NEW GASPARINI

X-CUT

RANGE

GASPARINI

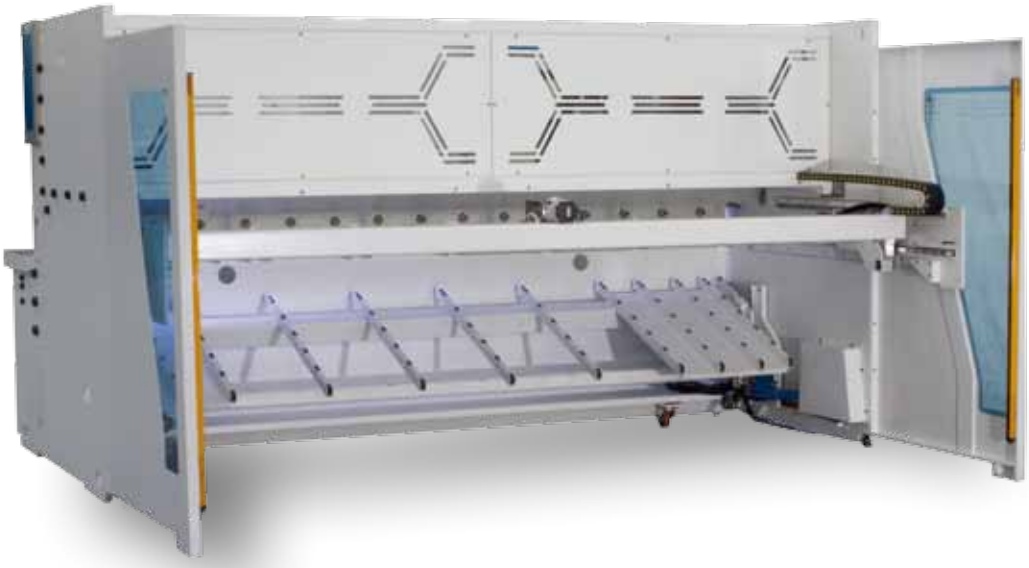
BENDING & CUTTING TECHNOLOGIES

NEW RANGE
X-CUT

HYDRAUILC GUILLOTINE SHEAR

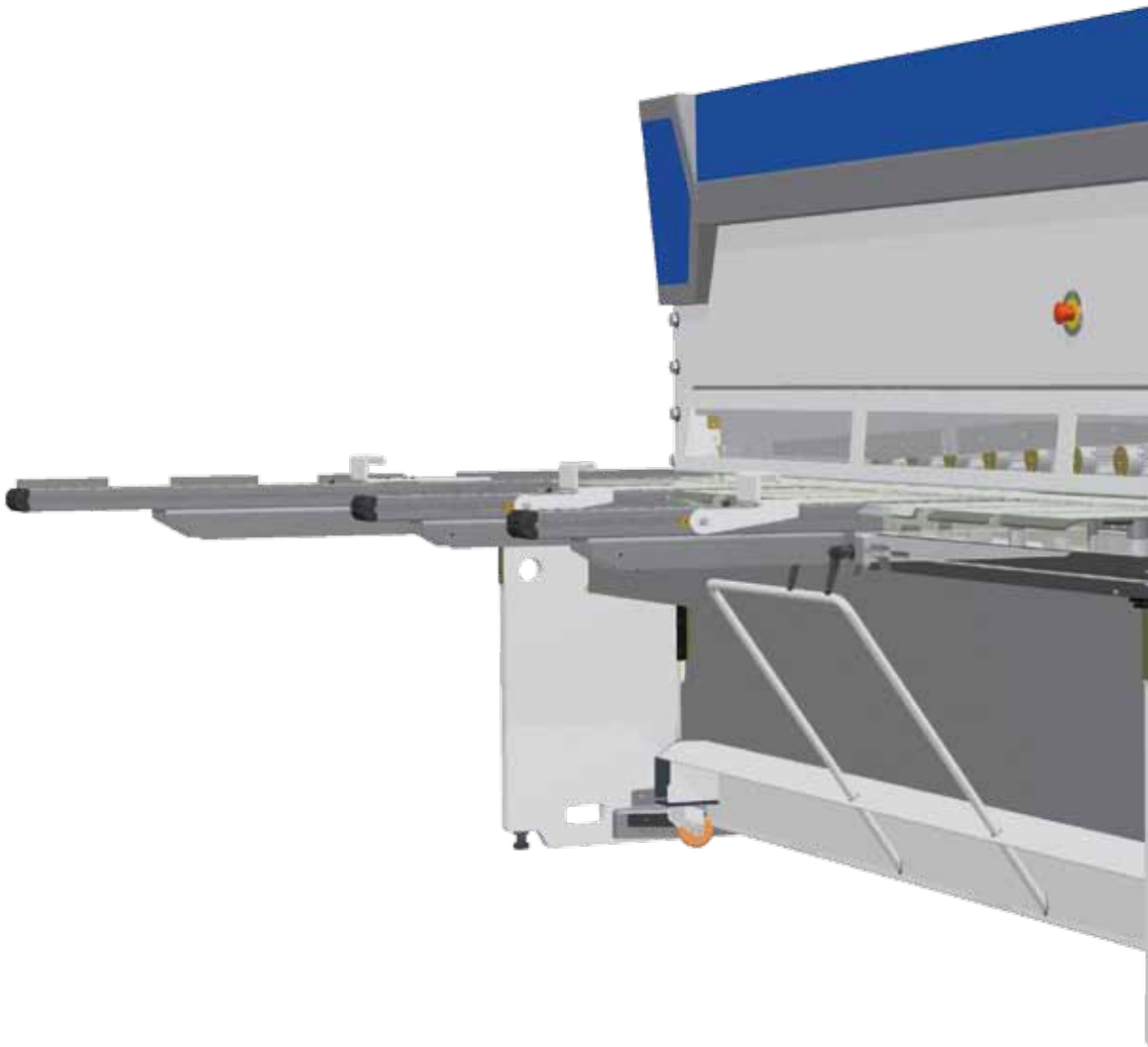
All of Gasparini's 40 years' experience in sheet-metal shearing are concentrated in the new X-Cut Gasparini Guillotine Shear range. Top class machine, high performances and quality standards to produce highest precision cut blanks in large volumes, cost-efficiently:

- the best cutting quality available in the market;
- higher performances;
- better comfort;
- less power consumption (ecocompatibility).

