

iShear C Series

CNC VARIABLE RAKE ANGE HYDRAULIC GUILLOTINE SHEARS



General Features

- ▶ Machine body and upper beam's made of steel constructions, has been designed according minimum stretch and optimum resistance criteria
- ▶ Body, as the manufacture of precise CNC machining center for provide maximum cutting quality and accuracy.
- ▶ Body, as the manufacture of precise CNC machining center is a single operation
- ▶ Designed Heavy –Duty rigid body concept in order to prevent deflections
- ▶ Back gauge range (stroke) 1000 mm.
- ▶ .Back gauge accuracy performed with linear ball shaft, without backlash guide
- ▶ Programmable back gauge has 0,1 mm positioning tolerance and retract features .
- ▶ Automatic swing –up feature of back gauge after 1000mm to feed longer sheets easily
- ▶ C series CNC Hydraulic automatic cutting angle operated shears, provides high cutting quality in the widest range of materials type and sheets thickness.
- ▶ C Series shears automatically calculate and apply; cutting angle, blade gap adjustment, stroke of the cutting length, back gauge positioning according material type and thickness with CNC controller and servo hydraulic valve.
- ▶ Cutting angle automatically adjusted according sheet thickness, this features provide high and precise cutting quality and reduced twisting or torsion effects of thin and narrow parts also .
- ▶ When cutting thin and short parts, Stroke reduced, performed number of stroke, speed increase .
- ▶ Prevent user errors, increases blade life
- ▶ Top beam precise movement provided with hardened slide ways and pulley

▶ Controller



▶ Cybelec DNC 60



▶ MVD M25



▶ Delem DAC 360



▶ Cybelec Touch 6

Standard Equipments

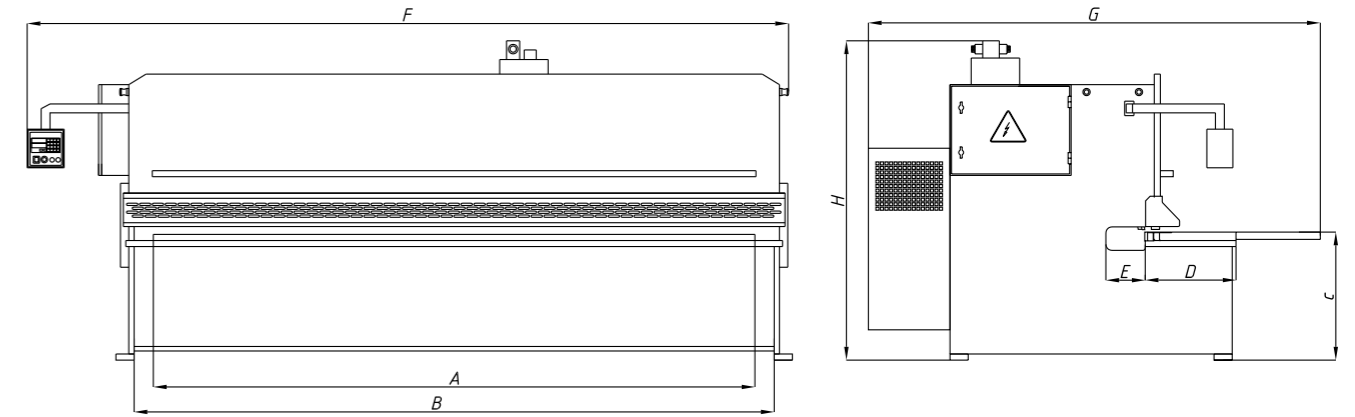
- ▶ CNC controller
- ▶ Easily adjustable with scale blade gap setting system for precise cutting and long life blade's
- ▶ Movable controller arm
- ▶ Roller bearings on the table to help feeding sheets to the machine easily
- ▶ Welded monoblock heavy steel frame using rigid structural steel produced with modern manufactured methods
- ▶ Automatic, CNC controlled motorized back gauge 1000 mm range (stroke) with ball shaft and guide system .
- ▶ Programmable backgauge, with retract and swing up features for longer sheets
- ▶ Prevents scratching of the sheet with ball on the table
- ▶ Pressure adjustable Hydraulic sheet holder system, protect sheet parts when cutting process
- ▶ Cylinders, processed as precise from solid full material and made honed .
- ▶ Pistons, processed from forged steel, hardened, grinding is done, and chrome-coated.
- ▶ Automatic cutting angle adjustment operation
- ▶ Automatic blade gap adjustment operation
- ▶ Automatic stroke adjustment operation
- ▶ Adjustable bottom blade holder provide high precise robust set for long life blade
- ▶ Adjustable cutting length on the control panel, increase speed number of stroke for short parts
- ▶ High Quality alloy material bottom and upper blade for long life
- ▶ Bottom Blade 4 edges, Upper Blade 4 edges
- ▶ No maintenance dry ball joint system
- ▶ Hoerbiger or Bosch Rexroth low maintenance hydraulic block
- ▶ Schneider-Telemecanique electrical components, with ventilations electrical cabinet
- ▶ Foot pedal stand suitable for serial cutting operation and setting blade adjustment
- ▶ Front support arms 1000mm, with scale and flip over stops in T slot
- ▶ Back and side protection covers
- ▶ CE conformity rear light beams
- ▶ Shadow, illuminations cutting line
- ▶ Emergency stop button
- ▶ Oil tank level indicator
- ▶ Stroke hits Counter
- ▶ Complete electrical switch board and control panel for 400V AC 3 Phase 50Hz

