



# **iBend**

**PRESS BRAKE**



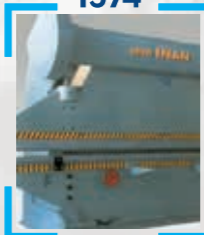
1950

We produced our first machine.



1971

We produced the first sheet metal working machine "Perforation Press".



1974

We started to produce "Heavy-duty Press Brakes and Guillotine Shears" and we had the reputation (distinction) of being the first Turkish manufacturer for heavy press brakes and shears as MVD brand.



1981

We moved to a new factory and added 4 roll bending machines and Expanded Metal presses to the production in the next year.



1994

We produced the first Tandem Press Brake in Turkey.



2001

We finalized the CE conformity procedures and had marked CE to MVD machines.



2003

We started manufacturing CNC Hydraulic Turret Punch machines.



2010

We started manufacturing Plasma Cutting Machines.



2011

We started manufacturing Fiber Laser Cutting Machines.



2015

We started manufacturing Hybrid Press Brake.



2017

We established the Research and Development Center certified by the Ministry of Industry and Technology.



2018

We started manufacturing Servo Press Brake.





iBend  
PRESS BRAKE

# iBend

## HYDRAULIC PRESS BRAKE

Quality and service support is accepted as principle. Designing and Manufacturing are based on reliability, durability and precision. Machines are easy to use and are built to be ready for user errors. Machines are designed and analyzed with 3-D computer programs, manufactured as welded steel construction, "stress relieved", precisely machined in moving column CNC machining centres, equipped with world-known equipments and presented to the customers use after quality control.



# A Series

ESA S530 CNC  
Control Unit 7" Color  
2D Graphic Screen



## Standard Features

1. Y1,Y2,X CNC 3 Axes
2. 210mm Stroke, 410mm Throat Depth
3. ESA S530 CNC Control Unit
4.  $\pm 0,03$ mm accuracy AC motorized with inverter, back gauge.
5. Manual Promecam punch tool holder
6. MVD special narrow bottom table (European type)
7. Standard punch tools ( H: 67, 85°, R:08 )
8. Standard die tools ( 60x60mm, 4 Vee V=16-22-35-50mm, 85°, H:60)
9. High quality and precision linear scales
10. LED illumination on RAM

## Optional Features

1. R axis back gauge
2. Sliding front sheet support arms
3. Wide bottom table for Multi Vee dies
4. Anti-deflection crowning with original Wila wedges
5. AKAS or DSP front laser safety systems
6. Rear Safety
7. Additional back gauge fingers

## MORE CNC CONTROLLER RECOMMENDATIONS

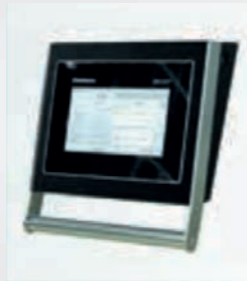
### ESA S630



10" Touch  
2D Graphic Screen  
With Offline PC  
Software

ESA 640 - 15", 2D  
ESA 650 - 15", 2D

### DELEM DA-53T



10" Touch  
Numerical /  
2D Screen  
With Offline PC  
Software

DELEM DA-58T - 15", 2D  
DELEM DA-66T - 17", 2D

### CYBELEC CybT8 PS



7" Touch  
Numerical /  
2D Screen  
With Offline PC  
Software

CYBELEC CybT12 - 12", 2D  
CYBELEC CybT15 - 15", 2D



**Standard**  
X axis back gauge



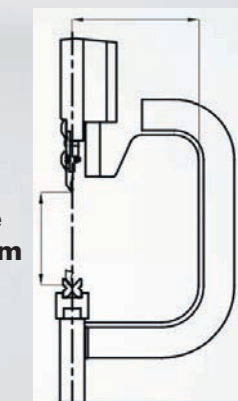
**Standard**  
Magnetic linear scales  
(0,005mm precision)

