WHO ARE WE ?

FORMA MAKİNA



We would like to introduce our company Forma Makina Ltd. as the leading industreal plant specialized in manufacturing flat and hollow wafer production plants, feeding automations and horizontal flow pack machines in Turkiye, since 1989.

Forma makina serves to Turkish, as well as international markets, providing, turn key and tailor made solutions, including the design, supply of machinery, installation and after sales services, with our international certificates such as CE, Quality management systems ISO 9001:2000 and Gost.

Our goal is to be one of the leaders in worldwide markets by implementing high standards of machinery and logical solutions with highly qualified engineers, employed at both manufacturing and research and development departments.

We are at disposal of our customers all the time with our world wide representation offices.



FORMA MAKİNA

Hamur Otomasyonu (FORMA-HO)

Wafer Batter Production Plants

ПРОИЗВОДСТВЕННАЯ УСТАНОВКА ДЛЯ ВАФЕЛЬНОГО ТЕСТА



TR Hamur Otomasyonu

Gofret hamurunun homojen olarak karıştırılması ve tam otomatik olarak bir yada birden çok gofret pişirme fırınına beslenmesi için gerekli tesistir. Tesiste hamur mikseri, hamur besleme pompası, hamur dinlendirme tankı, hamur besleme pompası, ve bağlantı boruları vardır. Gerekli olan hamur içeriği malzemeleri manuel yada otomatik olarak miksere konur. Hammaddeler daha sonra parça parça özellikle hassas ve verimli proses ile karıştırılır. Sonrasında homojen gofret hamuru dinlendirme tankına pompalanır, buradan da devamlı olarak başka bir pompa yardımı ile otomatik gofret pişirme fırınına beslenirler.

GB Wafer Batter Production Plants

Plant for the production of homogeneously mixed wafer batter and fully automatic feeding of one or several wafer baking machines.

Plant comprising: Wafer Batter mixer, Batter feeding pump and connecting pipes. Automatic water dosing and flour dosing are optional.

The individual batter ingredients are fed into mixing tank manually or automatically. The raw materials are then mixed in batches in an especially gentle and efficient process. Thereafter, the homogenous wafer batter is pumped into the intermediate batter container from where it is continuously fed by another pump to the automatic wafer baking machine.

RUS ПРОИЗВОДСТВЕННАЯ УСТАНОВКА ДЛЯ ВАФЕЛЬНОГО ТЕСТА

Установка для производства однородно замешанного теста для вафель и полностью автоматической подачи на одну или несколько установок для выпечки вафель.

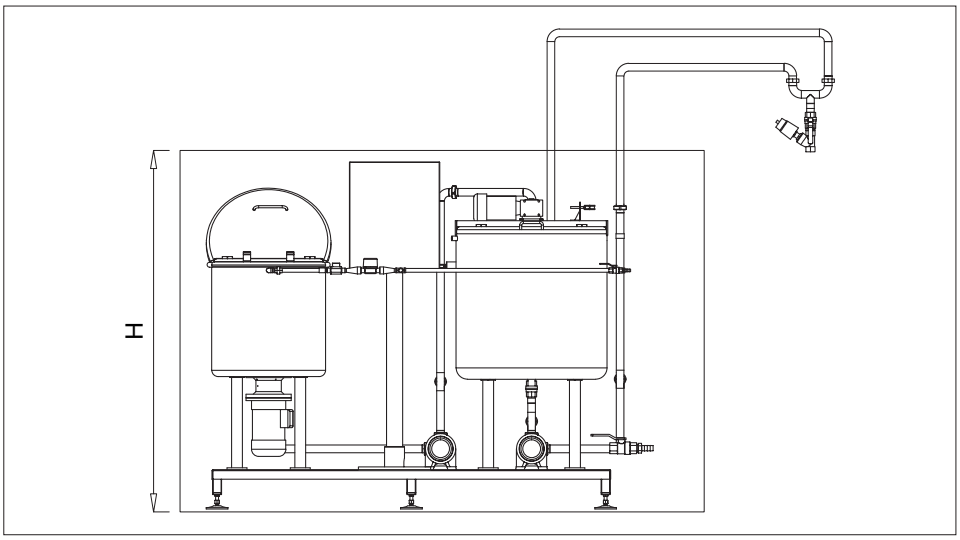
Установка состоит из: тестомесильной машины, насоса для подачи теста и соединительных труб. По желанию комплектуется также автоматическим дозатором воды и муки.

Отдельные ингредиенты теста подаются на резервуар месилки вручную или автоматически. Затем происходит процесс бережного и эффективного замеса сырья в партии теста для выпечки.

Затем однородное тесто для вафель накачивается в промежуточный контейнер для теста, откуда оно непрерывно подается посредством другого насоса на автоматическую установку для выпечки вафель.



- Easy cleaning
- Homogenius batter mixing
- Special turbo mixing system
- Technological impermeability
- Stainless steel design appropriate to food codex
- Automatic water filling system
- Transfer system by pump
- Low maintenance
- Technological impermeability
- Automatic batter transfer to baking oven
- Suckbox system



SPECIFICATIONS	HM100	HM150	HST200
WIDTH	1000 mm	1000 mm	1000 mm
LENGHT	1200 mm	1200 mm	1100 mm
HEIGHT	1250 mm	1400 mm	1700 mm
WEIGHT	130 kg	200 kg	150 kg
CAPACITY	400 kg/h	600 kg/h	600 kg/h
ELECTRICAL CONSUMPTION	1,5 kW	1,5 kW	1,5 kW

FORMA MAKİNA

Gofret Pişirme Fırınları (FORMA-GPF)

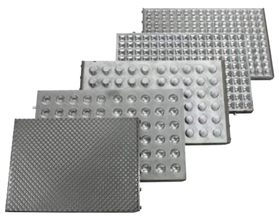
Wafer Baking Machine

УСТАНОВКА ДЛЯ ВЫПЕЧКИ ВАФЕЛЬ



Special Hard Chrome Plating

Optional Reading Selection





Strong Construction

Technological Design



MAŞALAR

Pişirme kalıpları oldukça güçlü ve sağlam maşa yapısıyla desteklenir. Bu durum gofret yaprağının kalınlığının tüm yüzey boyunca sabit tutulmasını sağlar. Her maşa grubu ısıya dayanıklı rulmanlarla çalışan 4 adet çift sıra rulmanlı tekerler ile donatılmıştır. Pişirme kalıplarının yüzeyi sert krom ile kaplanmıştır

BAKING TONGS

The baking plates are supported by an extremely rugged and solid tong frame. This ensures that the thickness of the wafer sheet is kept constant over its entire surface. Each baking tong is equipped with four carriage rollers with thermally stabilised ball bearings. Baking plates are hard-chromed.



