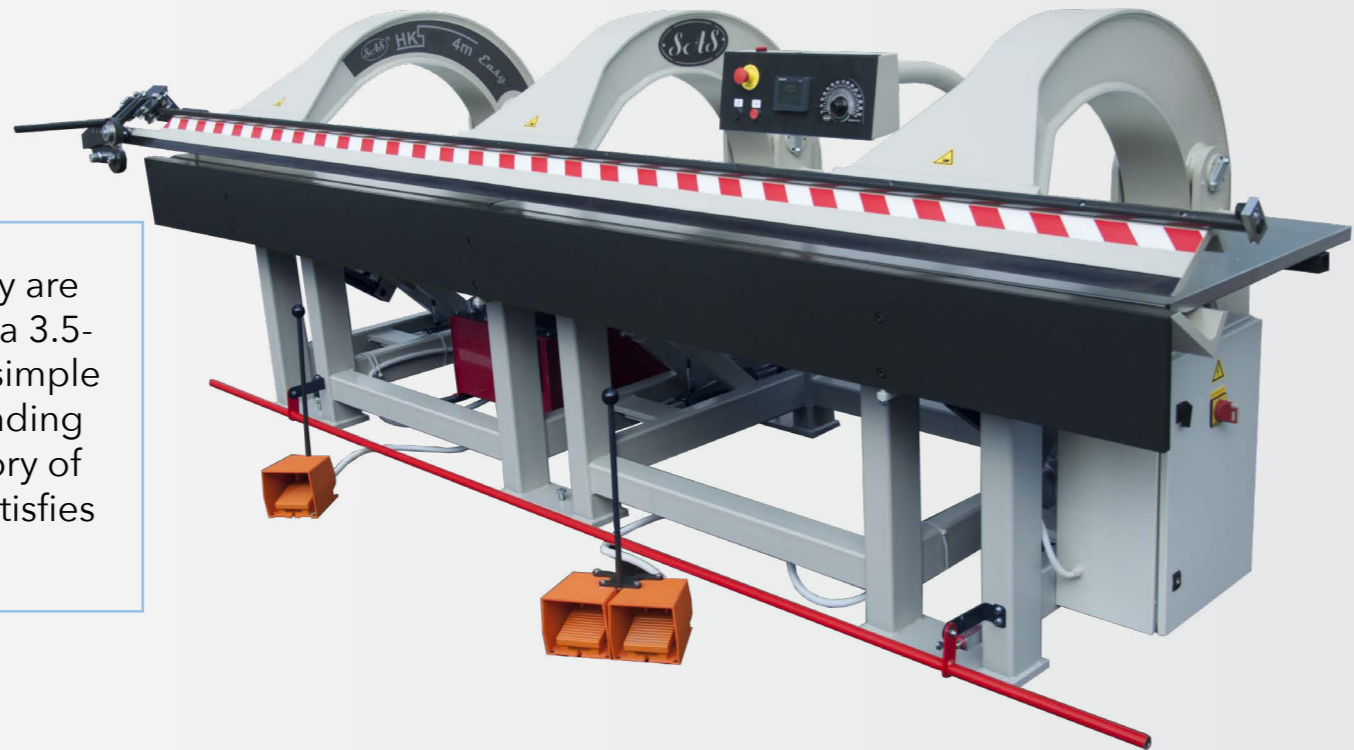
Roller shears



Roller shears driven by a hydraulic motor through a steel wire.

TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.050 mm	1.050 mm	1.050 mm	1.050 mm	1.050 mm
Sheet metal thickness	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm	Al 1,2 mm, Steel (400 N/mm²) 1,0 mm
Weight	3.300 kg	2.900 kg	2.500 kg	2.150 kg	2.000 kg
Number of arms	7	6	5	4	4
Power of electric motor	4 kW	3 kW	2,2 kW	2,2 kW	2,2 kW

Hydraulic bending machines HKS Easy are equipped with automatic scissors and a 3.5-inch touch-screen. E software enables simple manual controlling and automatic bending with easy programming. With a memory of up to 40 programmes, the machine satisfies the basic needs of tinsmiths.



