



C-GENIUS

HYDRAULIC VARIABLE RAKE SERIES

The C-GENIUS series is the top of the line, incorporating all the latest technology to offer the highest level of functionality. With our hydraulic angle setting and user friendly control panel, you will be able to easily cut different material thicknesses. This series is well named, as only the most intelligent machines could provide speed, precision, accuracy and repeatability as our C-GENIUS shears.



OPTIONAL FEATURES

ANGLE GAUGE



While angle cutting, this device provides accurate and easy material handling

CONVEYOR SYSTEM



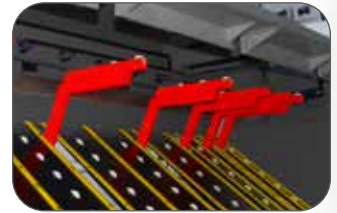
Cutting material is removed and carried out automatically to stacking area by conveyor belts

X TYPE SHEET SUPPORT SYSTEM



Pneumatic arms provide support and allow more precise cuts by keeping the material lifted throughout the cut

LEVER TYPE PNEUMATIC SHEET SUPPORT SYSTEM



Pneumatic arms supports and provides more precise cuts by avoiding hanging down the wide and thin sheets

C-GENIUS FEATURES



STANDARD

- Shear blades made from tough and wear-resistant alloyed material, suitable for all material
- Top blade: Four cutting edges
- Bottom blade: Four cutting edges
- Delem DAC-362T digital control unit for backgauge positioning, rake adjustment, and blade gap setting
- Portable foot pedal control for single and repetitive cutting cycles
- CNC controlled hydraulic blade gap adjustment system
- CNC controlled cutting angle adjustment system
- 40" travel ballscrew backgauge with swing up backstop at full extension
- Front support arms in 40" length with T-slot, ruler and flip stop
- Squaring arm
- Scales with metric and inches
- Cutting line illumination and shadow line
- Digital stroke counter
- Pendant arm
- Work table with filler plates, ball transfers, and hand slots
- Emergency stop buttons on the pendant and on the main frame
- Swing up backgauge
- Central lubrication system
- Finger guard and side throat guards
- Rear sliding plates
- Front sliding plates with ball bearings on the table
- 14" throat depth

OPTIONAL

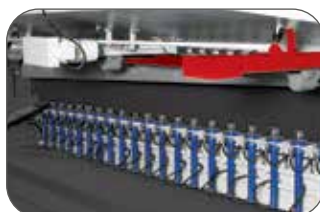
- Siemens OP7 S7-200
- Cybelec DNC 60
- Servo driven backgauge movement
- Automatic "swing-up" backgauge mechanism for shearing longer pieces than maximum backgauge length
- Pneumatic rear support systems for thin sheets
 - Lever type pneumatic sheet support system
 - Monoblock type pneumatic sheet support system
 - X type pneumatic sheet support system
- Anti-twist system
- Long and powered squaring arm with ruler
- 20" and over throat depth
- Front and rear sheet conveyor and stacking systems
- Oil cooling or heating equipment
- Squaring arm and front arm length other than standard
- Laser cutting line
- Sliding support arms
- Finger guard curtains
- Conveyor
- Scrap separator
- Stacker systems
- X1, X2 adjustable angled backgauge system
- Blades for stainless steel cutting
- Stroke per minutes - increased life
- Extended backgauge stroke
- T-slotted front support arms with scale and flip-stop
- Angle gauge
- 40" lift-up front finger guard with electrically interlocked safety switch.
- Hold down pads
- Rear safety guarding
- Adjustable height suspension control unit arm

SCRAP SEPARATOR



Separates scraps through the cutting process to save time from separating material waste

ANTI-TWIST SYSTEM



Anti-Twist system prevents cutting sheet material from twisting in narrow and strip cuttings by holding straight during the cutting process against blade movements.



