

SBFM



ÜRÜN KATALOGU
PRODUCT CATALOG

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HAKKIMIZDA

1998’de Konya’da silindir büküm işleriyle hizmete başlayan firmamız, bünyesinde makine ekipman teknolojisini geliştirerek siz değerli müşterilerimize en iyi kalitede hizmet verebilmek için Konsan Sanayi Sitesinde üretimini sürdürmektedir.

SBFM Makine Sanayi Tic. Ltd. Şti. olarak makine imalatı ve fason imalat olmak üzere iki temel alanda faaliyet göstermekteyiz. Makine imalat alanında; bombe sıvama makineleri, bombe pres makineleri, sac bükme silindir makineleri, boru bükme makineleri, sac daire kesim makinelerinin üretimi yapılmaktadır.

Fason imalat alanında ise; sac, platine, çelik, boru, profil, silme, lama, köşebent, T-U demir ticareti yapılmakla birlikte bombe sıvama, oksijen ve CNC plazma kesimi, silindir bükümü, düz levha sacdan boru imalatı gibi her türlü ara ürün imal edilmektedir. Müşterimiz ile birlikte büyüyeceğimiz inancı içinde, müşteri memnuniyetini esas alan kalite politikamızdan taviz vermeden faaliyetimize devam ediyoruz. **Şahin Bombe Makine** ticari markamızdır.

ABOUT US

Our company established in 1998 in Konya Anadolu Industrial Area for production of Dished End Presses, Flanging Machines and Roll Bending Machines.

As we consider the quality and technological developments for customer satisfaction the reached a good reputation in the market. As we innovated our technology on the machines, we moved to Konya Konsan Technical Industrial Site in 2013.

We, as **Sahin Bombe Machinery Industry** and **SBFM Machinery CO.** have been working in two main sectors; one, is to make dished ends and tank bodies according to the customer inquiries, two, manufacturing of the machines as well Hydraulic Dishing Presses, Hydraulic Flangig Machines, Hydraulic Roll Bending Machines, Hydraulic Pipe & Profile Bending Machines, Mechanical Circular Cutting Machines,



**PLANET REDÜKTÖR
PLANETARY REDUCER**

- PDS
- Comer Industries
- Bonfiglioli



**HİDROLİK MALZEMESİ
HYDRAULIC MATERIAL**

- Eaton
- Rexroth



**ELEKTRİK MALZEMESİ
ELECTRICAL MATERIAL**

- ABB
- Lovato
- Siemens



**ELEKTRİK MOTORU
ELECTRIC MOTOR**

- Gamak
- Wat

MANİPÜLATÖRLÜ BOMBE SIVAMA PRESLERİ DISHING PRESS AND MANIPULATOR

Model	Press Power	Distance Between Columns	Max.Pressure	Diameter of cylinder	Stroke	Motor Power	Dimensions (L-W-H)	Weight
	ton	mm	bar	Ømm	mm	kW	mm	kg
BISON P3012	150	3500	230	280+80X2	500	30+5,5	5000-7600-4000	13500
BISON P5012	150	5000	230	280+80X2	500	30+5,5	6200-9000-4000	15000
BISON P3016	200	3500	250	330+80X2	600	37+5,5	5000-7800-4200	15500
BISON P5016	200	5000	250	330+80X2	600	37+5,5	6200-9200-4200	17000
BISON P3020	250	3500	230	360+100X2	600	37+7,5	5000-8000-4300	19000
BISON P5020	250	5000	230	360+100X2	600	37+7,5	6200-9400-4300	23000
BISON P3025	300	3500	220	420+100X2	800	45+7,5	5000-8000-4500	21000
BISON P5025	300	5000	220	420+100X2	800	45+7,5	6200-9400-4500	25000
BISON P3030	400	3500	250	420+120X2	800	55+7,5	5000-8000-4500	26000
BISON P5030	400	5000	250	420+120X2	800	55+7,5	6200-9400-4500	32000
BISON P5040	500	5000	220	500+140X2	1000	55+11	6200-9500-5000	38000
BISON P5050	600	5000	250	530+140x2	1000	75+15	6200-9500-5000	44000



BOMBE SIVAMA MAKİNELERİ (DELİKSİZ) FLANGING MACHINES (NO HOLE)

Model	Max.Thickness	Max.Thickness (AISI 304-316)	Max.Plade Diameter	Min.Plade Diameter	Max.Flange Radius	Min.Flange Radius	Motor Power	Dimensions (L-W-H)	Weight
	mm	mm	Ømm	Ømm	mm	mm	kW	mm	kg
BISON F3012	12	8	3000	800	300	25	30	4000-1400-3300	9000
BISON F5012	12	8	5000	1000	300	25	30	5000-1400-3300	9500
BISON F3016	16	10	3000	800	400	30	37	4000-1400-3500	10500
BISON F5016	16	10	5000	1000	400	30	37	5000-1400-3500	11000
BISON F3020	20	14	3000	1000	500	50	45	5000-1600-3700	13000
BISON F5020	20	14	5000	1200	500	50	45	6000-1600-3700	14500
BISON F3025	25	16	3000	1200	500	50	55	5000-1600-3700	15000
BISON F5025	25	16	5000	1200	500	50	55	6000-1600-3700	16000
BISON F5030	30	20	5000	1400	600	80	75	7000-1700-3800	18000
BISON F5040	40	25	5000	1500	700	100	90	7500-2000-4000	22000
BISON F5050	50	32	5000	1700	800	150	120	7500-2200-4500	32000



