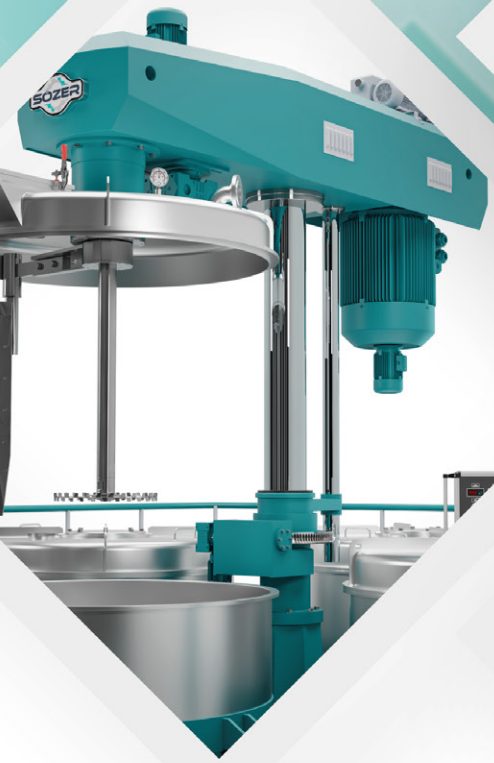

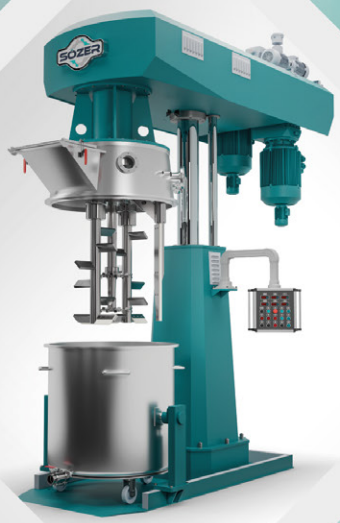

Since 1946

THE RIGHT CHOICE OF EXCELLENCE

Sözer Makina

www.sozer.com

DRAWING STRENGHT FROM OUR LEGACY

1946

Ali Sözer establishes Sözer Machinery with the name "Sözer Motopomp and Machinery Industry, Ali Sözer and His Sons" in his 20 m^2 workshop in Karaköy, Istanbul. He graduated from the Lathe Section of the Sultanahmet Art School, which was one of the best schools of that era.

1956

Production and service of different pumps used for various purposes is continued in 3 different workshop in Istanbul Küçük Mustafa Pasa

1965

It moves the production to the 170 m^2 workshop in Eyüp, Istanbul.

1971

Expanding beyond our core business. we now offer a diverse range of paint manufacturing machines. featuring our first state-of -the -art paint mixing mixer.

1986

The rapidly growing company successfully carries out its first export transaction.

1993

Sözer, a prominent brand serving the chemical and paint industries, has increasingly focused on machinery manufacturing. The company has established its presence in the İMES Industrial Site, located within the Dudullu Organized Industrial Zone in Istanbul

1994

It established a limited company to gain a more institutional structure

2005

Aiming to become a brand in its business fields, Sözer Machinery officially registered SÖZER® as its trademark

2007

Following the increase in customer demand and, consequently, business volume, Sözer Makina relocated to its factory in the Paint and Varnish Organized Industrial Zone in Tuzla, Istanbul. This transition allowed the company to move its operations from a workshop scale to a full-fledged factory environment.

2011

Sözer Makina has moved to its new factory in the IMES Organized Industrial Zone, Dilovası, Kocaeli, as part of its growth and expansion

2013

Specialized CNC machines have been added to our machinery lineup to enhance our production quality and maintain high-level sustainability of our standards

2019

Sözer Makina has begun producing high-value-added machines and systems through its efforts in digitalization and Industry 4.0 advancements in production

2024

Sözer Makina will now operate as a joint-stock company due to its growth and strengthened structure

2025

The transition to the live implementation of our new ERP system, SAP, has been completed to improve interdepartmental communication and business efficiency

Quality Driven by Experience...

Founded in 1946, **Sözer Makina** is a leading example in machine manufacturing in Turkey. In addition to producing multifunctional machines and components for various industries, the company also offers design, project development, and consultancy services, backed by years of expertise and knowledge.

Sözer Makina approaches every machine it produces with a sense of responsibility that spans from the initial design phase to installation and usage procedures within its wide range of innovative products. Since its establishment, the company has guaranteed the production of "durable and reliable" machines that will ensure long-term satisfaction for its business partners.

As of today, **Sözer Makina** exports 60% of its annual production. By 2025, the company will extend its advanced production technologies and services to over 70 countries worldwide, delivering exceptional service through its team of expert engineers specializing in project development, design, production, and after-sales support

Sözer Makina provides sustainable solutions by offering both independent machine solutions and semi- or fully automated turnkey projects tailored to your needs and projects.

We invite you to collaborate with **Sözer Makina** to turn your projects into reality

Since 1946

CERTIFICATES

AFTER-SALES SERVICE AND SPARE PARTS

Sözer Makina recognizes the importance of after-sales service and spare parts supply. In this regard, we provide after-sales services both domestically and to various international locations

At Sözer Makina, we adopt a highly dynamic and solution-oriented approach to on-site repair and service, thanks to our team of expert, trained engineers and technicians. Therefore, we offer 24/7 service availability and accessibility, continuously improving with the goal of achieving 100% customer satisfaction

Sözer Makina sustains its commitment to unconditional customer satisfaction through various initiatives. Foremost among these are continuous training for qualified personnel in line with evolving technologies and the digitalization of machinery. The company considers integrating Kaizen, 5S, and lean manufacturing principles with the digital world not only a goal but also a transformative opportunity.

Sözer Makina offers a 2-year manufacturing warranty and a 10-year spare parts guarantee for all machinery and equipment it produces, ensuring long-term reliability and customer confidence

The values that define ***Sözer Machinery...***

Professional

Engineering

Safety

Production

www.sozer.com

Professional Solutions *for Sustainable Success...*

MISSION

Our aim is to be a preferred brand in the market by providing innovative and solution-oriented services to our customers, manpower and business partners within the framework of the legislation, with our knowledge and strong experience, by researching developments and with awareness of our responsibilities in our field of activity.

PRINCIPLES

Our customers are at the core of what we do. We strive for excellence, deliver superior quality, and uphold integrity and ethics.
We grow wiser with every experience, strengthening ourselves while contributing to the Turkish economy. Together, we build a future of trust and progress.

VISION

To enhance our resources through knowledge and technology, leveraging them to create value for our customers and business partners. Our goal is to drive sustainable growth for both our company and our country by pioneering innovations and delivering enduring impact on a global scale.

QUALITY POLICY

Our company, with its long-standing experience in the machinery industry and commitment to continuous development, aims to maximize customer satisfaction and become a trusted brand in the sector. By adopting quality as not just a process, but as a corporate culture, we focus on achieving excellence at every stage of production.
Leveraging our experience, we swiftly adapt to technological advancements with a continuous improvement and innovative production approach. We fully comply with national and international quality standards (ISO 9001, ISO 14001, ISO 45001, CE). In our production processes, we establish quality not only as a goal but as an unchanging standard through efficiency, sustainability, and advanced engineering solutions.
To ensure the continuity of quality, we operate on the principle of prevention before errors occur, and we manufacture with a commitment to zero defects and maximum reliability. By supporting the continuous development of our employees, we create an organizational structure that merges knowledge and experience with quality. Through strong collaborations with our suppliers, we ensure quality at every stage, from raw material selection to the final product.
With an environmentally conscious production mindset, we adopt resource-efficient methods and eco-friendly production techniques. Committed to health and safety standards, we ensure a secure working environment for our employees and business partners.
With our experience, quality, and continuous development approach, we will continue to be a strong player not only today but in the future as well. Quality, for us, is not just an outcome but an ongoing process. With this philosophy, we will continue to move forward in our industry, uncompromising on the principles of trust, stability, and excellence.

The Fields Where Our Machines Are Used

- Decorative and construction paints
- Industrial paints(automative, Marine)
- Pigment pastes and colorant products
- Construction Chemicals
- Wood vernishes
- Silicone putty. mastic .and sealant products
- Printıng and creen printing İNKS
- Hot melt and various adhesives
- Leather chemicales and synthetic leathers
- Composite Based Products
- Plant and Agricultural Products
- Polyurethane-based casting components
- High Viscosity Systems Based On Epoxy and Polysulde
- Ready-Made Plaster Products
- Dental products
- Cosmetic products
- Plastisol and various coatings
- Ceramic products
- Insulation and filing materials
- Food products
- Pharmaceutical and Biochemical Industry Products
- Rubber, BMC, SMC Composite Compounds
- Interior and Exterior Cladding
- Gas Concrete Products
- Petrochemical Products

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CORPORATE

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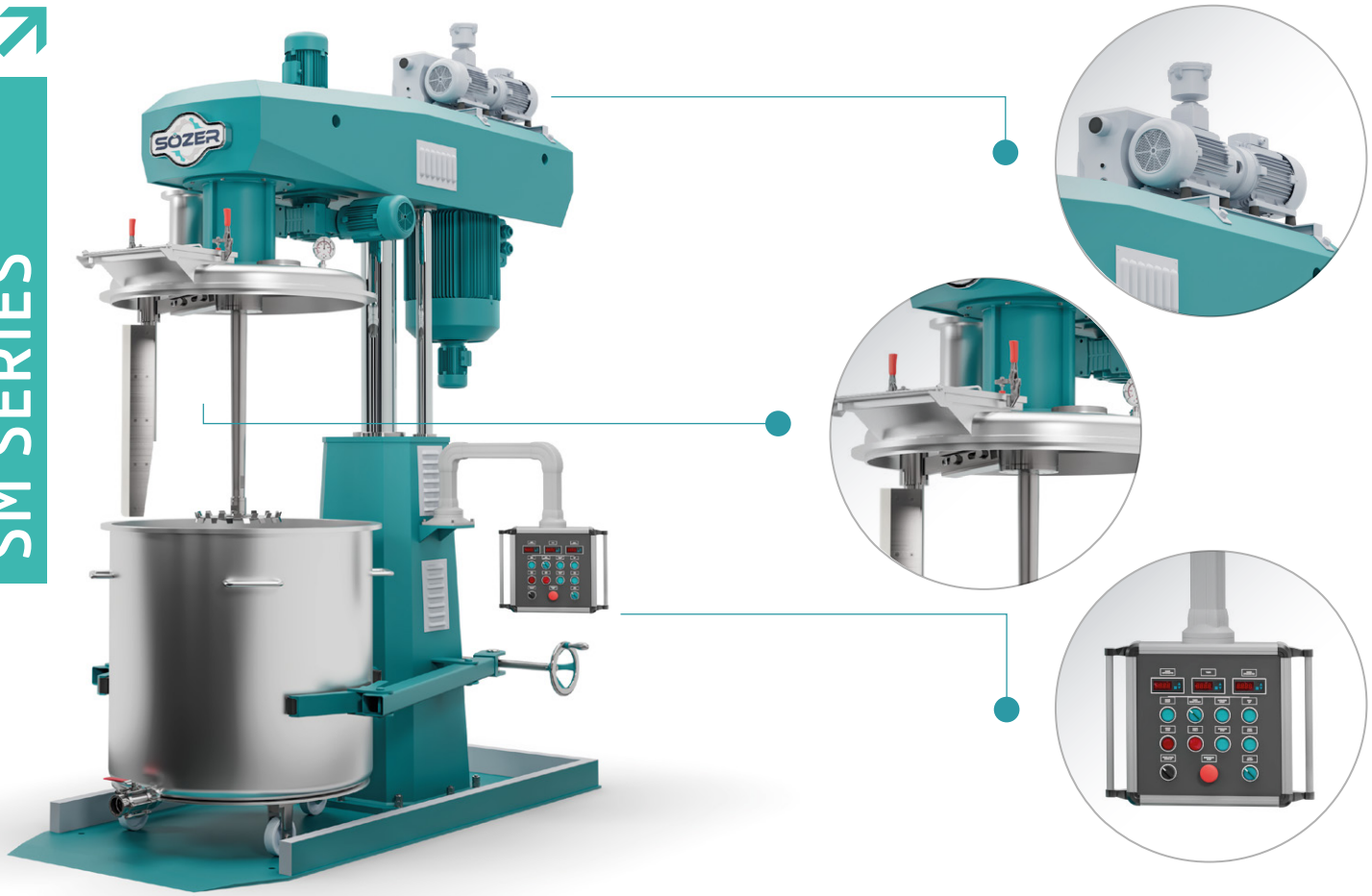
01 DISSOLVERS

High Speed Dissolver Mixers

SM SERIES



Areas of Use

These type of dissovers are developed to be applied where homogenization and dispersion is needed, such as paints, construction chemicals, or coatings, plasters, printing inks, pigment pastes, adhesives llers, mastics casting components, composite materials, cosmetic products, food products and pesticides.

Optional Specifications

There are some optional specifications like vessel side and bottom scraper system, movable and automatic vacuum system, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double type disc. Temperature measurement system, automatic up and down of the dissolver according to the level of the product in the mixing vessel, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC/PLC control system.

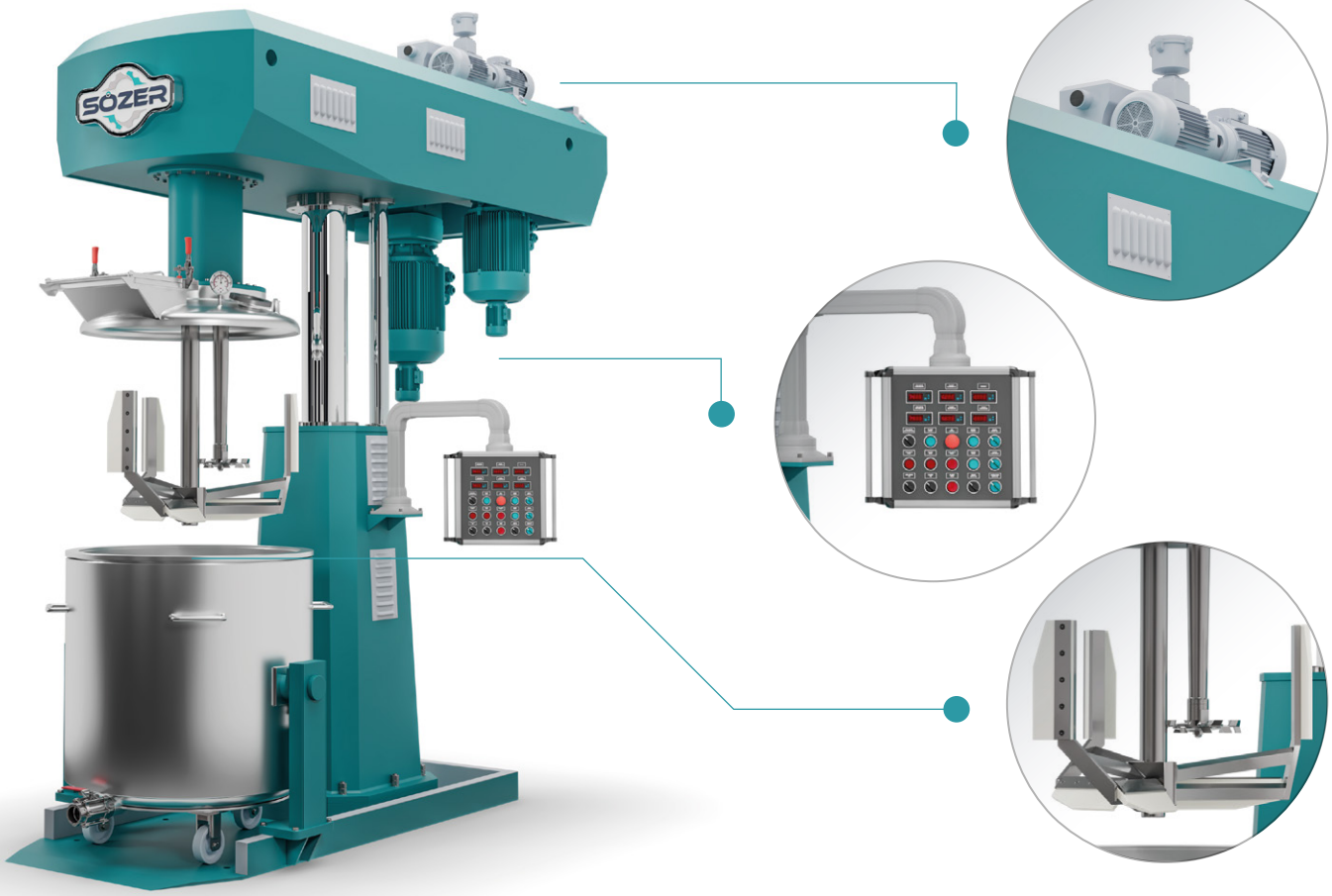
Standard Specifications

These type of dissolvers are either or mounted or platform mounted after a certain capacity. They can be used with fixed vessels or movable (mobile) vessels. In addition to our standard models, they can be produced for your projects according to your desired capacity and engine power. They have variable speed adjustirent with Frequency Inverter technology. They can move up and down over their bodies with an electro-hydraulic system, and they can make mixing at the desired height. They have cooling engines adapted to the main electric motor, which allows long-term operation at low speeds. It has a time-adjusted mixing ability as a standard specification.

Machine Type	SM 3-L	SM 10-L	SM 50	SM 100	SM 200	SM 300	SM 500	SM 1000	SM 2000
Main Engine(kW)	1,1-1,5	1,5-3	4-7,5	5,5-11	7,5-15	11-22	15-45	30-75	55-90
Mixing Speed (rpm)	0-3000	0-3000	0-1500	0-1500	0-1500	0-1500	0-1500	0-1500	0-1500
Total Volume (l)	3	10	50	100	200	300	500	1000	2000
Efficient Volume (l)	0,6-2,4	2,8	10-40	20-80	40-160	60-240	100-400	200-800	400-1600

* For higher capacity models, see platform type mixers

SM.2MIL SERIES



Areas of Use

They are used in the production of sealants, printing inks, polyester paste, silicone products, adhesives, wall paste, PU casting compounds. The butter y mixer works together with the high-speed dispersion disc to ensure mixing, homogeni- zation and dispersion in a short period.

Optional Specifications

Movable and automatic vacuum system, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double-type disc, Temperature measurement system, automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weighing system, recipe controlled semi-automatic or full automatic PC / PLC control system are optional.

