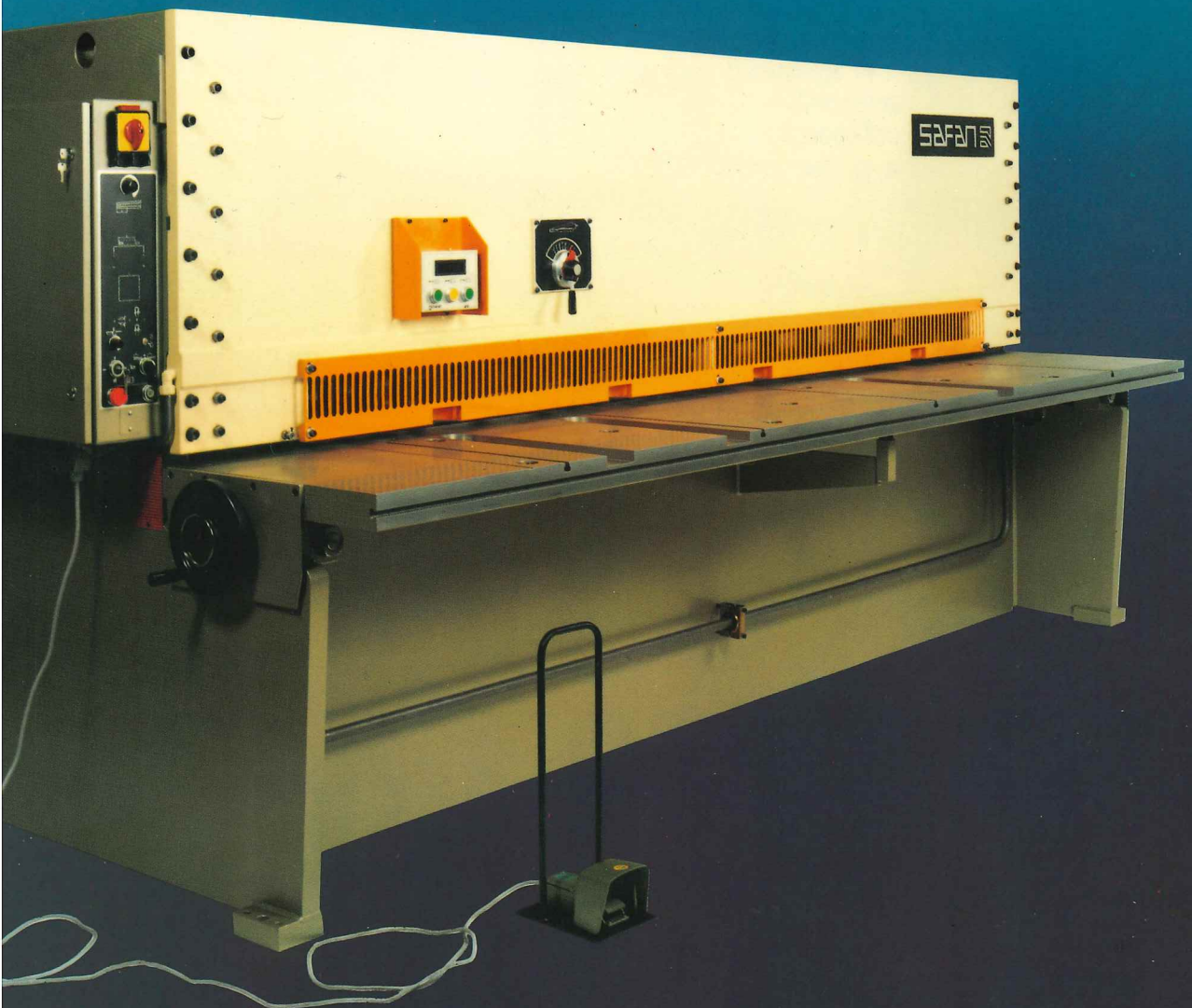
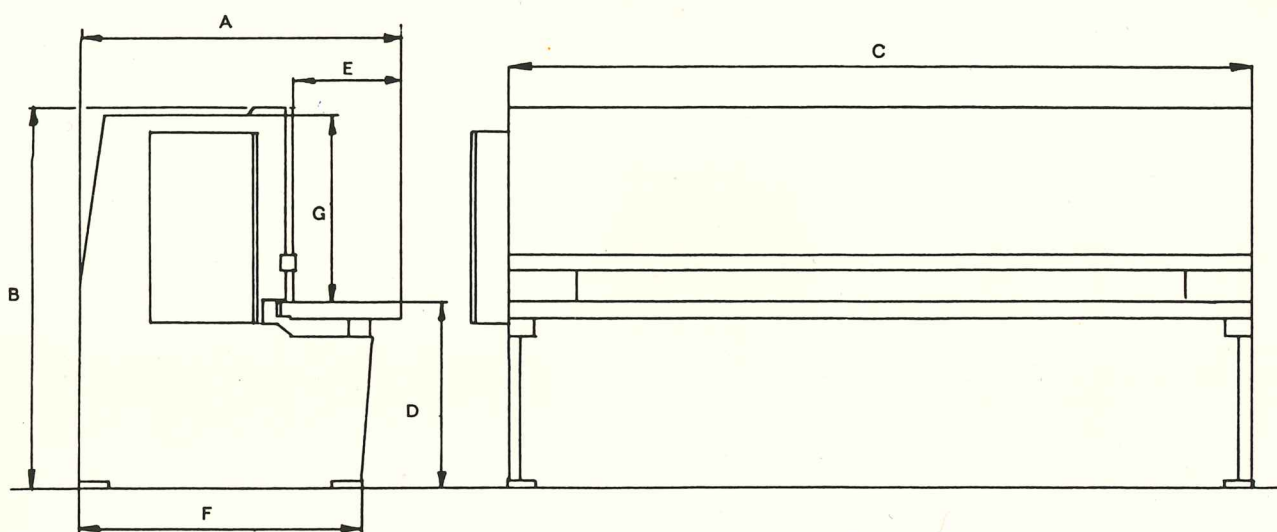