4 TOPLU SAC BÜKME MAKİNELERİ 4 CYLINDER / ROLL BENDING MACHINES

TEKNİK ÖZELLİKLER

- Top Hareketleri : Üst top sabit, yan toplar ve merkez alt top hidrolik olarak aşağı yukarı hareketlidir.
- Döndürme (Tork): Makineler hidromotor ve planet redüktör ile tahrik edilir.
- Konik kıvrıma aparatı.
- Hareketli Kumanda panosu.
- Kaynaklı çelik konstrüksiyon gövde
- Aşın Yükleme karşı korunmuştur.
- Hidrolik açılan kafa.
- Merkezi yağlama sistemi.
- SAE 1050, DIN CK 45, MKE Ç1045 indüksiyonla sertleştirilmiş dövme veya hadde çelik merdane.
- Modeline göre hafif, orta ve ağır sac, alüminyum ve krom malzemelerin kıvrılması için üretilir.

OPSİYONEL DONANIMLAR

- Dijital gösterge
- NC Kumanda sistemi
- Asansör
- Yan dayama kolları

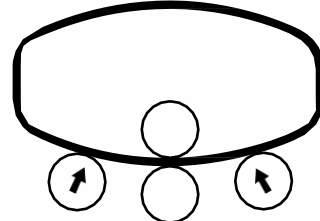
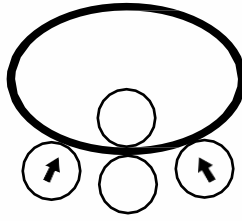
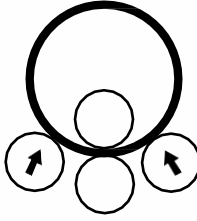
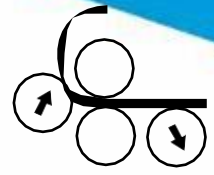
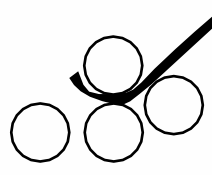
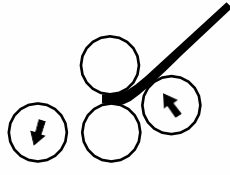
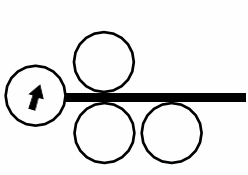
TECHNICAL SPECIFICATIONS

- Cylinder Movements: Upper Cylinder Stable, Side Cylinder and Central Cylinder movable hydraulic up and down.
- Turning (Tork): Machines are driven by 3 hydromotors and planetary reducers.
- Conical Bedding Tool.
- Movable Control Panel .
- Welded Steel Construction Structure .
- Protected against over loading.
- Hydraulic opening head.
- Central lubrication system.
- SAE 1050, DIN CK 45, MKE C1045 hardened by induction treatment, forged or rolled steel cylinder.
- Models are produced according to the materials as well Aluminum, SS or MS sheets bending.

OPTIONAL FEATURES

- Digital display
- NC Control system
- Lift
- Side supporting arms





Model	Kıvrırma Uzunluğu Working Length	Ön Bükmesiz Rolling Thickness	Ön Bükmeli Prebending Thickness	Min. Bükme Çapı Min Rolling Diameter	Merkez Top Çapı Dia of Top Cylinder	Yan Top Çapı Dia of Side Cylinder	Dönme Hızı Rolling Speed	Motor Gücü Motor Power	Makine Ölçüleri U-G-Y Overall Dimensions LxWxH	Ağırlık Weight
	mm	mm	mm	ø mm	ø mm	ø mm	m/dak -m/min	Kw	mm	Kg
4R SBS 2012	2050	12	8	300	200	160	5	7,5	4000X1600X1600	5000
4R SBS 2016	2050	16	12	360	240	200	5	11	4250X2000X2000	6500
4R SBS 2020	2050	20	16	420	270	240	5	11	4250X2200X2000	8000
4R SBS 2025	2050	25	20	450	300	250	5	15	4500X2300X2200	10000
4R SBS 2030	2050	30	25	520	340	280	4	18,5	4500X2400X2200	13000
4R SBS 2040	2050	40	30	800	400	340	4	30	4700X2500X2500	17000
4R SBS 2050	2050	50	40	1000	460	400	4	37	4700X2800X2800	24000
4R SBS 2512	2550	12	8	350	220	200	5	11	4700X1600X1600	7500
4R SBS 2516	2550	16	12	400	260	220	5	11	4700X2000X2000	10000
4R SBS 2520	2550	20	16	450	300	250	5	22	5000X2200X2000	13000
4R SBS 2525	2550	25	20	520	340	300	5	30	5200X2300X2300	15000
4R SBS 2530	2550	30	25	600	380	320	4	30	5500X2300X2300	20000
4R SBS 2540	2550	40	30	900	440	380	4	45	5500X2500X2500	24000
4R SBS 2550	2550	50	40	1100	500	420	4	66	5500X2800X2800	32000
4R SBS 3012	3100	12	8	400	260	220	5	11	5000X1600X1600	10000
4R SBS 3016	3100	16	12	500	320	260	5	15	5500X2000X2000	15000
4R SBS 3020	3100	20	16	550	360	300	5	22	5700X2200X2000	17000
4R SBS 3025	3100	25	20	600	380	320	4	30	6000X2300X2200	20000
4R SBS 3030	3100	30	25	650	420	360	4	30	6000X2400X2200	24000
4R SBS 3040	3100	40	30	1000	460	400	4	45	6000X2500X2500	28000
4R SBS 3050	3100	50	10	1200	540	460	4	66	6000X2800X2800	38000