TECHNICAL DATA					
Working length	8.200 mm	7.000 mm	6.100 mm	5.000 mm	4.000 mm
Length of machine	9.100 mm	7.900 mm	7.000 mm	5.900 mm	4.900 mm
Bending angle	145°	145°	145°	145°	145°
Working width	1.050 mm	1.050 mm	1.050 mm	1.050 mm	1.050 mm
Sheet metal thickness	Al 1,0 mm, Steel (400 N/mm²) 0,8 mm	Al 1,0 mm, Steel (400 N/mm²) 0,8 mm	Al 1,0 mm, Steel (400 N/mm²) 0,8 mm	Al 1,0 mm, Steel (400 N/mm²) 0,8 mm	Al 1,0mm, Steel (400 N/mm²) 0,8 mm
Weight	3.200 kg	2.800 kg	2.400kg	2.000 kg	1.600 kg
Number of arms	7	6	5	4	3
Power of electric motor	4 kW	3 kW	2,2 kW	2,2 kW	1,5 kW

Manual bending machines RKS 1350 and RKS 2030 with manual scissors and bending angle measurement.



Manual bending machines

RKS 1350

TECHNICAL DATA - RKS 1350	
Working length	1.350 mm
Bending angle	150°
Sheet metal thickness	Al 1,0 mm, Steel (400 N/mm²) 0,8 mm
Length of machine	1.920 mm
Weight	100 kg

RKS 2030

TECHNICAL DATA - RKS 2030	
Working length	2.030 mm
Bending angle	150°
Sheet metal thickness	Al 0,8 mm, Steel (400 N/mm²) 0,7 mm
Length of machine	2.590 mm
Weight	180 kg

WAREHOUSING

Our offer of warehousing consists of **single, double band** and **console decoilers** and **rollers** for sheet metal. All the decoilers are equipped with an adjustable disc break and a handle for spinning the mandrel. The handle is meant for easy fastening and unfastening of the mandrel.

RAZ-END 1250/4



RAZ-END 1250/3



RAZ-END 1250/2



	RAZ-END 1250/4	RAZ-END 1250/3	RAZ-END 1250/2
Gewicht	160 kg	150 kg	130 kg
Arbeitsbreite	1.250 mm	1.250 mm	1.250 mm
Innen Φ	480 - 530 mm	480 - 530 mm	480 - 530 mm
Tragfähigkeit	4.000 kg	3.000 kg	2.000 kg

	RAZ-END 1000	RAZ-END 1500
Gewicht	110 kg	180 kg
Arbeitsbreite	1.000 mm	1.500 mm
Innen Φ	480 - 530 mm	480 - 530 mm
Tragfähigkeit	2.000 kg	2.000 kg

DECOILERS

OD-L 1250/1



OD-LO 1250/1



OD-LK 1250/1



	OD-L 1250/1	OD-LO 1250/1	OD-LK 1250/1
Gewicht	110 kg	110 kg	120 kg
Arbeitsbreite	1.250 mm	1.250 mm	1.250 mm
Innen Φ	280 - 520 mm	280 - 520 mm	280 - 520 mm
Tragfähigkeit	1.000 kg	1.000 kg	1.000 kg

DECOILERS

RAZ-ENO 1250



RAZ-R 1250



RAZ-ENK R 1000



RAZ-ENO 1250			
Weight	170 kg	160 kg	140 kg
Working width	1.250 mm	1.250 mm	1.250 mm
Inner Φ	480 - 530 mm	480 - 530 mm	480 - 530 mm
Load capacity	4.000 kg	3.000 kg	2.000 kg

RAZ-R 1250	
Weight	160 kg
Working width	1.250 mm
Inner Φ	480-530 mm
Load capacity	2.000 kg

RAZ-ENK R 1000	
Weight	130 kg
Working width	1.000 mm
Inner Φ	480 - 530 mm
Load capacity	1.000 kg

DECOILERS

RAZ-EN 500



RAZ-ENK 1000



RAZ-ENK 500



RAZ-EN 500 RAZ-EN 800		
Weight	100 kg	120 kg
Working width	500 mm	800 mm
Inner Φ	480 - 530 mm	480 - 530 mm
Load capacity	2.000 kg	2.000 kg

RAZ-ENK 1000	
Weight	130 kg
Working width	1.000 mm
Inner Φ	480 - 530 mm
Load capacity	1.000 kg

RAZ-ENK 500	
Weight	115 kg
Working width	500 mm
Inner Φ	480 - 530 mm
Load capacity	1.500 kg