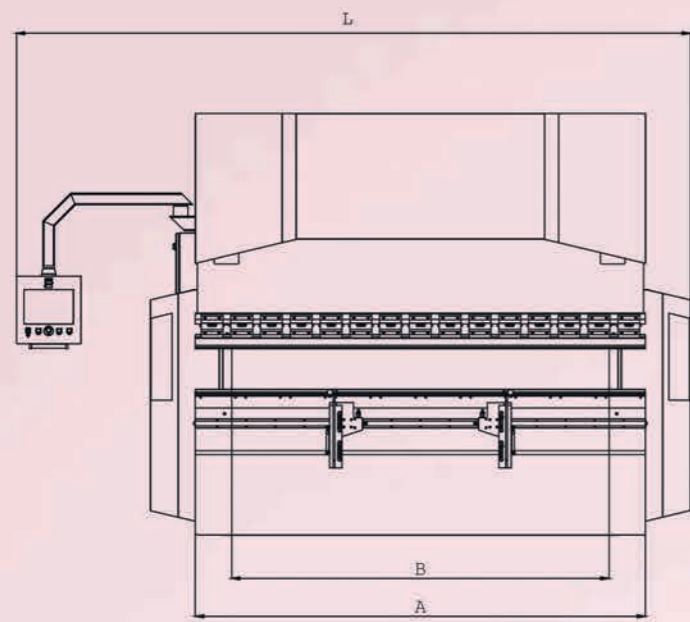


**Standard**  
Manual Promecam Punch  
tool holder

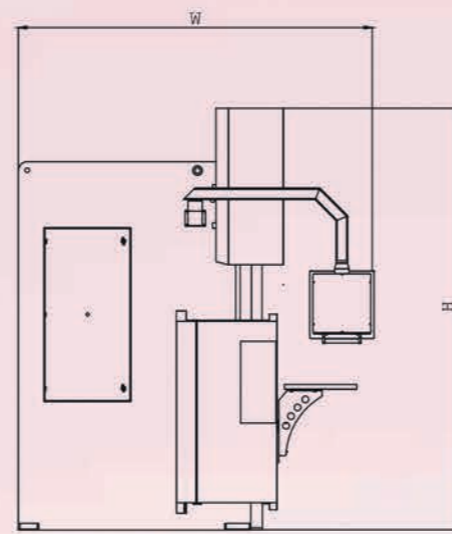
Throat  
410 mm

Stroke  
210 mm

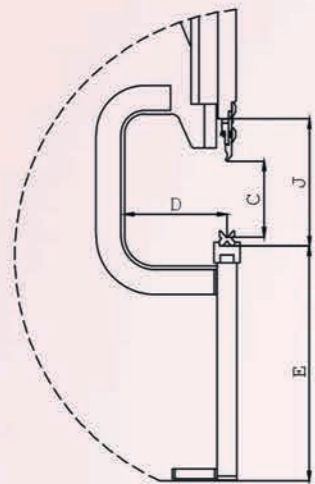




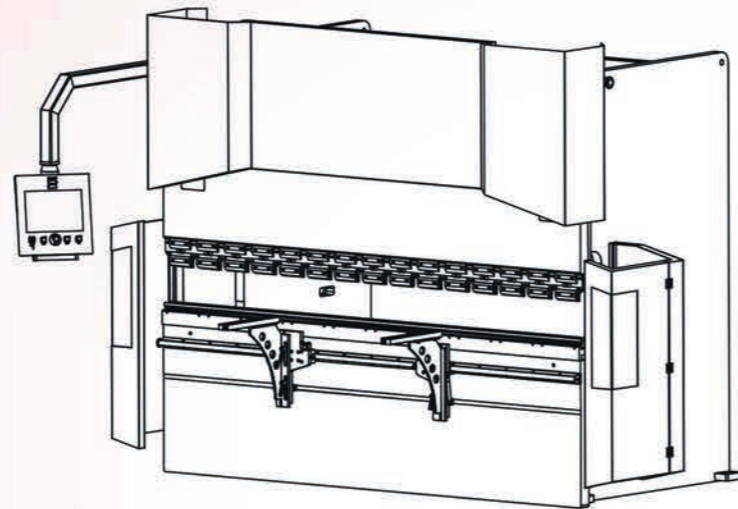
Front view



Side view



Work zone detail



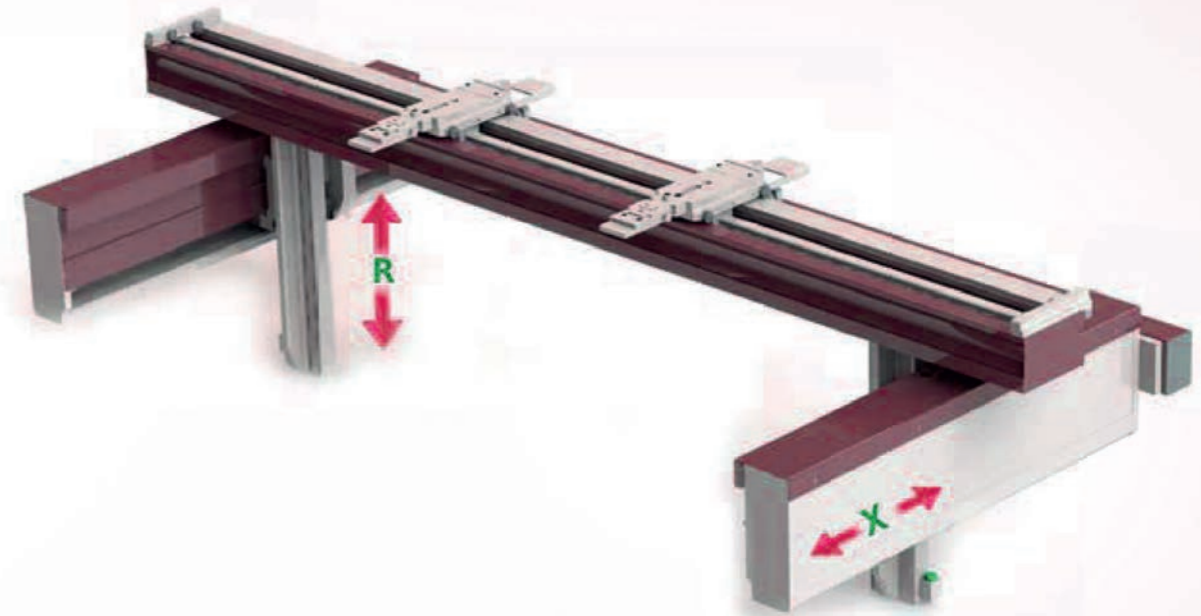
Perspective view

## A Series - Technical Specifications

Machine Type	A Bending Force	Bending Length	Distance between columns		Stroke	Daylight	Throat	Table Height	Machine Dimensions			Speed			Oil tank	Weight	Main motor
	Ton	A	B	C	J	D	E	Length x Width x Height (L x W x H)			Approach Speed	Return Speed	Bending Speed	Lt	kg	kW	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm/s	mm/s	mm/s				
A40	40	1250	1100	210	415	410	885	3060	2195	2730	150	120	10	95	3400	4	
A60	60	2100	1600	210	415	410	870	3660	2175	2820	160	135	10	170	4290	5,5	
	60	2600	2150	210	415	410	870	4210	2175	2820	160	135	10	170	4790	5,5	
A100	100	2600	2150	210	415	410	905	4220	2230	2855	200	135	10	170	6150	7,5	
	100	3100	2600	210	415	410	905	4670	2230	2855	200	135	10	180	6650	7,5	
A135	135	3100	2600	210	415	410	905	4690	2340	2795	210	130	10	180	7200	11	
	135	3700	3200	210	415	410	905	5290	2340	2850	210	130	10	180	9200	11	
	135	4100	3600	210	415	410	905	5590	2440	2950	210	130	10	180	9750	11	
A175	175	3100	2600	210	415	410	945	4705	2430	2840	180	130	10	180	8400	15	
	175	3700	3200	210	415	410	945	5305	2430	2840	180	130	10	180	9800	15	
	175	4100	3600	210	415	410	945	5600	2530	2950	180	130	10	180	10250	15	
A220	220	3100	2600	210	415	410	880	4720	2415	2805	180	140	10	290	10000	18,5	
	220	3700	3200	210	415	410	930	5320	2415	2805	180	140	10	290	11400	18,5	
	220	4100	3600	210	415	410	930	5620	2515	2905	180	140	10	290	11800	18,5	

\*For dimension details please look at left page.

\*\*Technical specifications may change without advance notice.



# B Series



ESA S630 CNC  
Control Unit 10"  
Touch 2D Graphic  
Screen

## Standard Features

1. Y1,Y2,X CNC 3 Axes
2. 260mm Stroke, 410mm Throat Depth
3. ESA S630 CNC Control Unit
4.  $\pm 0,03$ mm accuracy SERVO motorized back gauge X=750mm
5. Quick clamp Promecam punch tool holder
6. Sliding front sheet support arms
7. MVD special narrow bottom table (European type)
8. GIVI optic linear scales
9. Standard punch tools ( H: 67, 85°, R:08 )
10. Standard die tools ( 60x60mm, 4 Vee V=16-22-35-50mm, 85°, H:60)
11. LED illumination on RAM

## Optional Features

1. X to 2-4-6-8 axis back gauge options
2. Wide bottom table for Multi Vee dies.
3. Anti-deflection crowning with original Wila wedges
4. AKAS or DSP front laser safety systems
5. Rear Safety
6. Additional back gauge fingers

## MORE CNC CONTROLLER RECOMMENDATIONS

### ESA S640



15" Touch  
2D Graphic Screen  
With Offline PC  
Software

ESA 650 - 15", 2D  
ESA 660W - 19", 3D \*.dxf

### DELEM DA-58T



15" Multi Touch Color  
2D Graphic Screen  
With Offline PC  
Software

DELEM DA-53T- 10", Numerical / 2D  
DELEM DA-66T- 17", 2D

### CYBELEC CybT12 PSCybT8 PS



12" Touch  
2D Graphic Screen  
With Offline PC  
Software

CYBELEC CybT8- 7", Numerical / 2D  
CYBELEC CybT15- 15", 2D



**Standard**  
Front sheet  
support arms



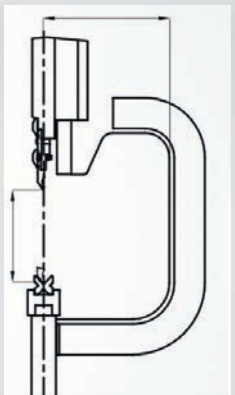
**Standard**  
Optic linear scales  
(0,005mm precision)

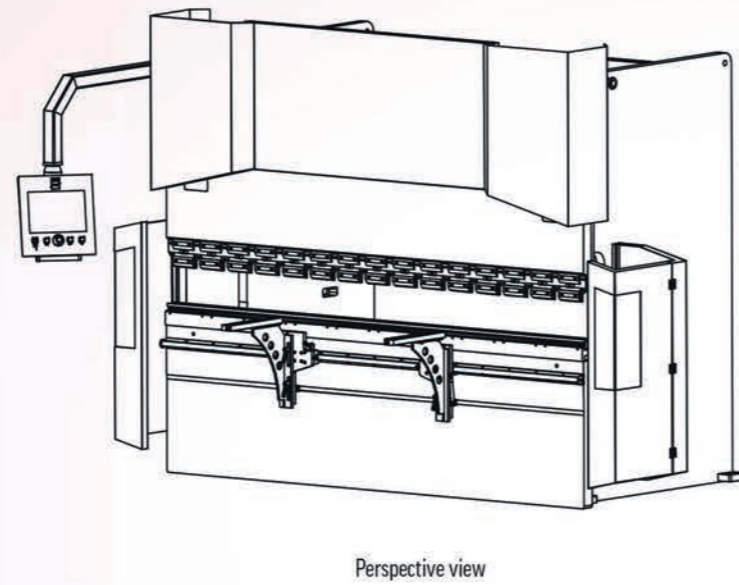
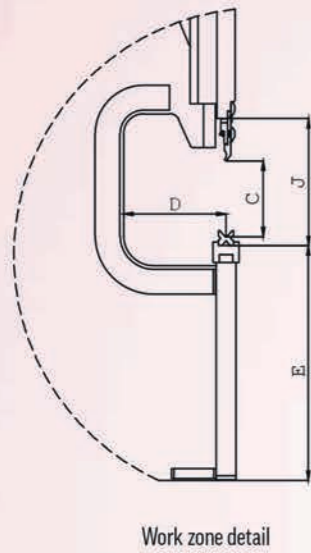
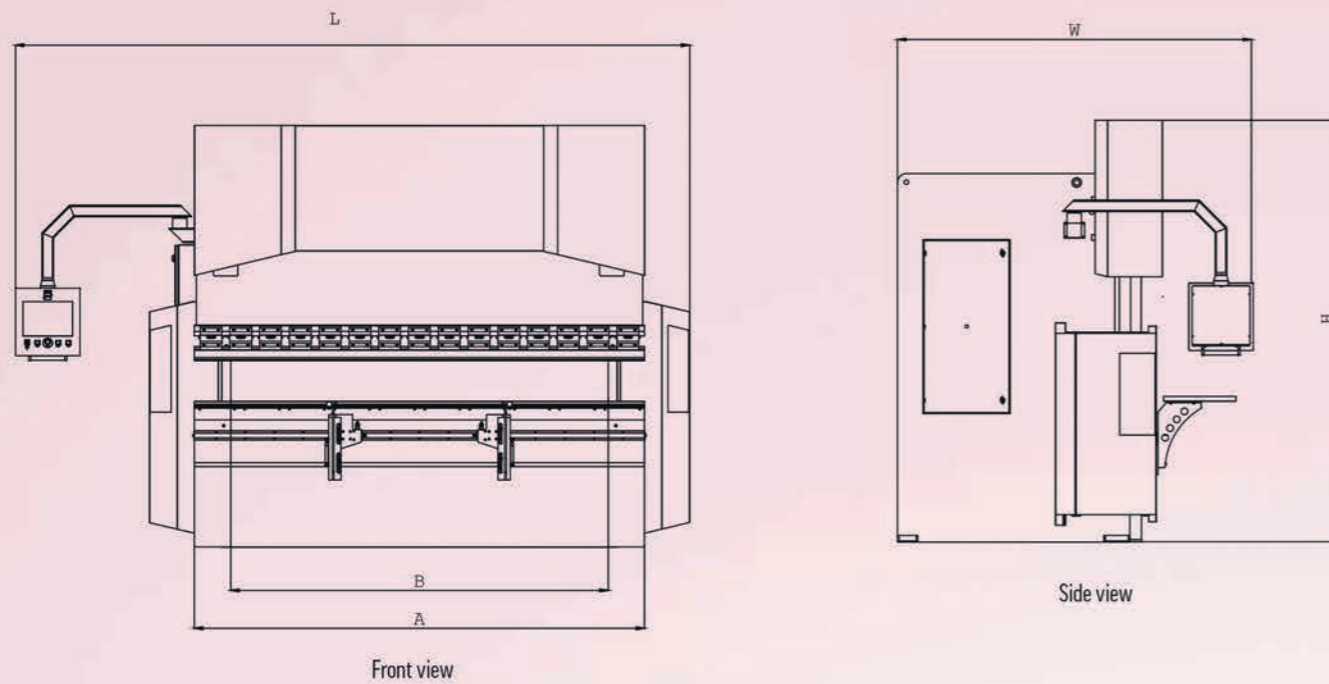