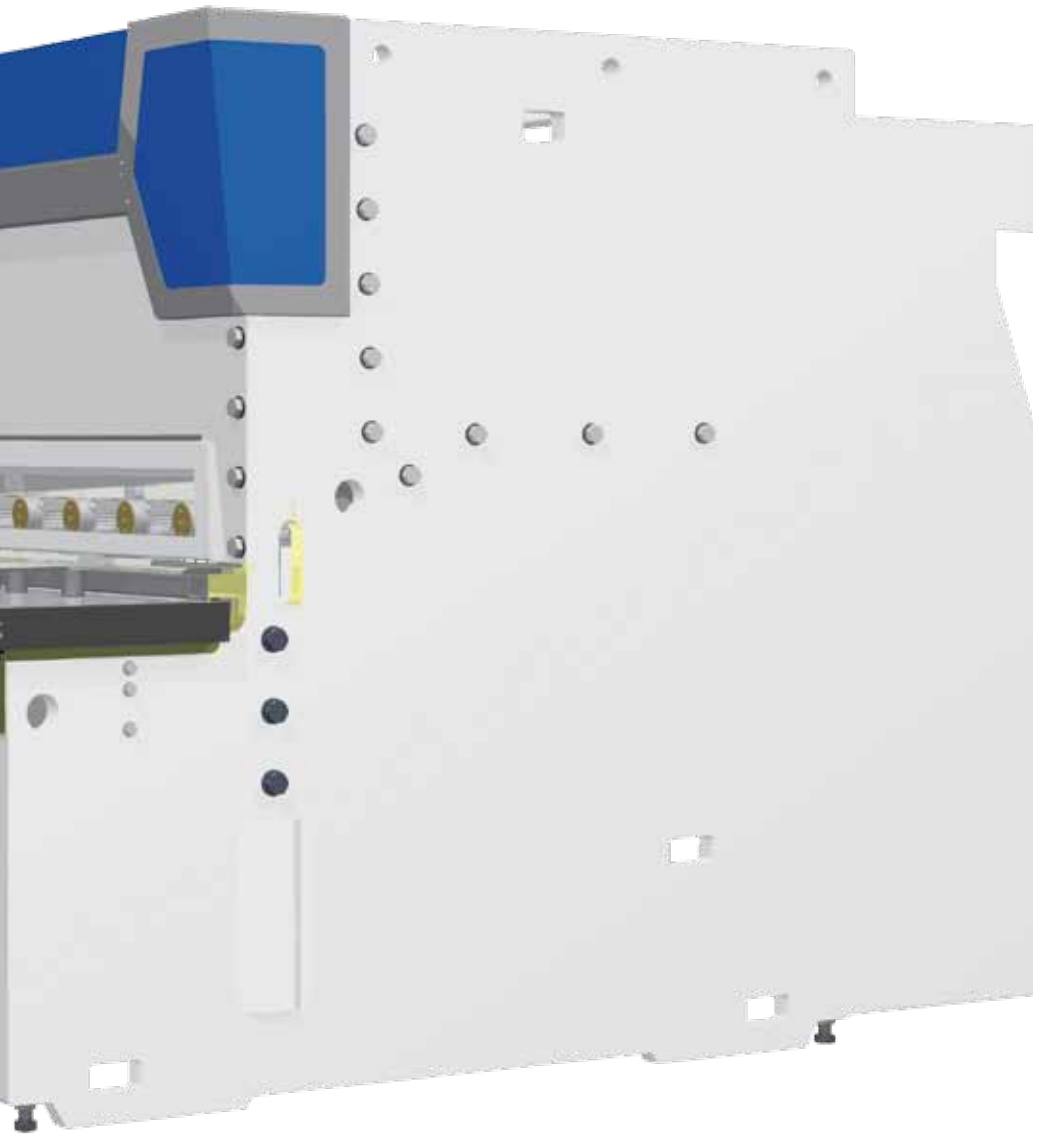



PARINI
X-CUT 3006

NEW DESIGN



The new product design, applied to all new Gasparini products, including shears and plasma cutting machines, supports the new Company image and its commitment to innovation. While introducing some state of the art technology, like LED lighting and poly-carbonate films, the new design is aligned with three important values, which are among the pillars of the Company's Innovation Strategy: unique, technological, Italian.



CUTTING-LINE LED LIGHTING

The new X-Cut shears are equipped with powerful LED cutting line lighting. Thanks to the appropriate light, metallic colors are highlighted in the best possible way so that the cutting line is perfectly lit and the operator will not get fatigued. And still more energy is saved!

NEW HYDRAULIC SYSTEM

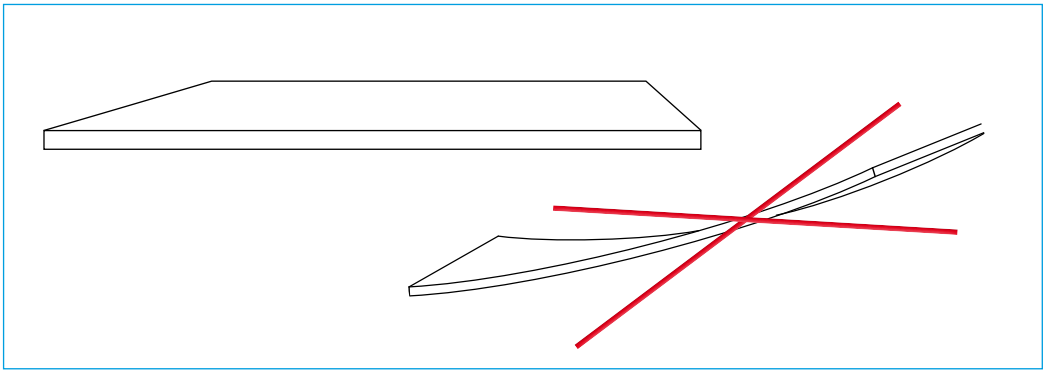
Operating efficiency has been substantially improved through the use of a newly developed oil pressure system. The pump motor and the power circuits are switched off after the shear has been inactive for a specific time. The switching on can be done by means of the command pedal: 1. Electrical comsumption cut down during long inactivity times. 2. Lower oil stress.