HAMUR AKITMA İSTASYONU

Frekans kontrollü impeller hamur pompası ile hamur akıtması yapılır. Hassas biçimde yerleştirilmiş akıtma birimi elektronik hamur akıtma kontrol cihazıyla kontrol panelinden istenilen miktarın ayarlanması ile yapılır.

BATTER DEPOSITING STATION WITH OPERATING PANEL

Drop free batter depositing by means of dosing pump with frequency-controlled batter pump drive. Precisely positioned depositing by electronic batter depositing control device via input of the desired value on the operating panel.



ANA MOTOR, MAŞA GERGİ SİSTEMİ

Gerekli pişirme süresinin ayarlanması frekans kontrollü trifaze tahrik motoru ile yapılır. Maşa gergi sistemi ayrı ayrı ayarlanabilen sağ sol konumlu yerleştirilmiş pnömatik kontrollerle sağlanır. Bu sistem ısınma-soğuma esnasındaki genleşme kaynaklı değişimleri karşılamak amacıyla kullanılmaktadır.

MAIN DRIVE, BAKING TONG CHAIN TENSIONING

Infinitely variable baking time is controlled by means of frequency-controlled three phase drive. Baking tong chain tensioning is separately adjustable on right and left side; pneumatically actuated for automatic compensation of alterations in the baking tong chain length resulting from heating-up or cooling down procedures respectively.



GAZ KARISIM ÜNİTESİ

Pişirme kalıplarının ısı kontrol sistemi frekans kontrollü hava fanı ile sağlanır.
Bu sistemde Avrupa standartlarına uygun gaz ekipmanları kullanılmaktadır.

GAS MIXING UNIT

Temperature control system of baking plates by frequency-controlled primary air fan.

TR Gofret Pişirme Fırınları

Gofret pişirme fırını düz yada şekilli gofretlerin tam otomatik olarak üretilmeleri amacı ile kullanılır. Gofret yaprağının ince yada orta derinlikteki desenlerinin oluşturulması için, pişirme kalıpları isteğe bağlı olarak dizayn edilebilirler. Pişirme kalıpları doğalgaz yada LPG ile veya istenirse elektrik ile ısıtılırlar. Pişirme zamanı 2 dk ile 3.5 dk arasında reçeteye ve istenilen gofret yaprağı kalınlığına bağlı olarak ayarlanabilir, ortalama pişirme süresi 2.3 dk dır. Sistem enerji tasarrufu sağlayan brülörlerle donatılmıştır.Her brülör kendi ekseni etrafında hareket ettirilerek tüm pişirme yüzeyine eşit ısı dağılımı sağlanır. Isıtma sisteminin tamamı otomatik olarak ateşlenir, ve monitörden takip edilir. Fırın; frekans kontrollü ana motor, hamur akıtma için kullanılan frekans kontrollü impeller pompa, otomatik yaprak alma sistemi, otomatik ısı kontrol cihazı, paslanmaz çelik kaplama, hamur akıtma istasyonu üzerinde kapalı eksoz davlumbazı, pnömatik kontrollü otomatik maşa gergi sistemi, alt boncuk temizleme sistemi, kontrol paneli ve kontrol kabini ile donatılmıştır.

GB Wafer Baking Machine

The wafer baking machine is used for the production of flat or hallow wafers. For wafers with a pattern of fine or medium reeding, the baking plates are designed as requested. The baking plates are either heated by natural gas, LPG or if requested, by electricity. The baking time can be infinitely adjusted between 1,5 and 5 minutes and depending of the recipe and weight of the wafer sheet is about 2 minutes. The system is equipped with energy saving burners. Each burner can be swiveled independent of the others which enables an optimum heat distribution over the whole baking surface. The entire heating system is ignited and monitored fully automatic. Oven is equipped with frequency controlled main drive, electronic control device for batter depositing with frequency controlled batter pump drive, automatic wafer sheet take-off system, automatic temperature control device, stainless steel enclosure, exhaust hood above the batter depositing station, automatic tensioning device for the baking tong chain, waste collecting bins, operating panel, control cabinet.

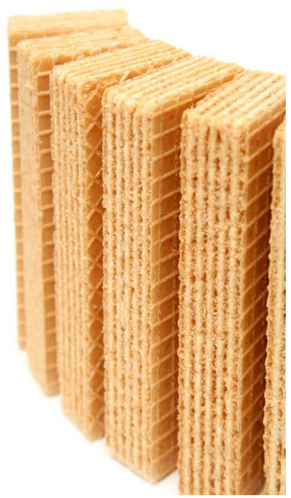
RUS УСТАНОВКА ДЛЯ ВЫПЕЧКИ ВАФЕЛЬ

Установка для выпечки вафель используется для производства плоских или полых вафель. Для вафель с рисунком глубокой или средней нарезки по заказу изготавливаются специальные противни.

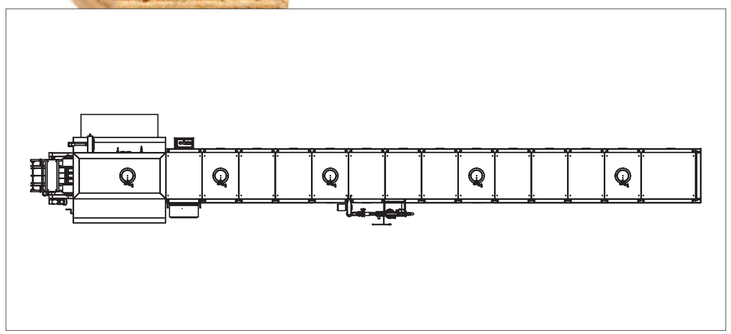
Противни нагреваются либо природным газом, либо сжиженным нефтяным газом, либо, в случае необходимости, электричеством. Время выпечки может быть точно отрегулировано в диапазоне от 1,5 до 5 минут в зависимости от рецептуры и веса вафельного листа, обычно около 2 минут. Система оборудована энергосберегающими горелками. Каждая горелка может поворачиваться независимо от других, что обеспечивает оптимальное теплораспределение по всей выпекаемой поверхности.