**Standard**  
Quick clamp Promecam  
Punch tool holder

**Throat  
410 mm**

**Stroke  
260 mm**

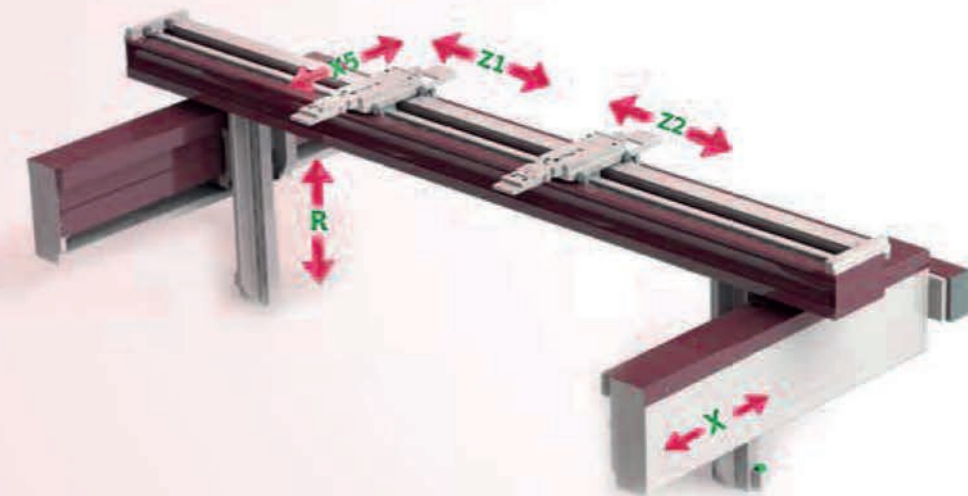




## B Series - Technical Specifications

Machine Type	Bending Force	Bending Length	Distance between columns	Stroke	Daylight	Throat	Table Height	Machine Dimensions			Speed			Oil tank	Weight	Main motor
	Ton	A	B	C	J	D	E	Length x Width x Height (L x W x H)			Approach Speed	Return Speed	Bending Speed	Lt	kg	kW
		mm	mm	mm	mm	mm	mm	mm			mm/s	mm/s	mm/s			
B40	40	1250	1100	260	465	410	880	3060	2080	2820	150	120	10	95	3500	4
B60	60	2100	1600	260	465	410	870	3660	2175	2905	160	135	10	170	4560	5,5
	60	2600	2150	260	465	410	890	4210	2175	2905	160	135	10	170	5010	5,5
B100	100	2600	2150	260	465	410	885	4220	2230	2950	200	135	10	170	6430	7,5
	100	3100	2600	260	465	410	905	4670	2230	2950	200	135	10	180	6780	7,5
B135	135	3100	2600	260	465	410	940	4690	2340	2980	210	130	10	180	7750	11
	135	3700	3200	260	465	410	955	5290	2340	2995	210	130	10	180	9400	11
B175	175	3100	2600	260	465	410	955	4700	2430	2975	180	130	10	180	8850	15
	175	3700	3200	260	465	410	955	5300	2430	2990	180	130	10	180	10500	15
B220	220	3100	2600	260	465	410	955	4720	2430	2998	180	140	10	290	10400	18,5
	220	3700	3200	260	465	410	970	5320	2430	3045	180	140	10	290	11950	18,5
B270	270	4100	3600	260	465	410	970	5620	2530	3035	180	140	10	290	12750	18,5
	270	3100	2600	260	465	410	960	4840	2500	3040	150	120	10	290	12300	22
B320	320	3700	3200	260	465	410	960	5440	2500	3040	150	120	10	290	13500	22
	320	4100	3600	260	465	410	960	5640	2500	3040	150	120	10	290	14300	22
B320	320	3100	2600	260	485	410	955	4860	2490	3080	150	110	10	290	13700	22
	320	3700	3200	260	485	410	955	5460	2490	3085	150	110	10	290	14500	22
	320	4100	3600	260	485	410	955	5660	2490	3085	150	110	10	290	15300	22
	320	5100	4200	260	485	410	1030	6660	2570	3210	150	110	10	290	20500	22
	320	6100	5100	260	485	410	1060	7560	2570	3440	150	110	10	290	25000	22

\*For dimension details please look at left page.  
 \*\*Technical specifications may change without advance notice.



# C Series



ESA S640  
CNC Control Unit  
15" Touch 2D  
Graphic Screen

## Standard Features

1. Y1,Y2,X,R CNC 4 Axes
2. 310mm Stroke, 410mm Throat Depth
3. ESA S640 CNC Control Unit
4.  $\pm 0,03$  mm accuracy SERVO motorized back gauge. X=750mm, R=250mm
5. Quick clamp Promecam punch tool holder
6. Sliding front sheet support arms
7. Manuel Anti-deflection crowning with original Wila wedges.
8. MVD special narrow bottom table (European type)
9. GIVI optic linear scales
10. Standard punch tools ( H: 67, 85°, R:08 )
11. Standard die tools ( 60x60mm, 4 Vee V=16-22-35-50mm, 85°, H:60)
12. LED illumination on RAM

## Optional Features

1. X+R to 4-6-8 axis back gauge options
2. Rolleri Rol200 hydraulic punch clamping
3. Wila hydraulic clamping
4. Wide bottom table for Multi Vee dies.
5. Motorized Anti-deflection crowning with original Wila wedges
6. 1.000mm X axis travel
7. AKAS or DSP front laser safety systems
8. Rear Safety
9. Additional back gauge fingers