Standard Specifications

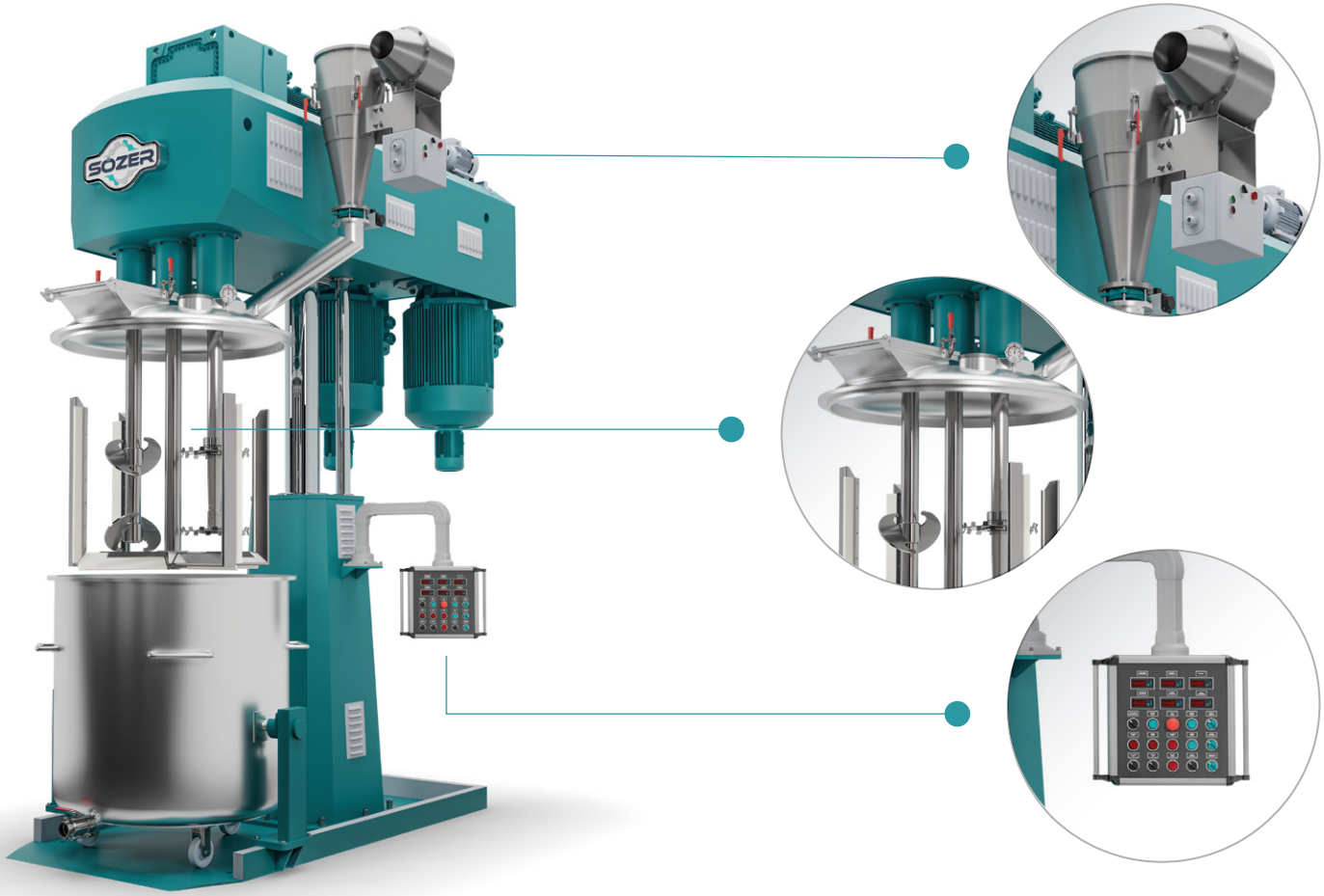
These type of mixers are either or mounted or platform mounted after a certain capacity. They can be used with fixed vessels or movable (mobile) vessels. In addition to our standard models, they can be customized for your projects according to your desired capacity and engine power. They have double-shaft designs. The mixing shaft speeds are set independent of each other, while the frequency inverter technology has variable-speed adjustment. The side scraper system is available as a standard speci cation. They can move up and down over their bodies with an electro-hydraulic system, and they can make mixing at the desired height. The cooling engines that allow long-term operation at low speeds and time-adjusted mixing ability as a standard specification.

Machine Type	SM 10-2MIL	SM 100-2MIL	SM 300-2MIL	SM 500-2MIL	SM 1000-2MIL	SM 2000-2MIL	SM 3000-2MIL	SM 5000-2MIL
Disperser(kW)	1,5 - 3	5,5 - 11	11 - 22	15 - 45	30 - 75	55 - 90	75 - 110	90 - 132
Butterfly Mixer (kW)	4 - 5,5	7,5 - 15	15 - 30	30 - 55	55 - 90	75 - 110	90 - 132	110 - 162
Disperser Speed (rpm)	0 - 3000	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1200	0 - 1200
Butterfly Speed(rpm)	0 - 700	0 - 300	0 - 300	0 - 300	0 - 300	0 - 300	0 - 300	0 - 300
Total Volume (l)	10	100	300	500	1000	2000	3000	5000
Efficient Volume (l)	2 -8	20 - 80	60 - 240	100 - 400	200 - 800	400 - 1600	600 - 2400	1000 - 4000

01 DISSOLVERS

Triple-Shaft Mixers

SM.3MIL SERIES



Areas of Use

Silicone-based products, heavy printing inks, sealants, mastic adhesives, pastes, epoxy and polysul de based high viscosity systems can be used in all areas where products need to be blended and homogenized in a short time. It has a wide range of applications as high and low speed mixing under vacuum can be applied simultaneously.

Optional Specifications

Ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double-type disc, Temperature measurement system, Automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weighing system, recipe-controlled semi-automatic or fully automatic PC / PLC control system are optional.

Standard Specifications

These type of mixers are either or mounted or platform mounted after a certain capacity. They can be used with fixed or mobile vessels. In addition to our standard models, they can be customized in accordance with your capacity and motor power for your projects. They have triple-shaft designs. The mixing shaft speeds are independent of each other and the frequency inverter technology has a variable-speed adjustment. Side scraper system and vacuum system are standard features. They can move up and down over their bodies with an electro-hydraulic system, and they can make mixing at the desired height. The cooling engines that allow long-term operation at low speeds and time-adjusted mixing ability as a standard specification.

Machine Type	SM 10-3MIL	SM 100-3MIL	SM 300-3MIL	SM 500-3MIL	SM 1000-3MIL	SM 1500-3MIL	SM 2000-3MIL	SM 3000-3MIL	SM 5000-3MIL
Disperser (kW)	1,5 - 3	5,5 - 11	11 - 22	15 - 45	30 - 75	45 - 75	45 - 90	55- 90	75 - 132
Butterfly Mixer (kW)	4 - 5,5	7,5 - 15	15 - 30	30 - 55	55 - 90	55 - 90	75 - 110	90 - 132	110 - 160
Anchor Mixer (kW)	0,75 - 1,5	4 - 5,5	7,5 - 11	11 - 15	15 - 30	22 - 45	30 - 55	30 - 55	45 - 55
Disperser Speed (rpm)	0 - 3000	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1200	0 - 1200
Butterfly Speed(rpm)	0 - 1000	0 - 400	0 - 400	0 - 400	0 - 400	0 - 400	0 - 400	0 - 400	0 - 400
Anchor Speed (rpm)	0 - 100	0 - 20	0 - 20	0 - 20	0 - 20	0 - 20	0 - 20	0 - 20	0 - 20
Total Volume (l)	10	100	300	500	1000	1500	2000	3000	5000
Efficient Volume(l)	2 - 8	20 - 80	60 - 240	100 - 400	200 - 800	300 - 1200	400 - 1600	600 - 2400	1000 - 4000

SM SERIES

Areas of Use

It is a model of high-speed mixer machines designed in high capacities for platforms. They are used in the production of paints, construction chemicals, oor coverings, plaster, printing inks, pigment pastes, adhesives, padding materials, mastics; casting components, composite materials, cosmetic products, food products, and pesticides, etc..

Optional Specifications

Many specifications are optional such as vessel side and bottom scraper system, movable and automatic vacuum system, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double-type disc, Temperature measurement system, automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC/PLC control system.

Standard Specifications

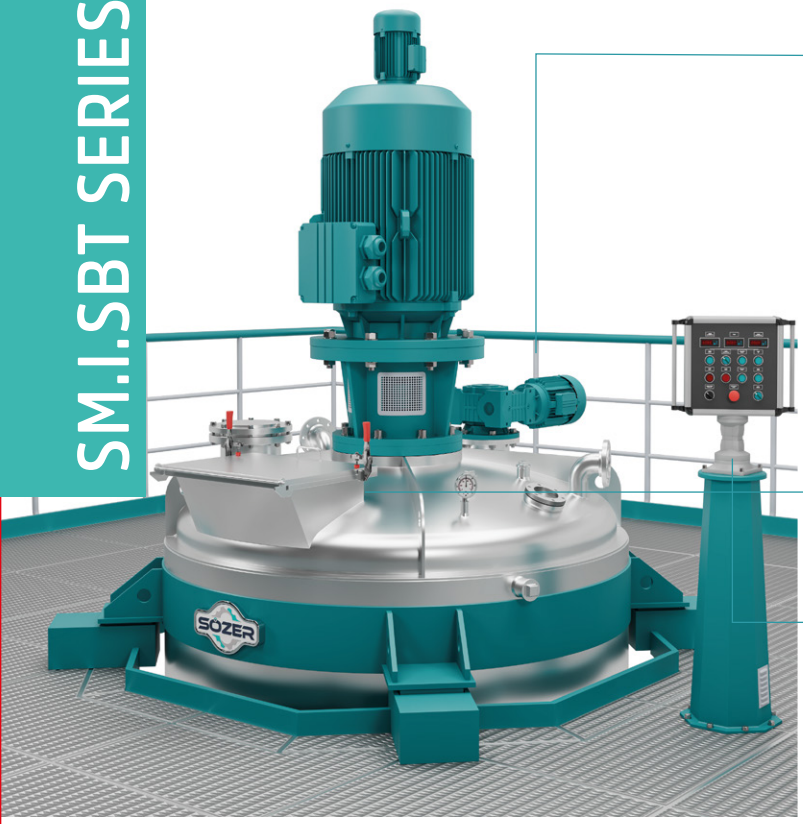
In platform type mixers, production can be made in 1,2,3 or 4 vessels with a single machine. They are ideal mixers for large capacity productions. In addition to our standard models, they can be produced for your projects according to your desired capacity and engine power. Frequency inverter technology, on the other hand, has variable-speed adjustment. They can move up and down over their bodies with an electro-hydraulic system, and they can make mixing at the desired height. They have cooling engines adapted to the main electric motor, which allows long-term operation at low speeds. It has a time-adjusted mixing ability as well.

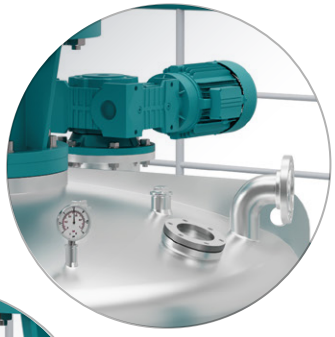
Machine Type	SM 1000-l	SM 2000-l	SM 3000-l	SM 4000-l	SM 5000-l
Disperser (kW)	30 - 75	55 - 90	75 - 90	90 - 110	110 - 132
Disperser Speed(rpm)	0 - 1500	0 - 1500	0 - 1200	0 - 1200	0 - 1200
Total Volume (l)	1000	2000	3000	4000	5000
Efficient Volume (l)	200 - 800	400 - 1600	600 - 2400	800 - 3200	1000 - 4000

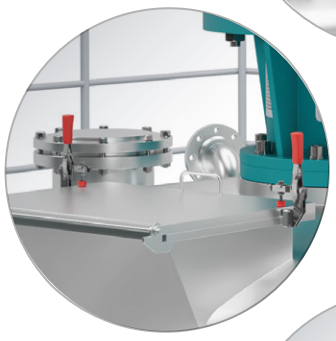
01 DISSOLVERS

High Speed Stationary Mixers

SM.I.SBT SERIES







Areas of Use

The high speed mixer is a compact form of machines produced as a closed system. They are machine types used for the production of paints, construction chemicals, or coverings, plasters, printing inks, pigment pastes, adhesives, llers, mastics, casting components, composite materials, cosmetics, food products and pesticides etc.. They can also used as coloring mixers.

Optional Specifications

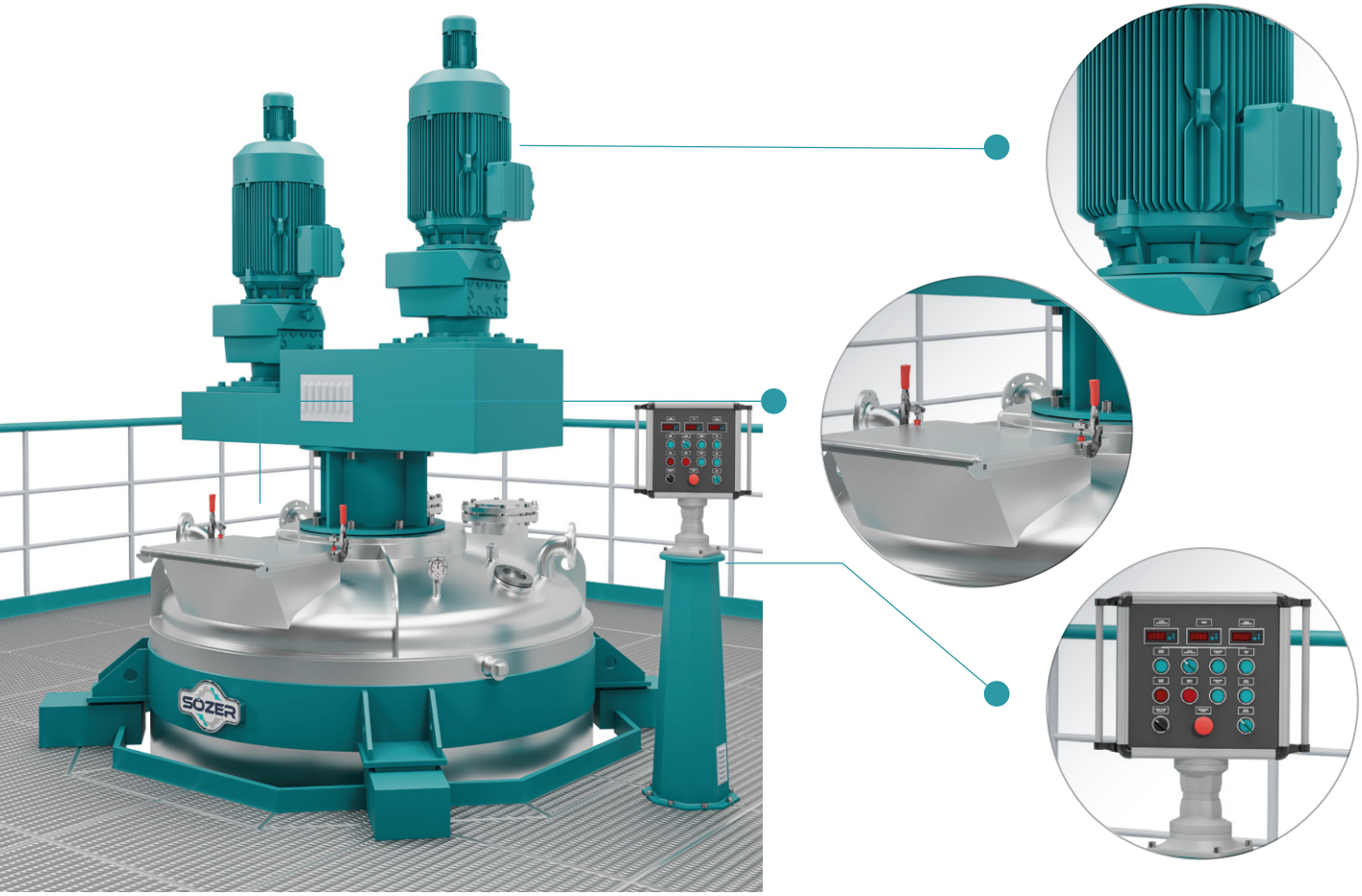
The side scraper system, automatic vacuum system, the ex-proof design in ATEX Zone 1 EEX dIIB T4 standards, double-type
disc, temperature measurement system, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC /
PLC control system are optional.

Standard Specifications

The stationary mixers, which are often mounted on a platform, can also be mounted on the ground on their feet. They are mixer types suitable for the production of large-capacity products at one time. In addition to our standard models, they can be produced in accordance with your capacity and motor power for your projects. They are mixers with shredder dispersion rotors. High speed stationary mixers are manufactured with frequency inverter technology having a variable-speed adjustment. The cooling engines that allow long-term operation at low speeds and time-adjusted mixing specifications are standard.

Machine Type	SM 1000-I.SBT	SM 2000-I.SBT	SM 3000-I.SBT	SM 4000-I.SBT	SM 5000-I.SBT	SM 6000-I.SBT	SM 8000-I.SBT	SM 10000-I.SBT	SM 15000-I.SBT
Disperser (kW)	30 - 75	55 - 90	75 - 110	90 - 110	110 - 132	132 - 160	160 - 200	200 - 250	250 - 315
Disperser Speed (rpm)	0 - 1500	0 - 1500	0 - 1500	0 - 1200	0 - 1200	0 - 1200	0 - 1200	0 - 1200	0 - 1200
Total Volume (l)	1000	2000	3000	4000	5000	6000	8000	10000	15000
Efficient Volume (l)	200 - 800	400 - 1600	600 - 2400	800 - 3200	1000 - 4000	1200 - 4800	1600 - 6400	2000 - 8000	3000 - 12000

SM.A.SBT SERIES



Areas of Use

Low-speed (agitator) mixer machines equipped with heavy-duty power are widely used in all areas where products under heavy industrial conditions require intensive and homogeneous mixing at low speeds. With its superior service factor and strong motor-reducer structure, it provides a homogeneous mixture in a very comfortable way even under the most severe conditions. They are also used for gas concrete production, base and coloring mixer and stocking tanks. They are the preferred mixer types for the production or storage of high tonnage products.

Optional Specifications

Ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double-type disc, Temperature measurement system, Automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weiging system, recipe-controlled semi-automatic or fully automatic PC / PLC control system are optional.