Sac kıvrırma kapasitesi 24 kg/mm2 akma sınırın olan çeliğe göre verilmiştir
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçüleri değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm2 grade steel sheets. Dimensions are approximately. SBFM may change the dimensions without prior information.

3 TOPLU SAC BÜKME MAKİNELERİ 3 CYLINDER / ROLL BENDING MACHINES

TEKNİK ÖZELLİKLER

- Top Hareketleri : Üst top sabit, yan toplar aşağı yukarı hareketlidir.
- Döndürme (Tork): Makineler hidromotor ve planet redüktör ile tahrik edilir.
- Konik kıvrırma aparatı.
- Hareketli kumanda panosu.
- Kaynaklı çelik konstrüksiyon gövde
- Aşın yüklemeye karşı korunmuştur.
- Hidrolik açılan kafa.
- Merkezi yağlama sistemi.
- SAE 1050 DIN CK45 MKE Ç 1045 indüksiyonla sertleştirilmiş dövme veya hadde çelik merdane.
- Modeline göre hafif, orta ve ağır sac, alüminyum ve krom malzemelerin kıvrılması için üretilir.

OPSİYONEL DONANIMLAR

- Dijital gösterge
- NC Kumanda sistemi
- Asansör
- Yan dayama kolları

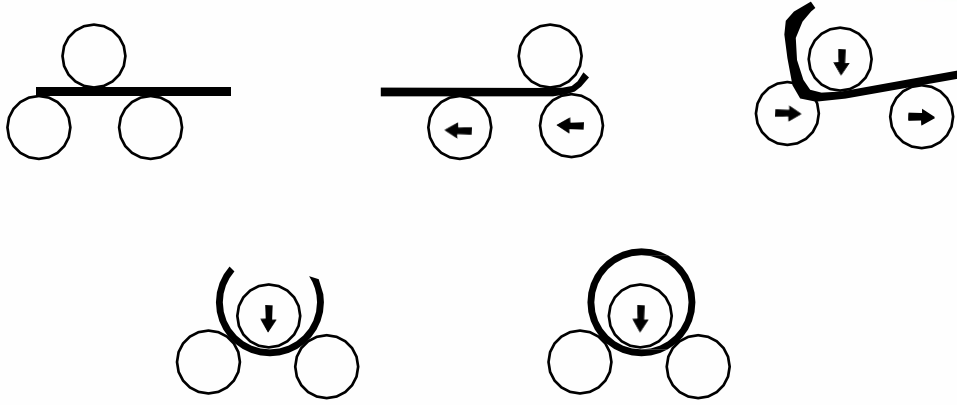
TECHNICAL SPECIFICATIONS

- Cylinder Movements: Upper Cylinder Stable, Side Cylinder and Central Cylinder movable hydraulic up and down.
- Turning (Tork): Machines are driven by 3 hydromotors and planetary reducers.
- Conical Bedding Tool.
- Movable Control Panel .
- Welded Steel Construction Structure .
- Protected against over loading.
- Hydraulic opening head.
- Central lubrication system.
- SAE 1050 DIN CK 45 MKE Ç 1045 hardened by induction treatment , forged or rolled steel cylinder.
- Models are produced according to the materials as well Aluminum, SS or MS sheets bending .