# HVS guillotine shear





Type	Capacity in mm, St. 40kN/cm <sup>2</sup>	Working length in mm	Power requirements in kW	* No of strokes/min., regulable	Cutting angle in degrees min./max.	Nominal cutting angle in degrees	Backgauge reach in mm	No of sheet hold-downs	Total max. hold down force in kN	Nett weight in Kg	"A" dimension in mm	"B" dimension in mm	"C" dimension in mm	"D" dimension in mm	"E" dimension in mm	"F" dimension in m	"G" dimension in mm
HVS 430/8	8	4300	18,5	10	0,5/3	2	1200	21	230	14.900	1800	2180	5120	970	680	1465	1110
HVS 410/10	10	4100	18,5	10	0,5/3	2	1200	20	228	13.500	1800	2180	4920	970	680	1465	1110
HVS 205/10-13	10** -13	2050	18,5	16	0,5/3	2	1200	11	132	8.800	1650	1980	2870	970	580	1440	1110
HVS 255/10-13	10** -13	2550	18,5	14	0,5/3	2	1200	13	156	9.800	1650	1980	3370	970	580	1440	1110
HVS 310/10-13	10** -13	3100	18,5	12	0,5/3	2	1200	15	180	10.800	1650	1980	3920	970	580	1440	1110
HVS 205/13-16	13** -16	2050	18,5	14	0,5/4	3	1200	11	165	8.800	1650	1980	2870	970	580	1440	1110
HVS 255/13-16	13** -16	2550	18,5	12	0,5/4	3	1200	13	195	9.800	1650	1980	3370	970	580	1440	1110
HVS 310/13-16	13** -16	3100	18,5	10	0,5/4	3	1200	15	225	10.800	1650	1980	3920	970	580	1440	1110



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## *HVS Guillotine shear*



SAFAN B.V., with its roots in the heart of the Dutch sheet metal industry in Lochem, is able to offer the sheet metal producer the highest quality machines.

One such quality product is the model HVS hydraulic shear. This is a technically advanced machine in the forefront of the international market. The HVS shear is rightly considered to be an example of good craftsmanship.