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C-GENIUS SERIES	CUTTING LENGTH	CAPACITIES (TENSILE STRENGTH) ≤ 65	CAPACITIES (TENSILE STRENGTH) ≤ 100	CUTTING ANGLE	STROKES PER MINUTE - FULL CAPACITY	NUMBER OF HOLD DOWNS	HOLD DOWN TONNAGE	MAIN MOTOR	BACKGAUGE MOTOR	BACKGAUGE STROKE	BACKGAUGE SPEED	OIL CAPACITY
	A	KSI	KSI	Prog.	Prog.	QTY				Prog.	Prog.	
	Feet-Inch	Inch	Inch	Degree	1/min	Pcs.	Ton	HP	HP	Inch	In/sec	Gal
C-GENIUS 10-250	10' 2"	.250"	.160"	0.5°-1.5°	20-32	14	13	15	1	39"	4.33"	40
C-GENIUS 12-250	12' 2"	.250"	.160"	0.5°-1.5°	8-14	18	17	15	1	39"	4.33"	40
C-GENIUS 20-250	20'	.250"	.160"	0.5°-1.5°	9-14	26	22	30	1.5	39"	4.33"	69
C-GENIUS 10-375	10' 2"	.375"	.250"	0.5°-2.0°	16-25	14	26	30	1.5	39"	4.33"	69
C-GENIUS 12-375	12' 2"	.375"	.250"	0.5°-2.0°	7-12	18	31	30	1.5	39"	4.33"	69
C-GENIUS 20-375	20'	.375"	.250"	0.5°-2.0°	6-10	26	49	30	1.5	39"	4.33"	66
C-GENIUS 10-500	10' 2"	.500"	.320"	0.5°-2.0°	12-18	14	34	30	1.5	39"	4.33"	82
C-GENIUS 12-500	12' 2"	.500"	.320"	0.5°-2.0°	5-9	18	44	30	1.5	39"	4.33"	82
C-GENIUS 20-500	20'	.500"	.320"	0.5°-2.0°	9-14	26	66	30	1.5	39"	4.33"	82
C-GENIUS 10-625	10' 2"	.625"	.400"	0.5°-2.5°	12-18	14	46	40	1.5	39"	4.33"	132
C-GENIUS 12-625	12' 2"	.625"	.400"	0.5°-2.5°	6-10	18	57	40	1.5	39"	4.33"	132
C-GENIUS 12-625	20'	.625"	.400"	0.5°-2.5°	7-14	26	84	40	1.5	39"	4.33"	132
C-GENIUS 10-750	10' 2"	.750"	.500"	0.5°-2.5°	9-14	14	60	50	1.5	39"	4.33"	132
C-GENIUS 12-750	12' 2"	.750"	.500"	0.5°-2.5°	6-9	18	74	50	1.5	39"	4.33"	132
C-GENIUS 12-750	20'	.750"	.500"	0.5°-2.5°	6-10	26	106	50	1.5	39"	4.33"	132
C-GENIUS 10-1000	10' 2"	1.00"	.59"	0.5°-2.5°	6-10	20	84	60	1.5	39"	4.33"	211
C-GENIUS 12-1000	12' 2"	1.00"	.59"	0.5°-2.5°	5-9	25	97	60	1.5	39"	4.33"	211
C-GENIUS 12-1000	20'	.100"	.59"	0.5°-2.5°	8-14	36	136	60	1.5	39"	4.33"	211

Note: Most stainless steels have tensile strength of 90 KSI

Custom capacities and lengths readily available

Due to ongoing product development, specifications may change at any time



C-GENIUS SERIES	BLADE GAP ADJUSTMENT	NUMBER OF SHEET SUPPORT ARMS	HYDRAULIC TANK CAPACITY	TABLE WIDTH	THROAT DEPTH		OVERALL DEPTH WITH STANDARD SQUARING ARM	TABLE HEIGHT	TRANSPORT DEPTH	OVERALL WIDTH	OVERALL HEIGHT	WEIGHT
	Prog.			B	C		D	E	F	L	K	
	Inch	Pcs.	Gal	Inch	Inch	Ops. (in.)	Inch	Inch	Inch	Inch	Inch	Lbs
C-GENIUS 10-250	.002-.03"	2	63	138"	14"	20"	114"	35"	87"	196"	88"	15,984
C-GENIUS 12-250	.002-.03"	3	95	177"	14"	20"	114"	37"	87"	236"	91"	23,038
C-GENIUS 20-250	.002-.03"	5	95	262"	14"	20"	125"	39"	90"	325"	107"	58,235
C-GENIUS 10-375	.002-.05"	2	95	143"	14"	20"	118"	36"	89"	201"	89"	22,553
C-GENIUS 12-375	.002-.05"	3	95	183"	14"	20"	124"	39"	89"	240"	97"	33,290
C-GENIUS 20-375	.002-.05"	5	106	263"	14"	20"	124"	43"	90"	326"	107"	63,052
C-GENIUS 10-500	.002-.06"	2	95	145"	14"	20"	122"	35"	91"	201"	95"	27,889
C-GENIUS 12-500	.002-.05"	3	106	184"	14"	20"	128"	39"	92"	241"	102"	40,675
C-GENIUS 20-500	.002-.05"	5	106	265"	14"	20"	120"	43"	92"	329"	111"	73,414
C-GENIUS 10-625	.002-.08"	2	106	148"	14"	20"	128"	35"	92"	205"	97"	36,376
C-GENIUS 12-625	.002-.08"	3	106	187"	14"	20"	128"	39"	92"	245"	106"	51,147
C-GENIUS 12-625	.002-.08"	5	106	269"	14"	20"	128"	43"	93"	331"	118"	90,610
C-GENIUS 10-750	.002-.09"	2	106	150"	14"	20"	128"	35"	93"	206"	101"	41,667
C-GENIUS 12-750	.002-.09"	3	106	189"	14"	20"	129"	39"	93"	245"	106"	58,863
C-GENIUS 12-750	.002-.09"	5	106	273"	14"	20"	126"	43"	94"	331"	123"	111,554
C-GENIUS 10-1000	.002-.12"	2	159	153"	14"	20"	128"	39"	96"	207"	114"	60,848
C-GENIUS 12-1000	.002-.12"	3	159	192"	14"	20"	128"	43"	96"	256"	127"	83,114
C-GENIUS 12-1000	.002-.12"	5	159	276"	14"	20"	125"	47"	98"	338"	134"	151,017

Note: Most stainless steels have tensile strength of 90 KSI

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