OPTIONAL FEATURES

- Digital display
- NC Control system
- Lift
- Side supporting arms





Model	Kıvrırma Uzunluğu Working Length	Ön Bükmesiz Rolling Thickness	Ön Bükmeli Prebending Thickness	Min. Bükme Çapı Min Rolling Diameter	Merkez Top Çapı Dia of Top Cylinder	Yan Top Çapı Dia of Side Cylinder	Dönme Hızı Rolling Speed	Motor Gücü Motor Power	Makine Ölçüleri U-G-Y Overall Dimensions LxWxH	Ağırlık Weight
	mm	mm	mm	ø mm	ø mm	ø mm	m/dak -m/min	Kw	mm	Kg
3R SBS 1506	1550	16	4	150	120	120	5	2,2	2200X600X850	1500
3R SBS 1512	1550	12	8	250	160	160	5	5,5	2200X800X1000	2500
3R SBS 1516	1550	16	12	300	220	220	5	11	2500X1000X15000	3500
3R SBS 2004	2050	4	3	200	160	140	5	3,3	2800X800X1000	2500
3R SBS 2008	2050	8	6	200	180	160	5	5,5	2850X1000X1200	2800
3R SBS 2012	2050	12	8	250	200	180	5	7,5	3000X1200X1200	3600
3R SBS 2016	2050	16	12	300	240	220	5	11	3000X1200X1200	4500
3RH SBS 2020	2050	20	16	350	270	240	5	11	3250X2400X1700	6500
3RH SBS 2025	2050	25	20	380	300	280	4	15	3250X2400X1750	8200
3RH SBS 2030	2050	30	25	420	340	310	4	18,5	3500X2500X2000	10000
3R SBS 2512	2550	12	8	250	220	200	5	7,5	3750X1200X1200	7500
3R SBS 2516	2550	16	12	300	260	200	5	11	3750X1200X1200	8000
3RH SBS 2520	2550	20	16	380	300	280	5	15	4250X2400X1700	9500
3RH SBS 2525	2550	25	20	420	340	310	4	18,5	4250X2400X1750	11000
3RH SBS 2530	2550	30	25	500	380	350	4	22	4500X2500X2000	14000
3R SBS 3012	3100	12	8	350	270	240	5	11	4350X1200X1200	7000
3R SBS 3016	3100	16	12	400	320	300	5	15	4350X1200X1200	8600
3RH SBS 3020	3100	20	16	480	360	320	5	18,5	4500X2400X1700	13000
3RH SBS 3025	3100	25	20	500	380	350	4	22	4500X2400X1750	16000
3RH SBS 3030	3100	30	25	550	420	380	4	30	5000X2500X2000	20000

Sac kıvrırma kapasitesi 24 kg/mm² akma sınır olan çeliğe göre verilmiştir
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçüleri değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm² grade steel sheets. Dimensions are approximately. SBFM may change the dimensions without prior information

BOMBE SIVAMA MAKİNELERİ DISHED END FLANGING MACHINES

Model		BSM 3010	BSM 3012	BSM 5012	BSM 3016	BSM 5016	BSM 3025	BSM 5025	BSM 5032	BSM 5040
Max. Kalınlık Max. Plate Thickness	mm	10	12	12	16	16	25	25	32	40
Max. Kalınlık (Paslanmaz sac -AISI 304-316 Max. Plate Thickness (Stainless steel-AISI 304-316)	mm	6	8	8	10	10	16	16	22	30
Max. Sivama Sac Çapı Max. Plate Diameter	mm	3000	3000	5000	3000	5000	3000	5000	5000	5000
Min. Sivama Sac Çapı Min. Plate Diameter	mm	350	350	350	400	400	500	500	700	1000
Max. Sivama Radyusu Max. Flange Radius	mm	250	300	300	300	300	500	500	500	500
Min. Sivama Radyusu Min. Flange Radius	mm	25	25	25	30	30	50	50	50	50
Motor Gücü Motor Power	Kw	30	30	30	37	37	45	45	55	66
Uzunluk Length	mm	4000	4000	5000	4000	5000	4000	5000	6000	6000
Genişlik Width	mm	1200	1300	1300	1400	1400	1500	1500	1600	1600
Yükseklik Height	mm	2300	2500	2500	2700	2700	2700	2700	3000	3000
Ağırlık Weight	kg	5000	5500	6000	7000	7500	8200	9000	16000	20000

Sac kıvrıma kapasitesi 24 kg/mm² akma sınırın olan çeliğe göre verilmiştir.
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçüleri değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm² grade steel sheets. *Dimensions are approximately. SBFM may change the dimensions without prior information.



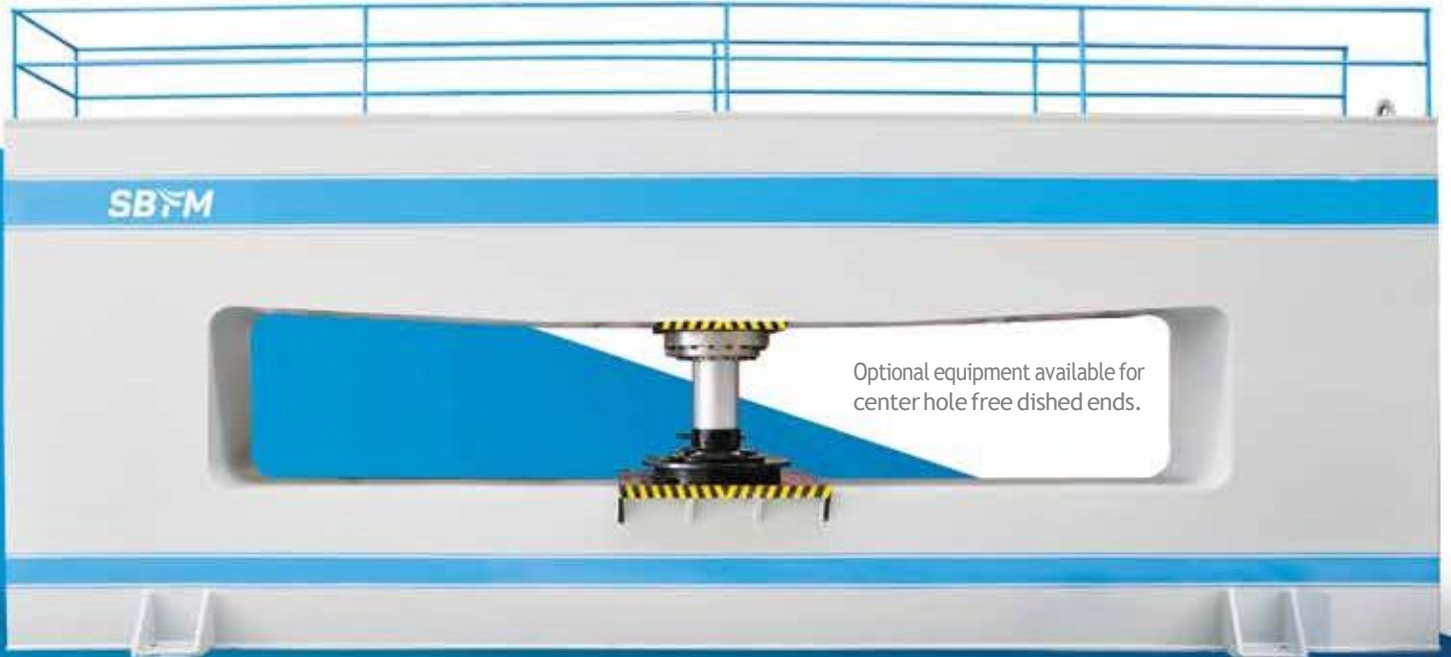
Optional equipment available for center hole free dished ends.