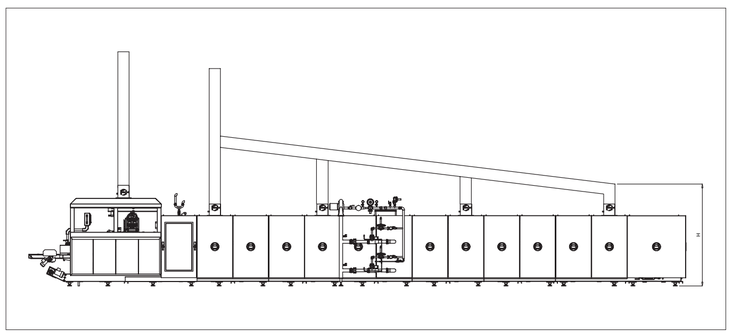
Зажигание и текущий контроль всей нагревательной системы полностью автоматические.

Печь оборудована главным приводом с регулируемой частотой, устройством электронного контроля отсадки теста и насосом для теста с приводом с регулируемой частотой, автоматической системой забора вафельных листов, устройством автоматического контроля температуры, корпусом из нержавеющей стали, вытяжным колпаком над депозитором теста, автоматическим натяжным устройством для цепи пар противней, накопительным бункером для отходов, панелью управления, шкафом управления.









SPECIFICATIONS	GPF 2947-44	GPF 2947-60	GPF 3547-44	GPF 3547-60	GPF 3550-60	GPF 3550-80
WIDTH	2300 mm	2300 mm	2500 mm	2500 mm	2500 mm	2500 mm
LENGHT	8500 mm	11000 mm	10000 mm	13000 mm	13000 mm	13000 mm
HEIGHT	2300 mm	2300 mm	2500 mm	2500 mm	2500 mm	2500 mm
WEIGHT	10500 kg	13500 kg	13200 kg	17000 kg	17000 kg	17000 kg
CAPACITY	16-18 sheet/minute	22-24 sheet/minute	16-18 sheet/minute	22-24 sheet/minute	22-24 sheet/minute	22-24 sheet/minute
ELECTRICAL CONSUMPTION	4,5 kw / 150 kW DC*	4,5 kW / 200 kW DC*	4,5 kW	4,5 kW	4,5 kW	4,5 kW
GAS CONSUMPTION	18 m^3/h Natural Gas 13 Kg/h LPG	25 m^3/h Natural Gas 18 Kg/h LPG	22 m^3/h Natural Gas 16 Kg/h LPG	30 m^3/h Natural Gas 22 Kg/h LPG	30 m^3/h Natural Gas 22 Kg/h LPG	30 m^3/h Natural Gas 22 Kg/h LPG

* Electrical consumption for the EPF model electrical baking ovens

Yaprak Soğutma Makinaları (FORMA-YS)

Wafer Sheet Coolers

ОХЛАДИТЕЛЬ ВАФЕЛЬНЫХ ЛИСТОВ



- Stainless steel transporters
- Arch from body allows easy operation
- Optional model selection according to the capacity
- Automatic sheet take-off system

- Automatic sheet infeed system for efficient and high quality production
- Hygienic and stable operation
- Automatic sheet distribution to creaming machine



TR Yaprak Soğutma Makinaları

Gofret yaprakları pişirme sonrasında soğutulur. Ek hiçbir soğutma sistemi kullanılmaksızın önce hava ile soğutulurlar.Yaprak soğutma makinaları operatörlerin hat üzerinde rahat dolasabilmeleri icin yay formunda yapılmıstır. Fırının devamında kontrol edilen bu makineye istenirse giriste denetleme cihazı eklenebilir. Örnegin kösesi kırık yaprakların sistemden otomatik olarak atılması saglanabilir. Özel tasıma sistemi sogumus gofret yapraklarını birbirinden ayırarak krema sürme makinasına yönlendirir

GB Wafer Sheet Cooler

Wafer sheets are cooled after baking. They are air cooled without additional cooling device. Wafer sheet coolers are fabricated in the form of arch to allow operating personnel to walk through the production plant without hindrance. The cooler is controlled by the upstream wafer baking machine. The in-feed conveyor can be combined with an inspection device on request. Wafer sheets with broken corners, for example then ejected fully automatic.

A conveyor system distributes the cooled wafer sheets to the down stream of cream spreading machine.

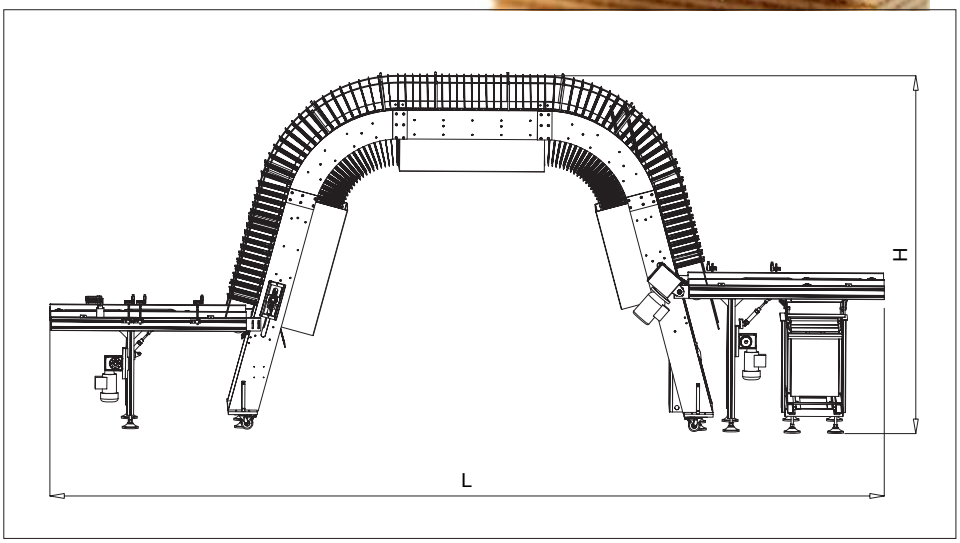
RUS ОХЛАДИТЕЛЬ ВАФЕЛЬНЫХ ЛИСТОВ

После выпечки вафельные листы охлаждаются. Они охлаждаются посредством воздуха без применения дополнительного охладительного устройства.

Устройства для охлаждения вафельных листов производятся в форме арки, что позволяет рабочему персоналу беспрепятственно перемещаться по месту расположения производственной установки. Охладитель управляется стоящей перед ним печью. По желанию подающий конвейер может быть объединен с контрольным устройством. Тогда, к примеру, вафельные листы со сломанными углами убираются полностью автоматически.

Конвейерная система распределяет охлажденные вафельные листы на стоящую следующей машину для намазки крема.