## MORE CNC CONTROLLER RECOMMENDATIONS

### ESA S650



15" Touch  
2D Graphic  
Screen  
With Offline PC  
Software

ESA 660W - 19" , 3D \*.dxf

### DELEM DA-66T



17" Multi Touch  
Color 2D Gra-  
phic Screen  
With Offline PC  
Software

DELEM DA-69T- 17" , 3D\*.dxf

### CYBELEC CybT15PS



15" Touch  
2D Graphic  
Screen  
With Offline PC  
Software

CYBELEC CybT12- 12 " , 2D



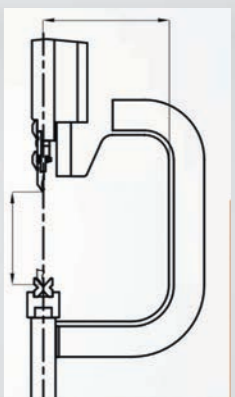
**Standard**  
X+R Axes Back Gauge



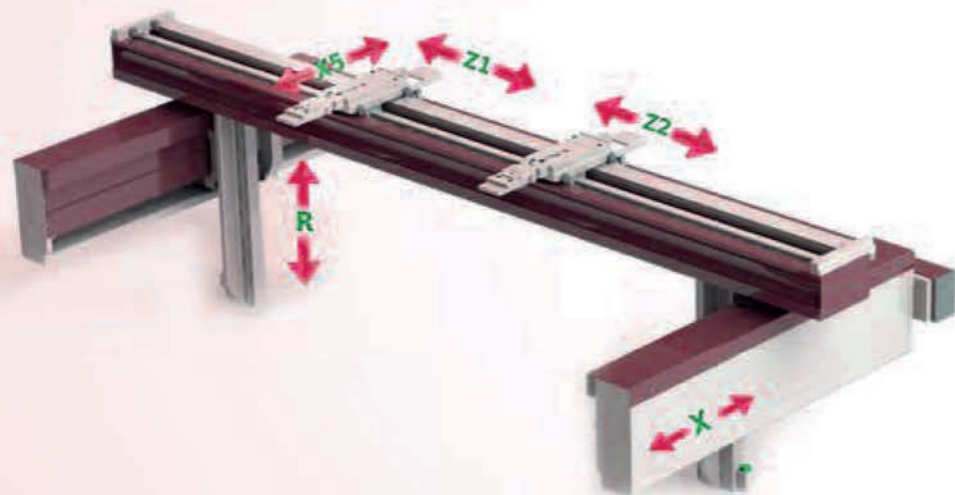
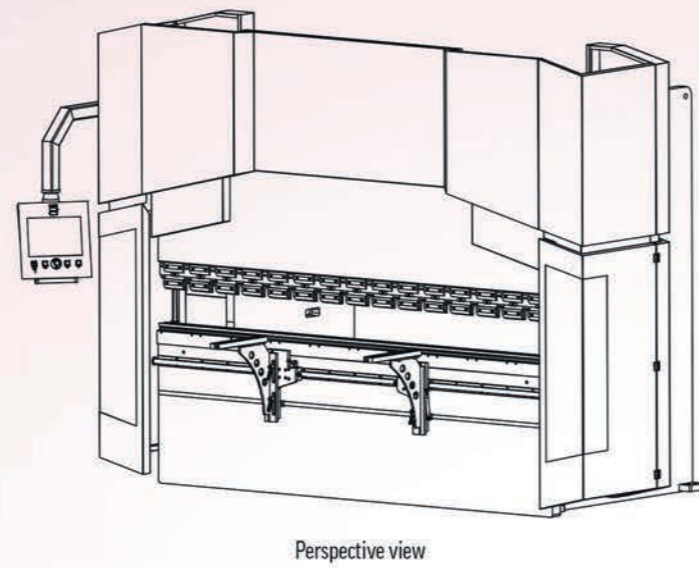
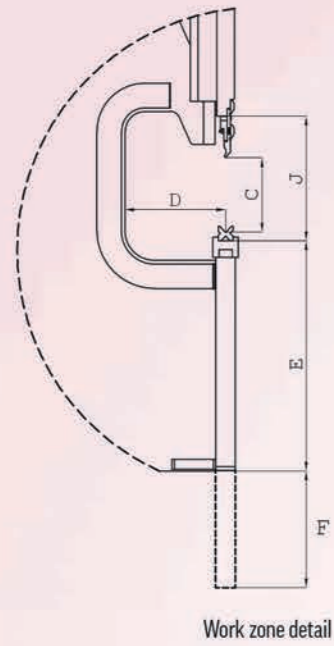
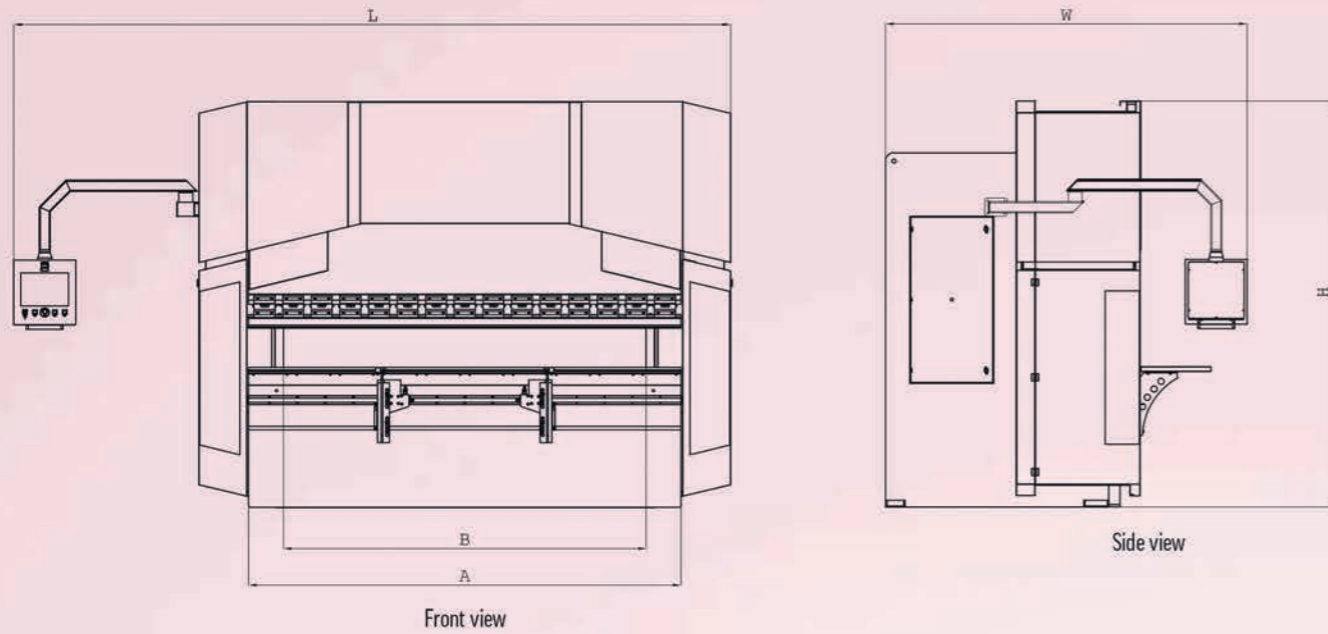
**Standard**  
Manual Crowning (Original  
WILA Wedges)