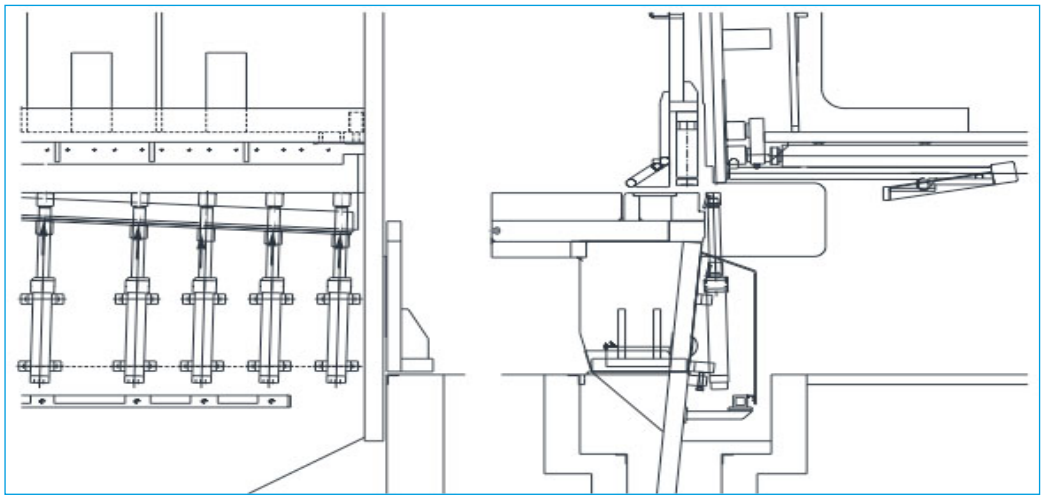
BLADE GAP PADS

X-Cut: the hydraulic guillotine shear with the best cutting quality in the world. The new X-Cut range is equipped, already in the standard range configuration, with the exclusive blade gap system that places Gasparini shears at the top of the market. The blade gap is the main point of strength of Gasparini shears. It consists of a series of adjustable pads that force accurate blade positioning every 200 mm throughout the entire length. Cutting linearity and accuracy are guaranteed.

ANTI-TORSION DEVICE

When the depth of the plate to be cut is less than 10 times the thickness, the internal tensions caused by cutting make it take on a “helical” shape, in other words the plate tends to twist.
This phenomenon is amplified when the cutting angle is open. To reduce this phenomenon to a minimum it is recommended to apply the anti-torsion device (optional). This accessory consists of a series of hydraulic cylinders fitted below the bottom blade which support the plate against the top blade. This contrasting action is carried out during the cutting phase. The cylinders exert a counter-pressure in proportion to the thickness cut. This device can be added also post machine installation.





The combination of the Blade Gap Pads (standard on all Gasparini X-Cut series), together with the high stiffness frame and the Anti-Torsion Device (optional) guarantee an overall cutting straightness error less or equal than 0.05 mm/m and a torsion effect less or equal than 3°/m (depending on material, thickness and strip width).

Want to get more? Please ask us!

