



## **GSX SERIES**

Hydraulic Guillotine Shears

# Hydraulics

The hydraulic guillotine shears of the GSX range are driven by top mounted cylinders. Our long experience in the production of hydraulic guillotine shears guarantees a product of exceptional design and great efficiency.

The fully open rear side provides the operator the possibility of easy removal or adapting different conveying systems to the machine.

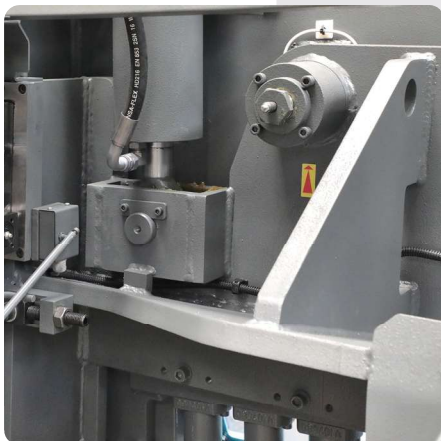
The all-welded interlocked construction makes the machine virtually indestructible. The GSX shears are well equipped and have as standard the SC200 controller.



## Hydraulics

The hydraulic system consists of a motor pump group and a multifunction manifold block for the control of the machine, easy access at the side of the machine. The connections to the cylinders, the hold downs and pumps are by means of flexible hoses. Two high pressure relief valves protect the hold downs and the cutting cycle from overload. Oversized oil tank for trouble free high production shearing.

The parallelism control of the ram is based on the so-called differential principle. Guiding of the beam by roller bearings on hardened ways.

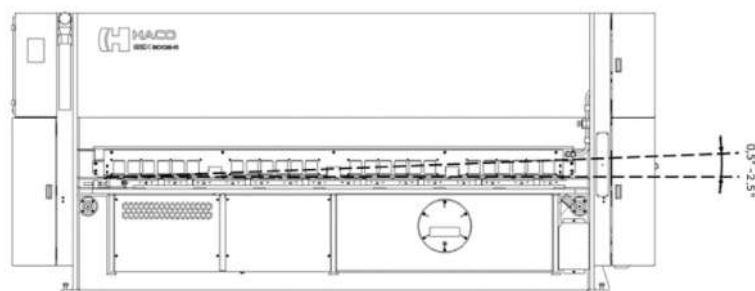


## Hydraulics hold downs

The hydraulic hold downs work independently, which makes it possible to clamp plates of different lengths and thicknesses correctly. The hold downs operate independently from the shearing pressure. On the left and the right hand side of the machine the hold downs are arranged more closely to allow cutting small plates without any problems.

# Cutting angle/blade gap adjustment

GSX 3006

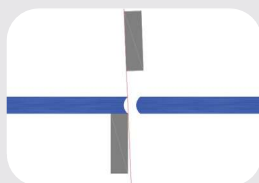


## CUTTING ANGLE ADJUSTMENT

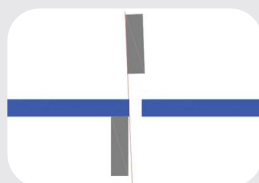
Automatic setting as a function of the plate thickness with SC200 control. This allows to cut thin material at a lesser angle, minimizing deformation of the sheared plate.

## BLADE GAP ADJUSTMENT

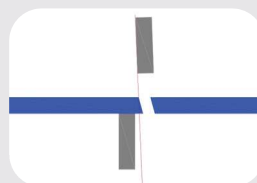
The blade clearance is set automatically by means of two hydraulic cylinders, as a function of the entered sheet thickness and material type.



Too small



Correct



Too big

# Standard features

## Standard features of the GSX

- 2 Upper-driven push-down cylinders
- All operator controls are conveniently located at the left-hand side of the machine in the immediate reach of the operator
- Squaring arm of 1000 mm with scale, T-slot and tilling stop, attached to the left hand side of the machine
- Movable foot pedal control
- Instructions and maintenance manual
- Non-filled oil tank (because of environmental regulations)
- Service tools
- Iron square plate support blocks with ball transfers



## SC200 Control

### Basic Features

- Simplified icon based programming with clear display architecture
- Personalised access codes with different access rights
- Pre-equipped for remote support
- Ethercat bus communication
- Integrated safety
- Based on new reliable German hardware

### Optional Features

- Integrated optical finger protection control
- Integrated oil temperature control
- Integrated control of evacuation belt and scrap container
- Integrated swing away control

### Programming Modes

- **Automatic**  
By entering the sheet thickness, the control automatically sets the blade gap and the cutting angle as a function of the sheet thickness. All parameters can be manually modified according to the actual data.
- **Manual**  
All cutting parameters such as material type, sheet thickness, cutting angle and blade gap can be programmed manually.