SAFAN B.V. answers the needs of the company requiring large capacity and potential.

The years of experience and know how within Safan's development team have enabled it to create and market this highly successful range of machines.

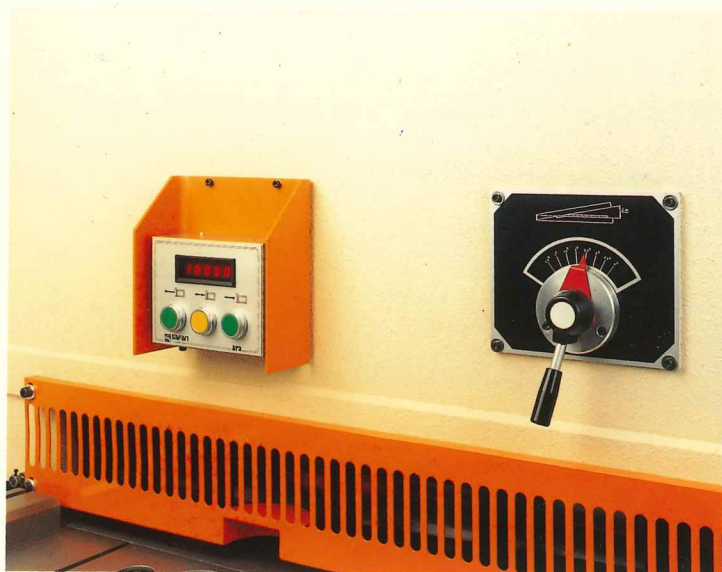
The HVS shear is available with a cutting capacity from 8 mm to 16 mm, and working lengths of 2050, 2550, 3100 and 4300 mm.

The heavy, robust and stable welded frame is stiff enough to require no floor penetration. The machine is equipped with long linear guides for the top beam to ensure maximum rigidity. The hydraulics, electronics and electrics are well adapted to automation.

The strength of the HVS is witnessed in the consistency of cut, which is ensured by a constant cutting speed over its whole cutting length.







### **The HVS Drive System**

Safan has, for the HVS shear, chosen a motor/pump combination to produce a minimum of noise. The unit is suspended on rubber mounts to prevent noise transmission.

The pump and valves are well fitted to the task and require no maintenance.

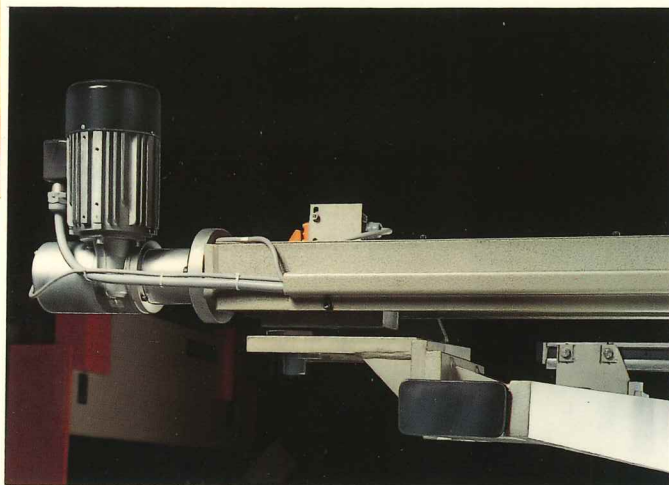
The HVS is protected against accidental overload by a hydraulic relief valve, a necessary and desirable feature to prevent breakages.

The rapid return stroke is achieved by use of a hydraulic accumulator. The cutting stroke is powered by tandem differential cylinders, mounted below the blades. This achieves a lightly stressed frame and low deflections to further improve the consistency and quality of cut. The cylinders are honed and hard chromed.