Equipments



Optional Equipments

- ▶ Pneumatic sheet support system
- ▶ Front Finger Protection Open able full length
- ▶ Adjustable Angular Gauge for cutting angle parts 0-180°
- ▶ Longer Front Support Arms
- ▶ Special Throat 500mm
- ▶ Front finger protection light barriers with CE conformity
- ▶ Special Blade for kind of cutting material
- ▶ 220-240V 60hz operating voltage
- ▶ 440-480V 60hz operating voltage
- ▶ 220-240V 60Hz and 440V-480V 60 Hz double operating voltage (by preliminary preparation)



Technical Table

iShear C series	C06-3000	C08-3000	C10-3000	C13-3000	C16-3000	C20-3000	C06-4000	C08-4000	C10-4000	C13-4000	C16-4000	C20-4000	C10-6000	C13-6000	C016-6000	C20-6000		
Cutting capacity (450N/mm2)	6	8	10	13	16	20	6	8	10	13	16	20	10	13	16	20	mm.	
Cutting capacity (700N/mm2)	4	5	6	8	10	13	4	5	6	8	10	13	6	8	10	13	mm.	
Cutting length	A	3000	3000	3000	3000	3000	4000	4000	4000	4000	4000	4000	6050	6050	6050	6050	mm.	
Cutting angle		0,5-2	0,5-2,5	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	0,5-3	degree	
Hold Down Cylinder		12	12	14	14	17	14	17	17	17	17	18	18	26	26	26	Unit	
Speed Stroke per minute / High Speed		10/15	10/15	11/15	11/15	11/15	10/14	9/13	9/13	9/13	8/12	8/12	5/12	5/12	5/9	5/7	1/min	
Distance Between Columns	B	3450	3450	3470	3470	3500	3500	4460	4470	4470	4470	4500	4500	6470	6470	6650	mm.	
Table Height	C	775	855	855	855	855	870	830	850	900	900	900	900	1230	1240	1255	mm.	
Table Width	D	520	600	620	640	640	700	600	630	650	700	720	800	845	920	1100	mm.	
Throat Depth	E	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	mm.	
Backgauge Travel Distance Stroke		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	mm.	
Machine Length	F	3800	3850	4380	4400	4450	4500	5300	5350	5400	5400	5450	5500	8600	8600	8650	mm.	
Machine Height	H	2010	2170	2250	2450	2500	2700	2200	2350	2350	2530	2700	2850	3120	3150	3200	mm.	
Machine Width	G	2350	2650	2950	3050	3100	3150	2700	2850	2950	3050	3150	3250	3200	3200	3250	mm.	
Oil tank capacity		140	230	230	230	315	370	230	230	280	370	370	370	300	305	430	lt.	
Motor Power		11	18,5	18,5	22	30	30	11	15	22	22	30	30	30	30	37	Kw.	
Weight		6000	7500	9000	12000	16000	19000	10000	12000	14000	16500	21000	23000	27000	30000	40000	50000	Kg.
Technical specifications are subject to change without notice																		
Special capacity machines can be manufactured upon request																		

Special Applications



7100-13mm



6100-20mm



6100-6mm



3100-20mm