SPECIFICATIONS	YS 70	YS 90
WIDTH	1100 mm	1100 mm
LENGHT	3500 mm	4500 mm
HEIGHT	2300 mm	2300 mm
WEIGHT	400 kg	500 kg
CAPACITY	16-32 sheet/minute	24-48 sheet/minute
ELECTRICAL CONSUMPTION	1 kW	1 kW

FORMA MAKİNA

Krema Sürme Makinaları (FORMA-KS/KS-EKO)

Wafer Spreading Machine

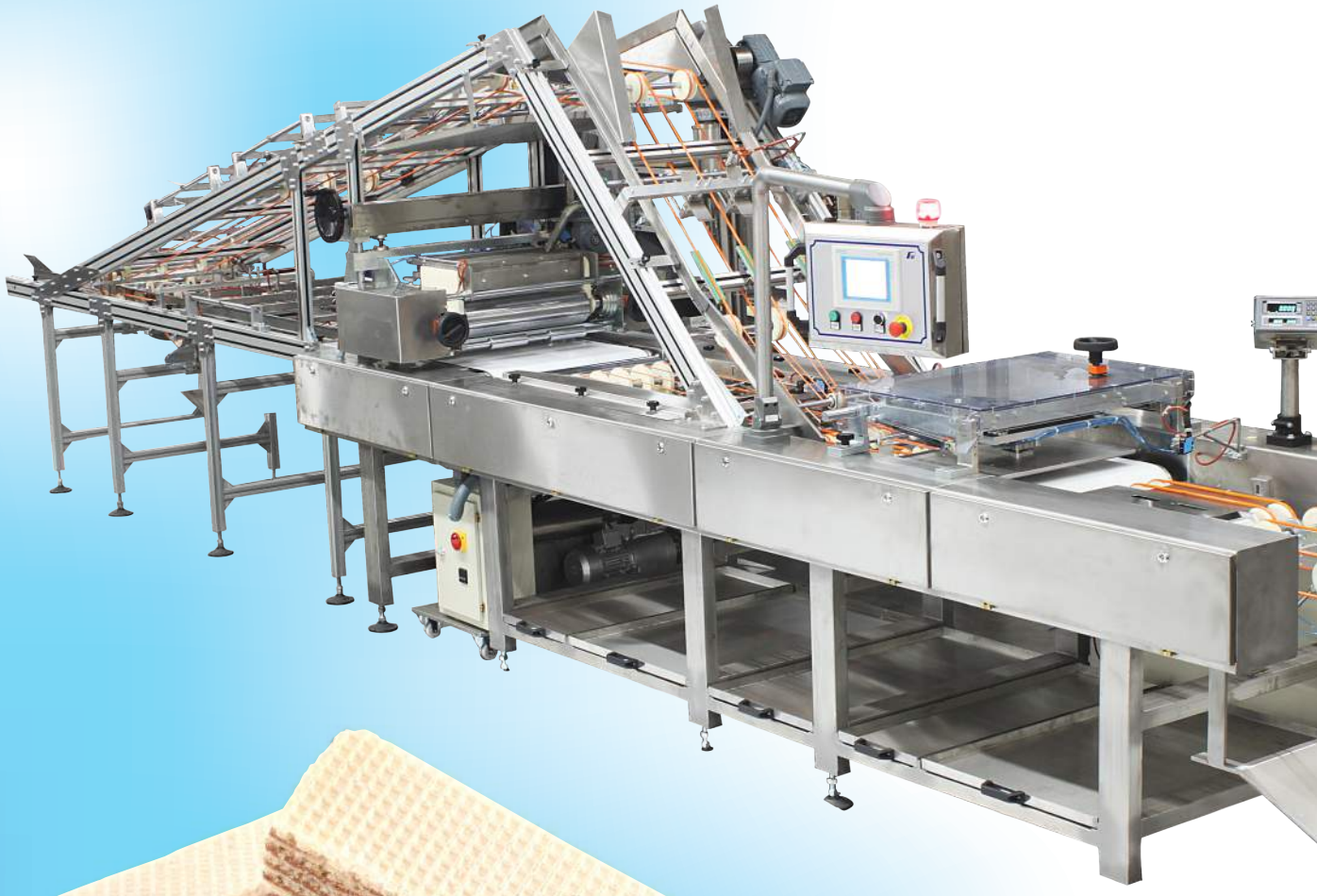
МАШИНА ДЛЯ НАМАЗКИ КРЕМА

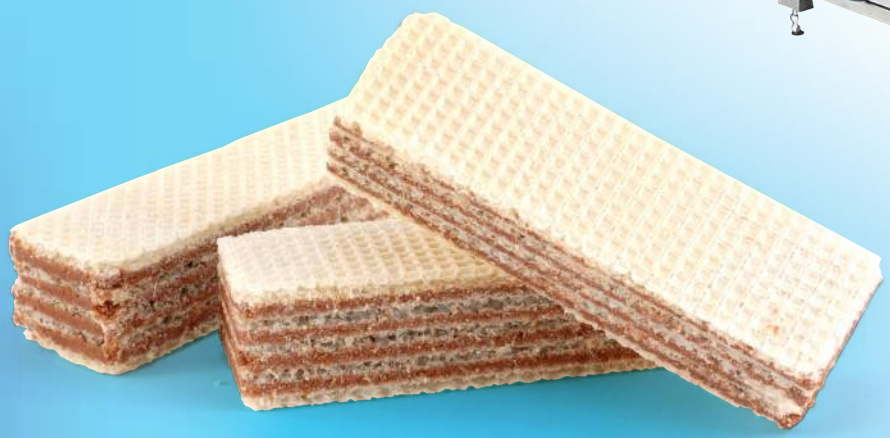


- Wafer books weighing system
- Completely stainless steel
- High capacity
- High technology



- Completely stainless steel
- Digital control
- Efficient spreading system





TR Otomatik Krema Sürme Makinaları

Otomatik krema sürme makinaları isteğe bağlı olarak kontak ya da film sistemi esasına göre krema dolgularının yapılması için kullanılır.makinada sürme kafası, istifleme istasyonu, baskı ünitesi, fındık dökme ünitesi, ağırlık kontrol ünitesi ve kontrol paneli mevcuttur. İsteğe bağlı olarak ikinci bir sürme kafası ikinci tip krema dolgusu icin eklenebilmektedir.

GB Wafer Spreading Machine

Automatic spreading machine for application of cream fillings with either the film or the contract method as required. Machine consists of Spreader head, stacking station, pressing device, sprinkling device, weight control unit and control panel. Upon request second spreading head can be supplied for the second type or colour filling.