Throat  
410 mm

Stroke  
310 mm





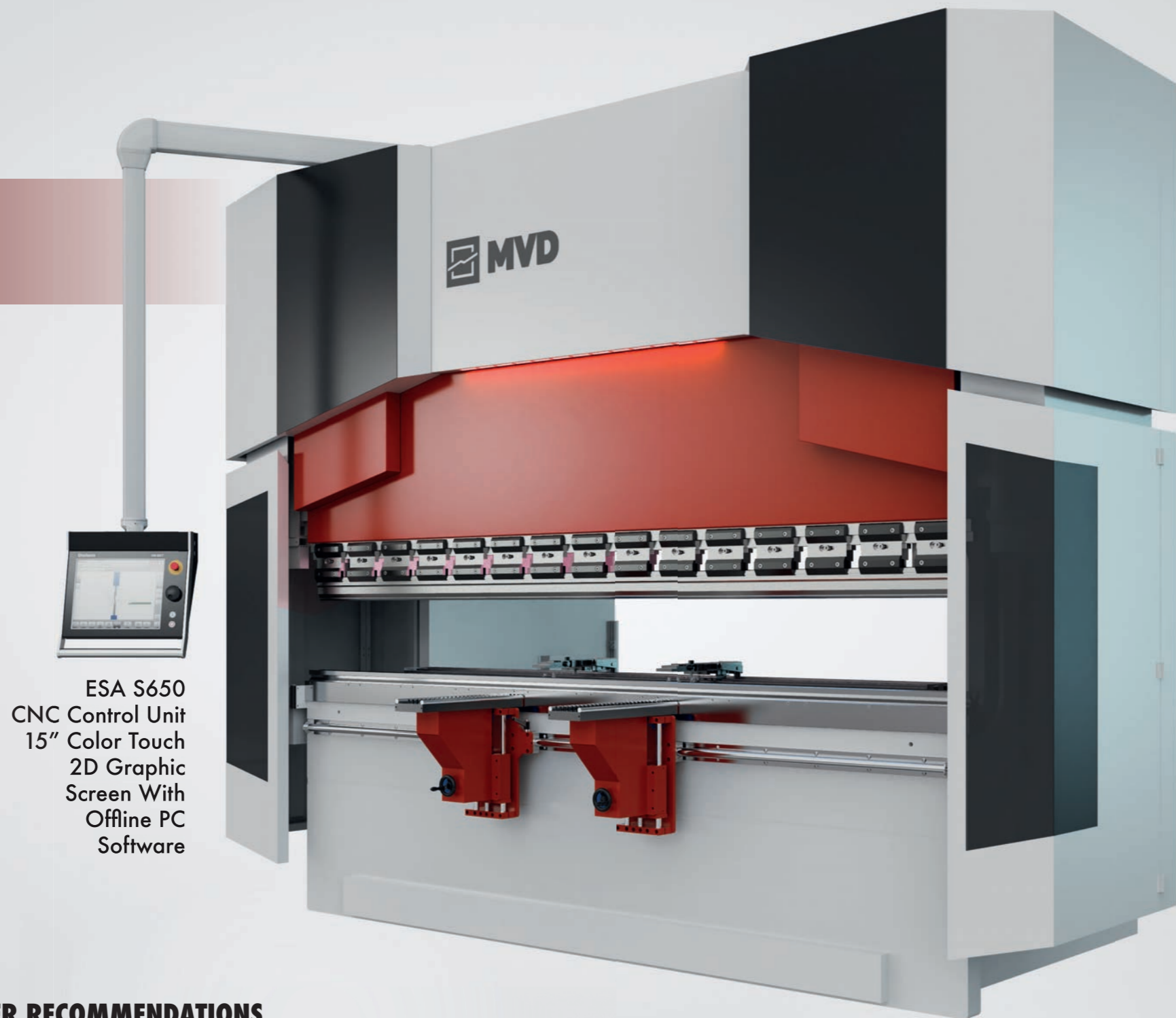


## C Series - Technical Specifications

Machine Type	Bending Force	Bending Length	Distance between columns	Stroke	Day light	Throat	Table Height	PIT	Machine Dimensions			Speed			Oil tank	Weight	Main motor
	Ton	A	B	C	J	D	E	F	Length x Width x Height (L x W x H)			Approach Speed	Return Speed	Bending Speed	Lt	kg	kW
		mm	mm	mm	mm	mm	mm	mm	mm	mm			mm/s	mm/s	mm/s		
C100	100	2600	2150	310	515	410	890	-	4220	2230	2950	200	135	10	180	6950	7,5
	100	3100	2600	310	515	410	905	-	4670	2230	2950	200	135	10	180	7300	7,5
C135	135	3100	2600	310	515	410	935	-	5150	2650	2950	210	130	10	180	8350	11
	135	3700	3200	310	515	410	945	-	5750	2650	2950	210	130	10	180	10000	11
C175	175	3100	2600	310	515	410	935	-	5150	2650	2950	180	130	10	180	9700	15
	175	3700	3200	310	515	410	945	-	5750	2650	2950	180	130	10	180	11350	15
C220	220	3100	2600	310	515	410	940	-	5180	2650	2950	180	140	10	290	11300	18,5
	220	3700	3200	310	515	410	965	-	5780	2650	3040	180	140	10	290	12850	18,5
C270	270	3100	2600	310	515	410	950	-	5200	2650	3040	150	120	10	290	13300	22
	270	3700	3200	310	515	410	955	-	5800	2650	3040	150	120	10	290	14500	22
C320	320	3100	2600	310	535	410	955	-	5300	2655	3070	150	110	10	290	14700	22
	320	3700	3200	310	535	410	955	-	5750	2655	3080	150	110	10	290	15500	22
C400	400	3100	2600	310	535	510	1015	-	5150	2685	3400	100	80	8	400	18700	30
	400	3700	3200	310	535	510	975	-	5750	2685	3400	100	80	8	400	20700	30
C500	500	3100	2600	310	535	510	1035	-	5750	2735	3400	80	70	8	500	24100	37
	500	3700	3200	310	535	510	1025	-	6150	2740	3400	80	70	8	500	26300	37

\*For dimension details please look at left page.  
 \*\*Technical specifications may change without advance notice.

# D Series



ESA S650  
CNC Control Unit  
15" Color Touch  
2D Graphic  
Screen With  
Offline PC  
Software

## Standard Features

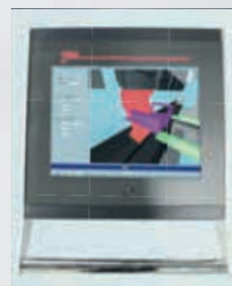
1. Y1,Y2,X,R CNC 4 Axes
2. 310mm Stroke, 410mm Throat Depth
3. ESA S640 CNC Control Unit
4.  $\pm 0,03$  mm accuracy SERVO motorized back gauge. X=750mm, R=250mm
5. Quick clamp Promecam punch tool holder
6. Sliding front sheet support arms
7. Manuel Anti-deflection crowning with original Wila wedges.
8. MVD special narrow bottom table (European type)
9. GIVI optic linear scales
10. Standard punch tools ( H: 67, 85°, R:08 )
11. Standard die tools ( 60x60mm, 4 Vee V=16-22-35-50mm, 85°, H:60)
12. LED illumination on RAM

## Optional Features

1. X+R to 4-6-8 axis back gauge options
2. Rolleri Rol200 hydraulic punch clamping
3. Wila hydraulic clamping
4. Wide bottom table for Multi Vee dies.
5. Motorized Anti-deflection crowning with original Wila wedges
6. 1.000mm X axis travel
7. AKAS or DSP front laser safety systems
8. Rear Safety
9. Additional back gauge fingers

## MORE CNC CONTROLLER RECOMMENDATIONS

### ESA S650



19" Touch  
3D Graphic  
Screen  
\*.dxf import/  
export  
With Offline PC  
Software

ESA S675W - 21", 3D \*.dxf

### DELEM DA-66T



17" Multi Touch  
3D Graphic  
Screen \*.dxf im-  
port/export  
With 3D Offline  
PC Software

DELEM DA-58T- 15" 2D  
DELEM DA-66T- 17" 2D

### CYBELEC Visitouch 19MX



19" Touch  
3D Graphic Screen  
\*.dxf import/export  
With Offline PC Soft-  
ware

CYBELEC CybT15PS- 15" 2D



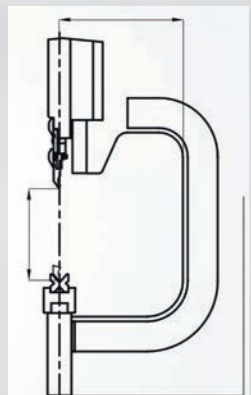
**Standard**  
Motorized Crowning  
(Original Wila wedges)

