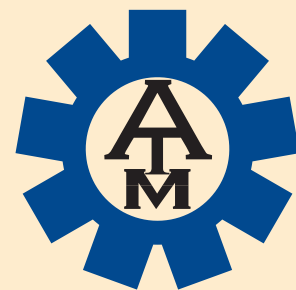


PRODUCT CATALOG

2015-2017



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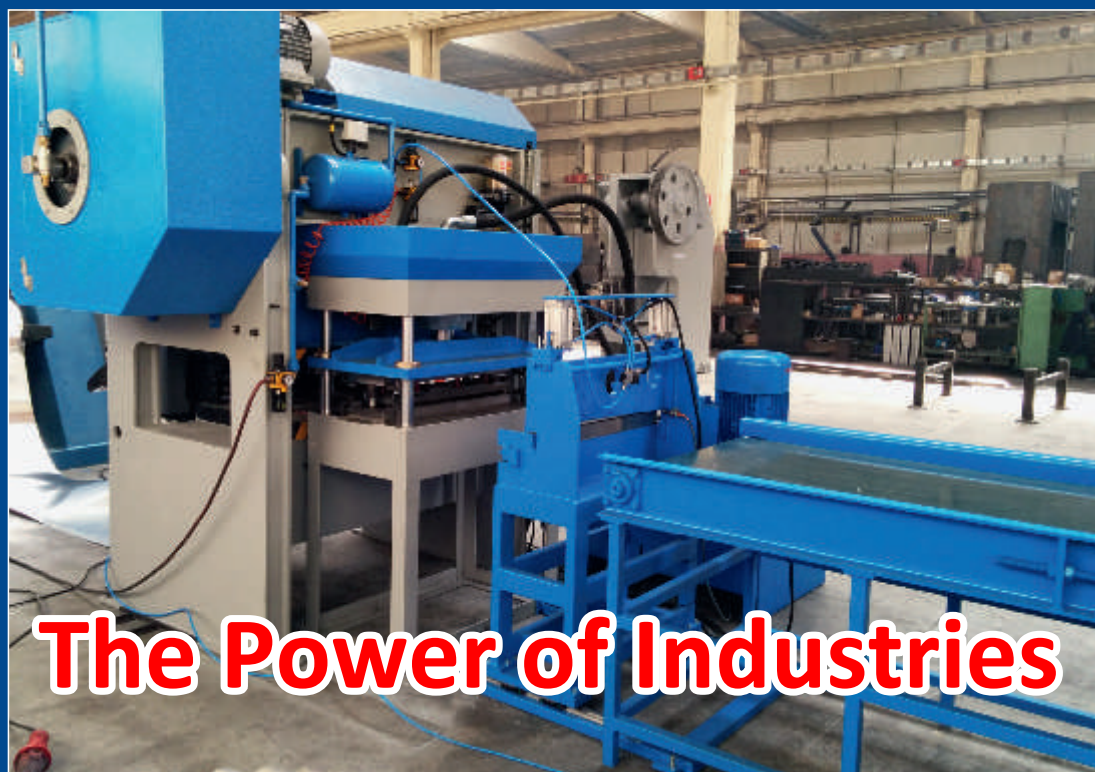


Sheet metal processing

**CNC
Perforation
EEP350**



Perforation processing



Blanking lines



Production lines

The Power of Industries



ATM Deutschland GmbH

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CNC/NC – Hydraulic Press Brakes / CNC/NC – Hydraulische Abkantpressen



General features

The HPB780 series of ATM are fast and exceptionally accurate bending brakes for precise sheet metal forming through defined bending and edging. The presses open all possibilities to their users – in compliance with currently binding safety regulations. Serial equipment allows achieving such productivity and precision.



Allgemeine Merkmale

Die HPB870-Baureihen von ATM sind sehr schnelle, hochgenaue CNC/NC gesteuerte Abkantpressen für die präzise Blechumformung durch definiertes Biegen und Kanten. Die HPB780-Pressen eröffnen dem Anwender unter Einhaltung der aktuellen Sicherheitsbestimmungen alle Möglichkeiten mit serienmäßiger Ausstattung wird eine hohe Produktivität und Genauigkeit erreicht.