OTHER STANDARD MACHINE FEATURES

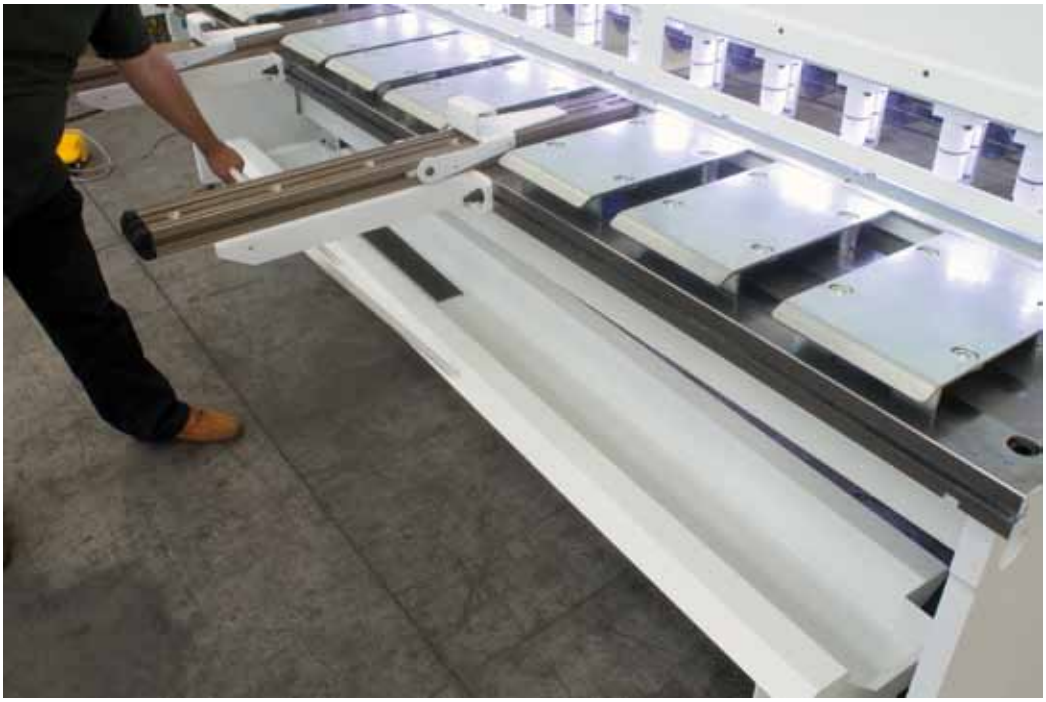
The new X-Cut range is equipped, already in the standard range configuration, with the features that place Gasparini shears at the top of the market:

- **Ram**: planar upper beam with ferrozel guides and adjustable pads distributed along the whole length.
- **Blades**: 4 cutting edges with 90° angle suitable for shearing stainless steel (max. tensile strength 750 N/mm^2); double blade life time; operating cost savings; guaranteed of cutting quality;
- **Cutting angle adjustement**: 0°÷3° (with different length of the machine, max cutting angle changes (it decreases when length increases);
- **Blade gap regulation**: manual (controlled by CNC as optional);
- **Adjustable starting** and end stopping position for entire length of the cutting beam;
- **Bench**: milled monolithic bench with milled slots to facilitate sheet movement;
- B**ack gauge**: high dynamics CNC controlled back gauge; repeatability ± 0.01 mm; precision ±0.05 mm; stroke 1000 mm;
- **Hold down**: automatic pressure adjustment proportional to cutting force;
- **Fixed rear** discharge chute according the CEN-EN13985:2003;
- **Front guard**: in series 4 and 6 the front guard is fixed with a 10 mm port and the distance from hold down is 40 mm; in larger series there is a manual front guard with easy opening operated by gas springs;
- **Ruled squaring arm**: length for X-Cut 4, 6, 8: 1500 mm; length for X-Cut 10 and 12: 2000 mm; length for X-Cut 16, 20, 30: 2500 mm;
- **Front supports**: front supports with balls, disappearing gage and measuring rule; length for X-Cut 4, 6, 8 is 1500 mm; length X-Cut 10, 12, 16, 20, 30 is 2000 mm;
- **Cutting line** LED lighting;
- **CNC**: Delem DAC 360.