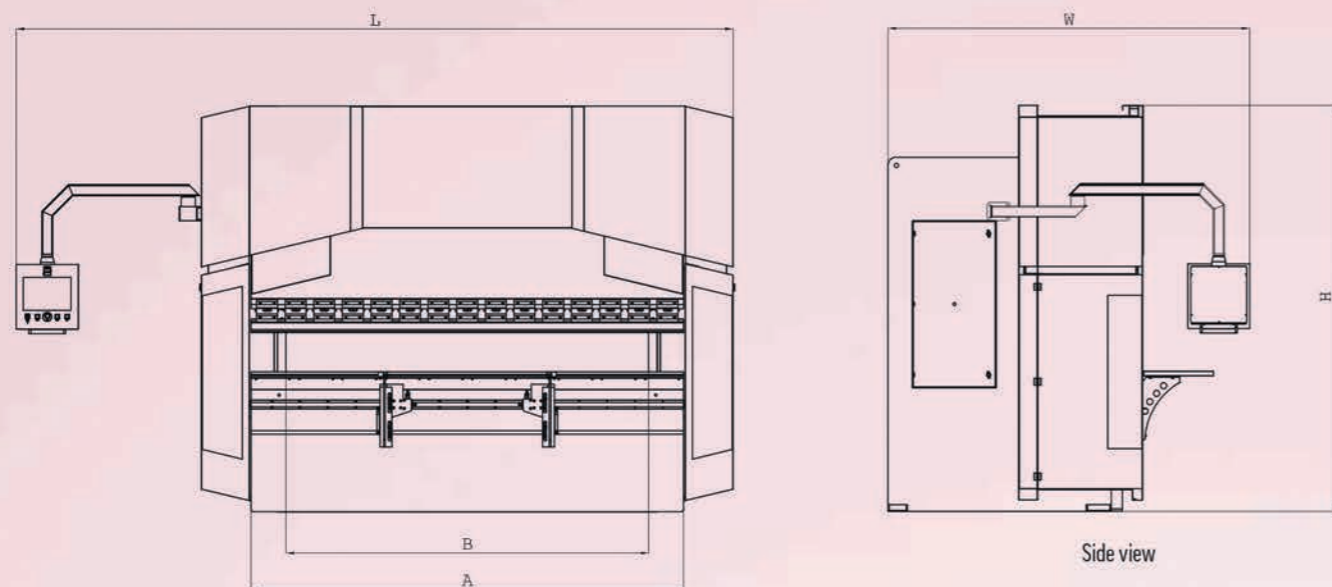


**Standard**  
Sliding front support arms  
With hand wheel adjust-  
ment

Throat  
510 mm

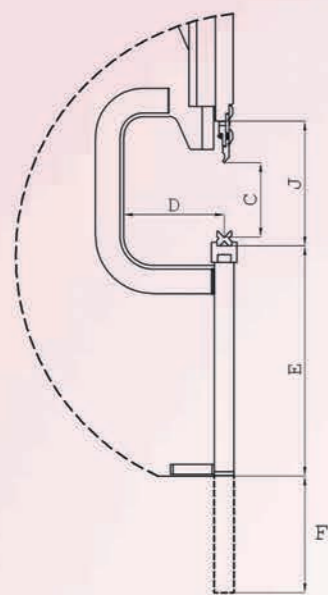
Stroke  
410 mm



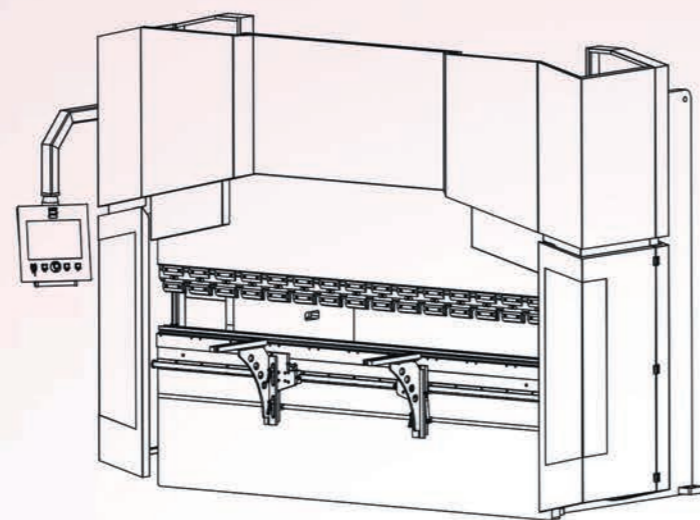


Front view

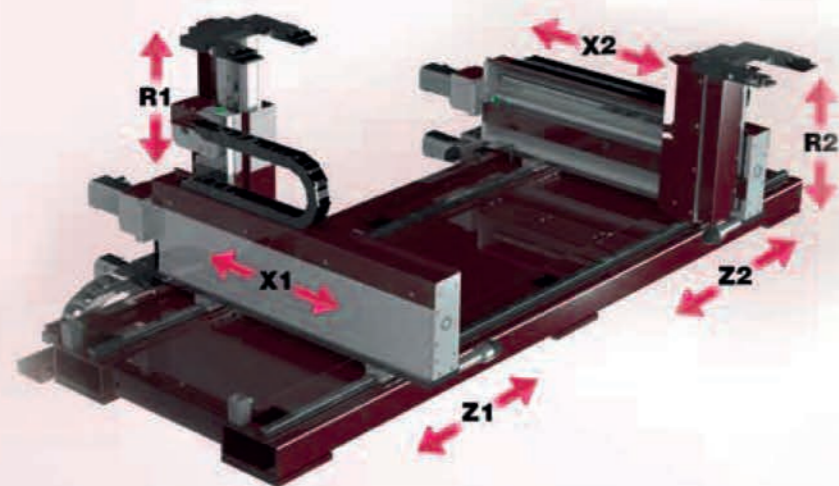
Side view



Work zone detail



Perspective view



## D Series - Technical Specifications

Machine Type	Bending Force	Bending Length	Distance between columns		Stroke	Daylight	Throat	Table Height	PIT	Machine Dimensions			Speed			Oil tank	Weight	Main motor
	Ton	A	B	C	J	D	E	F	Length x Width x Height (L x W x H)	Approach Speed	Return Speed	Bending Speed	Lt	kg	kW			
		mm	mm	mm	mm	mm	mm	mm		mm/s	mm/s	mm/s						
D100	100	2600	2150	410	615	510	890	-	4220 2230 3050	200	135	10	180	7150	7,5			
	100	3100	2600	410	615	510	905	-	4670 2230 3050	200	135	10	180	7500	7,5			
D135	135	3100	2600	410	615	510	935	-	5300 2815 3100	210	130	10	180	8950	11			
	135	3700	3200	410	615	510	945	-	5900 2815 3100	210	130	10	180	10600	11			
D175	175	3100	2600	410	615	510	935	-	5300 2775 3155	180	130	10	180	10300	15			
	175	3700	3200	410	615	510	945	-	5900 2775 3155	180	130	10	180	11950	15			
D220	220	3100	2600	410	615	510	965	-	5300 2795 3250	180	140	10	290	12050	18,5			
	220	3700	3200	410	615	510	965	-	5900 2795 3250	180	140	10	290	13600	18,5			
D270	270	3100	2600	410	615	510	950	-	5300 2765 3250	150	120	10	290	14150	22			
	270	3700	3200	410	615	510	955	-	6300 2765 3250	150	120	10	290	16350	22			
D320	320	3100	2600	410	635	510	960	-	5300 2755 3250	150	110	10	290	15800	22			
	320	3700	3200	410	635	510	960	-	5900 2755 3250	150	110	10	290	16600	22			
D400	400	3100	2600	410	635	510	1015	-	6300 2765 3350	150	110	10	290	17900	22			
	400	3700	3200	410	635	510	1010	-	7300 2785 3350	150	110	10	290	22600	22			
D500	500	3100	2600	410	635	510	1055	-	8300 2785 3350	150	110	10	290	27100	22			
	500	3700	3200	410	635	510	1055	-	8300 2785 3350	150	110	10	290	27100	22			
D600	600	3100	2600	410	635	510	1015	-	5300 2775 3600	100	80	8	400	19800	30			
	600	3700	3200	410	635	510	975	-	5900 2775 3600	100	80	8	400	22000	30			
D800	800	3100	2600	410	635	510	1055	-	6300 2790 3600	100	80	8	400	23850	30			
	800	3700	3200	410	635	510	975	-	7300 2790 3600	100	80	8	400	26650	30			
D1000	1000	3100	2600	410	635	510	1055	-	8300 2790 3730	100	80	8	400	34000	30			
	1000	3700	3200	410	635	510	1055	-	8300 2790 3730	100	80	8	400	34000	30			
D1250	1250	3100	2600	410	635	510	1015	1300	10150 2790 3750	100	80	8	400	46000	30			
	1250	3700	3200	410	635	510	1025	-	5900 2730 3625	80	70	8	500	25500	37			
D1500	1500	3100	2600	410	635	510	1025	-	6300 2740 3625	80	70	8	500	27950	37			
	1500	3700	3200	410	635	510	1025	-	6300 2740 3625	80	70	8	500	27950	37			
D2000	2000	3100	2600	410	635	510	1055	-	7300 2755 3650	80	70	8	500	31500	37			
	2000	3700	3200	410	635	510	1055	-	7300 2755 3650	80	70	8	500	31500	37			
D2200	2200	3100	2600	410	635	510	750	1800	10200 3200 3950	80	70	8	500	57000	37			
	2200	3700	3200	410	635	510	750	1800	10200 3200 3950	80	70	8	500	57000	37			
D2700	2700	3100	2600	410	675	610	995	-	6300 3125 4050	80	80	8,5	550	34000	45			
	2700	3700	3200	410	675	610	995	-	7300 3260 4050	80	80	8,5	550	37000	45			
D3200	3200	3100	2600	410	675	610	995	1520	8350 3260 4050	80	80	8,5	550	49000	45			
	3200	3700	3200	410	675	610	750	1350	10300 3250 4050	80	80	8,5	550	68000	45			
D4000	4000	3100	2600	410	675	610	750	1200	6300 3200 4150	75	70	6	780	44000	45			
	4000	3700	3200	410	675	610	750	1800	8300 3250 4150	75	70	6	780	62000	45			
D5000	5000	3100	2600	410	675	610	750	1800	10500 3250 4150	75	70	6	780	87000	45			
	5000	3700	3200	410	675	610	750	1800	10500 3250 4150	75	70	6	780	87000	45			
D6000	6000	3100	2600	510	775	610	750	1400	6400 3650 4150	70	65	6	1000	70000	45			
	6000	3700	3200	510	775	610	750	2400	10500 3650 4750	70	65	6	1000	105000	45			
D8000	8000	3100	2600	510	775	610	750	2200	8500 3650 4850	70	55	6	1000	92000	55			
	8000	3700	3200	510	775	610	750	2600	10600 3650 4850	70	55	6	1000	130000	55			
D10000	10000	3100	2600	510	775	610	750	2300	8600 3900 4950	70	55	6	1300	111000	75			
	10000	3700	3200	510	775	610	750	2600	10700 3900 4950	70	55	6	1300	153000	75			
D15000	15000	3100	2600	510	775	610	750	2300	8600 4050 5050	70	60	5	1700	152000	90			
	15000	3700	3200	510	775	610	750	2700	10700 4050 5050	70	60	5	1700	210000	90			

\*For dimension details please look at left page.