Hydraulic system made by Rexroth which supply oil flow to cylinders proportional



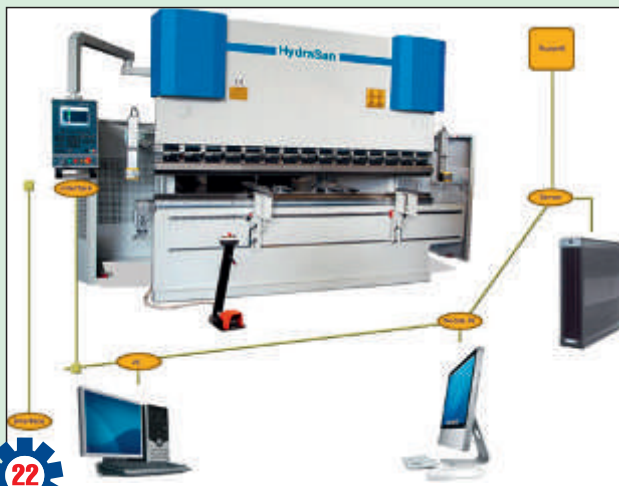
Quick top tool clamping system by Amada Promecam to change the tools easily



Backgauge system by Unimec driven by AC servo motors with 0,01 tolerances.



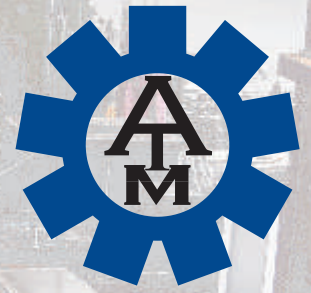
Crowning system by Wila, manual (Standard)



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CNC/NC – Hydraulic Press Brakes / CNC/NC – Hydraulische Abkantpressen

HPB870 30-600 tons

GENERAL PROPERTIES

- Accurate positioning and repeatability performance of synchronised CNC press brakes, achieved by synchronising the hydraulic cylinders with advanced CNC control of proportional valves and use of optic linear scales.
- Calibration of cylinder axes and backgauge axes, maintained by automatic indexing at the start of machine.
- Hydraulic cylinders are designed and manufactured from solid steel billet and honed precisely.
- Pistons are steel forgings, hardened, chrome plated, precision ground and micro polished for years of trouble-free service.
- Compact hydraulic block with pressure relief valves for safety.
- Calculation and performing of below facilities after inputting data like material thickness, bend length, tool details to CNC unit:
 - Determination of the necessary bending force for bending stroke.
 - Visual inspection of potential interferences between machine, tools and part before and after each bend on the graphical display.
 - Automatic positioning of the backgauge for each step of the bending program.
 - Determination of practical bending sequence.
 - Calculation of the bottom dead centre for accurate bending angle and top dead centre.
 - Storage and recalling of part programs and bending tools.
 - Programming of bending speeds.
 - Selection of manual, semi-automatic or automatic working modes.
- Tilting of upper beam for conical bending.
- Hardened ram slide ways working with low friction and wear resistant material and optimum lubricant material and optimum lubrication grooves.
- Pressure switch limits bending force during bending and active automatic return of top beam to top dead centre.

Standard Features

- Longitudinal (Z-axis) and vertical (R axis) adjustment of back gauge system.
- Synchronisation of Y1+Y2 axis utilising optic linear encoders within a tolerance of 0,005 mm
- Cybelec DNC 880 Graphic Screen PS Control Y1 + Y2 + X + R axis

- In the first working automatically indexing (reference)
- Backgauge system in X-R axis with AC servo Motor on linear bearings
- Backgauge fingers with 0.01 tolerances
- GIVI Misure linear encoder with high sensitivity (0,005)
- Automatic weight setting
- Hardened, grinded and standard segmented top toolingsystem (835 mm) and lower blocks with many canals according to request.
- Standard Multi V bottom in full bending length.
- BOSCH-REXROTH hydraulic units resistant to high pressure AMADA Pro-mecam crowning system.
- 2 Front arms with T-Slot
- Throat depth 350 mm
- Adjustable front support arms of sheet iron with T-Slots
- Movable panel and foot control conforming to CE regulation.
- PLC controlled electrical panel with SIEMENS components.