BOMBE SIVAMA PRESLERİ DISHING PRESS

Model		BSP 150-3500	BSP 150-5000	BSP 200-3500	BSP 200-5000	BSP 300-3500	BSP 300-5000	BSP 400-3500	BSP 400-5000
Basma Gücü Press Power	Ton	150	150	200	200	300	300	380	380
Max.Basınç Max. Pressure	bar	250	250	250	250	250	250	280	280
Silindir Çapı Diameter of cylinder	mm	330	330	390	390	470	470	520	520
Kurs Stroke	mm	500	500	600	600	600	600	600	600
Pres Arası Mesafesi Distance Between Columns	mm	3500	5000	3500	5000	3500	5000	3500	5000
Motor Gücü Motor Power	kW	30	30	30	30	37	37	37	37
Uzunluk Length	mm	4700	6300	4800	6400	4800	6500	5000	6500
Genişlik Width	mm	1000	1000	1000	1000	1200	1200	1200	1200
Yükseklik Height	mm	2520	2520	2520	2520	3020	3020	3020	3020
Ağırlık Weight	kg	7000	9000	8000	11000	9200	12700	11000	15500

Sac kıvrıma kapasitesi 24 kg/mm² akma sınırı olan çeliğe göre verilmiştir.
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçülerini değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm² grade steel sheets. *Dimensions are approximately. SBFM may change the dimensions without prior information.



ELİPS SIVAMA MAKİNESİ MULTI FORM FLANGING MACHINE

Model	Max. Kalınlık Max. Plate thickness	Max.Sivama Sac çapı Max.plate diameter	Min. Sivama Sac Çapı Min. Plate Diameter	Motor Gücü Motor Power	Uzunluk Lenght	Genişlik Width	Yükseklik Height	Ağırlık Weight
	mm	ø mm	ø mm	Kw	mm	mm	mm	kg
EBM 3006	6	3000	1000	6,2	3000	2000	1800	1750

Sac kıvrıma kapasitesi 24 kg/mm² akma sınırı olan çeliğe göre verilmiştir.
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçüleri değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm² grade steel sheets. Dimensions are approximately. SBFM may change the dimensions without prior information.



2 TOPLU SAC BÜKME MAKİNESİ 2 CYLINDER / ROLLBENDING MACHINES

MODEL	Kıvrma Uzunluğu working length	Bükme Kalınlığı Rolling Thickness	Alt Top Çapı Dia of Lower Cylinder	Min. Üst Top Çapı Min Dia of Top	Min. Bükme Çapı Min Rolling Diameter	Min. Bükme Çapı Min Rolling Diameter	Dönme Hızı Rolling Speed	Motor Gücü Motor Power	Makine Ölçüleri U-G-Y Overall Dimensions LxWxH	Ağırlık Weight
	mm	mm	ø mm	ø mm	ø mm T:0.5 -1 mm	T: 1.2-2 mm ø	m/dak	Kw	mm	kg
2R SBS 800	800	0.5-2	350	75	üst topx 1.5	üst topx 1.2	5	3,3	1900X800X1000	800
2R SBS 1000	1000	0.5-2	350	80	üst topx 1.5	üst topx 1.2	5	3,3	2050X800X1000	850
2R SBS 1200	1200	0.5-2	350	85	üst topx 1.5	üst topx 1.2	5	3,3	2200X800X1000	900

Sac kıvrma kapasitesi 24 kg/mm2 akma sınırı olan çeliğe göre verilmiştir.
Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçüleri değiştirebilir.

Sheet bending capacity calculated according to 24 kg/mm2 grade steel sheets. Dimensions are approximately. SBFM may change the dimensions without prior information.