### **Blade Rake Adjustment**

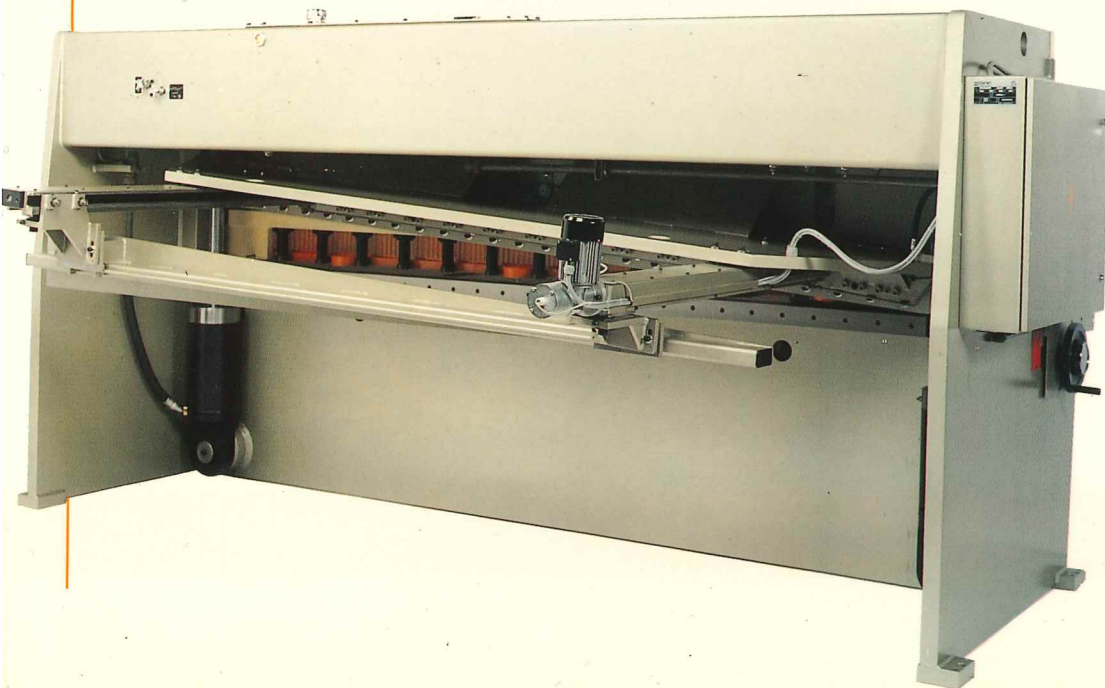
This standard feature of the HVS allows the best angle to be chosen for the type and thickness of sheet being cut. Twist in narrow strips can be minimised.

Smaller blade rake angles speed up the rate of cutting. The angle of cut is adjusted hydraulically.



The sheet being cut is clamped by the sheet hold downs, each of which operates independently. The tonnage exerted to hold the plate in position is directly dependent on the tonnage required to cut the sheet. This minimises marking on thin or delicate materials. The left hand side of the machine has closely spaced hold downs to facilitate the cutting of narrow strips.

**Motordriven backgauge** The backgauge motor is operated by push buttons. During the cutting stroke the backgauge is automatically withdrawn hydraulically to prevent the cut strip jamming. The push buttons give high speed forwards and backwards, with a third button giving incremental movement in 0.1 mm for final positioning forwards. The backgauge dimension is displayed by the clear L.E.D. display. Standard backgauge reach is 1200 mm.





## The HVS Control Panel:

### Lockable Mains Isolator Switch

### Adjustable length of cut

The length of cut can be steplessly adjusted a shorter cutting stroke increases the number of cuts per minute.

### Shadow Line

The shadow line lighting facilitates cutting to marked off lines.

### Top of Stroke Delay

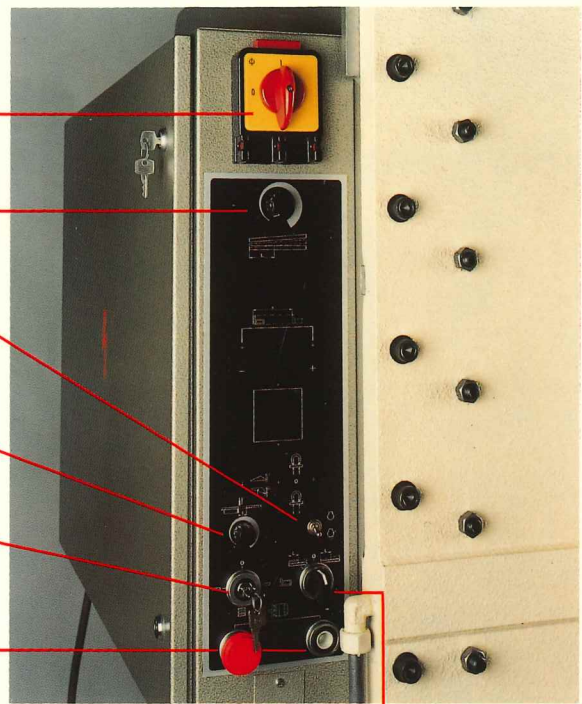
In continuous stroke, the dwell can be adjusted from 0-2 seconds.