DECOILERS



RAZ-DV 1250



	RAZ-DV 1250/4	RAZ-DV 1250/3	RAZ-DV 1250/2	RAZ-DV 500
Weight	350 kg	330 kg	310 kg	230 kg
Working width	1.250 mm	1.250 mm	1.250 mm	500 mm
Inner Φ	480 - 530 mm	480 - 530 mm	480 - 530 mm	480 - 530 mm
Lower loading capacity	4.000 kg	3.000 kg	2.000 kg	2.000 kg
Upper loading capacity	3.000 kg	3.000 kg	2.000 kg	2.000 kg

ROL



ROL-O



ROL-R



	ROL	ROL-R 1250	ROL-R 1000	ROL-O
Weight	40 kg	75 kg	65 kg	70 kg
Working width	1.250 mm	1.250 mm	1.000 mm	1.250 mm
Loading capacity	2.000 kg	1.000 kg	1.000 kg	2.000 kg

DECOILERS

RUN



RUN	
Weight	15 kg
Working width	1.250 mm
Loading capacity	100 kg

DECOILERS

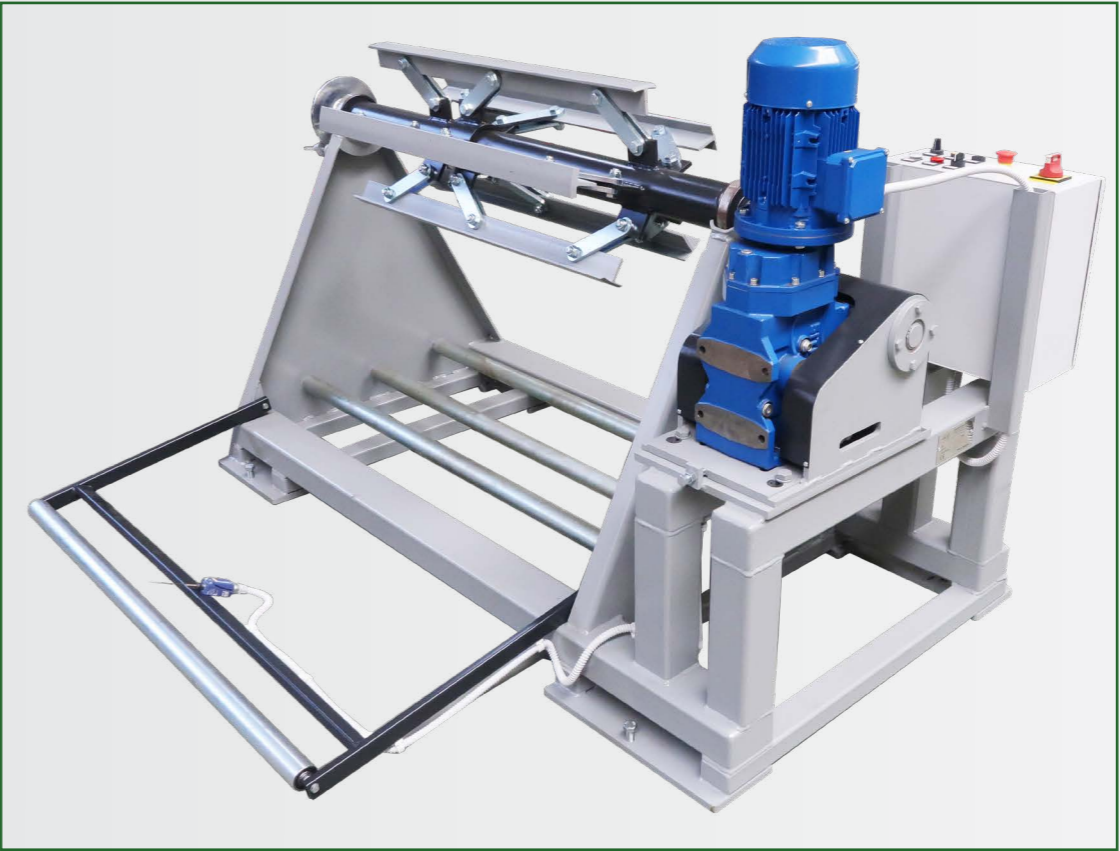
Machines for **sheet metal winding** from bigger to smaller coils of inner diameter of 300 mm and biggest mass of 300 kg. The winder has an integrated manual counter, shears for transversal cutting and a probe for removing the winded sheet metal.