RUS МАШИНА ДЛЯ НАМАЗКИ КРЕМА

Автоматическая машина для намазки крема используется для нанесения кремовой начинки пленочным или контактным методом. Машина состоит из намазочной головки, устройства для формирования многослойного вафельного блока, прессующего устройства, спринклера, устройства контроля веса и контрольной панели. По желанию устанавливается вторая намазочная головка для нанесения начинки другого типа или цвета.

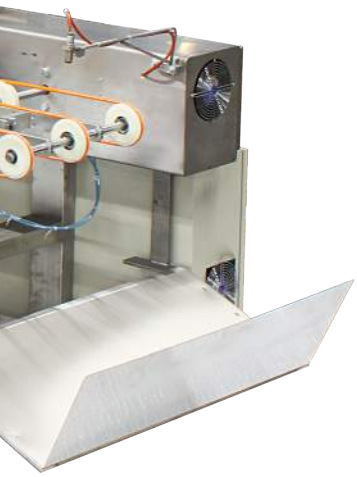


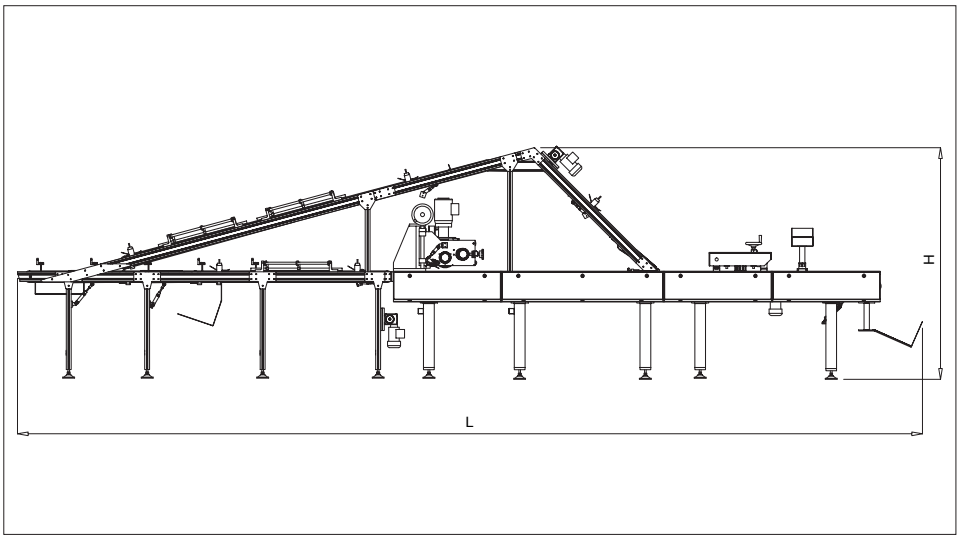
- Film spreading method
- Accurate spreading weight in grams
- Contact cream spreading
- Hygienic operation
- Single-double colour cream spreading











SPECIFICATIONS	KST - EKO	KST	KSC
WIDTH	1750 mm	1750 mm	1750 mm
LENGHT	4550 mm	8150 mm	12200 mm
HEIGHT	1900 mm	2100 mm	2100 mm
WEIGHT	550 kg	850 kg	1250 kg
CAPACITY	28 sheet / minute	40 sheet / minute	40 sheet / minute
ELECTRICAL CONSUMPTION	8,5 kW	9,4 kW	16,7 kW

FORMA MAKİNA

Gofret Kesme Makinası (FORMA-GK)

Wafer Cutting Machine

МАШИНА ДЛЯ РЕЗКИ ВАФЕЛЬ









TR Gofret Kesme Makinası

Tam otomatik kesme makinası krema dolgulu gof ret bloklarını çelik bıçaklarla yada kesme telleri ile kesim işlemini yapar. İsteğe bağlı olarak gofret bloklarını tek tek ya da istiflenmiş olarak kesebilir. Kesme işlemi için bloklar önce 1. Kesme kafesinin içinden geçer daha sonra 2. Kesme kafesine doğru açılarla itilirler. Opsiyonel olarak özel bir dizayn olan çiftli kesme makinası, yüksek kapasite sağlamak için tercih edilebilir. Çiftli kesme versiyonu aynı anda farklı gofret ölçülerinde ürün kesilmesine de olanak sağlar.

GB Wafer Cutting Machine

Fully automatic cutting machine for cutting cream filled wafer sandwiches by fixed steel blades or cutting wires. According to the further processing desired, the wafer sandwiches are cut single sandwiches or as sandwich stacks.

For cutting, the sandwiches are pushed first through the first cutting frame at the right angles to the first frame.

As optional with a special design, a twin cutting machine for high capacities can be supplied.

Twin cutting version enables to work with two different wafer dimensions at the same time.

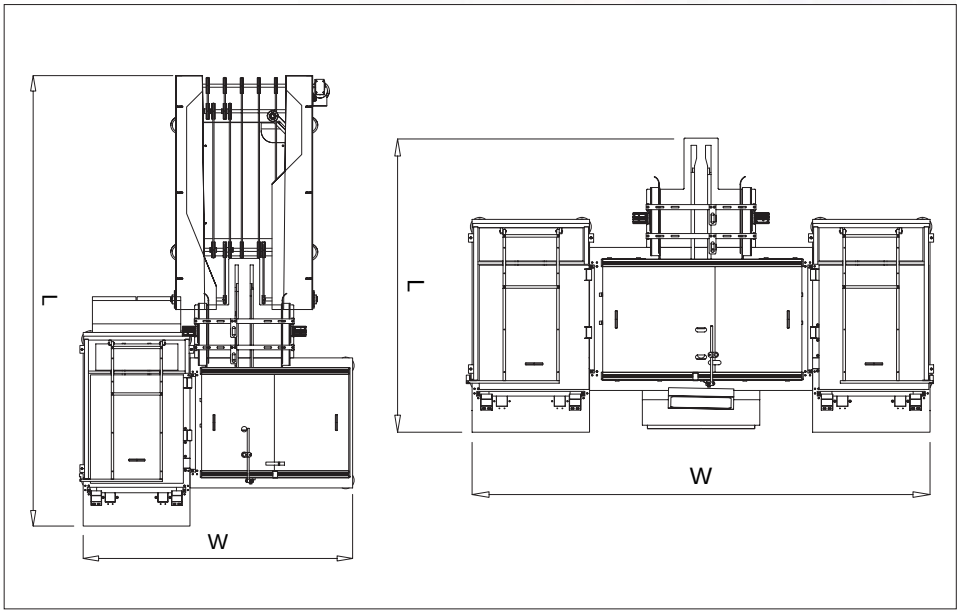
RUS МАШИНА ДЛЯ РЕЗКИ ВАФЕЛЬ

Полностью автоматическая резальная машина для резки вафельных блоков с кремом посредством фиксированных стальных ножей или резальной струны. В зависимости от производимой далее обработки вафельные блоки нарезаются в отдельные блоки или стопку блоков. Для резки блоки сначала проталкиваются через первую резальную раму под нужным углом к первой раме. По желанию поставляется специальная конструкция, машина двойной резки для повышенной производительности. Конструкция двойной резки позволяет одновременно производить два вида продукта.