Standard Specifications

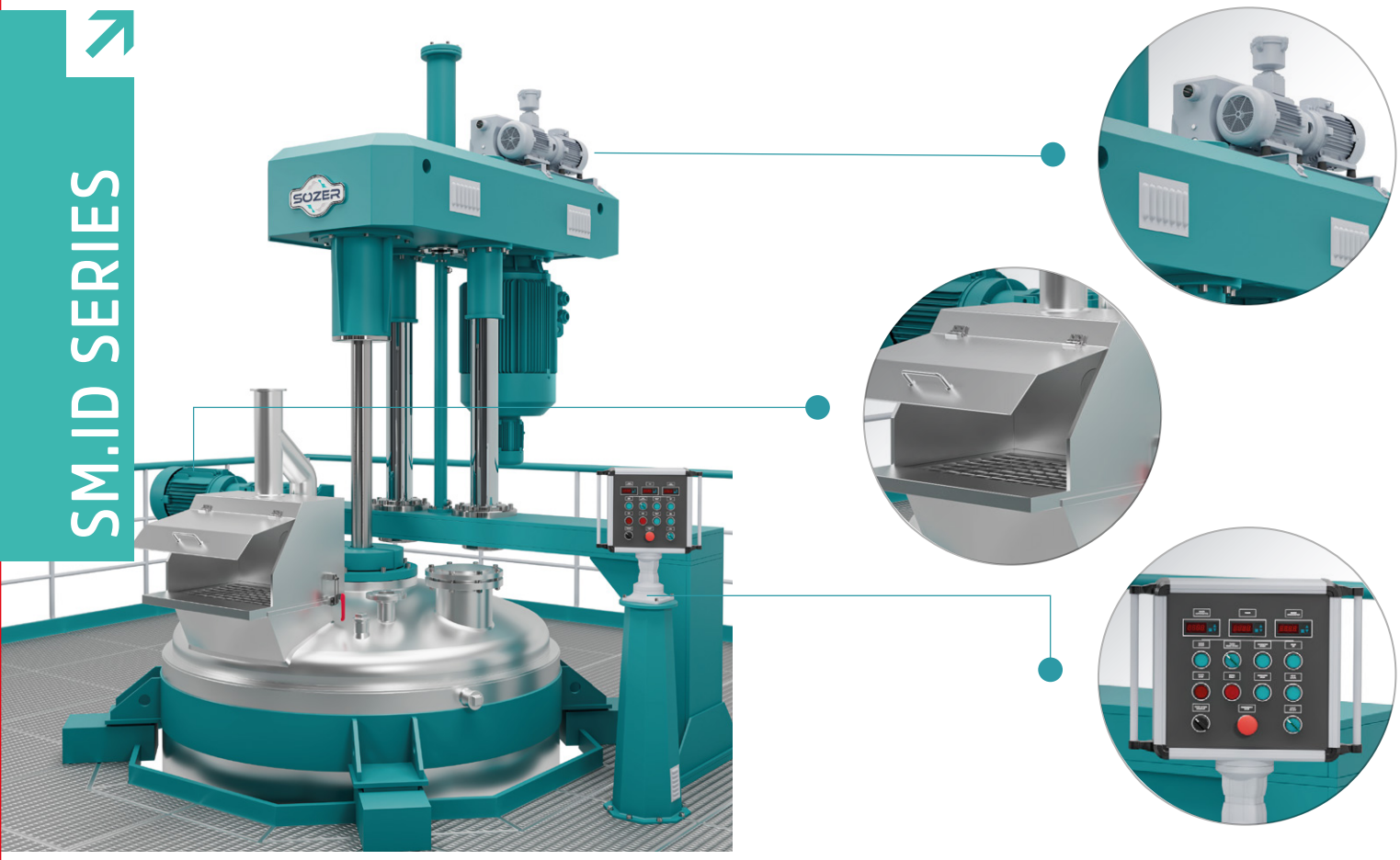
Low-speed stationary mixers, which are often mounted on a platform, can also be mounted on the ground on their feet. During the mixing process, the strong structure and design of the mixing wings make dif cult mixing conditions very simple. Top and bottom housing of the mixing shaft provides extra strength to itself. Easy dismantling and installing of the mixing shaft makes the maintenance easier. In addition to our standard models, they can be customized for your projects according to your desired capacity and motor forces. They are mixers with various designs of wing or pallet structures. Mixing is made very effectively with special engineering plastics at the ends of these wings, having a larger surface area and higher strength than the wnigs. The mixing speed can be either a xed speed or adjustable speed with frequency inverter-technology.

Machine Type	SM 1000-A.SBT	SM 2000-A.SBT	SM 3000-A.SBT	SM 4000-A.SBT	SM 5000-A.SBT
Disperser (kW)	2,2 - 11	5,5 - 15	7,5 - 22	11 - 30	15 - 30
Disperser Speed (rpm)	0 - 20	0 - 45	0 - 45	0 -60	0 - 60
Total Volume (l)	1000	2000	3000	4000	5000
Efficient Volume (l)	200 - 800	400 - 1600	600 - 2400	800 - 3200	1000 - 4000

01 DISSOLVERS

High-Speed Vertical Moving Dissolvers

SM.ID SERIES



Areas of Use

It is a model of high-speed mixer machines compact designed for high capacities. They are machine types used for the production of paints, construction chemicals, plasters, printing inks, pigment pastes, adhesives, padding materials, mastics; casting components, composite materials, cosmetic products, food products.

Optional Specifications

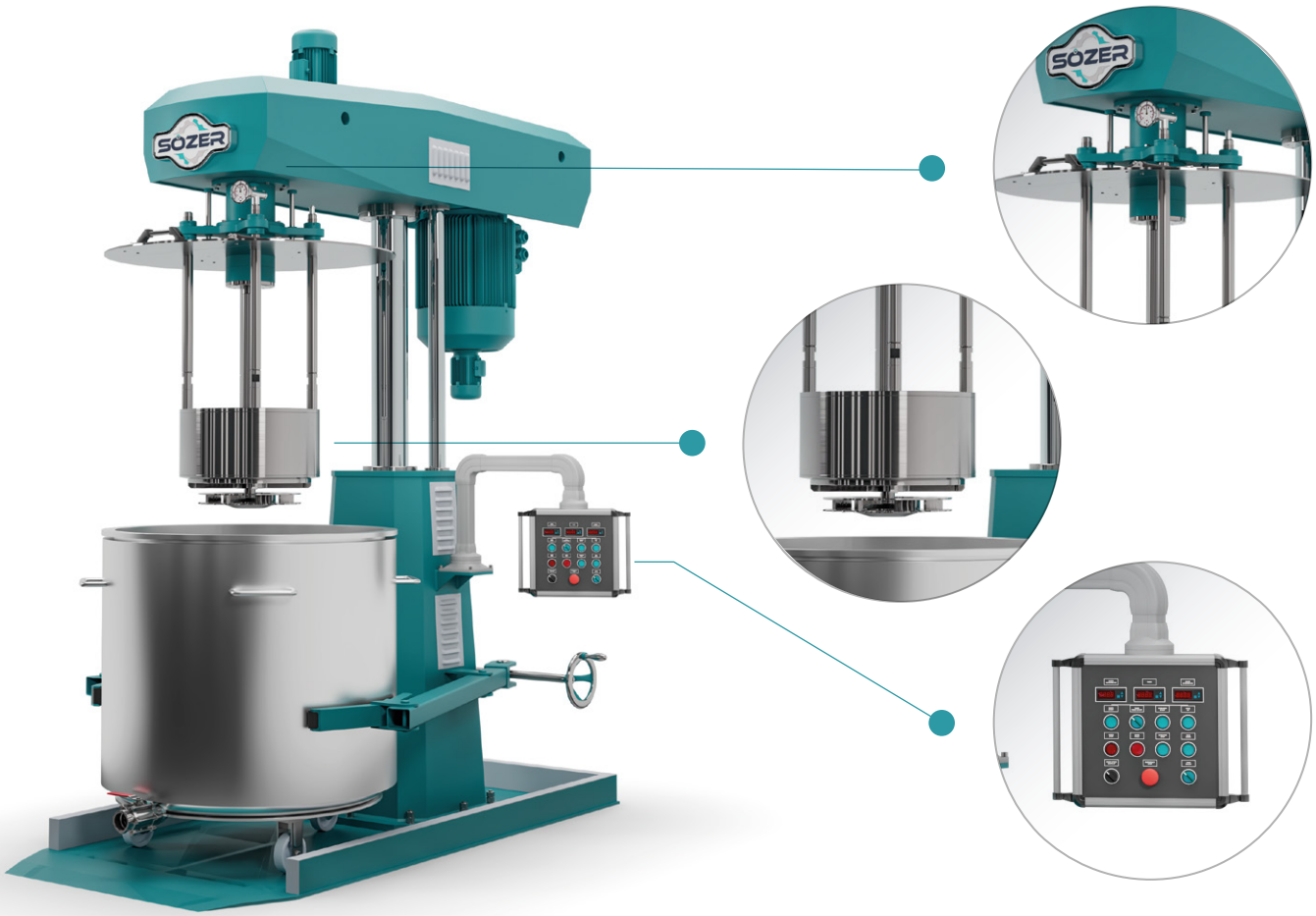
The side scraper system, automatic vacuum system, the ex-proof design in ATEX Zone 1 EEX dIIB T4 standards, double-type disc, temperature measurement system, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC / PLC control system are optional.

Standard Specifications

Vertical moving dissolvers, which are often mounted on a platform, can also be mounted on the ground on their feet. They are ideal mixers for large capacity productions. In addition to our standard models, they can be produced for your projects according to your desired capacity and engine power. Frequency inverter technology, on the other hand, has variable-speed adjustment. They can move up and down over their bodies with an electro-hydraulic system, and they can make mixing at the desired height. They have cooling engines adapted to the main electric motor, which allows long-term operation at low speeds. It has a time-adjusted mixing ability as well.

Machine Type	SM 1000-ID	SM 2000-ID	SM 3000-ID	SM 4000-ID	SM 5000-ID	SM 6000-ID	SM 8000-ID	SM 10000-ID	SM 15000-ID
Disperser (kW)	30 - 75	55 - 90	75 - 110	90 - 110	110 - 132	132 - 160	160 - 200	200 - 250	250 - 315
Disperser Speed (rpm)	0 - 1500	0 - 1500	0 - 1500	0 - 1200	0 - 1200	0 - 1200	0 - 1200	0 - 1200	0 - 1200
Total Volume (l)	1000	2000	3000	4000	5000	6000	8000	10000	15000
Efficient Volume (l)	200 - 800	400 - 1600	600 - 2400	800 - 3200	1000 - 4000	1200 - 4800	1600 - 6400	2000 - 8000	3000 - 12000

SBM SERIES



Areas of Use

They are widely used in the production of industrial paints, automotive repair paints, marine paints, leather paints, wood varnishes, various coatings, printing inks, screen printing inks, ceramic products, herbal pesticides, wax based materials and pigment and colorants where wet milling is required.

Optional Specifications

Mobile and automatic vacuum system, ex-proof design in ATEX Zone 1 EEX DIIb T4 standards, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

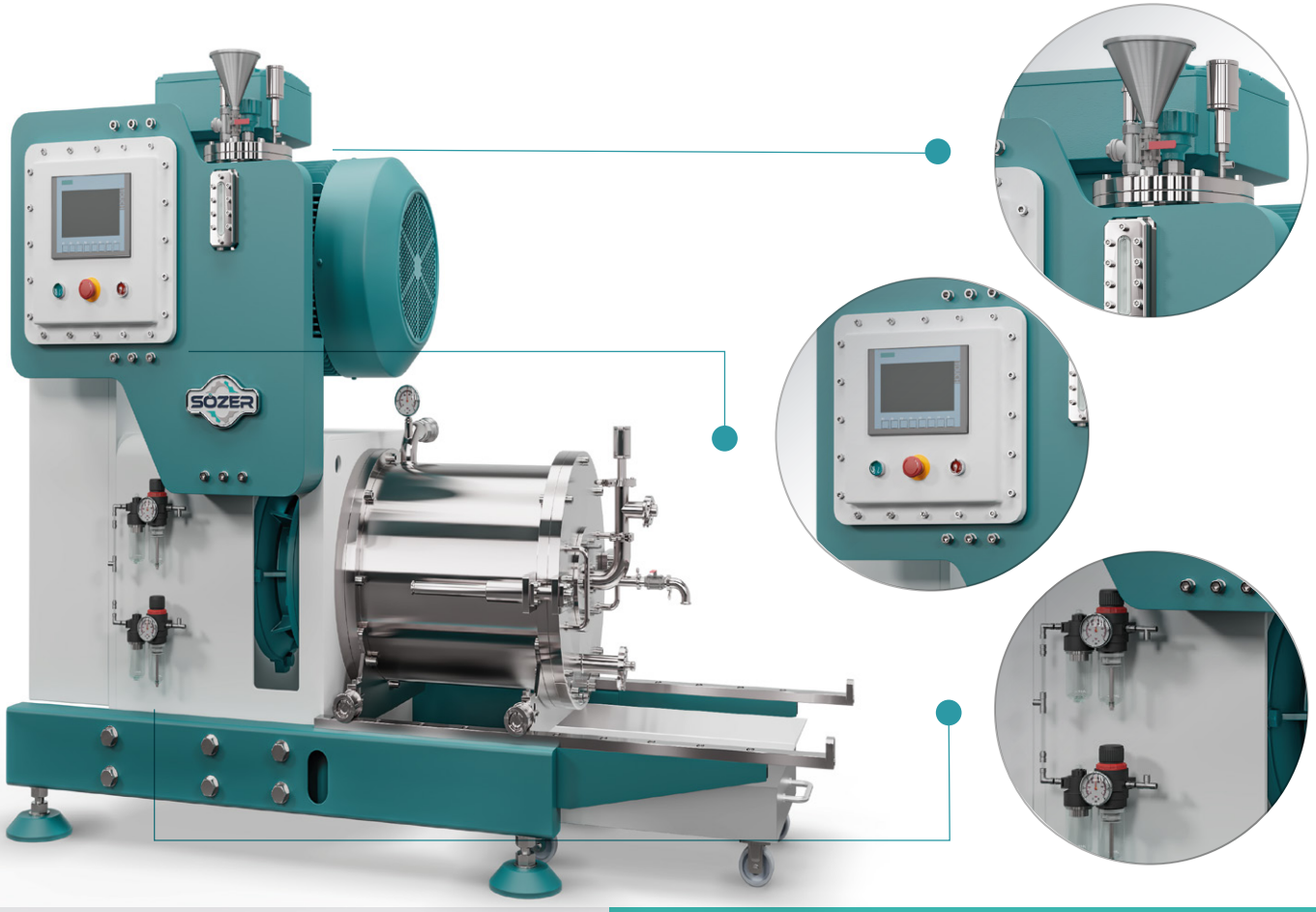
Standard Specifications

The milling basket with a superior wet milling feature used in the machine is designed to ensure a high milling ef ciency of the product. Thanks to its high-ef ciency product ow, the disc, which acts as a pump, which is located under the milling basket and contributes to dispersion, has the ability to complete the operation effectively in a short time. Both the milling basket and the jacket of the vessel provide effective temperature control. All surfaces in contact with product are made of stainless steel. The milling beads in the basket play a huge role in this machine. It has a variable-speed adjustment with the frequency inverter technology. Aside from the ability to move up and down over their body with the electro-hydraulic system, they have the ability to mill at the desired height. There are cooling motors that are adapted to the main electric motor, allowing long-term operation at low speeds. Time-adjusted milling and temperature measuring system are standard.

Machine Type	SBM 10-L	SBM 100	SBM 300	SBM 500	SBM 1000	SBM 2000
Main Engine Power (kW)	1,5 - 3	11 - 22	15 - 22	22- 37	37 - 75	55 - 90
Mixing Speed (rpm)	0 - 3000	0 - 1500	0 - 1500	0 - 1500	0 - 1000	0 - 1000
Total Volume (l)	10	100	300	500	1000	2000
Efficient Volume (l)	2 - 8	20 - 80	60 - 240	100 - 400	200 - 800	400 - 1600

Nano Horizontal Milling Machines

SMNG SERIES



Areas of Use

The usage area of nano horizontal milling machines begins in the applications where the wet milling of basket-mill machines is not sufficient. This type of machine, which can also mill in nano size, is widely used especially in continuous batch production model. It is a particularly preferred machine type for the production of nano-sized pigment milling and printing inks.

Optional Specifications

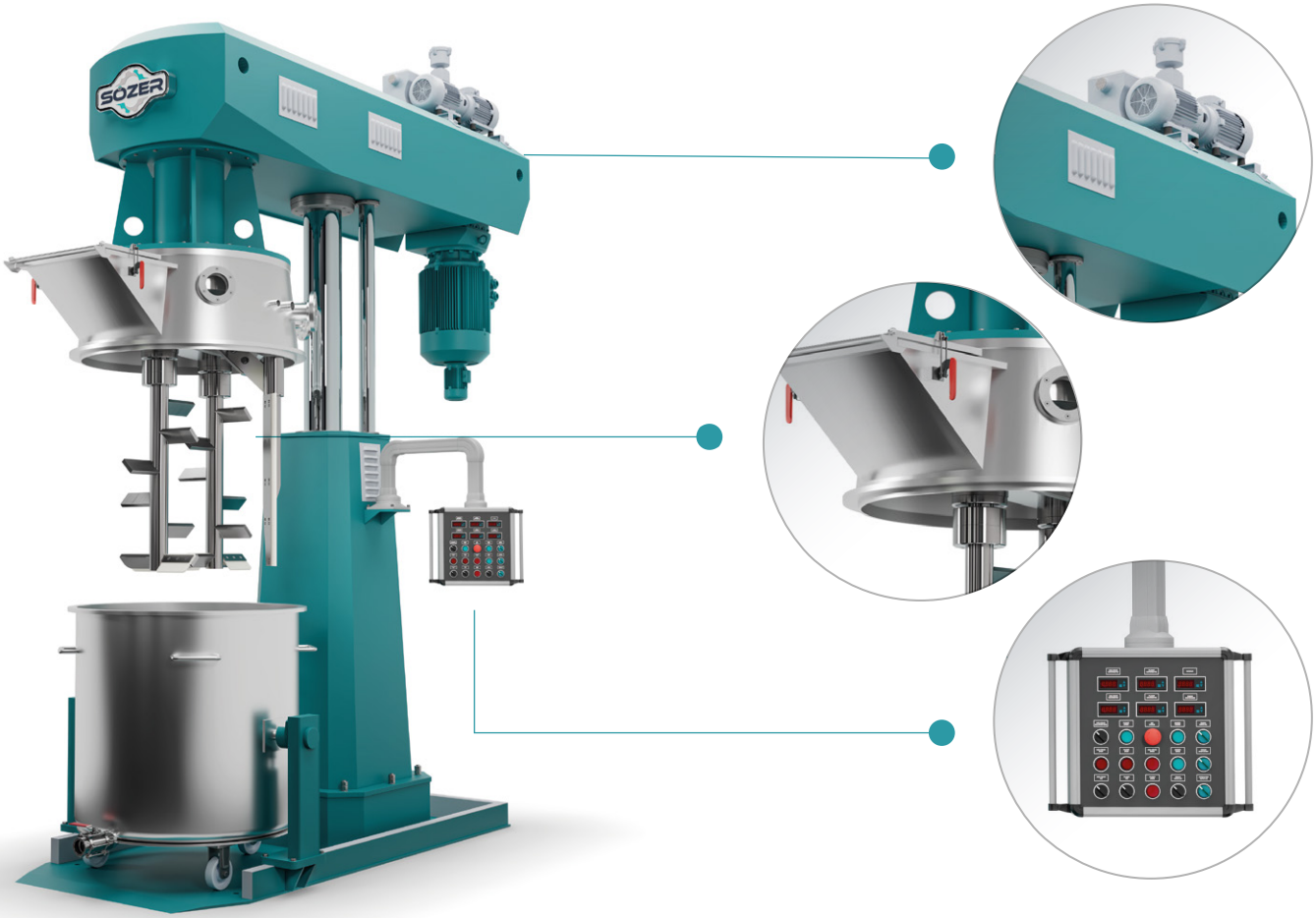
Ex-proof design in ATEX Zone 1 EEx dIIb T4 standards, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

Standard Specifications

There are two types of high-performance horizontal milling systems used in the machine. Effective performance can be achieved in both systems as a pin/peg or disc system, which can be selected according to the product to be milled. Designed for nano-scale milling of powder raw materials in liquids with its fully enclosed, sealed design for fast and effective transition. The machine can be PLC or standard control system. The machines with the PLC system, the relevant operational data such as temperature, energy consumption, milling process control and recipe management can be done easily. The machine provides an effective passage and discharge by creating a perfect centrifuge effect with its dynamic separator feature in the mechanical seal system for the milled product. All the parts which are used in the milling chamber such as pins/pegs or discs are easy to replace throughout the years when it is necessary for the maintenance purposes.