Optional Features

- Cybelec ModEva 10,/12/15 or Delem DA 69W with 2/3- D graphic display options.
- Cybelec Modeva color graphics with CYCAD, PC 120 & Lucia software
- Delem V-Bend, V DXF modul, V-Draw software
- Z1+Z2, X1+ X2, R1+R2 axis
- Motorized WILA lower block anti-deflection system.
- Front light protection system.
- Special upper and lower blocks.
- Laser Protection system by AKAS
- Laser angle measurement system
- Hydraulic or pneumatic upper and lower crowning system.
- SICK C4000 Advantaged finger protections, 14 mm with easy programmable Sick software.
- Cooling system for hydraulic oil
- Automatic slide greasing system 400-500-600 mm or more throat depth.
- Customer specific table size, tools,
- Special Sliding arms.

Standard software

- Cybelec CYCAD or Delem V-Bend, V DXF modul, V-Draw software
- Interface converts 2-D drawing prepared on different program with *.dxf and *.iges format to the cybelec format
- Delem DA6XW controllers are Windows based systems. The data transfer and back-up between PC and controller through the network is possible.
- Delem controlled machines are online system and controlled over all. VBend,
- VDraw and VDxf software are included in Delem systems. VBend features:
 - With existing tools it is possible to produce pieces
 - Parametric tool definition
 - Step by step bending sequence determination
 - Imaginary vision of all bending
 - Toll drawing transfer
 - Tool selection from library
 - Automatic or manual axes positioning
 - Cut dimensioning with *.dxf
 - Printing out all values
 - VDraw: To design easy 3D
 - VDxf is used to transfer the *.dxf to Delem format

Optional software

- Cybelec ModEva PC 1200 controllers are used in ATM machines.
- Over the network you can control the machine direct from your office:
 - Designing of the piece
 - Adjust the parameters of the machine
 - Tooling and work piece libraries (different tool selection)
 - Bending simulation etc.