- Completely stainless steel frame
- High capacity cutting by means of stainless steel knives
- Pricise cutting
- Possibility of cutting multi layer wafer books by stacking system
- Possibility of cutting wafer books in different sizes
- Perforated cutting



SPECIFICATIONS	GKT	GKC
WIDTH	1750 mm	2750 mm
LENGHT	2700 mm	2700 mm
HEIGHT	1000 mm	1000 mm
WEIGHT	600 kg	900 kg
CAPACITY	9 blocks / minute	15 blocks / minute
ELECTRICAL CONSUMPTION	2,1 kW	3 kW

Ayırıcı ve Ara Açma Bandı (FORMA-GA)

Wafer Distribution Device

УСТРОЙСТВО ДЛЯ РАСПРЕДЕЛЕНИЯ ВАФЕЛЬ



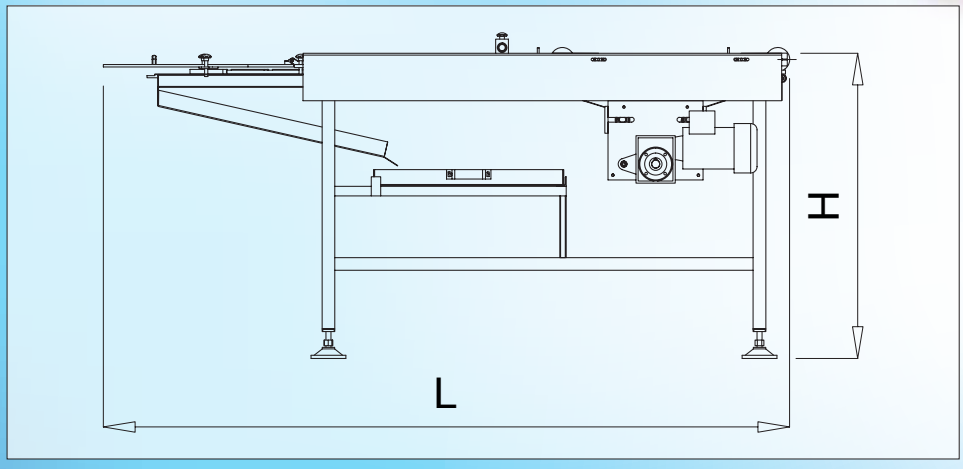
TR **Gofret Ayırıcı ve Ara Açma Bandı**

Kesilmis gofret parcalarının kaplama hatlarına beslenmesi amacı ile kullanılırlar. Kesim sonrası gofret parçaları ayırıcı raylar arasına itilerek birbirinden ayrılır ve araları açılır. Takip eden konveyörün hızının ayarlanması ile devamlı ve düzgün bir üretim akısı ve kaplama hattının verimli calışması sağlanır. Ayırıcı raylar ürün ölçülerine bağlı olarak değişken yapılabilirler

GB **Wafer Distribution Device**

For distributing cut wafer bars and feeding a downstream chocolate enrobing plant. The second cut pushes the cut wafer bars through the distribution rails and singles them by opening the distances between two wafer bars. The adopted speed of the following conveyor guarantees a continuous production process and optimum use of enrobing plant. The distribution rail can be changed to process different product dimensions.





SPECIFICATIONS	GA
WIDTH	1170 mm
LENGHT	2050 mm
HEIGHT	950 mm
WEIGHT	300 kg
ELECTRICAL CONSUMPTION	1,1 kW

RUS **УСТРОЙСТВО ДЛЯ РАСПРЕДЕЛЕНИЯ ВАФЕЛЬ**

Для распределения нарезанных вафельных брусков и их подачи на следующую в линии установку для глазировки шоколадом. Вторая резка направляет нарезанные вафли через распределительные направляющие и разделяет вафли путем увеличения расстояния между ними. Согласованная скорость последующего конвейера гарантирует непрерывность производственного процесса и оптимальную производительность глазировочной установки. Положение распределительных направляющих можно менять для работы с продуктами разных размеров.

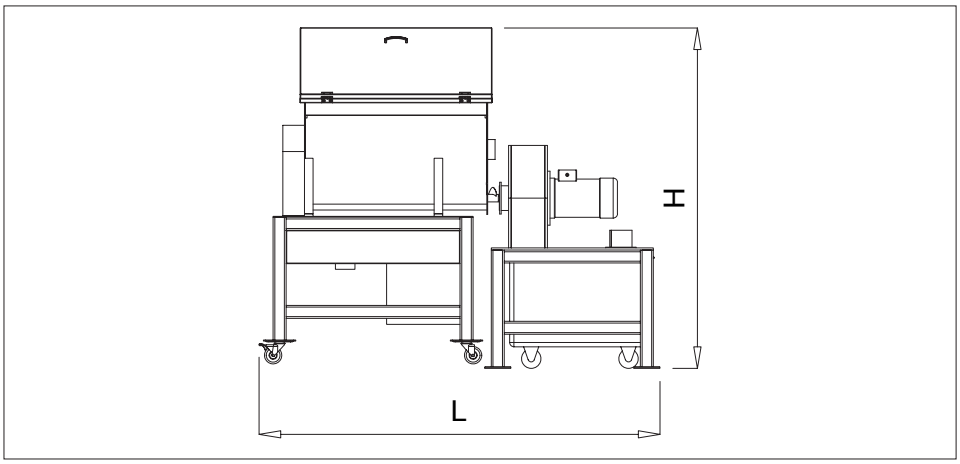
Iskarta Değirmeni (FORMA-ID)

Waste Grinding Machine

МАШИНА ДЛЯ ПЕРЕМОЛКИ ОСТАТКОВ







SPECIFICATIONS	ID
WIDTH	600 mm
LENGHT	1850 mm
HEIGHT	1300 mm
WEIGHT	350 kg
CAPACITY	130 kg/h max.
ELECTRICAL CONSUMPTION	7,5 kW

TR **Iskarta Değirmeni**

Iskarta degirmeni hattın calısması esnasında olusan artık gofret parcalarının ögütülmesinde kullanılır. Ögütülmüs parcalar receteye bağlı olarak krema hazırlama ünitesinde kullanılabilirler. Makine 2 kısımdan olusur, birinci kısım parcalar ikinci kısımıskartaların kullanılabilecek halde ögütülmesini saglar.