GSX 3006



## Quick and easy

The **SC200** fits all requirements for sheet cutting operations that require the highest accuracy and minimum time-loss. Creating a program requires only a few actions. The program parameters include: backgauge position, cutting time, sheet thickness, blade angle & blade gap setting. The blade gap adjustment is done electro-hydraulically.

**No specific training is required to work with this control!**

# Backgauges



The backgauge consists of 2 rigid arms (containing guidings and ball screws) and the parallel adjustable backgauge bar. This assembly assures a precise positioning of the sheet.

Programmable positioning with the SC200 control. Digital read-out of the actual and preselected or programmed position. Swing-away backgauge enables cutting of sheets longer than the standard stroke length, driven on ball screws.

## Motorised backgauge (MOT)

Lateral movement front to back.

Standard on all models.

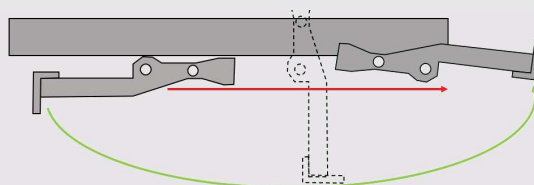
Powered backgauge, stroke 1000 mm.

## Swing-away backgauge (SAB)

Powered backgauge, stroke 1000 mm.

Available as option.

When removing the shafts in both carriers and running the backstop backwards, the complete carrier will swing away to the back, enabling to cut longer sheets.



# Optional equipment

## Optionals

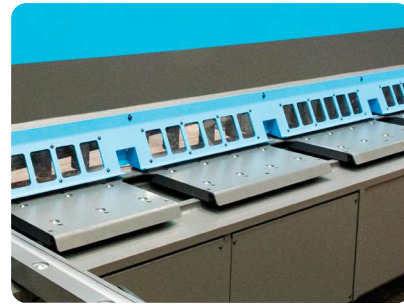
- Squaring arms and front support arms
- Protractor for angle shearing
- Hand Safety Guard with safety light curtain
- Swing-away backgauge
- Full table with ball transfers
- Pendant control arm
- Safety fences and light beams at the rear side of the machine (standard for countries requiring the CE safety specifications)
- Soft padded hold downs and pressure regulation
- Hydraulic sheet support system with Sheet Back to Sender functionality (SBS)



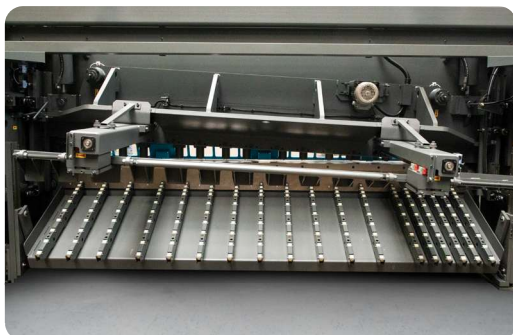
*Protractor for angle shearing.*



*Squaring arms and front support arms with or without scale, T-slot, and tilting stop. Lengths from 1000 to 3000 mm per multiple length of 500 mm.*



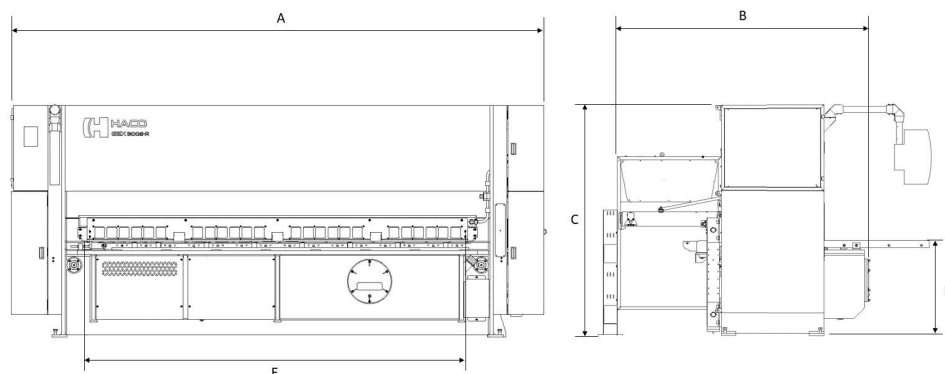
*Full table consisting of segments, with ball transfers for easy feed-in of the sheets*



## Hydraulic sheet support system with Sheet Back to Sender (SBS)

A specific feature of the GSX range is the complete free rear space between the frames, so the machine can be executed with different sheet support systems to improve production output.