\*\*Technical specifications may change without advance notice.

# BACK GAUGE OPTIONS

- 0,03mm accuracy,
- High speed,
- Strong structure,
- Linear scales,
- Ball bearing system without backlash,
- 3 step fingers with micrometric adjustment,
- Robust design againts hard impacts

## X AXIS BACK GAUGE



A Series B Series

**A Series** High accuracy A/C inverter motor back gauge  
**B Series** High accuracy MITSUBISHI SERVO Motor  
 X travel 750mm

## X+R AXES BACK GAUGE



A Series B Series C Series D Series

X travel 750mm, R travel 250mm  
 Linear guided strengthened R axis

## X, R, Z1, Z2 AXES BACK GAUGE



B Series C Series D Series

X travel 750mm, R travel 250mm  
 Z1, Z2 travel along the back gauge bar

## X, R, Z1, Z2 +X5 AXES BACK GAUGE



B Series C Series D Series

X travel 750mm, R travel 250mm, X5 travel 200mm (+100mm)  
 Z1, Z2 travel along the back gauge bar

## X1, X2, R1, R2, Z1, Z2 ATF BACK GAUGE



B Series C Series D Series

6 Axes tower type  
 Robust design against impacts

# SAFETY OPTIONS



**AKAS FPSC**  
FRONT LASER SAFETY



A Series B Series C Series D Series

**MSD**  
FRONT LASER SAFETY



A Series B Series C Series D Series

**DSP**  
FRONT LASER SAFETY



A Series B Series C Series D Series

**FRONT**  
LIGHT BARRIER



A Series B Series C Series D Series

**AKAS II**  
FRONT LASER SAFETY



A Series B Series C Series D Series

**AKAS III - MOTORIZED**  
FRONT LASER SAFETY



A Series B Series C Series D Series

**REAR SAFETY**  
LIGHT BARRIER



A Series B Series C Series D Series

**REAR SAFETY**  
LIGHT BEAMS



A Series B Series C Series D Series

# TOP TOOL CLAMPINGS

Easy tool changing

Fast

Vertical tool changing

Safe tool changing

Options for different needs

Strong and durable

## MANUAL PROMECAM CLAMPING



A Series

## MANUAL QUICK CLAMPING PROMECAM



A Series

B Series

C Series

D Series

## WILA NSCL HYDRAULIC PUNCH CLAMPING



B Series

C Series

D Series

Tools are not included with Wila clamping

## ROLLERI ROL 200 HYDRAULIC PUNCH CLAMPING



B Series

C Series

D Series

## TEDA / EUROSTAMP PNEUMATIC PUNCH CLAMPING



B Series

C Series

D Series

## T-CHANNEL PUNCH CLAMPING



C Series

D Series

# CROWNING & BOTTOM TOOL CLAMPINGS

## MANUAL CROWNING



A Series B Series C Series

## MOTORISED CROWNING



A Series B Series C Series D Series

## EUROPEAN TYPE DIE HOLDER



A Series B Series C Series D Series

60mm or 90mm European type die holder

## WIDE TYPE BOTTOM TABLE



A Series B Series C Series D Series

150mm, 240mm, 320mm, ...