NAV-RO 1250



NAV-RO 1250	
Weight	350 kg
Working width	1.250 mm
Loading capacity	300 kg
Counter for length measurement	

RAZ-MV 1250



	RAZ-MV 500	RAZ-MV 1250
Weight	650 kg	750 kg
Working width	500 mm	1.250 mm
Load capacity	4.000 kg	4.000 kg
Power of electric motor	1,5 kW	1,5 kW

DECOILERS

RAZ-MV 500

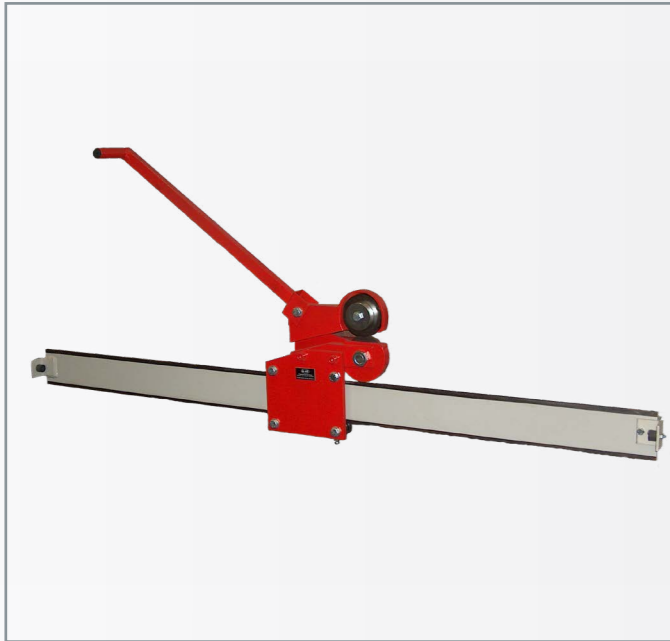


CUTTING

Devices and machines for **sheet metal cutting** are intended for sheet metal cutting in transversal and longitudinal directions.

SKA-PR

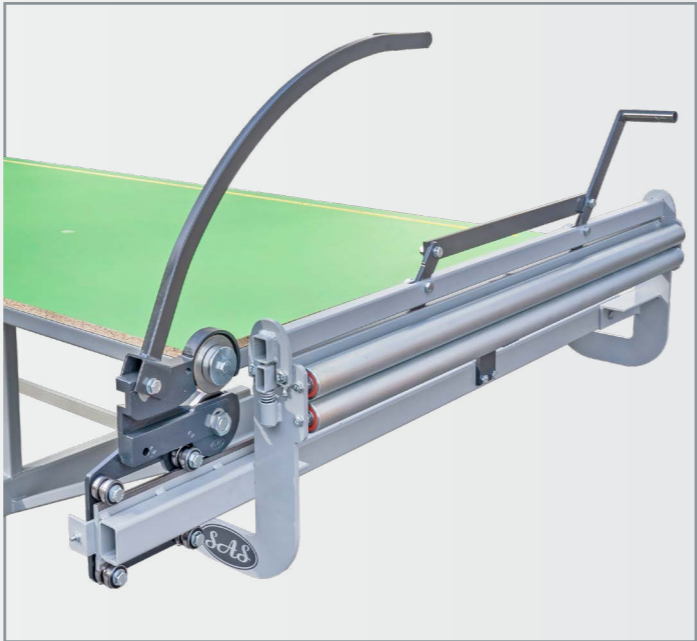
Shears for transversal cutting of sheet metal for the table, width 1.250 mm



SKA-PR	
Weight	30 kg
Working width	1.250 mm

SKA-DR

Shears for transversal cutting of sheet metal with holder, width 1.250 mm



SKA-DR	
Weight	70 kg
Working width	1.250 mm
Sheet metal thickness	0,8 mm

CUTTING

Miza

Cutting tables are equipped with **manual shears**, sheet metal holder and sheet length measurement.



MIZA				
Working length	8.000 mm	7.000 mm	6.000 mm	5.000 mm
Working width	1.250 mm	1.250 mm	1.250 mm	1.250 mm
Sheet metal thickness	0,8 mm	0,8 mm	0,8 mm	0,8 mm
Cutting table on wheels, with shears for sheet metal cutting in transversal direction.				