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HPB870 30-600 tons

CNC/NC- Hydraulic Press Brakes/CNC/NC- Hydraulische Abkantpressen

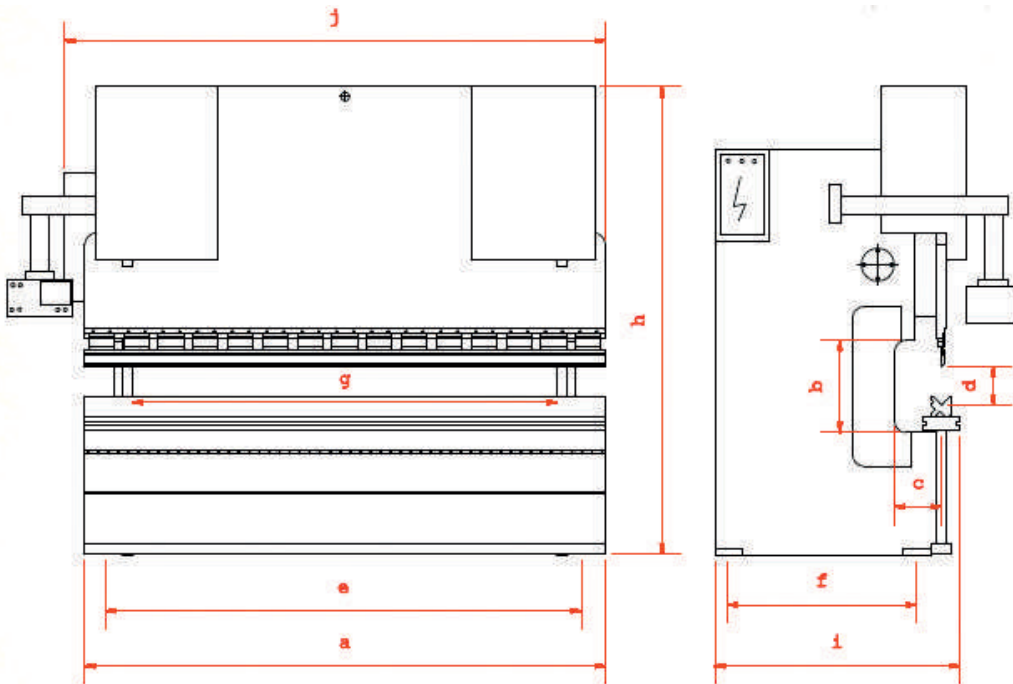
Automation by Robot Systems

ATM machine and Robot are connected with over network. Since 2007 the Robots has been widely used in ATM Press Brakes. The Robots can be used with all main press controllers. Cybelec and Delem has already interface with robots. Robot functions as fetching, bending, lifting and repositioning are synchronized with the bending functions.

- Save times and costs
- No training needed
- After switch on automatically synchronisation with the Cybelec or – Delem systems

This brings following advantages:

- during programming and commissioning,
- daily working,
- work piece,
- additional multiple bending process, centring etc.
- Improved cycle times with large batches
- Low cycle times with large parts
- Non-Stop operation
- Easy integration wit the system
- Good applicable in dirty and noisy areas
- Useful also for the production of small parts



Type HPB 870		25-080	30-080	30-120	30-160	30-200	30-225	30-300	40-120	40-160	40-225	40-260	40-300	40-400	60-200	60-300	60-400	60-500	60-600
Force/Presskraft	t	80	80	120	160	200	225	300	120	160	225	260	300	400	200	300	400	500	600
Bending length /Abkantlänge	mm	2600	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100	4100	4100	6100	6100	6100	6100	6100
Clear. betw. columns/Zwi. Ständern	mm	2050	2250	2250	2250	2550	2550	2550	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100	4100
Stroke /Hublänge (max.)	mm	140	140	160	180	200	200	250	160	180	200	250	300	300	200	250	300	300	300
Throat depth /Ausladung	mm	300	300	300	300	300	300	300	300	350	350	400	400	500	500	500	500	500	500
Table height/ Tischhöhe	mm	770	830	830	900	910	940	890	910	940	940	950	960	1170	1040	900	900	900	900
Table under ground/Unter Boden	mm	840	900	900	970	980	1010	960	980	1010	1010	1020	1030	1240	1110	500	1300	1450	1580
Daylight opening/Lichte Höhe	mm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	550	550	550
Approach speed/Eilgang	mm/s	380	380	400	430	440	440	490	400	430	440	490	490	550	440	490	550	550	550
Working speed/Arbeitsgeschwindigkeit	mm/s	80	80	80	80	100	100	80	80	80	80	100	80	80	80	100	80	80	80
Return speed/Rückwärts	mm/s	9	9	9	9	10	10	8	8	8	8	10	8	8	8	8	8	6,5	6
Motor power/Motorleistung	kW	80	80	80	80	100	100	80	80	80	80	100	80	80	80	100	80	80	80
Height/Höhe	mm	5,5	11	11	15	18,5	15	18,5	18,5	15	18,5	22	22	30	18,5	22	30	30	45
Length/Länge	mm	2200	2420	2420	2610	2700	2730	2870	2600	2720	2880	3010	3050	3390	3100	3400	4000	4200	4300
Depth/Breite	mm	3720	4450	4450	4470	4480	4500	4500	5350	5370	5380	5400	5410	5600	6700	6700	7150	7200	7200
Weight/Gewicht ca.	mm	2000	2200	2200	2200	2200	2000	2200	2400	2400	2400	2400	2400	2400	2600	2650	2700	2850	2900
	mm	4	7	8	8,5	9,5	10,5	13,5	10,5	11,5	13,5	15	15,5	24	23	30	40	45	52



Technical specifications can be modified without notice.