Machine Type	SMNG 10	SMNG 25	SMNG 60	SMNG 90	SMNG 150	SMNG 300	SMNG 400
Milling Chamber Total Volume (l)	18,2	46	107	167	285	488	615
Milling Chamber Effective Volume (l)	13	28	68	96	150	300	400
Batch Process (l)	80 - 1000	200 - 2000	500 - 3000	800 - 3500	3000 - 8000	5000 - 15000	5000 - 18000
Milling Shaft Speed (rpm)	350 - 1500	350 - 1500	350 - 1450	350 - 1450	250 - 900	250 - 900	250 - 900
Flow Rate (l/h)	200 - 1800	200 - 2000	500 - 3000	800 - 3500	3000 - 8000	5000 - 15000	5000 - 18000
Main Engine Power (kW)	18,5 - 22	37 - 45	75 - 90	90 - 132	132 - 160	250 - 315	355 - 415

SPK SERIES



Areas of Use

The planetary mixers are machines which are often preferred in the manufacturing of products having medium-range viscosity. They are commonly used in the pharmaceutical and food sector as well as in the production of construction chemicals, paste, silicone, sealant, pastry, sealing and sealing components, adhesive, plastisol and polyurethanes based products.

Optional Specifications

There are some optional specifications such as movable and automatic vacuum system, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Double-type disc, Temperature measurement system, automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC / PLC control system.

Standard Specifications

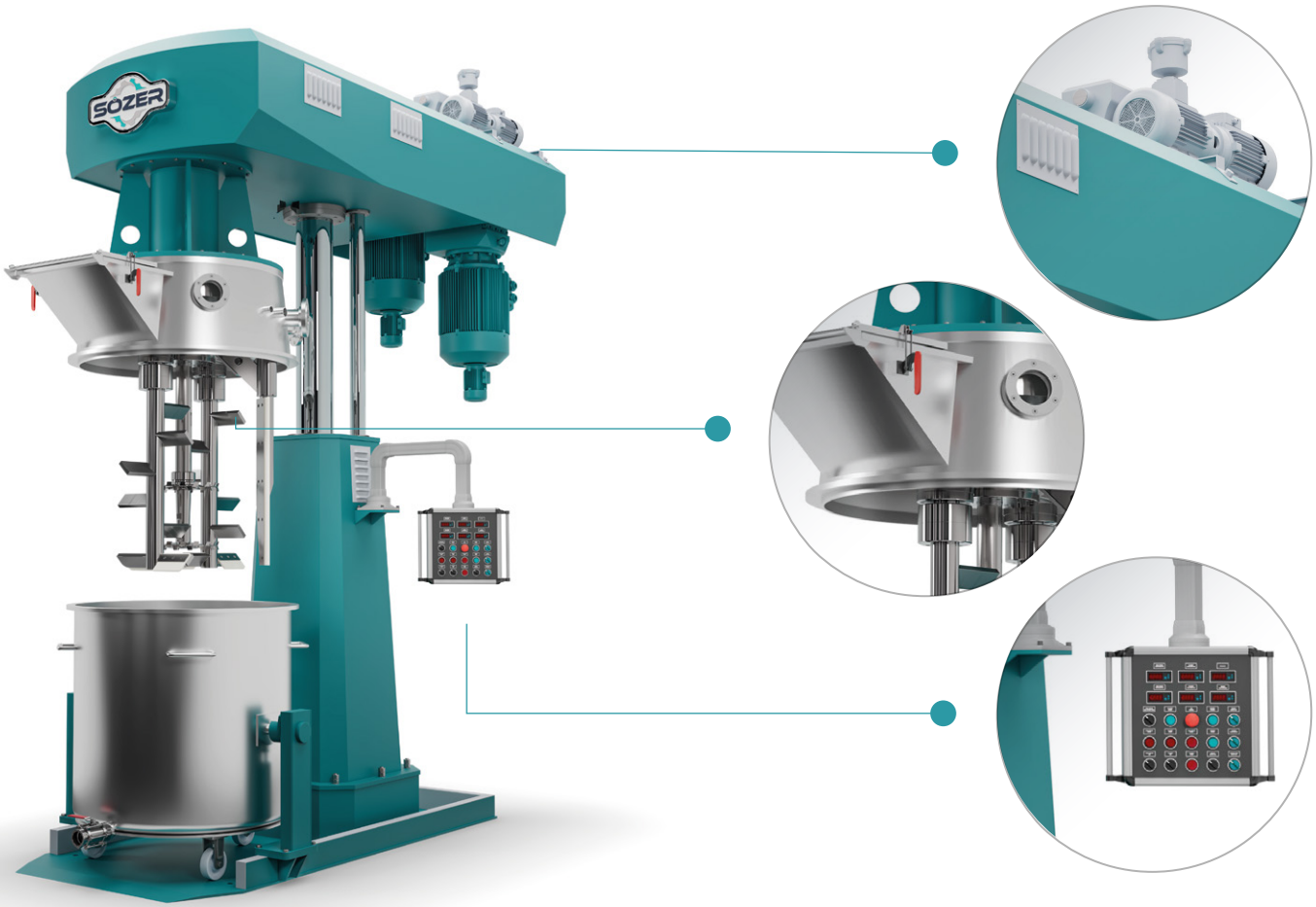
Planetary Mixers are manufactured in capacities of 50, 150, 250, 500, 1.000, 1500 and 2.000 litres. In addition to rotating around its own axis, these machines with a planetary mixing system have two mixing shafts that move around in the vessel by rotating the block to which it is connected. An ef cient and homogeneous mixture is provided in a very short time by the movement of the product from top to bottom and from bottom to top in the vessel with the help of wings placed at various angles on these shafts. Apart from the mixing shafts, the scraper arm is also of great advantage in drawing the product in the regions close to the vessel side wall. It has a variable-speed adjustment with the frequency inverter technology. A side from the ability to move up and down over their body with the electro-hydraulic system, they have the ability to mix at the desired height. There are cooling motors that are adapted to the main electric motor, allowing long-term operation at low speeds. Time adjusted mixing is a standard specification.

Machine Type	SPK 50	SPK 250	SPK 500	SPK 1000	SPK 1500	SPK 2000
Main Engine Power (kW)	2,2 - 5,5,	5,5 - 15	15 - 45	30 - 75	45 - 90	55 - 110
Mixing Speed (rpm)	0 - 80	0 - 80	0 - 80	0 - 80	0 - 80	0 - 80
Total Volume (l)	50	250	500	1000	1500	2000
Efficient Volume (l)	10 - 40	50 - 200	100 - 400	200 - 800	300 - 1200	400 - 1600

03 PLANETARY MIXER MACHINES

Combined Planetary Mixer Machines

SMPK SERIES



Areas of Use

Combined planetary mixer machines are the types of machines used in the production of products with medium and high viscosities. The range of products that can be produced in this type of machine is quite wide. Industrial paints, construction chemicals, putty, silicone, mastic derivative products, sealing and sealing elements, pigment paste, petrochemical products, paste, adhesives, plastisol and polyurethane based products, products used in agriculture, pharmacy and food sectors can be easily produced in combined planetary mixer machines.

Optional Specifications

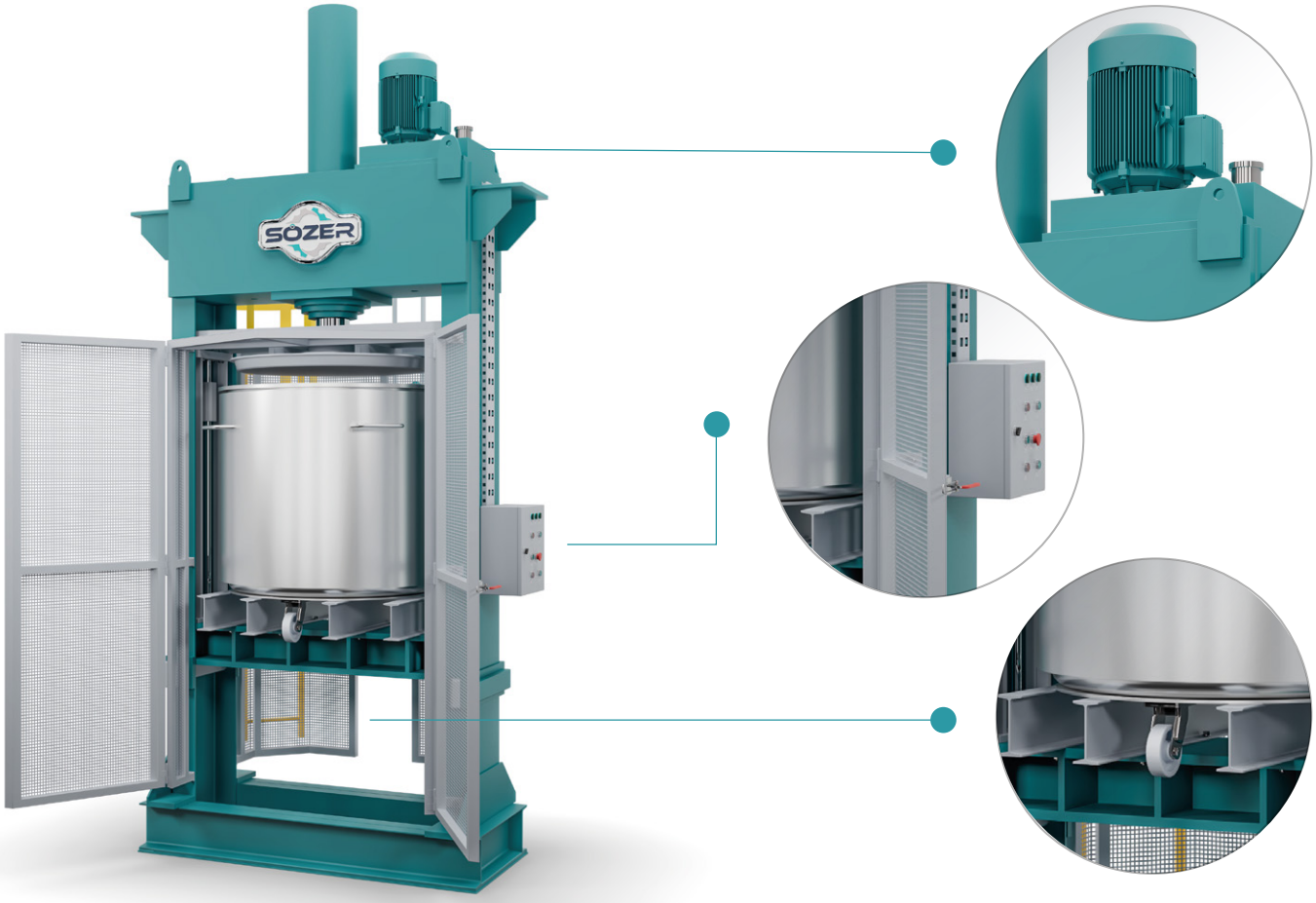
There are many optional Specifications such as movable and automatic vacuum system, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, Temperature measurement system, automatic up and down of the mixer according to the level of the product in the mixing vessel, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC / PLC control system.

Standard Specifications

There are two mixing systems on the machine. The first is the dispersion disc operating on the shaft in the center and the second is the two planetary mixing systems on the sides. In addition to the rotation of the mixing wings around its own axis, rotation of the block to which it is connected above increases the mixing ef ciency. An ef cient and homogeneous mixture is provided in a very short time by the movement of the product from top to bottom and from bottom to top in the vessel with the help of wings placed on these shafts at various angles. In addition, since there are several mixing systems, homogeneous mixing is achieved without heating the product. Apart from the mixing shafts, the scraper arm is also of great advantage in drawing the product in the regions close to the vessel side wall. Both mixing systems are adjusted independent of each other and the frequency inverter technology is adjusted with variable-speed. Aside from the ability to move up and down over their body with the electro-hydraulic system, they have the ability to mix at the desired height. There are cooling motors that are adapted to the main electric motor, allowing long-term operation at low speeds. Vessel side and bottom scraper system, time-adjusted mixing system are offered as standard.

Machine Type	SMPK 100	SMPK 500	SMPK 1000	SMPK 1250	SMPK 1500	SMPK 2000
Disperser (kW)	30	30	45	55	55	75
Planetary Mixer (kW)	22	22	30	45	45	55
Disperser Speed (rpm)	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1500	0 - 1500
Planetary Mixing Speed (rpm)	0 - 80	0 - 80	0 - 80	0 - 80	0 - 80	0 - 80
Total Volume (l)	100	500	1000	1250	1500	2000
Efficient Volume(l)	20 - 80	100 - 400	200 - 800	250 - 1000	300 - 1200	400 - 1600

SKBM SERIES



Areas of Use

It is widely used to discharge high viscosity products of various specifications from the production vessels or even use with the filling unit. Generally used in the construction chemicals manufacturing sector, the machine is able to press-out even the most intense products out of the vessel without any difficulty and perform filling or discharging process, thanks to its structure and operating system.

Optional Specifications

The system that provides the plugging the back of the cartridge in the models with cartridge filling unit, ex-proof design in ATEX Zone 1 EEx dIIB T4 standards, additional filling unit, semi-automatic or fully automatic PC / PLC control system with recipe control are offered as optional features.

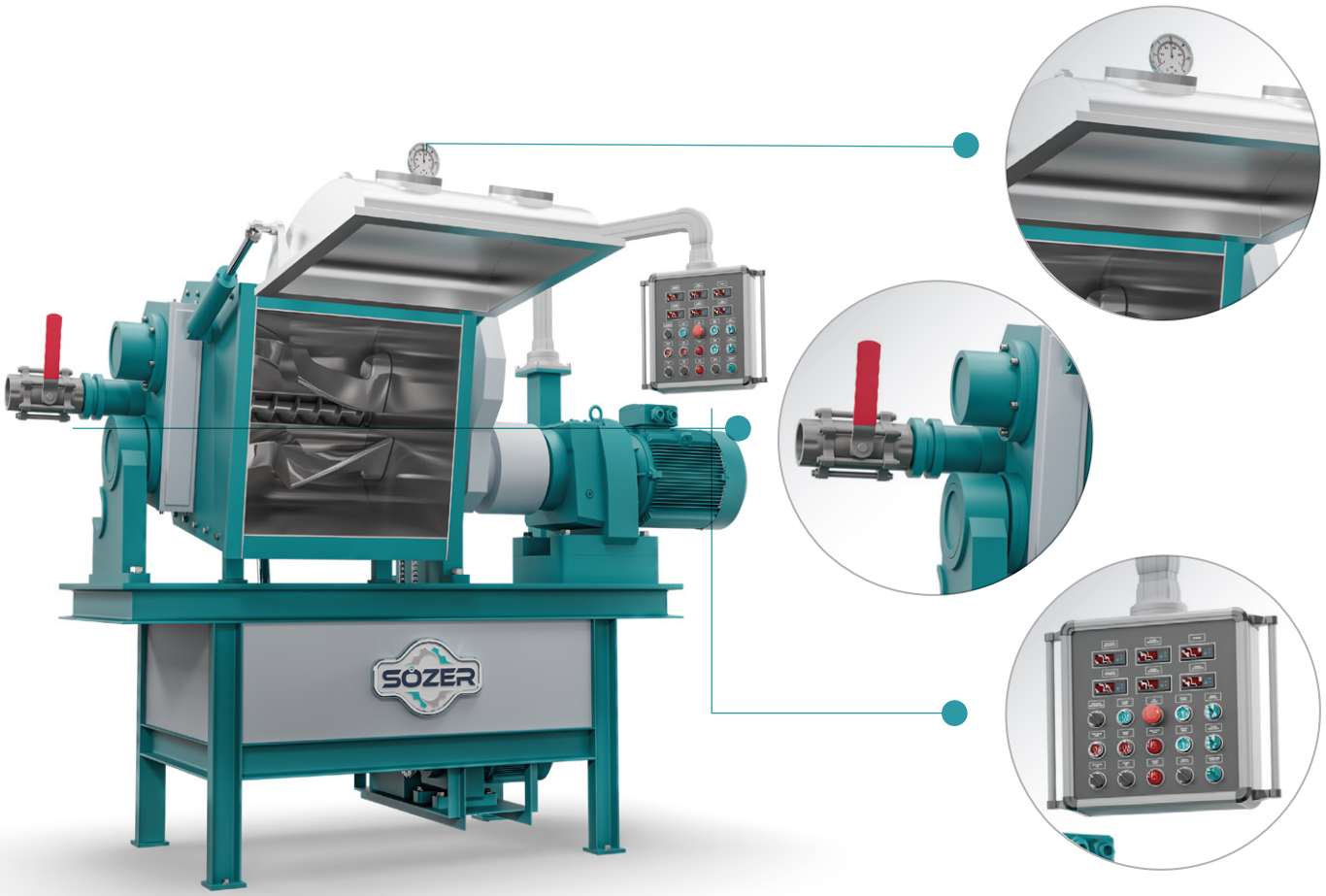
Standard Specifications

Hydraulic press-out machines which have working principle with electro-hydraulic system can be used not only for vessel discharging but also for filling. Thanks to the filling unit of the machine, it is possible to ll the buckets, cans or cartridges or both at the desired ranges provided that pre-production notification is made. The filling unit makes the filling process in a semi-automatically either volumetric or gravimetric way according to the type and filling range of the product. By specifying the filling range, the filling cylinder diameter is selected, and a specific filling range is presented to the user . It can filling from 500 gr to 30 kg as standard in models with filling unit. They are manufactured to serve vessels of standard and certain capacity of press-out machines. By changing the pressure plate, they can also serve vessels of various diameters. The chemical resistant O-ring seal around the pressure plate, which is suitable for the inner diameters of the vessels, ensures complete sealing. The maximum pressure applied by the hydraulic piston to the product in the vessel through the pressure plate is 180 bar and this pressure is adjustable by the operator depending on the viscosity of the product.