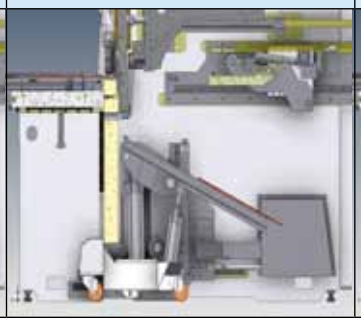
OPTIONS/ACCESSORIES

FOR MAXIMUM OPERATING EASE THE NEW X-CUT RANGE SHOULD BE EQUIPPED WITH A WIDE RANGE OF ACCESSORIES. THE FOLLOWING ARE THE MOST REPRESENTATIVE; MANY MORE ACCESSORIES NOT MENTIONED BELOW ARE AVAILABLE. PLEASE ASK US FOR A "TAILORED" SOLUTION!

FRONTAL SCRAP RECOVERY CARRIAGE BOX



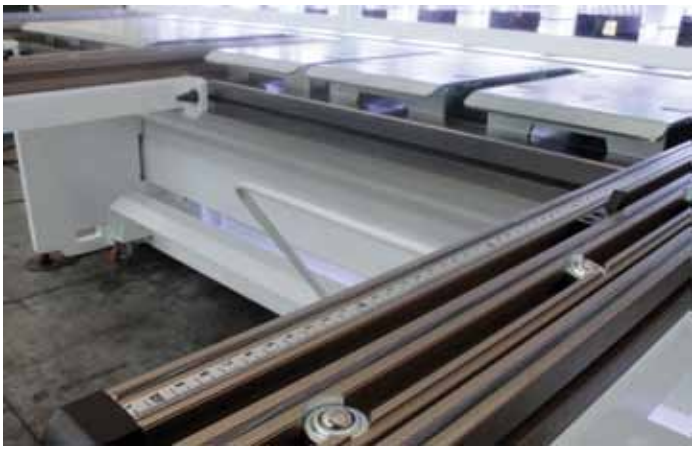
PNEUMATIC SHEET METAL BACK SUPPORT WITH 2, 3 OR 4 MOVEMENTS

Cutting function with sheet metal support (perfectly horizontal)	Rear discharge function	Scrap and small piece front discharge function	Return to sender function
			

No of movements	Movement description	Functions
1	Up-down	Cutting function with sheet metal support (perfectly horizontal)
2	Up - down; support rotation ON - OFF	Cutting function with sheet metal support (perfectly horizontal). Rear discharge function.
3	Up - down; support rotation ON – OFF; discharge ON-OFF	Cutting function with sheet metal support (perfectly horizontal). Rear discharge function. Scrap and small piece front discharge function
4	Up - down; support rotation ON/OFF; discharge ON-OFF; discharge limiting ON/OFF	Cutting function with sheet metal support (perfectly horizontal). Rear discharge function. Scrap and small piece front discharge function. Return to sender function

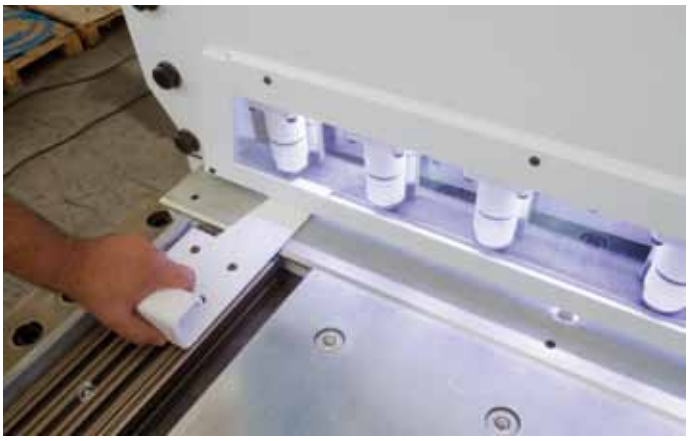
FRONT SUPPORT

Front supports can be supplied on demand in extended version +1000 mm
Micrometric retractable gauge
Brushes
Additional measuring rule
Side stop