For machine requests without promecam extensions, daylight opening is reduced by 40 mm/50mm for bending purposes.

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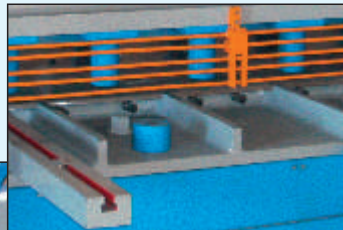


NC – Hydraulic Guillotine Shears / NC – Hydraulische Scherer



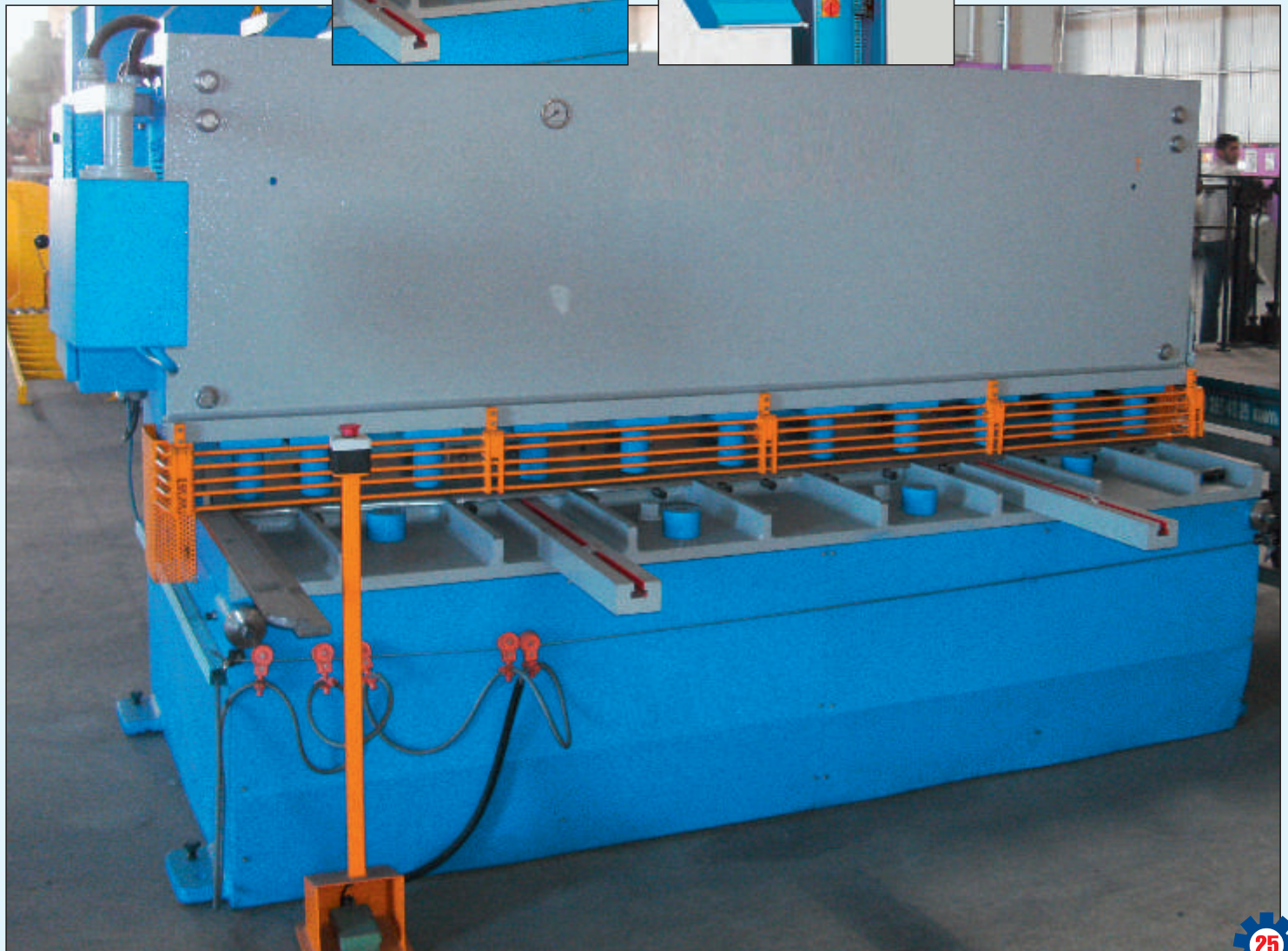
General features

The HGM series of ATM angle adjustable hydraulic shears are strong and easy to use. With the machine can be cut any type of bow with the best quality and speed. Machines could easily with the use of CYBELEC controller are programmed. If the type, thickness and length of the leaf input to the controller, calculates and adjusts machine blade gap adjustment, back-stop distance, cutting length and rake angle automatically. Cutting angle is automatically adjusted according to thickness, so when cutting thin sheets of the shortest stroke are used.



Allgemeine Merkmale

Die hydraulischen Tafelscheren der Baureihe HGM von ATM mit einstellbarem Winkel sind einfach zu bedienen. Mit den Maschinen können jede Art von Bogen mit der besten Qualität und Geschwindigkeit geschnitten werden. Maschinen könnten leicht mit dem Einsatz von CYBELEC Steuergeräte