Machine Type	SKBM 500	SKBM 1000	SKBM 1500	SKBM 2000
Main Engine Power (kW)	7,5	7,5	7,5	11
Pressure (Max Bar)	180	180	180	180
Hydraulic Stroke (mm)	1000	1000	1200	1600
Pressure Plate Diameter (mm)	900	1000	1250	1300
Discharge Volume (l)	500	1000	1500	2000

Zet Kneader Machines

SHK SERIES



Areas of Use

Zet-Mixer machines are used in the manufacturing of high-viscosity products like hotmelt adhesives, rubber, bmc and smc compound, glass ber reinforced products, lining production industries, solid fuels and heavy plastisols. Rotation of the specially shaped "Z" mixing pallets with a horizontal mixing system in the vessel at different speeds and in both directions, provides an extremely homogenous kneading and mixing. For this reason, they are widely preferred in the food industry as well.

Optional Specifications

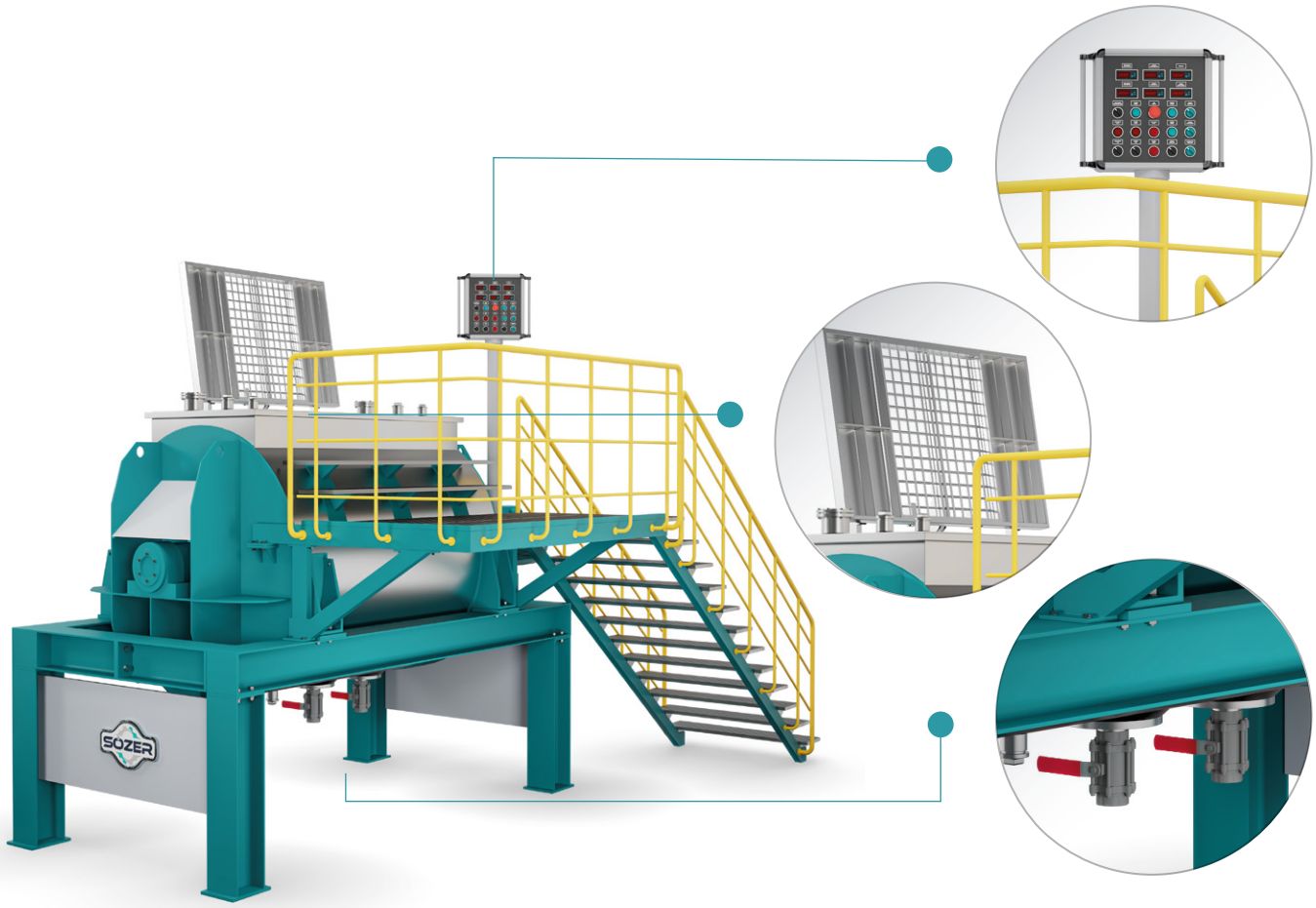
İn models with cartridge filling, the system that allows the cartridge back plug to be installed, Atex & Ex-Proof design, additional filling unit, recipe-controlled semi-automatic or fully automatic PC/PLC control system are offered as optional features.

Standard Specifications

The internal walls of the mixing vessel made of AISI 304-L quality stainless steel and the mixing pallets made of steel casting are standard. In addition, it is also offered as a standard feature that the product discharge screw (extruder) can work in both directions as well as "Z' mixing pallets. Thanks to the special form of the mixing pallets, it offers an effective mix in a much shorter time than conventional "Z" type mixers. There are two different types of discharge system in the machine. In extruder models, the product inside the vessel is taken out of the vessel with the help of extruder (worm screw). In tilting models, the vessel is rotated at an angle of 110 degrees with the help of pneumatic or, in some models, hydraulic systems, and the product is taken out of the vessel. Zet-Mixer machines are manufactured as laboratory and production models in standard capacities.

Machine Type	SHK 50	SHK 100	SHK 300	SHK 600	SHK 1000	SHK 2000
Main Engine Power (kW)	3 - 11	5,5 - 22	11 - 30	22 - 55	45 - 90	90 - 132
Extruder Power (kW)	1,5 - 5,5	2,2 - 7,5	4 - 15	5,5 - 22	22 - 30	37 - 55
Mixing Speed (rpm)	20 - 30	20 - 30	20 - 30	20 - 30	20 - 30	20 - 30
Total Volume (l)	50	100	300	600	1000	2000
Efficient Volume (l)	13 - 35	25 - 68	75 - 205	150 - 420	250 - 700	500 - 1400

SMP SERIES



Areas of Use

Horizontal mixer machines are generally used for mixing high viscosity materials with at least a degree of uidity such as satin plaster, putty, sealant, paste, sealants, polyurethane-based products, and pre-paint application systems. They are also types of machines that can be used to stock nished products. Horizontal mixer machines are an attractive machine type for the production of high viscosity products thanks to their high-power transmission despite their large machine dimensions.

Optional Specifications

Ex-proof design in ATEX Zone 1 EEX DIIb T4 standards, load-cell weighing system, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

Standard Specifications

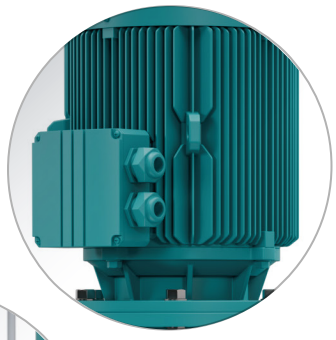
The horizontal mixer machines have wings placed at regular intervals on the horizontal shaft in the vessel. The arc-shaped pallets at the ends of these arms have polyethylene scraper blades resistant to chemical products. With the help of strong structure arms, the product in the vessel can mix very homogeneously in a very short time. Thanks to the scraper blades, the mixing time is shortened, and the inside of the vessel is peeled off and the cleaning process for the next production is also assisted. As standard, all surfaces in contact with the product are made of AISI 304 quality stainless steel. It has an built-in platform for convenient raw material loading. As a standard, mixing speed can be adjusted with speed control frequency inverter. Cooling system is used to prevent high temperatures and performance degradation of sealing equipment used in Mixer shaft bearings.

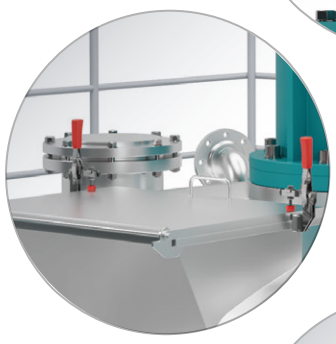
Machine Type	SMP 1700	SMP 2500	SMP 3500	SMP 7000
Main Engine Power (kW)	22	30	37	55
Mixing Speed (rpm)	0 - 35	0 - 35	0 - 35	0 -35
Total Volume (l)	1700	2500	3500	7000
Efficient Volume (l)	340 - 1360	500 - 2000	700 - 2800	1400 - 5600

07 PLASTER MIXER MACHINES

Plaster Mixer Machines

SHSM SERIES





Areas of Use

Plaster mixer machines are generally used for the homogeneous and effective mixing of the products which are denser than the paint containing the particles such as sand or aggregate in plaster style, which is used in exterior coating applications. Since the mixing process is carried out at a low speed, sand and aggregate-like particles can be mixed very homogeneously in the mixture.

Optional Specifications

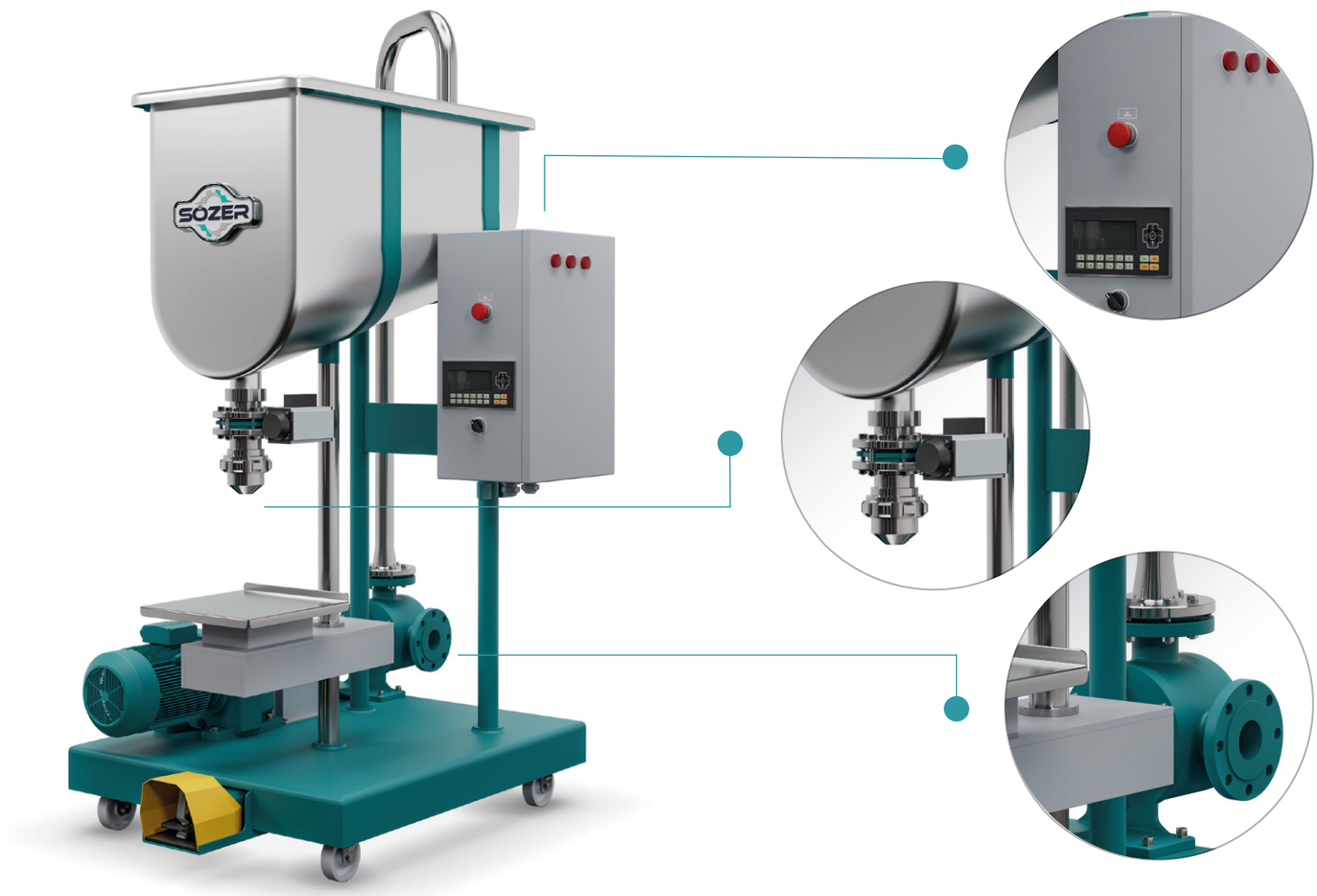
The edge and base scraper system, automatic vacuum system, the ex-proof design in ATEX Zone 1 EEX dIIB T4 standards, temperature measurement system, weight measuring system, recipe controlled semi-automatic or fully automatic PC / PLC control system are optional.

Standard Specifications

Plaster mixer machines are designed in two different ways: fixed or movable models. Fixed models are usually placed on the platform because of their large capacity. In the movable models, the machine can be manufactured with electro-hydraulic system, which can move up and down over its own body or serve up to four around the machine. In the plaster mixer machines with low-speed mixing system, the mixing process is carried out by the angled conical cups. In addition to our standard models, they can be produced in accordance with your desired capacity and engine power according to your projects. Time-adjusted mixing is a standard feature.

Machine Type	SHSM 1000	SHSM 2000	SHSM 3000	SHSM 5000	SHSM 8000
Main Engine Power (kW)	15 - 30	18,5 - 45	22 - 55	30 - 75	45 - 90
Mixing Speed (rpm)	0 - 500	0 - 500	0 - 500	0 - 500	0 - 500
Total Volume (l)	1000	2000	3000	5000	8000
Efficient Volume(l)	200 - 800	400 - 1600	600 - 2400	1000 - 4000	1600 - 6400

STM-P SERIES



Areas of Use

In addition to being used for paint filling and weighing, especially in the chemical industry, these are the types of machines in which all kinds of liquids of suitable viscosity with fluidity in the cosmetic and food industry are weighed first and then semi-automatically filled. Liquid product filling and weighing machines are quite serial, practical and easy to clean machines. It is capable of filling and weighing up to 6 – 30 pieces per minute (depending on the volume of the product container to be filled and the viscosity of the product) in any desired range from 500 gr to 30 kg.

Optional Specifications

Different sizes of nozzle systems, lid closing and conveyor lines, ex-proof design in ATEX Zone 1 EEX dIIBT4 standards, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

Standard Specifications

The machine is equipped with a pumping system as standard. The level detection system in its own filling vessel automatically activates and deactivates the pump when the product in the production vessel runs out, ensuring that the filling tank remains full.

Weighing and filling quantity inputs are made electronically with the help of a load cell and an indicator system, which is standard. An intelligent indicator system provides automatic calibration for each filling and ensures highly precise measurements.

All surfaces that come into contact with liquid, such as the machine vessel, filling nozzles, and level measuring rod, are made from AISI 304-L quality stainless steel. The machine is supplied with two different filling nozzles for small and large fillings.

The machine is manufactured on a wheeled chassis as standard, allowing it to be moved to the desired location. The height of the weighing scale, where the empty container is placed, is designed to be adjustable.
The machine requires 6 bars of compressed air to operate.

Machine Type	STM-P
Weighing Range (kg)	0,5 - 30
Pump Power (kW)	3 - 5,5
Vessel Volume (l)	200
Required Air Pressure (Bar)	6

Intensive Product Filling And Weighing Machines

STM-PTY SERIES

Areas of Use

Especially in the chemical industry, it is a type of machine where products such as putty, grease, printing ink, which have high viscosity without their own fluidity, are first weighed and then semi-automatically filled. Intensive product filling and weighing machines are very fast, practical and easy to clean. It is capable of filling and weighing up to 6 - 30 pieces per minute (depending on the volume of the product container to be filled and the viscosity of the product) in any desired range from 500 gr to 30 kg.

Optional Specifications

Different sizes of nozzle systems, lid closing and conveyor lines, ex-proof design in ATEX Zone 1 EEX dIIBT4 standards, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

Standard Specifications

The machine is equipped with a helical eccentric screw pump system as standard. This system ensures that the nozzles are properly fed, allowing for efficient and accurate filling. The machine includes two filling nozzles, each fitted with separate load cells and indicators, enabling simultaneous filling on both sides if required.

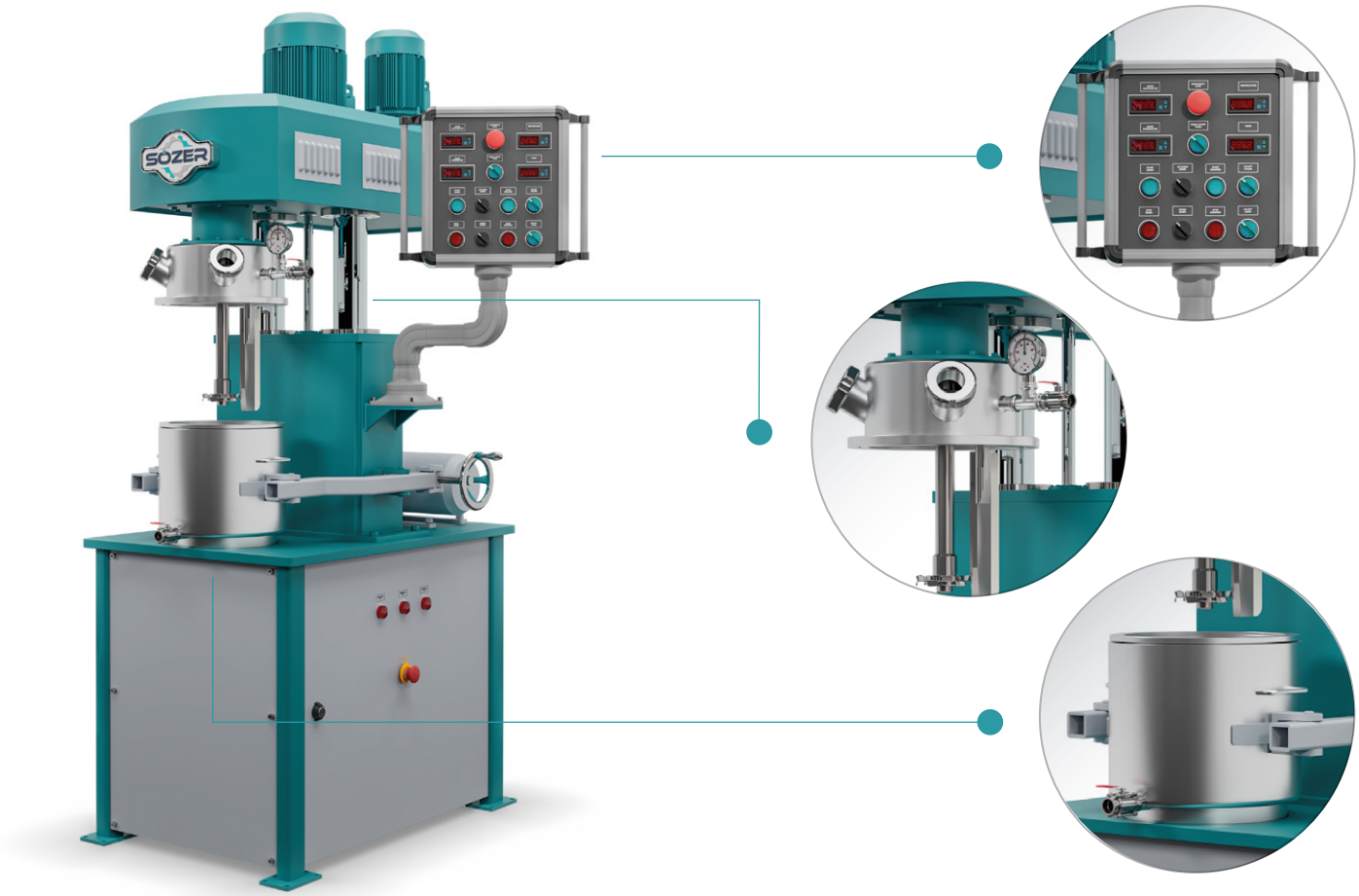
With its smart indicator system, the machine performs precise and automated filling for every operation. It is designed to accommodate various container sizes, featuring two different filling nozzles for small and large containers. Additionally, the height of the weighing scale, where the empty container is placed, is fully adjustable to suit different needs.