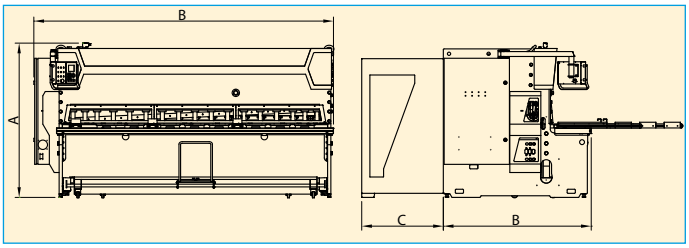


OTHER OPTIONS

- Blade Anti-scratch Device.
  This option lifts the metal sheet on feed side while movable blade is returning up to start position eliminating the contact between blade and the sheet itself. The result is to reduce the scratches and flaws on the sheet border, improving the quality of the finished part.
- Hi-speed package.
  High speed package especially suitable for automated shearing lines, with high frequency and/or fast sequential cuts. The actual speed of the shear (blade movements, feeding and back gauge positioning, etc.) can be then improved, assuring final higher productivity.
- Heat exchanger: a dedicated heat exchanger for the hydraulic oil is recommended, either for installation of the shear with heavy duty applications, such as within automated shearing lines, or for tropical environmental conditions.
- Sensor in the backgauge.
- Voltage stabilizer.
- Spare parts kit: The current option provides a kit of recommended spare parts and consumables (blades excluded) for safe production for 2,000/4,000 working hours.
- Cutting start square with pneumatic retractable gauge
- Ruled protractor: The ruled protractor become necessary whenever cuts with angles other than 90° are required. The protractor can be supplied with side stop arm, with 2 different arm lengths available: 750 mm and 1000 mm.
- Pneumatic front guard.
- Stripes feeder: assures cutting very close to the blade area in accordance with CEN-EN13985:2003.
- Back gauge with increased 1500 mm stroke.



TECHNICAL SPECIFICATIONS



X-Cut Shear	Cutting capacity [mm] S275 (430 N/mm²)	Cutting capacity [mm] AISI 304 (430 N/mm²)	Cutting length [mm]	No. of strokes /min	Cutting angle 0.5° max [°]	Backgauge reach [mm]	Backgauge accuracy [mm]	Backgauge repeatibility [mm]	No. of hold-downs pad	Machine height A [mm]	Machine length B [kg]	Machine depth C [mm]	Rear guard depth D [mm]	Weight [ton]
2004	4	3	2050	22 ÷ 40	2.5	1000	±0,05	±0,02	12	2065	2600	1555	1150	4.3
3004			3050	16 ÷ 31	2.5				17	1800	3600	1950	1150	5.5
4004			4100	11 ÷ 28	3.0				22	1870	4700	2050	1150	8.5
6004			6100	11 ÷ 25	2.0				32	2290	6900	2300	1150	17.0
3006	6	4	3050	12 ÷ 28	3.0				17	1900	3600	2300	1150	7.7
4006			4100	10 ÷ 25	3.0				22	2050	4700	2190	1150	10.9
6006			6100	10 ÷ 24	2.5				32	2700	6900	2350	1150	17.9
3010	10	8	3050	15 ÷ 30	3.0				16	2200	3740	2460	1150	11.5
4010			4100	9 ÷ 22	3.0				22	2200	4860	2500	1150	17.0
6010			6100	7 ÷ 17	2.5				32	2850	6860	2560	500	27.2
3012	12	10	3050	14 ÷ 28	3.0				16	2200	3740	2460	1150	11.5
4012			4100	8 ÷ 20	3.0				22	2200	4860	2500	1150	17.0
6012			6100	7 ÷ 17	2.5				32	2850	6860	2560	500	27.2
3016	16	11	3050	12 ÷ 25	3.0				16	3050	3850	2600	1150	20.0
4016			4100	9 ÷ 18	3.0				21	3050	5050	2750	1150	26.5
6016			6100	7 ÷ 17	3.0				30	3050	7000	2900	-	52.5
4020	20	13	4100	9 ÷ 15	3.0				20	3180	5000	2730	-	32.5
6020			6100	7 ÷ 15	2.5°				30	3180	7050	2900	-	63.0
6030	30	22,5	6100	4 ÷ 11	2.5°				26	3420	7100	2900	-	75.0