programmiert werden. Wenn der Typ, die Dicke und Länge des Blattes in die Steuerung eingegeben werden, berechnet die Maschine entsprechend und passt Schnittspaltverstellung, Rückanschlag Abstand, Schnittlänge und Schnittwinkel automatisch an. Wenn Schnittwinkelverstellung automatisch nach Blechdicke eingestellt wird, so wird beim Schneiden dünner Bleche der kürzeste Hub eingesetzt.





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HGM

NC – Hydraulic Guillotine Shears / NC – Hydraulische Scheren

Automation by Robot Systems

Standard Features

- Steel frame construction
- NC control unit for backgauge and Blade gap setting
- Backgauge system with ballscrews
- Adjustable stroke length
- Hydraulic holddown system
- Foot pedal control for single and repetitive cycles
- Angle ruler
- Sliding ball pre support platform.
- Lighting
- Safety finger guard and side throat guards
- Shear blades with four cutting edges top and bottom
- Control panel having all key pad on it
- Foot pedal with emergency stop

Option available

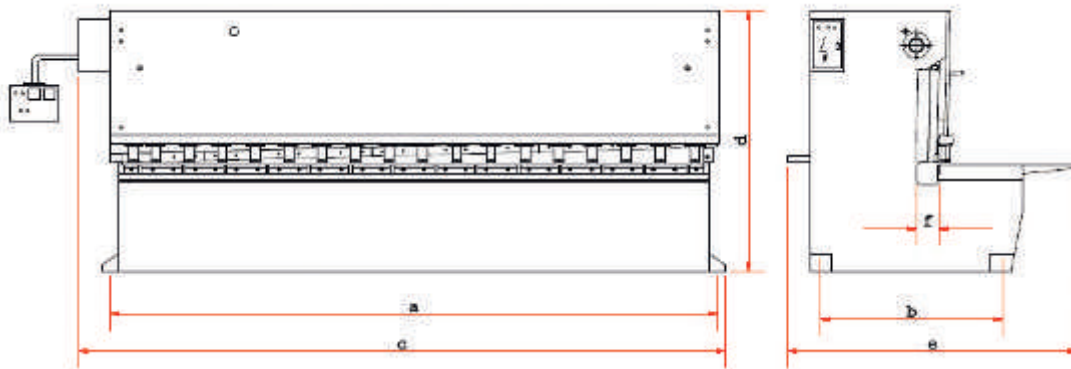
- Angle gauge
- Raer safety guarding
- Light guards
- Deeper Throat
- Conformity with European norms (CE)