## WILA NSCR HYDRAULIC DIE HOLDER



B Series C Series D Series

Tools are not included with Wila clamping

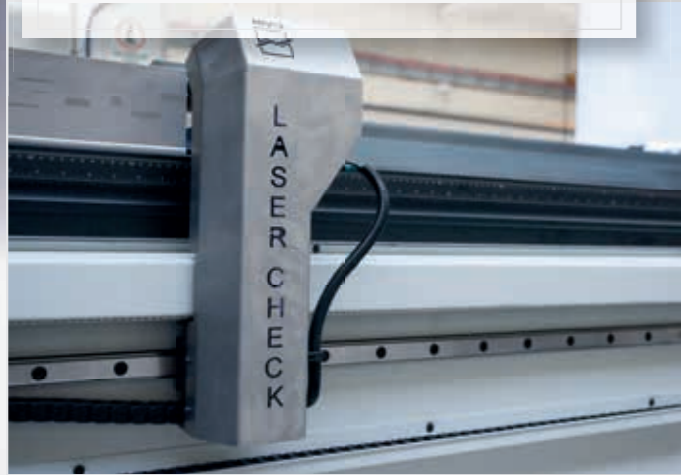
## WILA / AMERICAN MANUAL DIE HOLDER



B Series C Series D Series

# OTHER OPTIONS

**LASER CHECK**  
AUTO ANGLE MEASUREMENT SYSTEM



B Series C Series D Series

**AP01 / AP02**  
FRONT SHEET FOLLOWER ARMS



B Series C Series D Series

**MITUTOYO**  
ANGLE MEASUREMENT DEVICE



B Series C Series D Series

**CABIN COOLER**  
AC COOLING SYSTEM



A Series B Series C Series D Series

**MANUAL / AUTOMATIC**  
SLIDWAY LUBRICATION



A Series B Series C Series D Series

**OIL**  
COOLER / HEATER



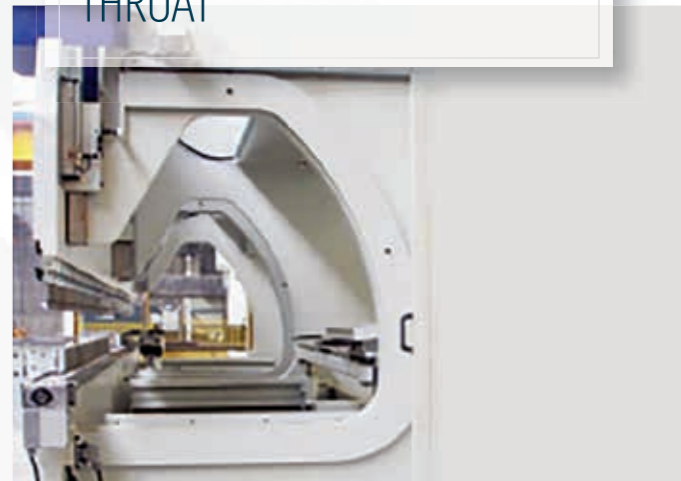
A Series B Series C Series D Series

**PNEUMATIC**  
THIN SHEET SUPPORT ARMS



B Series C Series D Series

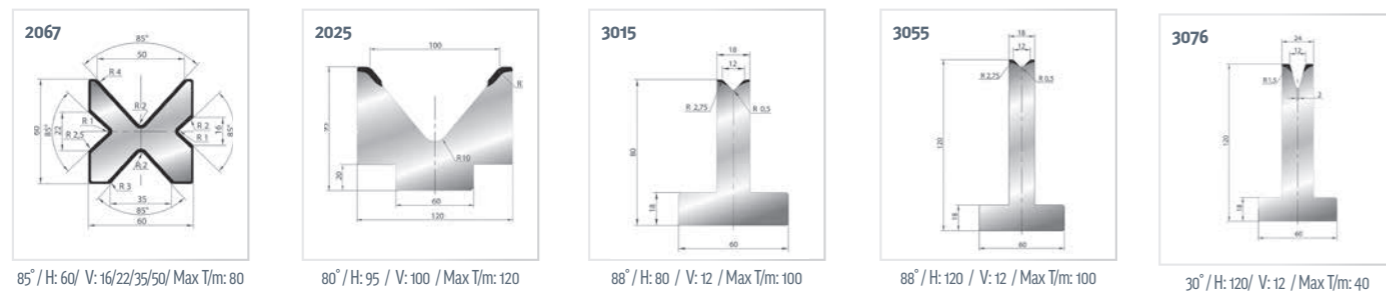
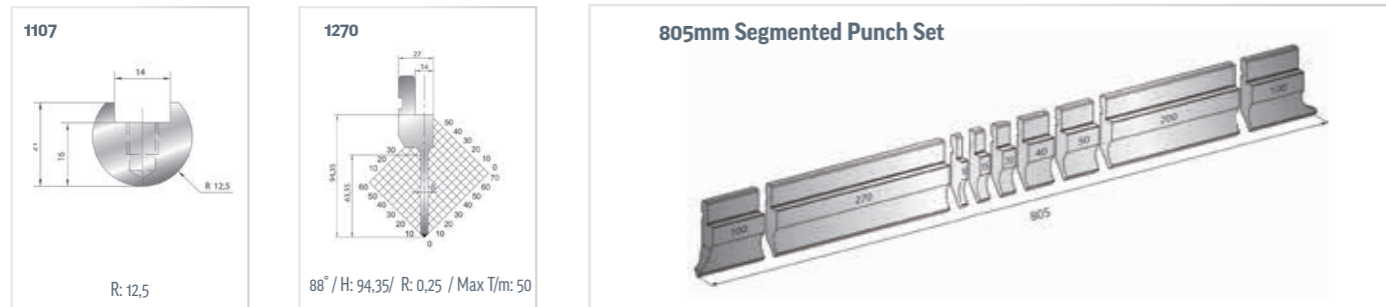
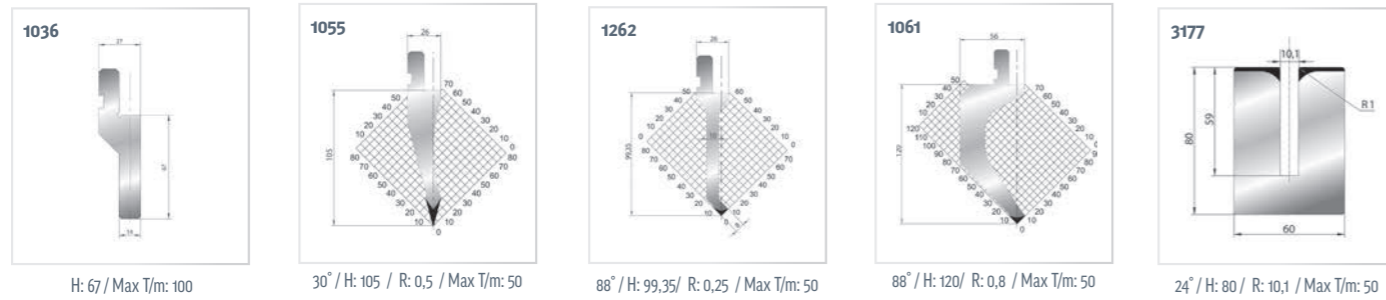
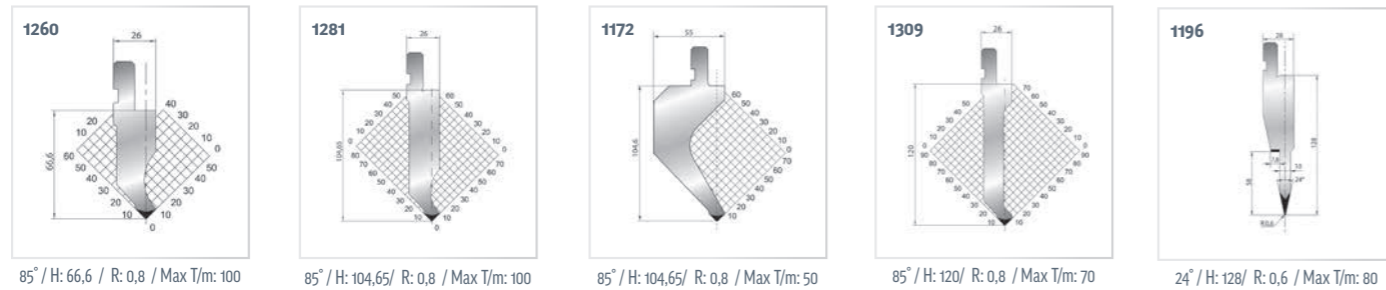
**BIG  
THROAT**



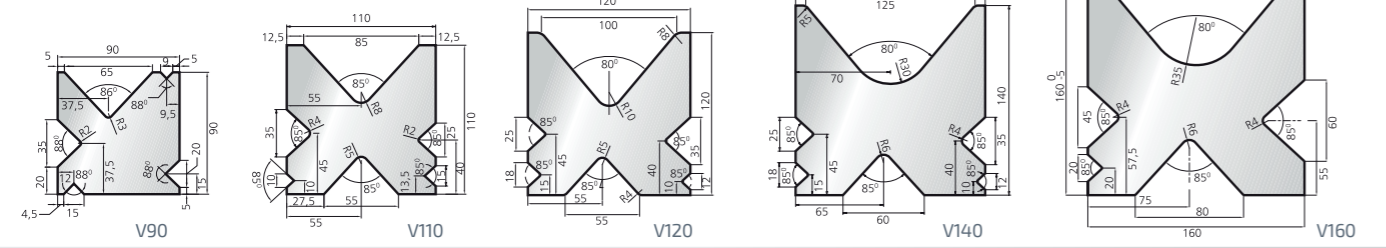
B Series C Series D Series

500mm to 1.500mm





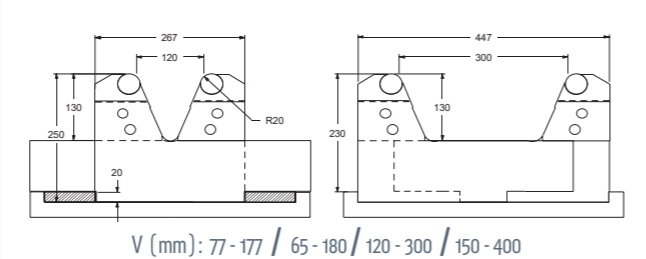
**Multi Vee Dies (Wide Table)**



**805mm Segmented Die Set**



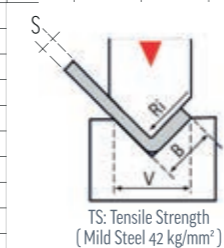
**VLM- Adjustable Die**



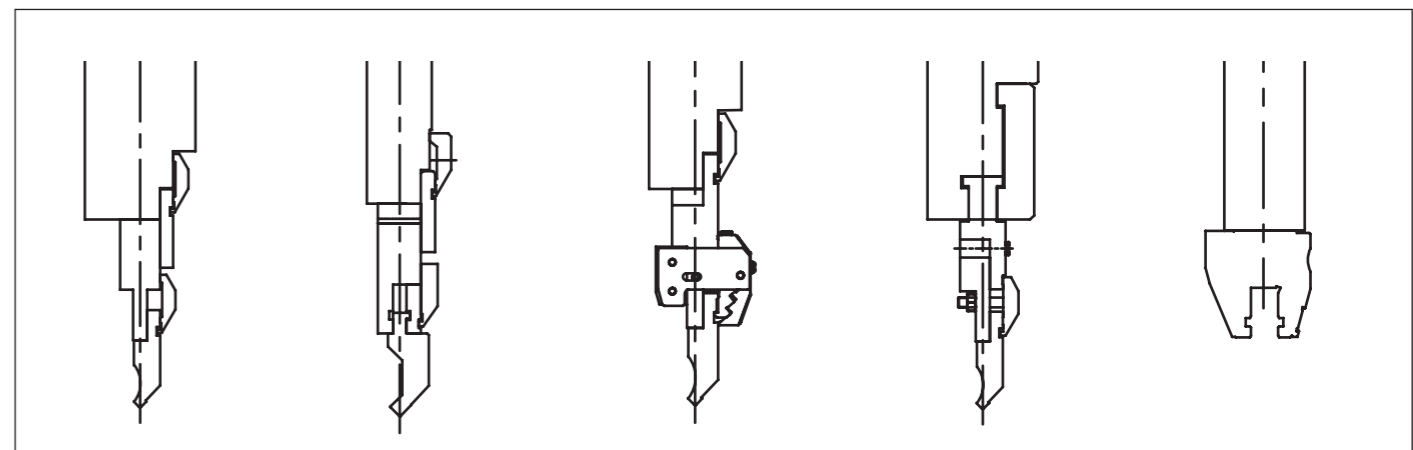
**Bending Chart**

V	R	B	0,5	0,8	1	1,2	1,5	2	2,5	3	4	5	6	8	10	12	15	20	25	30	
4	0,7	26	4	105																	
6	0,9	39	2,6	69	106	153															
8	1,5	52	2	5,5	8	115	18														
10	1,7	65		4,1	6,5	9,5	14,5	26													
12	2	78			5,5	8	12	21,5	33,5												
16	2,7	104				6	9	16	25	36											
20	3,4	13					7,5	13	20	29	52										
24	3,9	156						10,6	17	24	43	67									
30	5	20							14	19	34	54	77								
35	6	23								17	30	46	66								
40	7	26								15	26	40	58	103							
50	8,5	32									21	32	46	82	120						
55	9	36										30	42	75	117						
60	10	39										27	39	69	107						
70	11,7	45											33	59	92	132					
80	13,5	52											29	52	80	116	180				
90	15	58												46	71	103	160				
100	17	65												41	64	93	144				
120	20	78													54	77	120				
140	24	91														66	103	183			
160	25	104															72	128	200		
200	31	130																102	160	230	
250	39	163																	85	133	192
300	47	195																			

$$F = \frac{S^2 \times 2 \times TS}{1.4 \times V} = \dots \text{ ton/m}$$



**PUNCH Holders**



**DIE Holders**