PROFİL VE BORU BÜKME MAKİNESİ PROFILE AND BENDING MACHINES

	Profil Cinsi	SBB 50		SBB 60		SBB 80		SBB 100		SBB 120		SBB 150	
		Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia
1		60 x 10	600	80x20	1200	100x20	2000	100x20	800	125x25	1200	150x35	2500
2		100x 15	600	120x25	600	125x25	600	200x30	1200	200x50	1000	270x50	1500
3		35x35	600	50x50	800	50x50	500	60x60	750	65x65	750	90x90	1500
4		35	600	50	800	50	500	75	800	80	850	90	1800
5		70x2	1200	100x2	1600	100x2,5	1200	125x2,5	1400	160x4	2800	150x4	6000
6		2"x2,9	1000	3"x3,2	1600	3"x5,48	800	4"x6,02	1000	5"x6,35	1500	6"x7,11	3500
7		70x30x3	1500	80x40x3	1400	80x25x3	800	100x40x4	1300	120x40x4	1800	150x50x5	4500
8		50x3	1600	70x3	1600	70x3	1300	80x5	1500	90x5	1800	120x6	4000
9		50x50x6	600	70x70x7	1000	80x80x8	800	100x100x12	1000	120x120x12	1200	150x150x18	2200
10		50x50x6	900	70x70x7	1200	70x70x7	700	100x100x10	1000	100x100x10	1200	150x150x15	3000
11		60x7	800	80x9	1000	80x9	800	100x11	1000	100x11	800	150x15	2000
12		50x6	800	80x9	1200	70x8	800	90x10	1000	100x11	1000	130x15	2500
13		60x7	800	80x9	1000	80x9	800	100x11	1000	100x11	800	150x15	2000
14		UPN80	800	UPN120	800	UPN140	1600	UPN180	900	UPN220	1000	UPN280	2000
15		UPN80	1200	UPN120	1200	UPN140	1600	UPN180	900	UPN220	1200	UPN280	3000
Mil Çapı (mm) Shaft Dia (mm)		50		60		80		100		120		150	
Kalıp Çapı (mm) Roll Diameter (mm)		180		220		240		320		360		450	
Bükme Hız (m/dak) Rolling Speed (cm ³)		5		4		6		6		2-5		2-5	
Motor Gücü (kW) Power (cm ³)		4		4		7,5		11		15		22	
Mak. Ölçüleri UxGxY (mm) Overall Dimension (cm ³)		850x850x1300		1000x1200x1500		1500x1200x1200		1800x1500x1500		2000x1600x1600		2300x2000x2000	
Ağırlık (kg) Weight (cm ³)		800		1000		2200		4000		5000		9500	

Sac kıvrım kapasitesi 24 kg/mm2 akma sınır olan çeliğe göre verilmiştir. Ölçüler yaklaşık değerlerdir. SBFM haber vermeden ölçülerini değiştirebilir. Çelik borular NPU, NPI, Lama, Silme, Köşebent ve T profiller dirsek veya yay şeklinde bükülür ve şekillendirilir.

Sheet bending capacity calculated according to 24 kg / mm2 grade steel sheets. Dimensions are approximately. SBFM may change the dimensions without prior information. Steel pipes and profiles as shown in the below table can be worked.



SBB 180		SBB 200		SBB 240		SBB 280		SBB 300	
Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia	Ölçü / Size	Min Çap Min Dia
180x30	2500	200x50	3500	200x70	3800	220x70	3500	250x100	3000
280x60	2000	350x80	2500	380x80	2500	400x90	3500	500x100	2500
110x110	2000	120x120	3000	130x130	2500	150x150	2500	180x180	2500
110	2000	120	3000	150	3000	180	3500	200	5000
220x4	8000	273x5,6	10000	300x5,9	9000	320x6	9000	350x6	10000
8"x8,18	4000	9"x6,3	4000	10"x9,27	5000	12"x9,50	6000	12"x14,27	8000
200x100x8	5000	220x80x7	7000	300x100x10	8000	350x100	8000	400x200x10	10000
150x8	4500	180x10	5500	200x10	6000	200x12	6000	260x14	8000
180x180x20	2500	200x200x20	3000	200x200x24	3000	220x24	3500	250x250x25	4000
180x180x15	3000	200x200x18	5000	200x200x18	4000	220x20	4000	220x250x20	4500
160x20	2500	200x20	3500	200x28	3000	220x25	3000	250x25	3000
150x20	3000	200x20	3500	200x20	3500	220x22	3500	220x22	4000
160x20	2500	200x20	4000	200x28	3000	220x25	3000	250x25	300
UPN350	2500	UPN380	3000	UPN450	3000	UPN500	3000	UPN550	3500
UPN350	3000	UPN380	3500	UPN450	3500	UPN500	3500	UPN550	4000
180		200		240		280		300	
520		620		700		760		800	
2-5		4		4		4		4	
30		30		45		56		66	
2500x2200x2200		2800x2400x2400		4000x2800x2800		4500x2800x2800		5200x3000x3000	
12000		15000		24000		32000		36000	