Standardfunktionen

- Stahlrahmenkonstruktion
- NC-Steuereinheit für Rückanschlag und Messerspalteinstellung
- Hinteranschlagssystem mit Kugelumlaufspindeln
- Einstellbare Hublänge
- Hydraulische Klemmsystem
- Fusspedal-Steuerung für einfache und wiederholte Zyklen
- Winkellehre
- Schieball Pre Support-Plattform
- Beleuchtung
- Sicherheit Fingerschutz und seitliche Halsschutz
- Scherenmesser mit vier Schneidkanten oben und unten
- Bedienfeld mit allen Tastenfeldern auf Panel
- Fusspedal mit Not-Aus

Optional Merkmale

- Winkelmesser
- Rückwärtige Sicherheit-Überwachung
- Lichtschranke
- Tiefere Ausladung
- Konformität mit europäischen Normen (CE)



Type HGM 4-2000		4x2500	6x2500	4x3100	6x3100	4x4100	8x3100	10x3100	12x3100	8x4100	10x4100	12x4100
Cutting Thickness /Blechdicke	mm	2600	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100
Cutting length /Schnittlänge	mm	2600	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100
Stroke per Min/Hubzahl	mm	2050	2250	2250	2250	2550	2550	2550	3100	3100	3100	3100
Cutting angle /Schnittwinkel	mm	140	140	160	180	200	200	250	160	180	200	250
Clamping cylinders /Spannzylinder	mm	300	300	300	300	300	300	300	300	350	350	350
Length/Länge	mm	3720	4450	4450	4470	4480	4500	4500	5350	5370	5380	5400
Height/Höhe	mm	2200	2420	2420	2610	2700	2730	2870	2600	2720	2880	3010
Depth/Breite	mm	2000	2200	2200	2200	2200	2000	2200	2400	2400	2400	2400
Motor power/Motorleistung	kW	5,5	11	11	15	18,5	15	18,5	18,5	15	18,5	22
Weight/Gewicht ca.	mm	4	7	8	8,5	9,5	10,5	13,5	10,5	11,5	13,5	15



Technical specifications can be modified without notice.

For machine requests without promecam extensions, daylight opening is reduced by 40 mm/50mm for bending purposes.

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Direct – Gear Motorised Guillotines / Motorische Tafelscheren

SRGM 1360-3060



Features

Welded steel construction

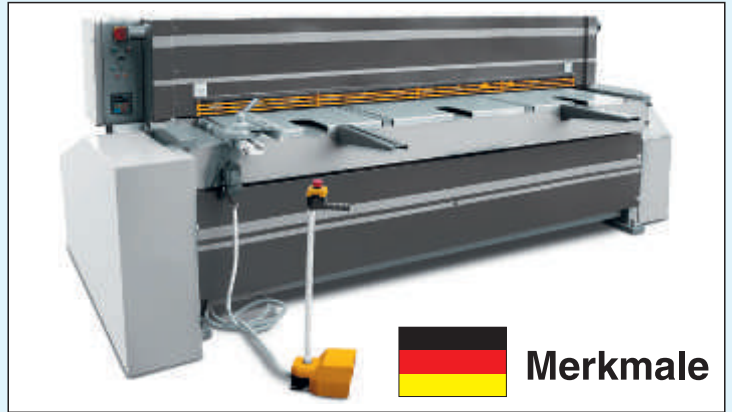
Two edged, high carbon/high chrome, cutting blades.
Cutting beam working in perfectly sliding, durable teflon slideways
Easy maintenance clutch system

Standard Features

- 3 mm Standard Equipments
 - Manuel Backgauge with 750 mm stroke
 - Squaring Arm with T slot, stoper and ruler
 - Foot Pedal
 - Front Sheet Holding Arms
 - Table with ball transfer
- 4 mm Standard Equipments
 - Motorised Backgauge with 750 mm Stroke
 - Squaring Arm with T slot, stoper and ruler
 - Foot Pedal
 - Front Sheet Holding Arms
 - Table with ball transfer

Optional Features

- 3 mm Optional Equipments
 - Cutting Unit Counter
 - Motorised Backgauge with 750 mm Stroke
 - Backgauge with NC Control
 - Protection Cages
- 4 mm Optional Equipments
 - Cutting Unit Counter
 - Backgauge with NC Control
 - Protection Cages
 - Pneumatic Thin Sheet Support System