For optimal operation, the machine requires 6 bars of compressed air.

Machine Type	STM-PTY
Weighing Range(kg)	0,5 - 30
Pump Power (kg)	7,5 - 15
Necessary Air Pressure (Bar)	6

Laboratory Type High Speed Dissolver Machines

SML SERIES



Areas of Use

These mixers developed for laboratories for pilot production purposes in trials or product development where homogenization and dispersion is required such as paints, construction chemicals, oor coatings, plasters, printing inks, pigment pastes, adhesives; llers, sealants, casting components, composite materials, cosmetic products, food products and pesticides.

Optional Specifications

Different types of mixing equipment, the specification of moving up and down over its own body with an electro-hydraulic system, a scraper system movable on the edge and base, automatic vacuum system, double-type disc propeller, temperature measurement system, the ex-proof design in ATEX Zone 1 EEX dIIB T4 standards, recipe controlled semi-automatic or fully automatic PC / PLC control system are optional.

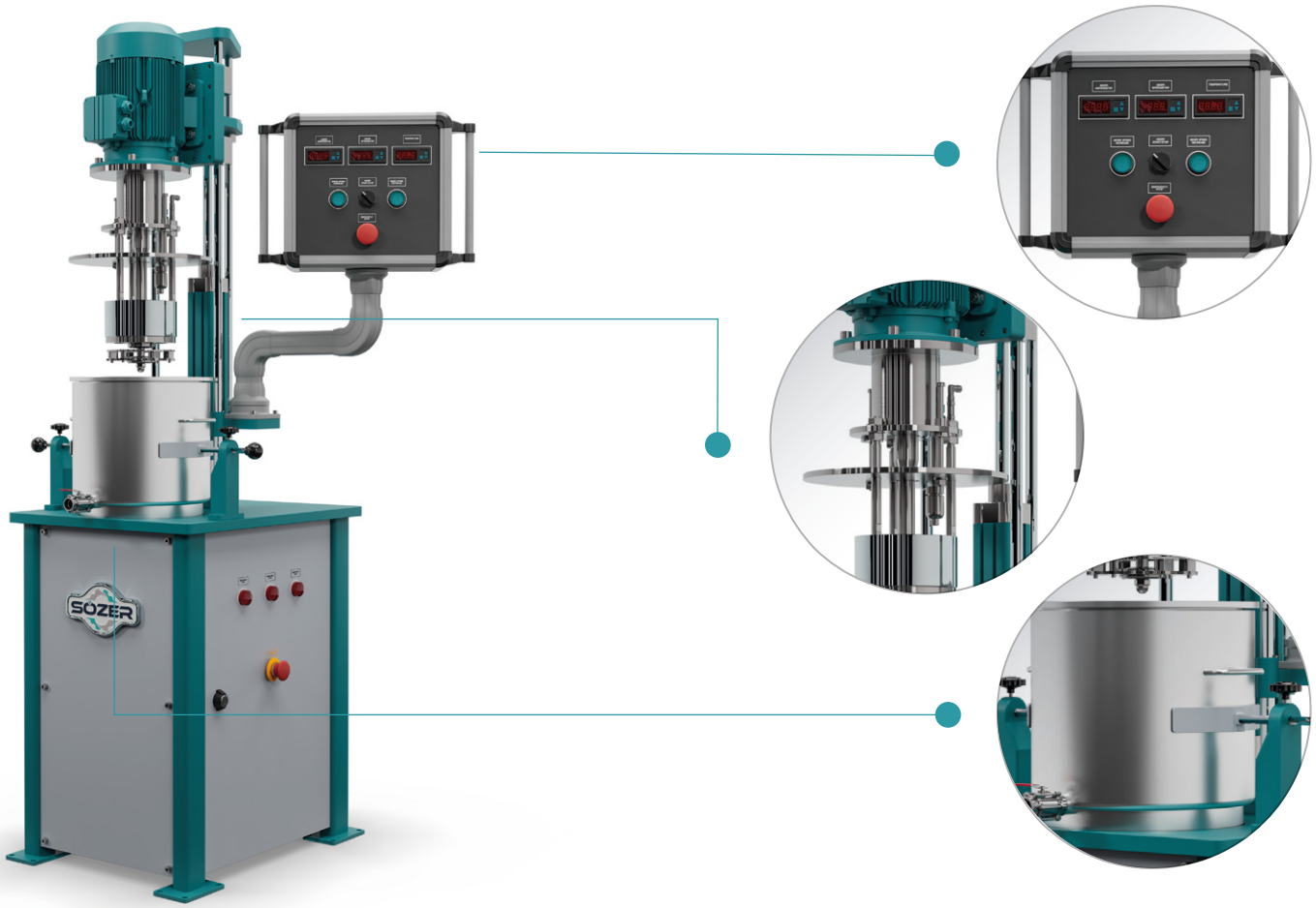
Standard Specifications

These mixers, designed for laboratories, are very practical and have a very compact design. In addition, it has a very strong design with its own table as standard. In this respect, they can easily perform highly homogeneous mixing, dispersion and milling up to a certain level. As standard, two different diameter mixer propellers are supplied with the machine. In addition to our standard models, they can be manufactured for your projects according to your desired capacity and engine power. It has varible-speed adjustment with the frequency inverter technology. It has a time-adjusted mixing property.

Machine Type	SM 3-L	SM 10-L	SM 50-L
Main Engine Power (kW)	0,37 - 2,2	1,1 - 3	3 - 7,5
Mixing Speed (rpm)	0 - 3000	0 - 3000	0 - 1500
Total Volume (l)	3	10	300
Efficient Volume (l)	0,6 - 2,4	2 -8	10 - 40

Laboratory Type Basket-Mill Machines

SBML SERIES



Areas of Use

These machines are developed for laboratories for pilot production or test applications where wet grinding and milling is required for the manufacturing of industrial paints, automotive repair paints, marine paints, leather paints, wood varnishes, various coatings, printing inks, screen printing inks, ceramic products, herbal and agrochemicals, wax-based materials and pigment and coloring products.

Optional Specifications

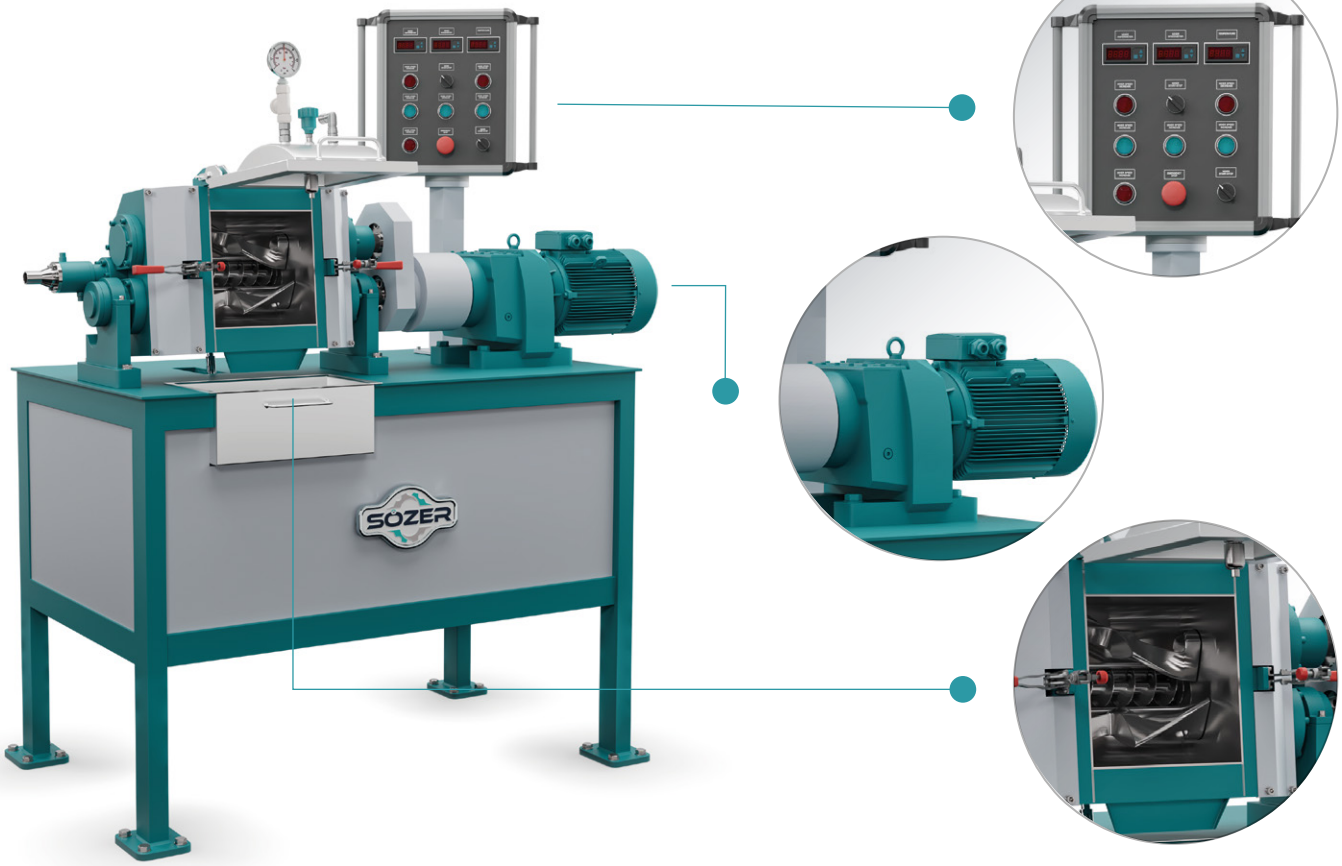
The ability to rise and fall on its own body with an electro-hydraulic system, automatic vacuum system, Atex & Ex-Proof design, semi-automatic or fully automatic PC / PLC control system with recipe control are offered as optional features.

Standard Specifications

This type of basket-mill machines designed for laboratories is very practical and compact. Milling basket with a superior wet milling feature, which is used in the machine, has been designed to ensure high milling of the product. Thanks to its high-ef ciency product ow and the propeller operating under the milling basket which also contributes to dispersion, it has the feature of completing the operation effectively in a short time. Both the milling basket chamber and the wall of the vessel provide effective temperature control. All wet surfaces are made of stainless steel. The milling beads in the basket play a large role in this machine. The frequency inverter technology has variable-speed adjustment. Time adjustment and temperature measurement systems are standard.

Machine Type	SBM 3-L	SBM 10-L	SBM 50-L
Main Engine Power (kW)	0,55 - 3	1,5 - 4	4 - 11
Mixing Speed (rpm)	0 - 3000	0 - 3000	0 - 1500
Total Volume (l)	3	10	300
Efficient Volume (l)	0,6 - 2,4	2 -8	10 - 40

SHKL SERIES



Areas of Use

These mixers are produced for laboratories for pilot production in the tests or development of products whose viscosity pretty high like hotmelt adhesives, rubber, bmc and smc pulp, glass ber reinforced products, lining manufacturing industries, solid fuels, and heavy plastisols.

Optional Specifications

Double-jacket vessel system for heating or cooling, the mixing pallets with AISI 304 or 316 stainless steel cast-in, the jet lter system, the speed setting of the mixing pallets and extruder systems with a frequency inverter, vacuum systems, ex-proof design in the T4 ATEX Zone 1 EEX dIIB standards, temperature measurement system, recipe controlled semi-automatic or fully automatic PC / PLC control system are optional.

Standard Specifications

This type of Zet-Mixer machine, designed for laboratories, features a stylish and space-saving design. The inner walls of the mixing tank are made entirely of AISI 304-L quality stainless steel, while the mixing paddles are made of cast steel. Additionally, the pallets and the product discharge screw (extruder) can operate in both directions in extruder models, which is offered as a standard feature. Thanks to the special shape of the mixing paddles, the machine provides an efficient mixture in a much shorter time compared to classic "Z" type mixers. There are two different types of discharge systems in the machine: Extruder Models, where the product is discharged from the tank using an extruder (worm screw), and Tilting Models, where the tank is rotated at an angle of 110 degrees with the help of a pneumatic or, in some models, a hydraulic system, allowing the product to be discharged from the tank. Zet-Mixer machines are available in laboratory and production models with standard capacities.

Machine Type	SHK 06	SHK 3	SHK 5
Main Engine Power (kW)	0,37 - 1,5	1,5 - 3	1,5 - 4
Extruder Power (kW)	-	0,37 - 0,55	0,370 - 0,55
Mixing Speed (rpm)	20 - 30	20 - 30	20 - 30
Total Volume (l)	0,6	3	5
Efficient Volume (l)	0,15 - 0,42	0,75 - 2,1	1,25 - 3,5

DIN Viscosity Flow Cups

SDC SERIES

Areas of Use

It is widely used for quick and effective comparison of low viscosity fluids in laboratory environment. It is often preferred to measure the viscosity of products such as paint, varnish, ink.

Optional Specifications

The tripod carrier on which Din Cup will be placed, the handle to be used by dipping in to the product are optional.

Standard Specifications

The main body is manufactured from solid aluminum material in accordance with DIN 53211 standards and in a precise manner in a CNC processing center. The stainless steel orifice is placed in the Din Cup gloss hole with ±0.02 mm precision. Din Cup, whose inner and outer surfaces are completely polished, also minimizes time loss in terms of cleaning. The viscosity of any liquid to be measured is expressed as the passage time of a certain hole diameter from a Din Cup with a volume of 100 ml. By keeping the inner geometry and structure of the container the same, containers with 2,3,4,6,8 mm. outlet hole diameters can be manufactured as standard. The passage time is measured with the help of a chronometer.

Product type	SDC 2	SDC 3	SDC 4	SDC 6	SDC 8
Hole Diameter (mm)	2	3	4	6	8
Viscosity Range (Centipoise)	10 - 50	35 - 300	50 - 800	300 - 1500	500 - 500

SMNG SERIES

Areas of Use

The usage area of nano horizontal milling machines begins in the applications where the wet milling of basket-mill machines is not sufficient. This type of machine, which can also mill in nano size, is widely used especially in continuous batch production model. It is a particularly preferred machine type for the production of nano-sized pigment milling and printing inks.

Optional Specifications

Ex-proof design in ATEX Zone 1 EEx dIIb T4 standards, recipe controlled semi-automatic or fully automatic PC/PLC control system are optional.

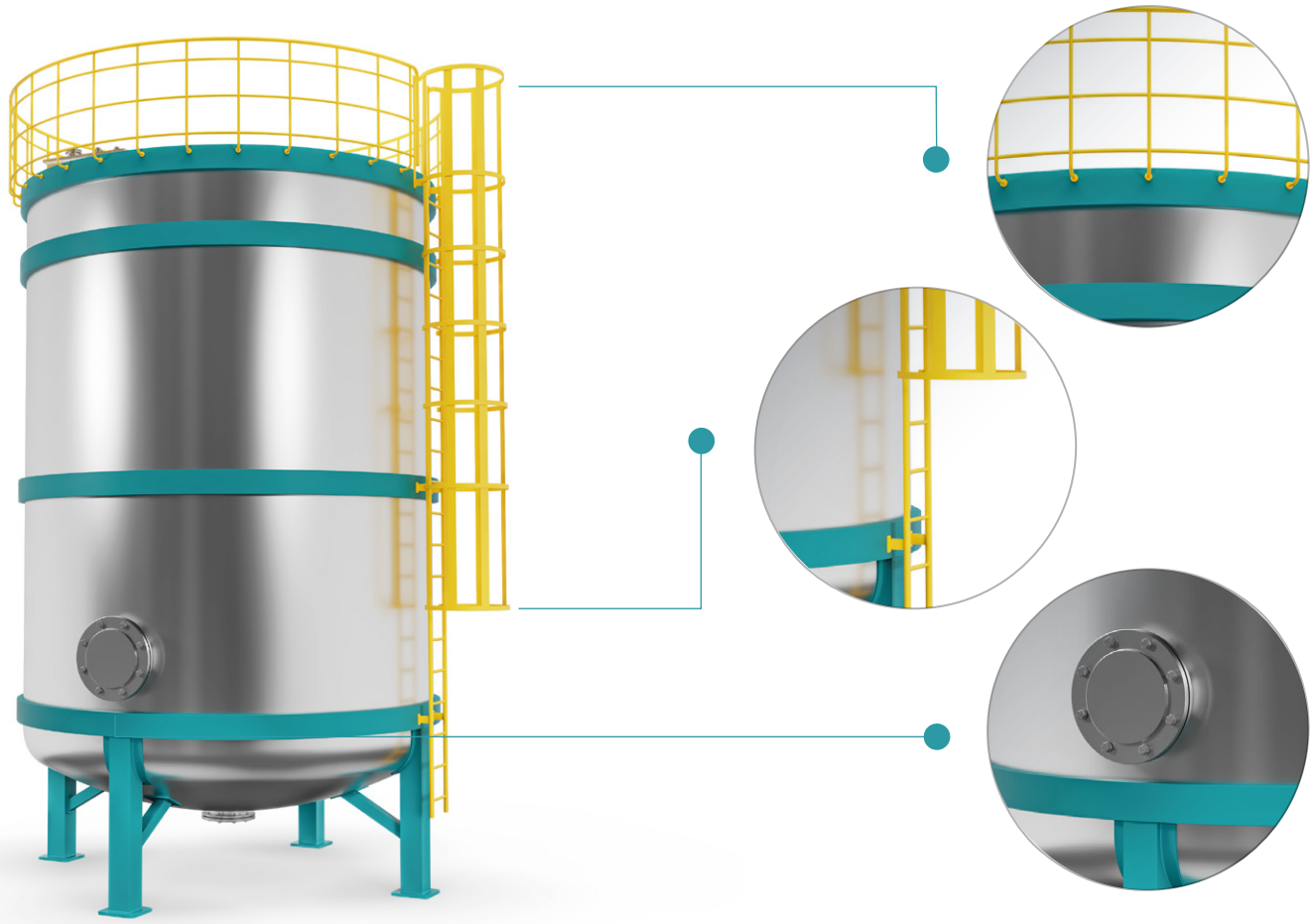
Standard Specifications

There are two types of high-performance horizontal milling systems used in the machine. Effective performance can be achieved in both systems as a pin/peg or disc system, which can be selected according to the product to be milled. Designed for nano-scale milling of powder raw materials in liquids with its fully enclosed, sealed design for fast and effective transition. The machine can be PLC or standard control system. The machines with the PLC system, the relevant operational data such as temperature, energy consumption, milling process control and recipe management can be done easily. The machine provides an effective passage and discharge by creating a perfect centrifuge effect with its dynamic separator feature in the mechanical seal system for the milled product. All the parts which are used in the milling chamber such as pins/pegs or discs are easy to replace throughout the years when it is necessary for the maintenance purposes.