DELİKSİZ BOMBESİVAMA MAKİNESİ FLANGING MACHINES FOR CENTER HOLE FREE DISHED ENDS



MAKSİMUM ÇAP $\varnothing$ 6000 mm
DIAMETER $\varnothing$ UPTO 6000 mm

MAKSİMUM KALINLIK 25 mm
THICKNESS UPTO 25 mm

ONDÜLE KÜLHAN MAKİNESİ GROOVED ROLL FOR PIPES



MANİPULATÖRLÜ BOMBE PRESİ AUTOMATIC DISHING PRESS WITH MANIPULATOR



KONİK BÜKME MAKİNESİ CONICAL ROLL BENDING MACHINE



DAİRE KESME MAKİNESİ CIRCULAR CUTTING MACHINE

FASON ÜRETİMLERİMİZ WHAT OUR MACHINES CAN MAKE

60 mm - 600 mm derinlik, 3 mm ile 40 mm arası kalınlık, 350 mm'den 6000 mm çapa kadar sıvama presinde çeşitli kalıplarda basılarak istenilen ebatlarda bombe sıvama yapılabilmektedir. 80 mm kalınlığında silindir büküm yapılabilmektedir.

Thickness 3 mm up to 40 mm. Diameter 350 mm upto 6000 mm Depth 60 mm upto 600 mm Dished Ends Production Roll bending upto 80 mm thickness. Special Customized productions available.



LPG istasyonlarına gaz tankı ve tanker bombeleri de imalatlarımız arasındadır.

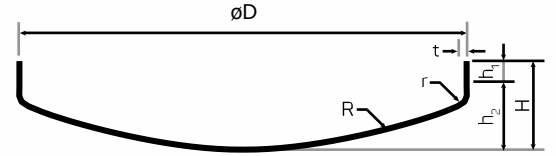
Gas tanks, tankers and dished ends for LPG stations.



BOMBE ÇAP DÖNÜŞÜMLERİ DIAMETER TABLE FROM BLANK TO DISH

D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	365	950	1050	1800	1940	3100	3320
350	420	1000	1100	1900	2050	3200	3420
400	480	1050	1150	2000	2150	3300	3520
450	530	1100	1200	2100	2260	3400	3620
500	580	1150	1260	2200	2360	3500	3740
550	630	1200	1320	2300	2470	3600	3840
600	690	1250	1370	2400	2570	3700	3940
640	750	1300	1420	2500	2680	3800	4050
700	800	1350	1470	2600	2780	3900	4160
750	850	1400	1520	2700	2880	4000	4260
800	900	1500	1630	2800	2990		
850	950	1600	1730	2900	3090		
900	100	1700	1840	3000	3200		

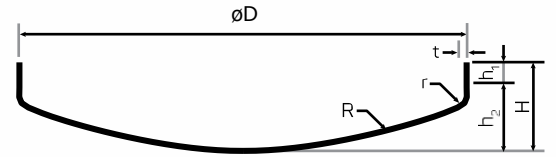
TANK BOMBE TANK DISHING



$$\begin{aligned}
 R \text{ (mm)} &= 12D \\
 r \text{ (mm)} &= 0.05D \\
 h_1 \text{ (mm)} &\geq 3.5t \\
 h_2 \text{ (mm)} &\geq 0.15D \\
 H \text{ (mm)} &= h_1 + h_2 \\
 V \text{ (mm}^3\text{)} &= 0.06D^3 (h_1=0) \\
 m \text{ (kg)} &\approx 2\pi Dp^2 t = tm_1
 \end{aligned}$$

D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	380	1100	1290	1900	2200	2700	3100
350	435	1150	1350	1950	2255	2750	3170
400	490	1200	1400	2000	2310	2800	3230
450	550	1250	1460	2050	2370	2900	3340
500	610	1300	1520	2100	2430	3000	3450
550	650	1350	1580	2150	2485	3100	3560
600	720	1400	1640	2200	2540	3200	3680
650	775	1450	1690	2250	2600	3300	3790
700	830	1500	1750	2300	2660	3400	3910
750	885	1550	1800	2350	2715	3500	4020
800	950	1600	1860	2400	2770	3600	4130
850	1000	1650	1910	2450	2815	3700	4240
900	1060	1700	1970	2500	2880	3800	4360
950	1130	1750	2030	2550	2940	3900	4470
1000	1180	1800	2080	2600	3000	4000	4590
1050	1240	1850	2140	2650	3055		

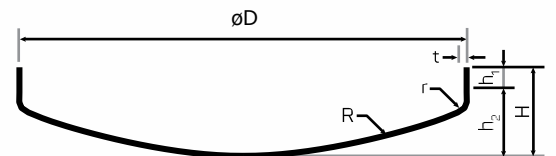
TORİSFORİK BOMBE TORISFORIC DISHING DIN 28011



$$\begin{aligned}
 R \text{ (mm)} &= D \\
 r \text{ (mm)} &= 0.1D \\
 h_1 \text{ (mm)} &\geq 3.5t \\
 h_2 \text{ (mm)} &\geq 0.2D \\
 H \text{ (mm)} &= h_1 + h_2 \\
 Dp \text{ (mm)} &\approx 112D + 17h_1 \\
 V \text{ (mm}^3\text{)} &\approx 0.1D^3 (h_1=0) \\
 m \text{ (kg)} &\approx 2\pi Dp^2 t = tm_1
 \end{aligned}$$