SLITTING

Ferro-Rez

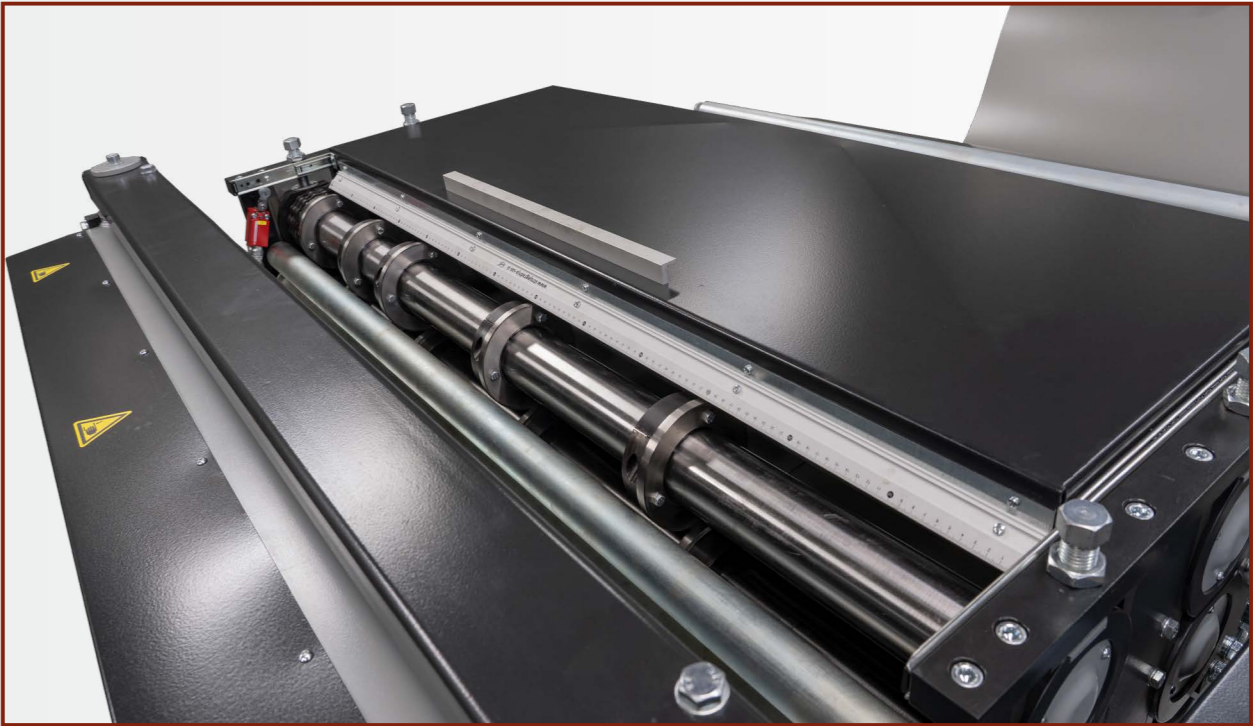
Slitting machine **Ferro-Rez** cuts maximum 1.250 mm width sheet metal. Machines are made for faster and easier sheet metal cutting in longitudinal and transversal direction, suitable for roofing companies. Slitting machine is equipped with **measuring system** and **Touch-screen panel**. This enables easy automatic and manual work. In automatic mode several sheet metal length and number of pieces can be adjusted. With help of **frequency regulator** sheet metal speed is adjustable.



Slitting machine is made of:

- Insert table with adjustable back gauge.
- Rubber rollers for moving sheet metal.
- 3 pairs of roller blades, maximal number of roller blades is 5.
- Automatic guillotine shears.

Ferro-Rez	
Weight	1.000 kg
Working width	1.250 mm
Sheet metal thickness	1,0mm
Number of blades	3 pc
Voltage	380 V
Power	3 kW
Fuses	16 A



SLITTING



ADDITION EQUIPMENT

Straightening, slitting and cut to lenght Ferro-Rez

Consist of:

- Straightening unit – manually adjustable straightener with 6 shafts,
- Manual cutting shaft activation in vertical position (reduce the waste),
- Folia system,
- Monitor on console (right or left side).



Ferro-Rez	
Weight	1.400 kg
Working width	1.250 mm
Sheet metal thickness	1,0mm
Number of blades	3 pc
Voltage	380 V
Power	3 kW
Fuses	16 A

TOOLS

SIR - tube expanders are intended for expanding tubes (of diameters 60, 80, 100 and 120 mm), are at an affordable price and also very useful.

Tube expander



SIR



SIR 60, 80, 100, 120	
Tube diameter	Ø 60 mm Ø 80 mm Ø 100 mm Ø 120 mm

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