Machine Type	SMNG 0,3	SMNG 0,5	SMNG 2	SMNG 6
Vessel Volume (l)	0,5	0,7	4	10
Efficient Volume (l)	0,3	0,5	2,3	6
Batch Process (l)	0,3 - 0,6	02 - 10	10 - 100	20 - 200
Milling Shaft Speed (rpm)	300 - 2800	300 - 2800	500 - 2800	600 - 1450
Flow Rate (l/h)	0 - 6	0 - 200	200 - 600	200 - 1000
Main Engine Power (kW)	1,1	4 - 5,5	7,5 - 11	15 - 18,5

Stock Tanks and Silos

SMT SERIES



Areas of use

Stock tanks & Silos designed with high capacity are used for stocking ready products, raw materials or semi-finished products. Stock tanks are suitable for indoor and outdoor use, depending on the need. The tanks, which can generally be designed to rise on their own support legs and also they can be manufactured to sit on the platform according to the need.

Optional Specifications

All kinds of quality stainless steel or different types of steel materials can be preferred as production material. Special coating or polishing processes can be applied to the interior and exterior surfaces upon request. Tanks can be optionally manufactured as double-jacket with serpentine system to be used for heating and cooling purposes, as well as thermal insulation can be provided with additional rock wool coating. The Load-Cell weight measurement system can also be offered as an option. Special valves can be optionally placed on the outlet sleeves of the tanks and, if available, they can be integrated into automation systems with various sensors. Optionally, they can be designed to hold vacuum. Tank designs can be produced in different types according to your production process.

Standard Specifications

Stock tanks can be produced with AISI 304-L or 316 quality stainless steel material up to a standard capacity of 60,000 liters. It is also possible to choose materials according to the chemical structure of the product. Design and production are made from certified materials in accordance with TSE and European standards. In stock tanks, which are mostly convex from the bottom, with fixed feet, sitting on the ground or suspended on the platform, lower and upper manholes, sailor ladders, level sensors are offered as standard. In the standard models, the outlet sleeve is located in the center of the lower camber.

SM KK SERIES

Areas of Use

Mixing vessels designed as low and high capacity are used for production with various types of machines as well as for transporting the product mixed from one place to another. Mobile type, low capacity mixing vessels are manufactured with wheels from the base, while high capacity vessel models are designed to sit on a platform or rise on their own support legs.

Optional Specifications

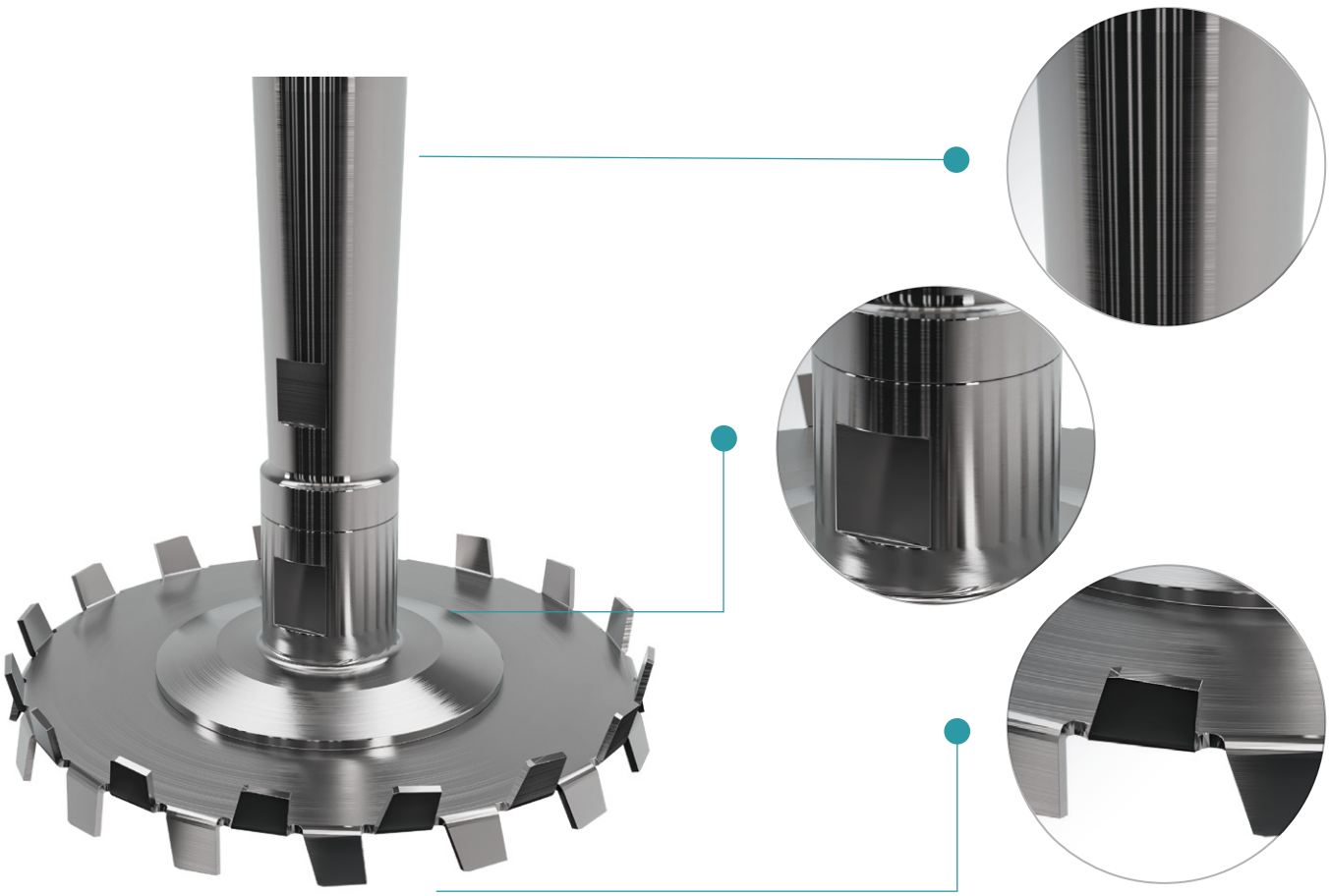
All kinds of stainless steel or different types of steel materials can be preferred as production material. Special coating or polishing processes can be applied to the interior and exterior surfaces upon request. Vessels designs can be produced in different types optionally according to your production process. Vessels can optionally be manufactured with double jacket system to be used for heating and cooling purposes. Optionally, special valves can be placed on the boiler outlet sleeves. Boilers can be designed to hold vacuum and wheel materials can be selected in different types in mobile vessels.

Standard Specifications

Mobile vessels (wheeled type) are generally preferred up to 2000 liters. Models with capacities over 2000 liters are used as convex from the bottom, with fixed feet, sitting on the floor or suspended from the platform. The outlet sleeve of the wheeled type is located at the point where the vessel base and the side wall meet, and in the leg or platform-mounted types, it is located in the center of the bottom dish. As standard, wheeled vessels have catch bars on their sides to move the vessel. Vessel capacities are manufactured from 1 liter to 15,000 liters for use in production. Vessels are generally made of AISI 304-L or 316 quality stainless steel material. It is also possible to make a material choice according to the chemical structure of the product.

Dissolver Machine Discs

SPVR SERIES



Areas of Use

The mixing discs, which give the mixing and dispersion ability to the machine and suitable for working at high speeds during the production of low and medium viscosity products with dissolver machines, are widely used in almost all industries.

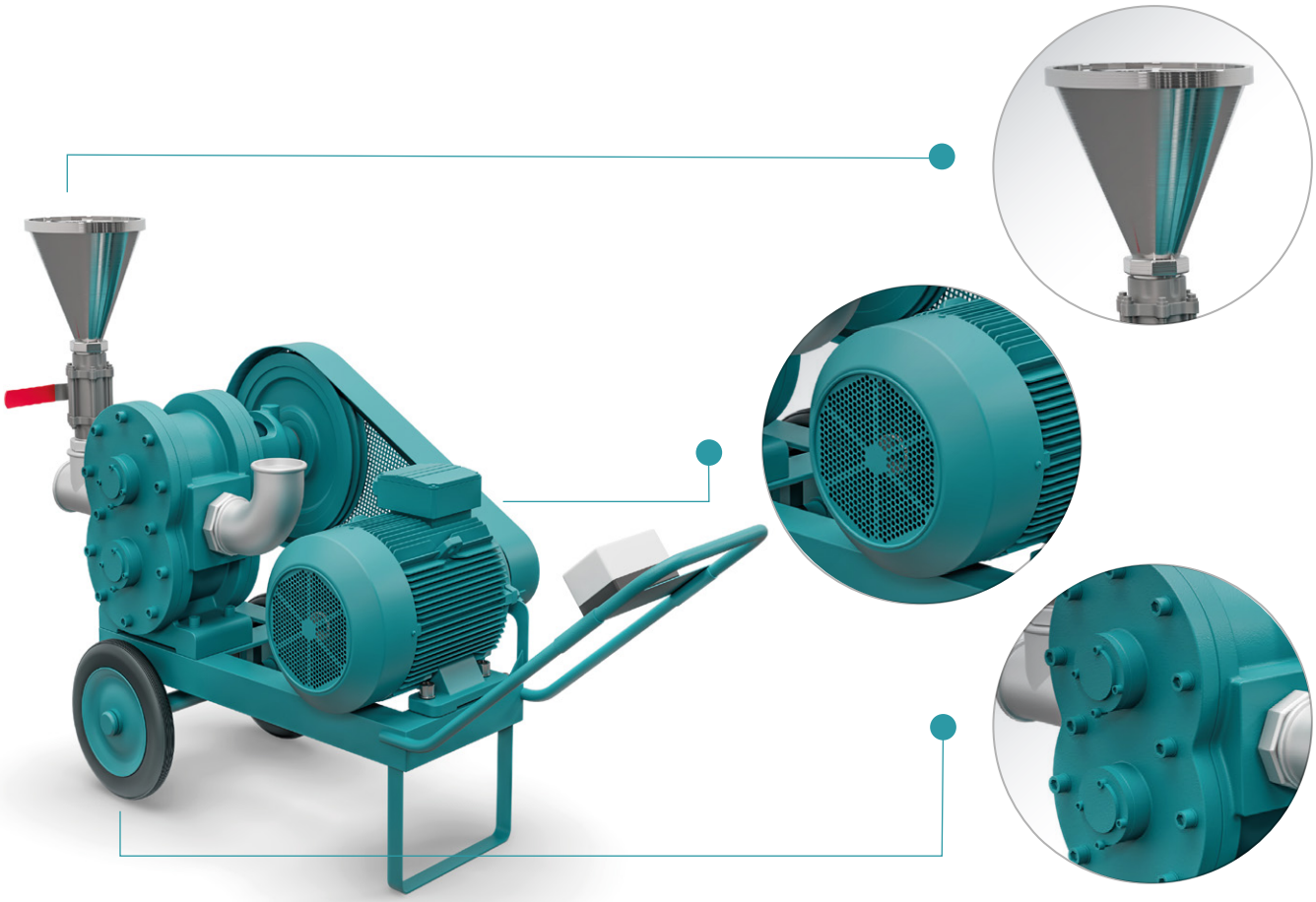
Optional Specifications

The mixing discs can optionally be manufactured from AISI 316 stainless steel and the ns can be diamond-tipped. Diamond-tipped discs reduce the wear time of the blades to minimum. Double disc turbo disc and window type special disc production can also be made as an optional.

Standard Specifications

The most functional feature is that the dissolver machine discs reach homogeneous mixture in a short time without increasing the temperature of the product to be mixed thanks to the special wing structure. The special structure of the wing angles has also been developed to minimize the dispersion process. 40 mm to 900 mm in the desired dimensions, 2 mm to 4 mm in various thicknesses as standard AISI 304-L quality stainless steel material is produced as balance free. The discs that are produced are delivered ready to assemble by opening connection holes upon request. In order to obtain the ideal mixture, the mixing disc diameter and the production vessel diameter should be 1/3. The choice of disc diameter is proportional to the motor power of the dissolver, the maximum mixing speed and the diameter of the production vessel. An improperly selected disc leads to loss of dispersion and prolongation of the manufacturing process. Experienced engineers provide the right choice of propeller selection.

SDP SERIES



Areas of Use

It is widely used for the transfer of various viscosity liquids, especially any kind of paint or low viscosity chemicals, which can come to the pump inlet with its own uidity.

Optional Specifications

Ex-proof feature in ATEX Zone 1 EEx dIIB T4 standards, production of pump body and gears from stainless material, speed control frequency converter and speed adjustment of the pump are offered as optional properties.

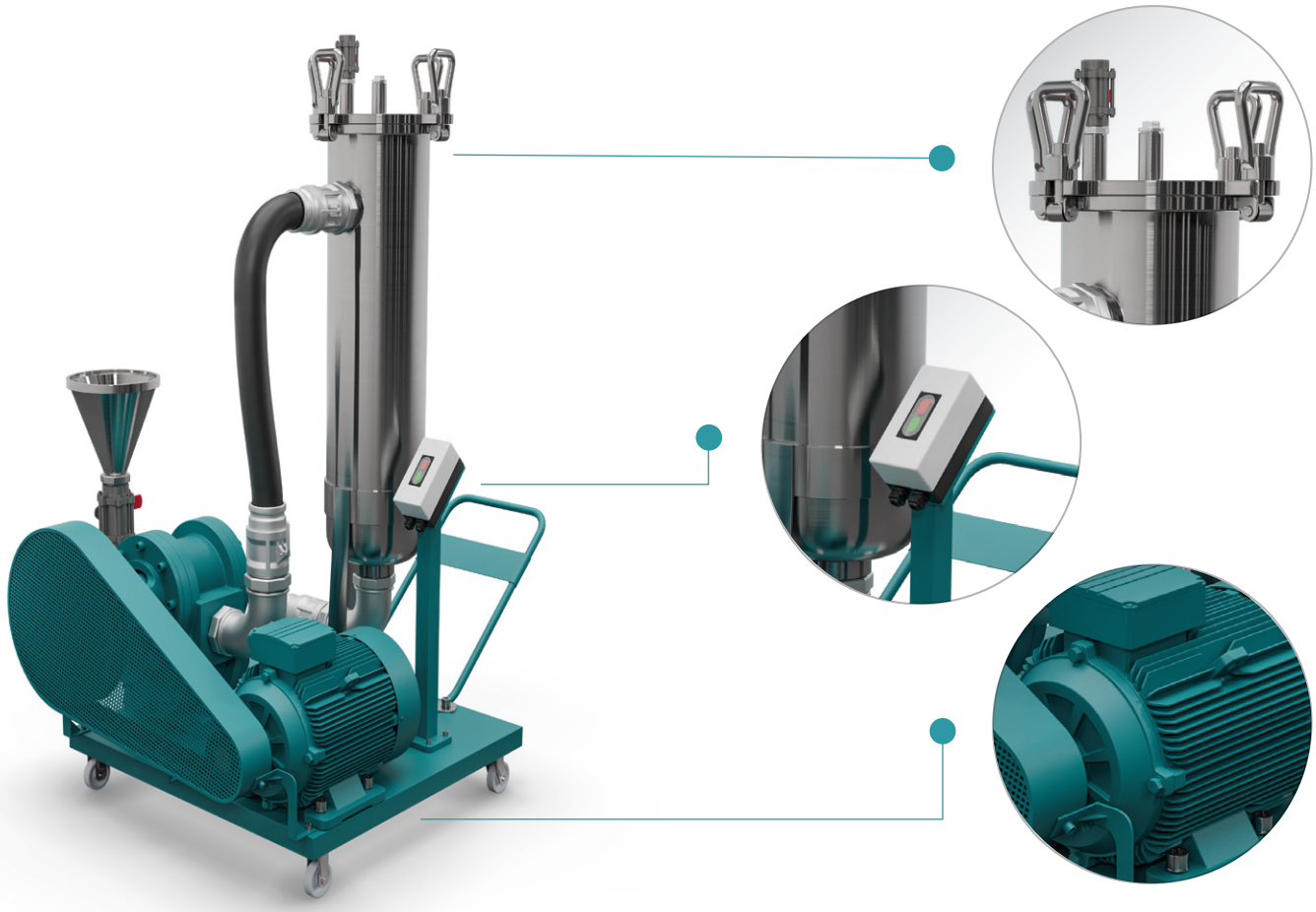
Standard Specifications

The pump body is completely made of cast iron material and the gear group is subjected to special heat treatment to extend the wear time. Thanks to the special bronze bearings, extremely quiet operation feature is added to the pump. The pump is a forced pump gear. It is manufactured according to various uidity rates and is manufactured as a single pump or motor-chassis coupled as standard. As standard, it is driven by being coupled to the belt pulley system and electric motor. There is an intake funnel and valve on the inlet side. It has a mobile feature thanks to its wheels under the connection frame. The gears are specially hardened by cementation.

Pump Type	SDP 1 1/4	SDP 2
Engine Power (kW)	1,1 - 3	2,2 - 4
Capacity (l/h)	250	750

Pump with Gaf Filter Units

SBF SERIES



Areas of Use

They are commonly used for the sieving and ltration of foreign substances, unwanted large particles in the product after transferring the products with less viscosity (paint, ink) before or after being transferred from one place to another.