Stahl-Schweißkonstruktion

Zwei eingefasste Schneidklingen, mit hohem Kohlenstoff / gehärtetem Chrom. Gleitender Schneidstrahl arbeitet perfekt, langlebige Teflon Gleitführungen mit einfacher Wartung

Standard Eigenschaften

- 3 mm Standard-Ausrüstungen
 - Manueller Hinteranschlag mit 750 mm Hub
 - Ausrichtungsarm mit T-Nuten, Stopper und Lineal
 - Fußpedal mit Not-Aus-Schalter
 - Frontblech Haltearme
 - Tisch mit Kugelrollen
- 4 mm Standard-Ausrüstungen
 - Motorhinteranschlag mit 750 mm Hub
 - Ausrichtungsarm mit T-Nuten, Stopper und Lineal
 - Fußpedal
 - Frontblech Haltearme
 - Tisch mit Kugelrollen

Optionale Eigenschaften

- 3 mm Optionale Ausstattung
 - Schneiden Unit Counter
 - Motorhinteranschlag mit 750 mm Hub
 - Hinteranschlag mit NC-Steuerung
 - Schutz Käfige
- 4 mm Optionale Ausstattung
 - Zähler
 - Hinteranschlag mit NC-Steuerung
 - Schutzgitter
 - Druckluftfeinblech Support System

Type HGM 4-4200		1360x3	1560x3	2060x3	2560x3	3060x3	2060x4	2560x4	3060x4
Cutting Thickness /Blechdicke	mm	3	3	3	3	3	4	4	4
Cutting length /Schnittlänge	mm	1360	1560	2060	2560	3060	2060	2560	3060
Cutting angle /Schnittwinkel	°	1°30'	1°30'	1°30'	1°30'	1°30'	1°30'	1°30'	1°30'
Stroke per Min/Hubzahl	#	37	37	37	37	37	44	44	44
Motor power/Motorleistung	kW	4	4	4	4	4	7,5	7,5	7,5
Depth/Breite	mm	1500	2250	2250	2250	2250	2250	2250	2250
Lenght/Länge	mm	2000	2600	3100	3600	2600	2600	3100	3600
Height/Höhe	mm	1200	1400	1400	1400	1400	1400	1400	1400
Weight/Gewicht ca.	mm	1600	1900	2050	2200	3000	3500	3500	4000



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WRM100-A

Sheet Metal Roller / Rundbiegemaschine



Features

- Cast Iron Main Frames
- Swing out open able Top Roll (Drop end)
- Conical Bending, Pre-Bending available
- Wire bending grooves
- Mobile Control Panel (SMSM Types)
- Foot pedal
- Main motor with Brake system (SMSM Types)
- SAE 1050 quality certified Steel Rolls with high tensile strength



Merkmale

- Gehärtete Walzen, auch für die Bearbeitung von VA-Stahl geeignet
- Verstellbare Unter- und Hinterwalze
- Ausschwenkbare Oberwalze mit Exzenterverschluss
- Lieferung mit Konischbiegeeinrichtung
- Drahtbiegerillen
- Fußschalter
- Bremsmotor
- Handzustellung der Hinterwalze



Type		HGM1050	HGM1280	SHGM1280	SHGM1580	SHGM2080
Working Length/Arbeitslänge	mm	1050	1280	1280	1580	2080
Bending Capacity/Blechstärke (max.)	mm	1	2,5	2,5	2,5	2
Roll Diameter/Walzendurchmesser	mm	56	100	100	100	100
Roll Speed R.P.M/Walzengeschwindig.	rpm	-	-	50	50	50
Motor Power/Motorleistung	kw	-	-	0,75	1,1	1,1
Width/Breite	mm	565	430	430	430	430
Length/Länge	mm	1720	1850	1770	2070	2570
Height/Höhe	mm	1090	1200	1130	1130	1130
Weight/Gewicht ca.	kg	225	500	610	680	750