### Keyswitch

Selects single stroke or continuous. The machine can also be locked out with the key removed.

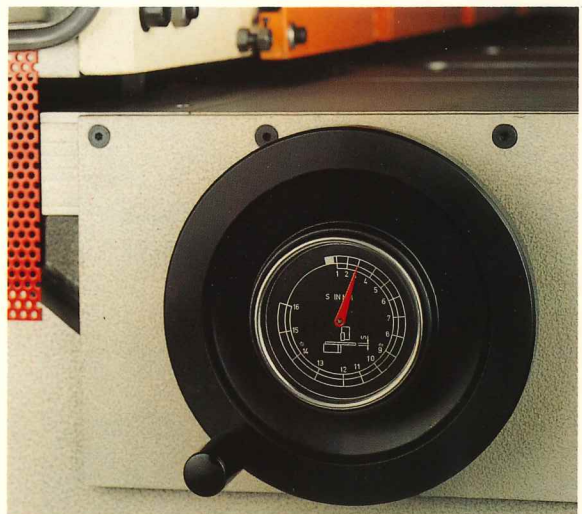
### Motor Controls

On/off switches with automatic star/delta.

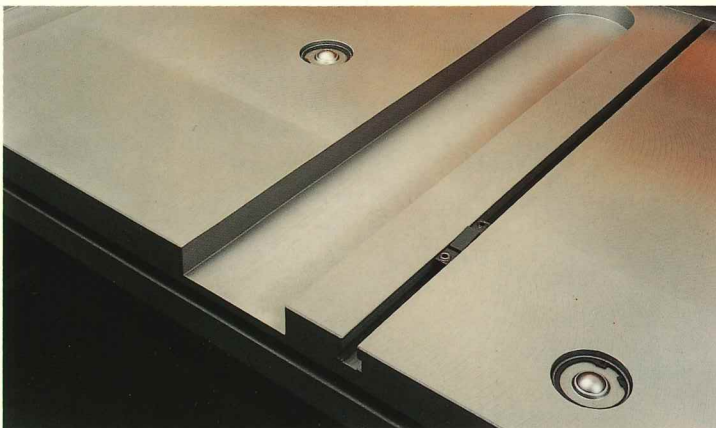


Selector switch for length of stroke adjustment

Spring stops and transfer balls in the table are a standard HVS feature.



- ★ Steplessly adjustable, central blade clearance adjustment. Calibrated in sheet thickness, mild steel.
- ★ Transfer balls
- ★ Spring stops
- ★ Mains isolator switch
- ★ Electric foot switch
- ★ First oil fill
- ★ Tool kit



### Standard features:

- ★ Shadow line
- ★ 2 front support arms, adjustable over entire length of the table (L = 1050 mm from blade)
- ★ 2 squaring guides (L+R)
- ★ 2 built in scales (L+R)
- ★ 2 spring stops
- ★ Single/continuous stroke
- ★ Top of stroke dwell in continuous cycle
- ★ Steplessly adjustable length of cut
- ★ Central lubrication system
- ★ Motor driven backgauge, 1200 mm stroke, with readout to 0,1 mm. Automatic backgauge withdrawal
- ★ Finger guard with ports to allow narrow pieces to be cut
- ★ Inching control for blade adjustment
- ★ Automatic star/delta starter
- ★ 4 cutting edges per blade. Full length blades
- ★ Blade rake adjustment from 0,5° to 4°