D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	400	1150	1410	2000	2420	2850	3430
350	460	1200	1470	2050	2480	2900	3490
400	520	1250	1530	2100	2540	2950	3550
450	580	1300	1590	2150	2600	3000	3610
500	640	1350	1650	2200	2660	3050	3660
550	700	1400	1710	2250	2720	3100	3720
600	760	1450	1770	2300	2780	3150	3780
650	820	1500	1830	2350	2840	3200	3840
700	875	1550	1890	2400	2900	3250	3900
750	935	1600	1950	2450	2960	3300	3960
800	995	1650	2010	2500	3020	3400	4080
850	1055	1700	2070	2550	3080	3500	4200
900	1115	1750	2130	2600	3140	3600	4320
950	1170	1800	2190	2650	3190	3700	4445
1000	1230	1850	2250	2700	3250	3800	4560
1050	1290	1900	2300	2750	3310	3900	4680
1100	1350	1950	2360	2800	3370	4000	4795

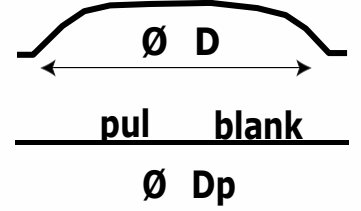
ELİPTİK BOMBE ELLIPTICAL DISHING DIN 28013



$$\begin{aligned}
 R \text{ (mm)} &= 0.8D \\
 r \text{ (mm)} &= 0.154D \\
 h_1 \text{ (mm)} &\geq 3.5t \\
 h_2 \text{ (mm)} &\geq 0.26D \\
 H \text{ (mm)} &= h_1 + h_2 \\
 Dp \text{ (mm)} &\approx 1.174D + 1.7h_1 \\
 &\quad \text{(Pul Çapı / Disk Diameter)} \\
 V \text{ (mm}^3\text{)} &\approx 0.13D^3 (h_1=0) \\
 m \text{ (kg)} &\approx 2\pi Dp^2 t \\
 &\quad \text{(Dp birimi (m) / t birimi (mm))}
 \end{aligned}$$

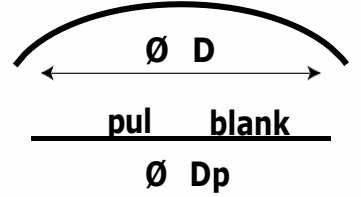
D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	365	1000	1190	1700	1950	2900	3195
350	425	1050	1240	1750	1965	3000	3320
400	485	1100	1295	1800	2020	3100	3405
450	535	1150	1345	1850	2070	3200	3505
500	615	1200	1395	1900	2120	3300	3610
550	665	1250	1450	2000	2265	3400	3715
600	735	1300	1500	2100	2370	3500	3815
650	785	1350	1550	2200	2470	3600	3920
700	840	1400	1605	2300	2575	3700	4025
750	890	1450	1655	2400	2680	3800	4130
800	945	1500	1705	2500	2780	3900	4230
850	995	1550	1760	2600	2885	4000	4335
900	1045	1600	1810	2700	2990		
950	1095	1650	1860	2800	3095		

YAKALI BOMBE COLLARDISHING



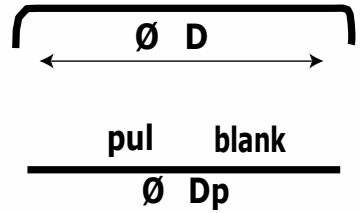
D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	305	1600	1650	3000	3100	4000	4550
350	360	1700	1755	3100	3205	4500	4655
400	410	1800	1860	3200	3305	4600	4755
500	515	1900	1960	3300	3410	4700	4860
600	615	2000	2065	3400	3515	4800	4965
700	720	2100	2165	3500	3620	4900	5065
800	825	2200	2270	3600	3720	5000	5170
900	925	2300	2370	3700	3825	5100	5275
1000	1030	2400	2480	3800	3930	5200	5375
1100	1135	2500	2585	3900	4030	5300	5480
1200	1235	2600	2685	4000	4135	5400	5585
1300	1340	2700	2790	4100	4245	5500	5685
1400	1445	2800	2895	4200	4345		
1500	1555	2900	2995	4300	4445		

KENARSIZ BOMBE SIDELESS DISHING



D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)	D(mm)	Dp(mm)
300	365	1050	1125	2200	2310	3700	3810
350	415	1100	1175	2300	2410	3800	3910
400	465	1150	1225	2400	2510	3900	4010
450	515	1200	1275	2500	2610	4000	4110
500	565	1250	1325	2600	2710	4100	4200
550	665	1300	1375	2700	2810	4200	4300
600	665	1350	1425	2800	2910	4300	4400
650	765	1400	1485	2900	3010	4400	4500
700	775	1500	1585	3000	3110	4500	4600
750	825	1600	1685	3100	3210	4600	4700
800	875	1700	1790	3200	3310	4700	4800
850	925	1800	1890	3300	3410	4800	4900
900	975	1900	2010	3400	3510	4900	5000
950	1025	2000	2110	3500	3610	5000	5150
1000	1075	2100	2210	3600	3710		

DÜZ BOMBE PLAIN DISHING



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