Hijyenik satların sağlanması amacı ile makine paslanmaz celikten imal edilmektedir.

GB **Waste Grinding Machine**

Waster Grinding Machine is used to grind the waste which may possibly come out during the running of the line. The grinded mass then can be used in certain proportions, depending on the recipe in the cream preparation plant. Machine consists of two parts. First part crushes the waste and second part grinds the waste for further uses. Grinding machine is made of stainless steel to ensure the hygienic regulations.

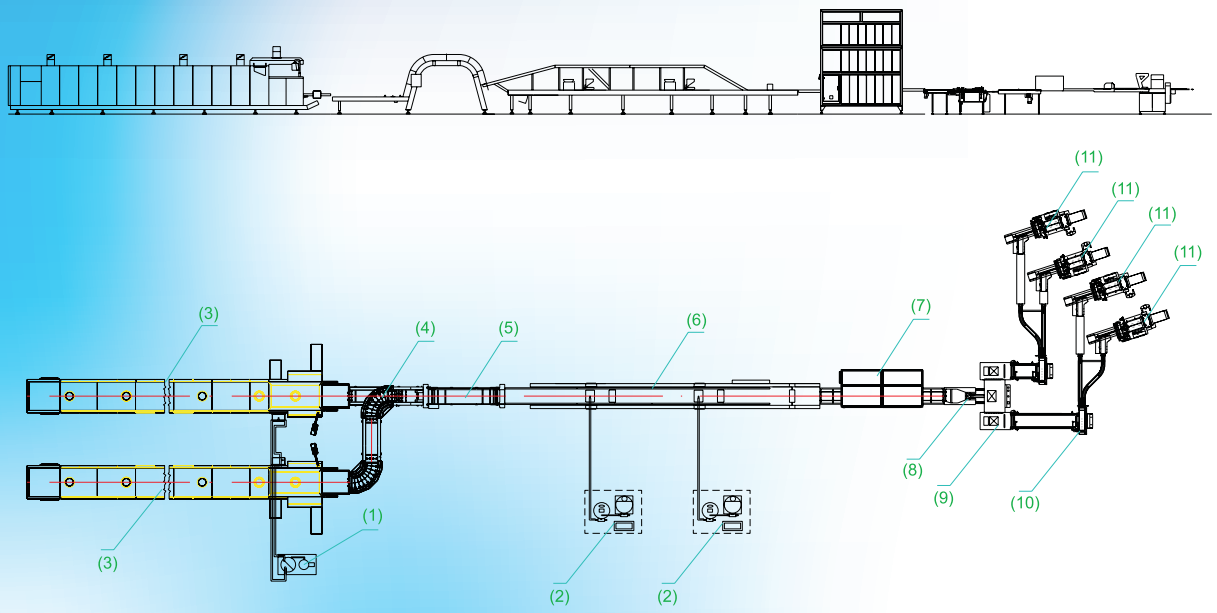
RUS **МАШИНА ДЛЯ ПЕРЕМОЛКИ ОСТАТКОВ**

Эта машина используется для перемолки остатков, которые могут получиться в процессе работы линии (например, обрезков). Перемолотая масса затем может быть использована в определенных пропорциях, в зависимости от рецептуры, в установке для приготовления крема. Машина состоит из двух частей. Первая часть размельчает остатки, вторая перемалывает их для дальнейшего использования. Размалывающая машина сделана из нержавеющей стали, что отвечает требованиям гигиены.

Wafer Line Placements

Example 1 Flat Wafer Plant for the production of non-coated wafer bars and family packs

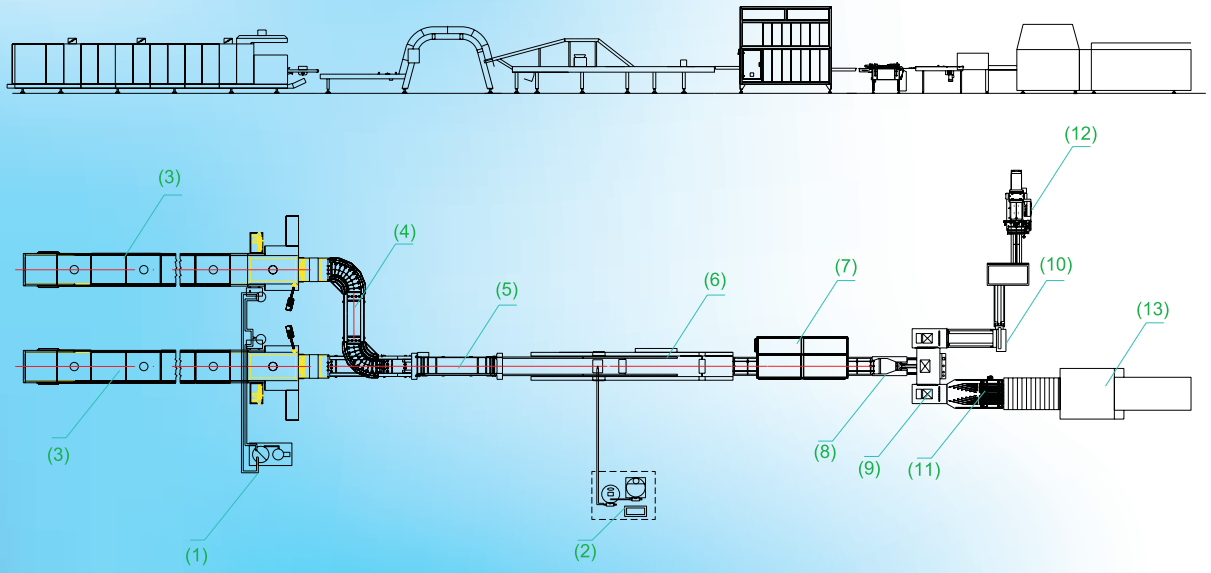
•Capacity: 200-500 kg/h **•Baking Plate Size:** 350x470 mm