The hydraulic sheet support system follows the movement of the beam. Principally for thinner sheets, it assures the perfect gauging while entering the sheet into the machine. During the cutting action the sheet remains supported in order to avoid damage and deformation. When the cutting action is finished the plate slides down smoothly. The system can be switched off, e.g. for cutting thicker plates.



# Technical specifications

	Capacity mild steel [inch] (2400 pound/inch)	Capacity stainless steel [inch] (4000 pound/inch)	Cutting length [inch]	Cutting angle (°)	Number of plate clamps	Number of strokes/min sheet with sup- port OFF at min. angle – max. angle	Number of strokes/min with sheet sup- port ON at min. angle – max. angle	Stroke of back gauge MOT version [inch]	Stroke of back gauge SAB version [inch]	Working height [inch]	Motor Power [HP]	Length [inch]	Width [inch] (without CE safety fen- ces)	Width [inch] (with CE safety fences)	Height [inch]	Approximate weight (with SBS) [Lbs]
GSX 6 x 1/4	1/4"	3/16"	80	0,5-2,5	14	28-15	7,5-7,5	40	37,2	30	11	132	100	154	75	11023
GSX 6 x 5/16	5/16"	7ga	80	0,5-2,5	14	28-15	7,5-7,5	40	37,2	30	15	132	100	154	75	12125
GSX 6 x 3/8	3/8"	1/4"	80	0,5-2,5	14	14-12	8-6	40	37,2	35	18,5	144	102	162	75	14991
GSX 6 x 1/2	1/2"	3/8"	80	0,5-2,5	14	14-12	8-6	40	37,2	35	22,5	144	102	162	75	17637
GSX 8 x 1/4	1/4"	3/16"	100	0,5-2,5	14	25-12,5	6-6	40	37,2	30	11	151	100	154	75	12125
GSX 8 x 5/16	5/16"	7ga	100	0,5-2,5	14	25-12,5	6-6	40	37,2	30	15	151	100	154	75	13228
GSX 8 x 3/8	3/8"	1/4"	100	0,5-2,5	14	11-9,5	6,5-5	40	37,2	35	18,5	163	102	162	75	16535
GSX 8 x 1/2	1/2"	3/8"	100	0,5-2,5	14	11-9,5	6,5-5	40	37,2	35	22,5	163	102	162	83	19180
GSX 10 x 1/4	1/4"	3/16"	123	0,5-2,5	18	20-10	5-5	40	37,2	30	11	171	100	154	75	14330
GSX 10 x 5/16	5/16"	7ga	123	0,5-2,5	18	20-10	5-5	40	37,2	30	15	171	100	154	75	15432
GSX 10 x 3/8	3/8"	1/4"	123	0,5-2,5	18	9,5-8	5,5-4,5	40	37,2	35	18,5	183	102	161	89	18739
GSX 10 x 1/2	1/2"	3/8"	123	0,5-2,5	18	9,5-8	5,5-4,5	40	37,2	35	22,5	183	102	161	89	21385
GSX 12 x 1/4	1/4"	3/16"	147	0,5-2,5	22	16-8	4-4	40	37,2	34	11	195	100	154	83	17637
GSX 12 x 5/16	5/16"	7ga	147	0,5-2,5	22	16-8	4-4	40	37,2	32	15	195	100	154	83	19842
GSX 12 x 3/8	3/8"	1/4"	147	0,5-2,5	22	8-6,5	4,5-4	40	37,2	39	18,5	203	102	162	89	25353
GSX 12 x 1/2	1/2"	3/8"	144	0,5-2,5	22	8-6,5	4,5-4	40	37,2	40	22,5	207	102	162	97	26455
GSX 13 x 1/4	1/4"	3/16"	159	0,5-2,5	22	15-7,5	4-4	40	37,2	34	11	210	102	155	83	22046
GSX 13 x 5/16	5/16"	7ga	159	0,5-2,5	22	15-7,5	4-4	40	37,2	34	15	210	102	155	83	23149
GSX 13 x 3/8	3/8"	1/4"	159	0,5-2,5	22	7-6	4-3	40	37,2	39	18,5	223	102	162	89	28660
GSX 13 x 1/2	1/2"	3/8"	159	0,5-2,5	22	7-6	4-3	40	37,2	40	22,5	223	102	162	89	29762

E

D

A

B

C



## ADVANCED TECHNOLOGIES, SINCE 1965



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Robotics



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