(1) Wafer Batter Production Plant
(2) Cream Production Plant
(3) Automatic Wafer Baking Machine
(4) Marshalling Conveyor
(5) Wafer Sheet Cooler
(6) Wafer Spreading Machine
(7) Wafer Sandwich Cooler
(8) Wafer Sandwich Turning Device
(9) Wafer Cutting Machine
(10) Wafer Discharge Device
(11) Packaging Machine

Example 2 Flat Wafer Plant for the production of coated and non-coated wafer bars

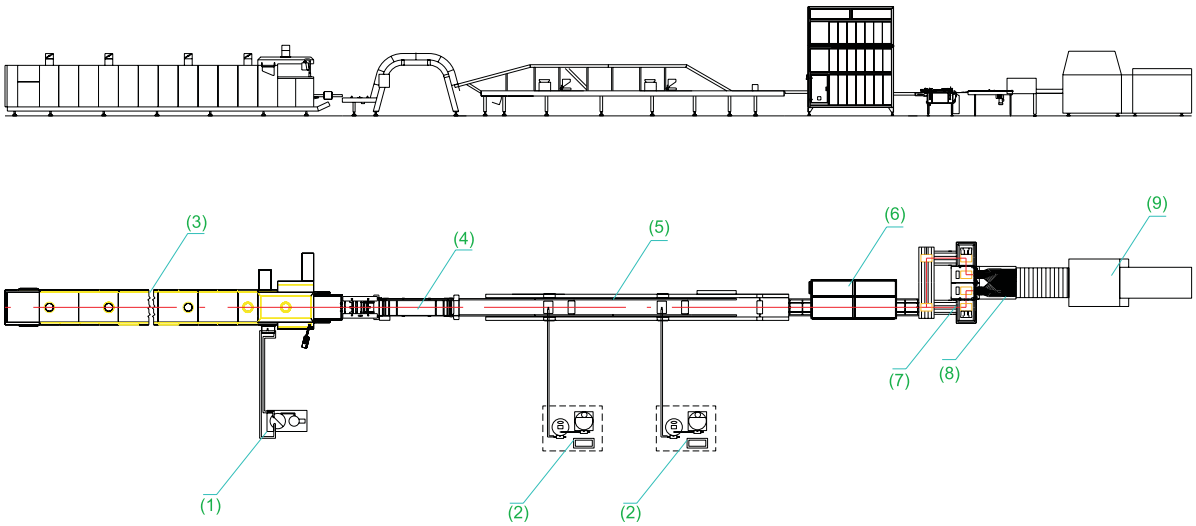
•Capacity: 150-400 kg/h **•Baking Plate Size:** 290x470 mm



(1) Wafer Batter Production Plant
(2) Cream Production Plant
(3) Automatic Wafer Baking Machine
(4) Marshalling Conveyor
(5) Wafer Sheet Cooler
(6) Wafer Spreading Machine
(7) Wafer Sandwich Cooler
(8) Wafer Sandwich Turning Device
(9) Wafer Cutting Machine
(10) Wafer Discharge Device
(11) Wafer Distribution Device
(12) Packaging Machine
(13) Chocolate Enrobing Line

Example 3 Flat Wafer Plant for the production of coated wafer bars

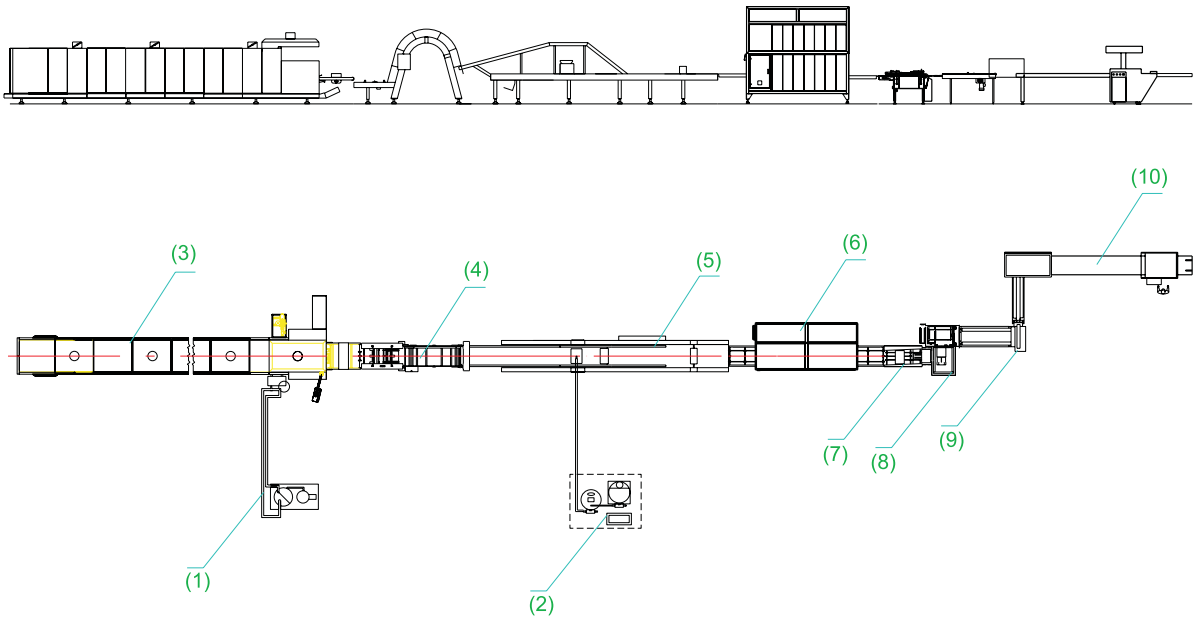
•**Capacity:** 200-400 kg/h •**Baking Plate Size:** 350x470 mm



(1) Wafer Batter Production Plant
(2) Cream Production Plant
(3) Automatic Wafer Baking Machine
(4) Wafer Sheet Cooler
(5) Wafer Spreading Machine
(6) Wafer Sandwich Cooler
(7) Wafer Cutting Machine
(8) Wafer Distribution Device
(9) Chocolate Enrobing Line

Example 4 Flat Wafer Plant for the production of non-coated wafer bars

•**Capacity:** 100-300 kg/h •**Baking Plate Size:** 290x470 mm



(1) Wafer Batter Production Plant
(2) Cream Production Plant
(3) Automatic Wafer Baking Machine
(4) Wafer Sheet Cooler
(5) Wafer Spreading Machine
(6) Wafer Sandwich Cooler
(7) Wafer Sandwich Turning Device
(8) Wafer Cutting Machine
(9) Wafer Discharge Device
(10) Packaging Machine

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