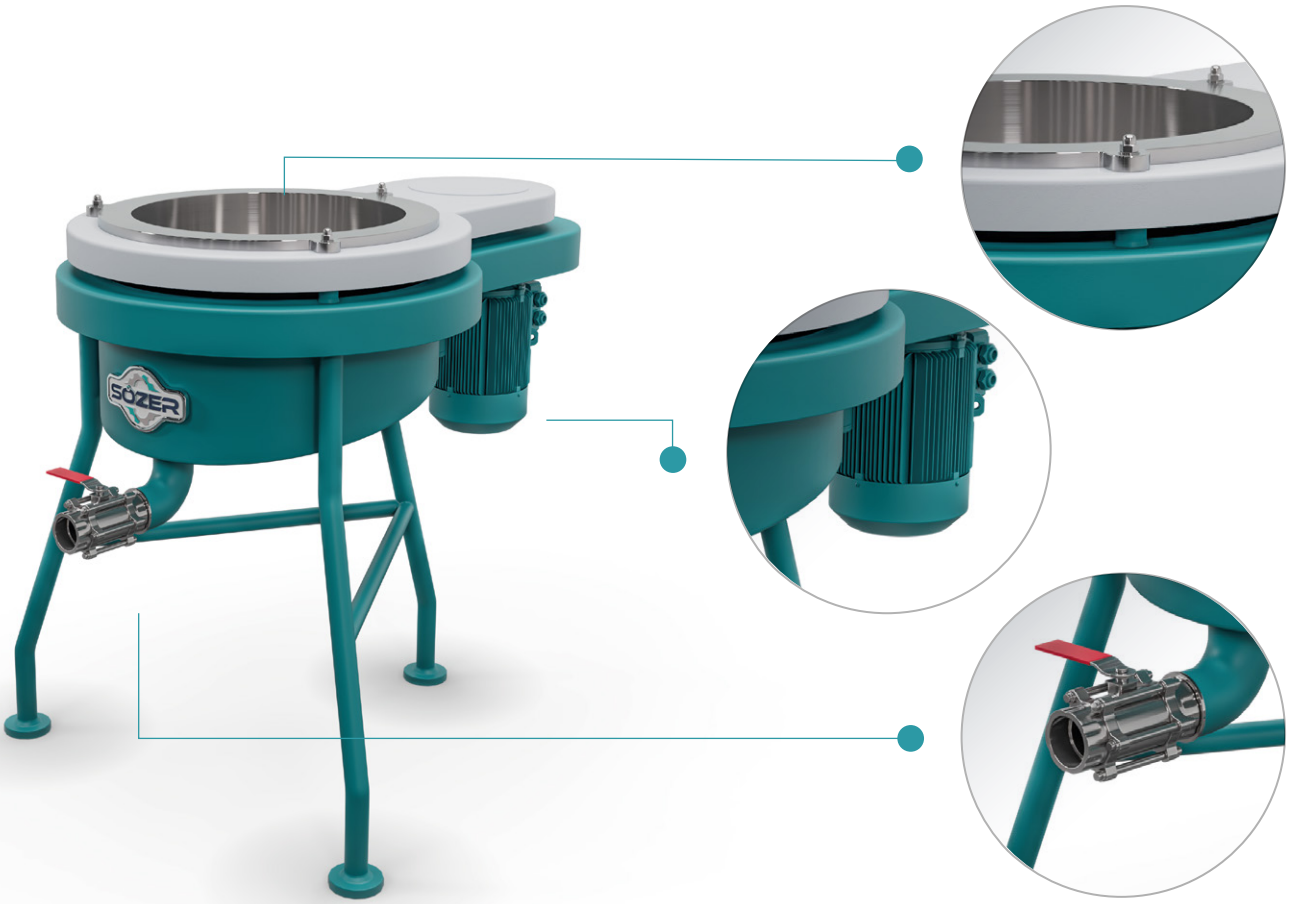
Optional Specifications

Optional specifications are that ltering sieve wire pore size can be used upon request, all surfaces in contact with the product are produced from AISI 316 quality stainless steel material, the lter unit is pump-coupled.

Standard Specifications

They are produced in two different types, one is a Gaf type bag lter system and the other is a pump-coupled system. All surfaces that come into contact with the product are manufactured from AISI 304-L quality stainless steel material, including the lter sieve wire. As a standard, the capacity of the lter works completely in proportion to the pump ow rate, thanks to its design, which is established on pressing the lter of the product that is desired to be ltered by a pump. With the easy cleaning possibility, you can switch between colors without wasting time. Product entry to the lter is made from the top. Thanks to the system in the lter, the product entering the lter are directed towards the sieve wire and forced to pass through the sieve. The product passing through the sieve wire ows down the inner surface of the outer chamber by draining towards the lter base and exits through the lower outlet. The lter units are tted on a at surface with legs on the outer edge surface as standard. The sieve mesh pore is again 25 mesh as a standard size.

SSE SERIES



Areas of Use

They are machinery products widely used in the process of ltering and sorting of all kinds of viscous products with their own uidity, through the method of vibrating.

Optional Specifications

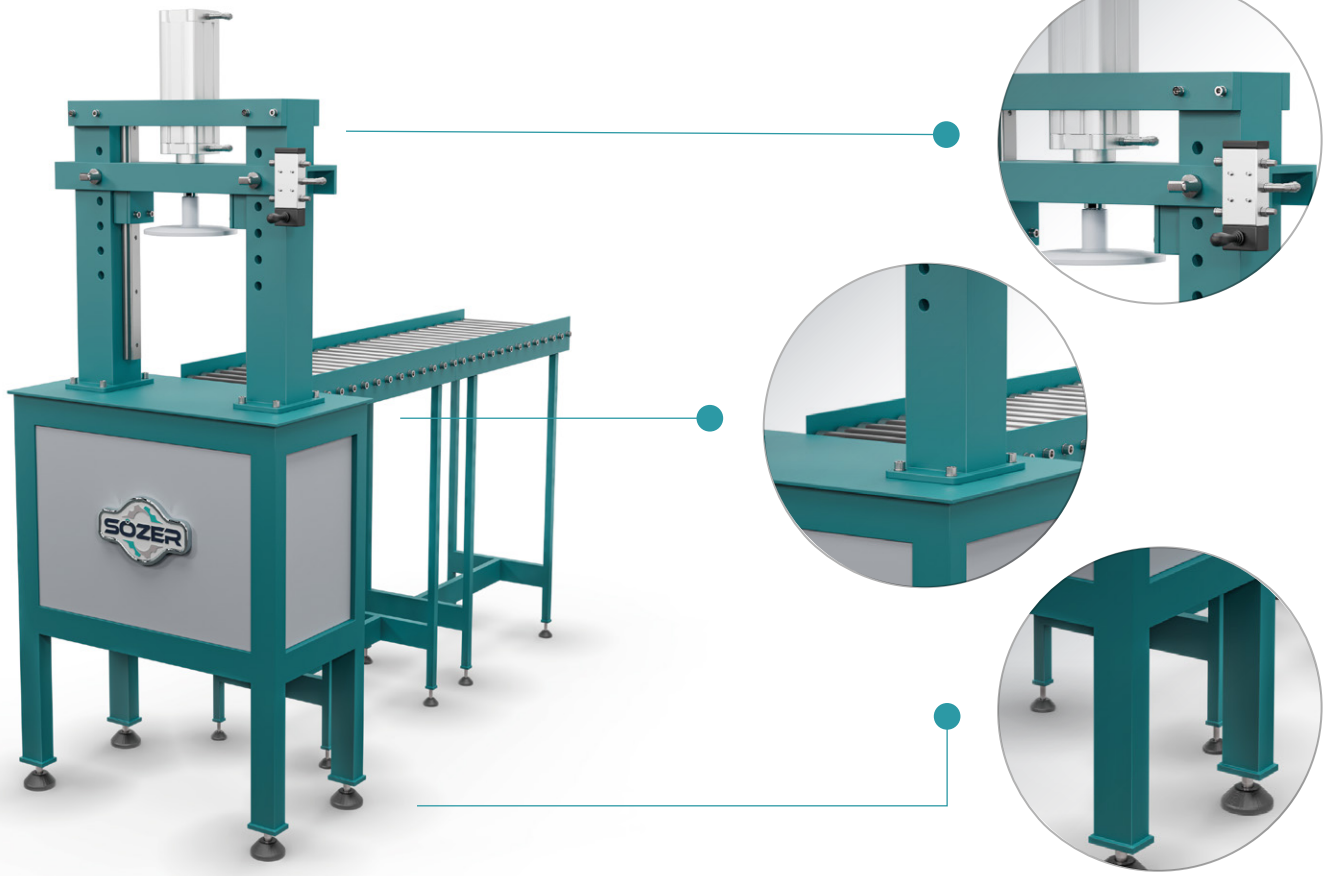
Ex-proof in ATEX Zone 1 EEX dIIB T4 standards and optional use of lter wire pore size is offered as optional features.

Standard Specifications

Filtering and sorting can be done easily by placing the vibrating sieve unit directly under the product vessel. The unit is manufactured as mobile as a standard. This makes it very practical to use. With its easy cleaning feature, the time to get ready for reuse is reduced to a minimum. All surfaces in contact with the product are polished and made of AISI 304-L stainless steel material. The vibrating sieve part is manufactured as standard on hard rubber mold springs. It is driven by 0,75 kw electric motor as a single model. It rises from the base on three legs. Sieve part can be easily removed and cleaned in color changes. The internal diameter of the sieve is 0450 mm as standard, and the sieve wire pore size is 25 mesh.

Can Closing Units

SKKU SERIES



Areas of Use

It is widely used in all kinds of production industries in the areas where it is necessary to close the can with a cap after the product is lled into the cans with a ip-off cap. It is frequently preferred in chemical industry applications for the closure of cans of various sizes, especially in the paint manufacturing industry. Press and lling machines are among our frequently preferred products.

Optional Specifications

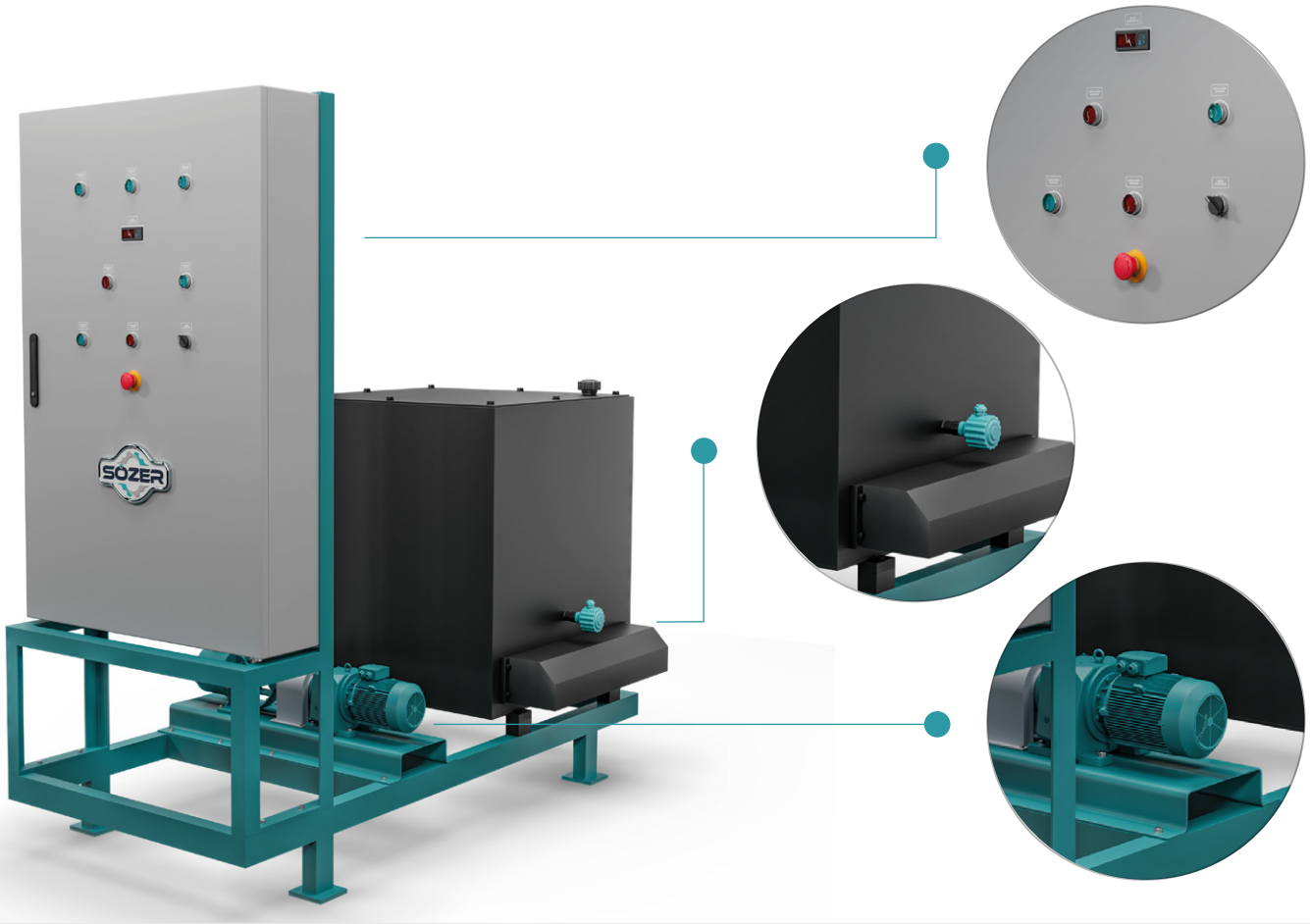
They are optional with roll or motor band systems.

Standard Specifications

The can closing unit is designed for the closure of all plastic buckets or tin cans. It is also possible to work with cans of various sizes with its adjustable feature. Pneumatic driven unit needs 6 Bar compressed air. According to the can dimensions, the closing cylinder group has an adjustment mechanism that enables the up and down movement. There is a brake system to x the closing cylinder group at the desired height. It is possible to adjust with its own air conditioner which regulates the air pressure. As standard, the system is operated with a pedal or two-hand buttons, thereby the closing table moves downwards, and the lid is easily closed.

Heat Transfer Oil Units

SKYU SERIES



Areas of Use

They are widely used in all kinds of industrial production, where it is necessary to give additional temperature to the environment, especially in chemical industry mixer applications, and in the case of heating and circulating the heat transfer oil in double jacket mixer vessels. They are frequently used for heating the circulating oil in order to provide heat transfer in the walls of mixing vessels or in the walls of Zet-Mixer Machines.

Optional Specifications

Being Ex-proof in ATEX Zone 1 EEX dIIB T4 standards, PLS control system, selection of heat transfer oil pump capacity and adaptation of backup pump system as bypass line are offered as optional features.

Standard Specifications

Thanks to the compact structure of the heat transfer oil units, the main feature of the device is that the heat transfer oil temperature is increased to the desired degrees and circulated by means of the pump. The oil is brought to the desired temperature by means of the resistances in the hot oil tank within its structure. The desired temperature is kept constant with the thermostat on the unit. The oil heated by the hot oil pump is circulated by pushing the desired place. They are heat resistant up to 220 degrees. The tank, where the heat transfer oil is hot, is painted with high heat resistant paint. In addition to the standard models, they can be manufactured in different capacity units according to the volume to be heated.

Machine Type	SKYU 25	SKYU 125	SKYU 400
Power of Resistance (Kw)	1 * 7,5	3 * 10	4 * 15
Pump Capacity (m³/hour)	0,1	0,75	1,5

11 TURNKEY PROJECTS

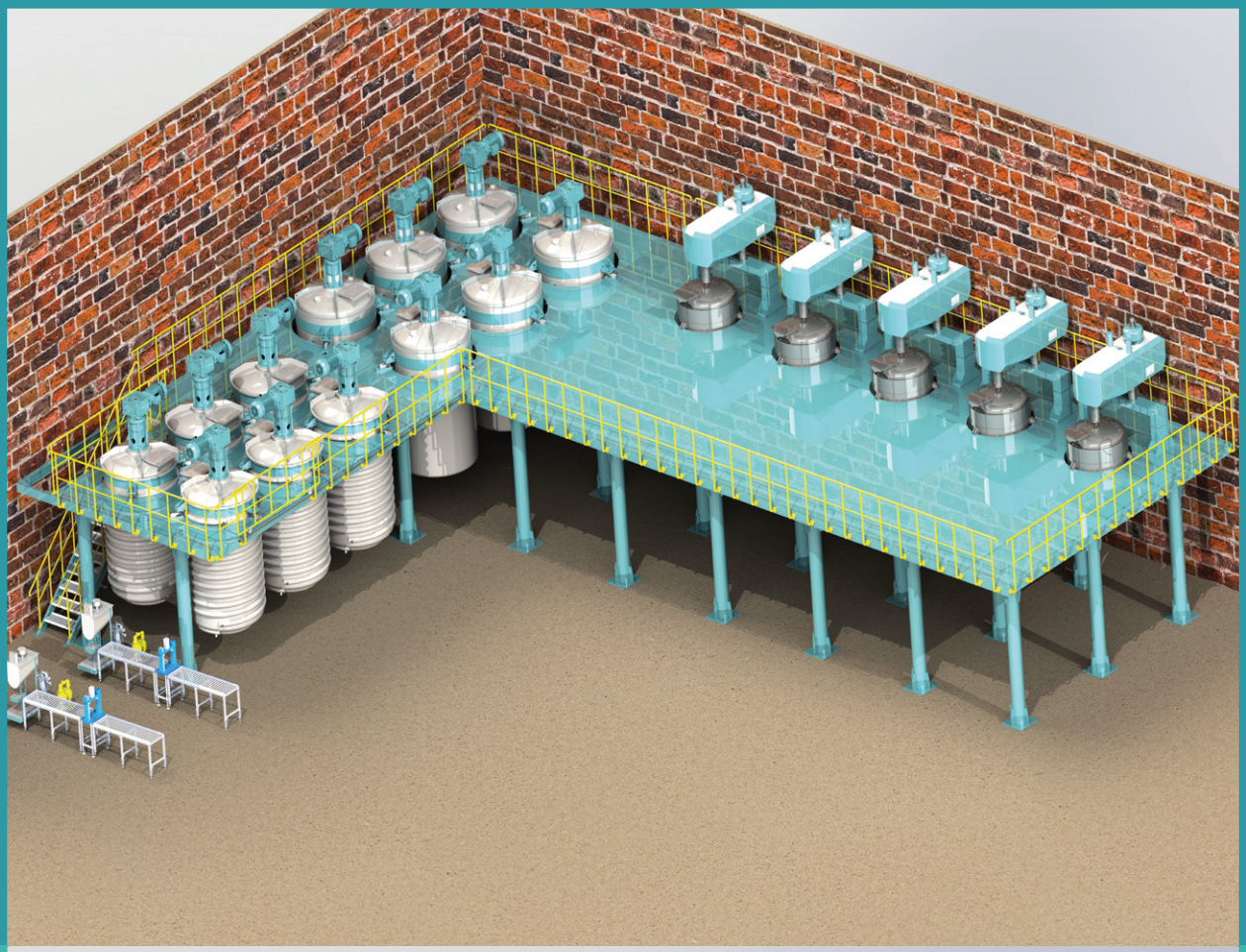
Preferred Areas

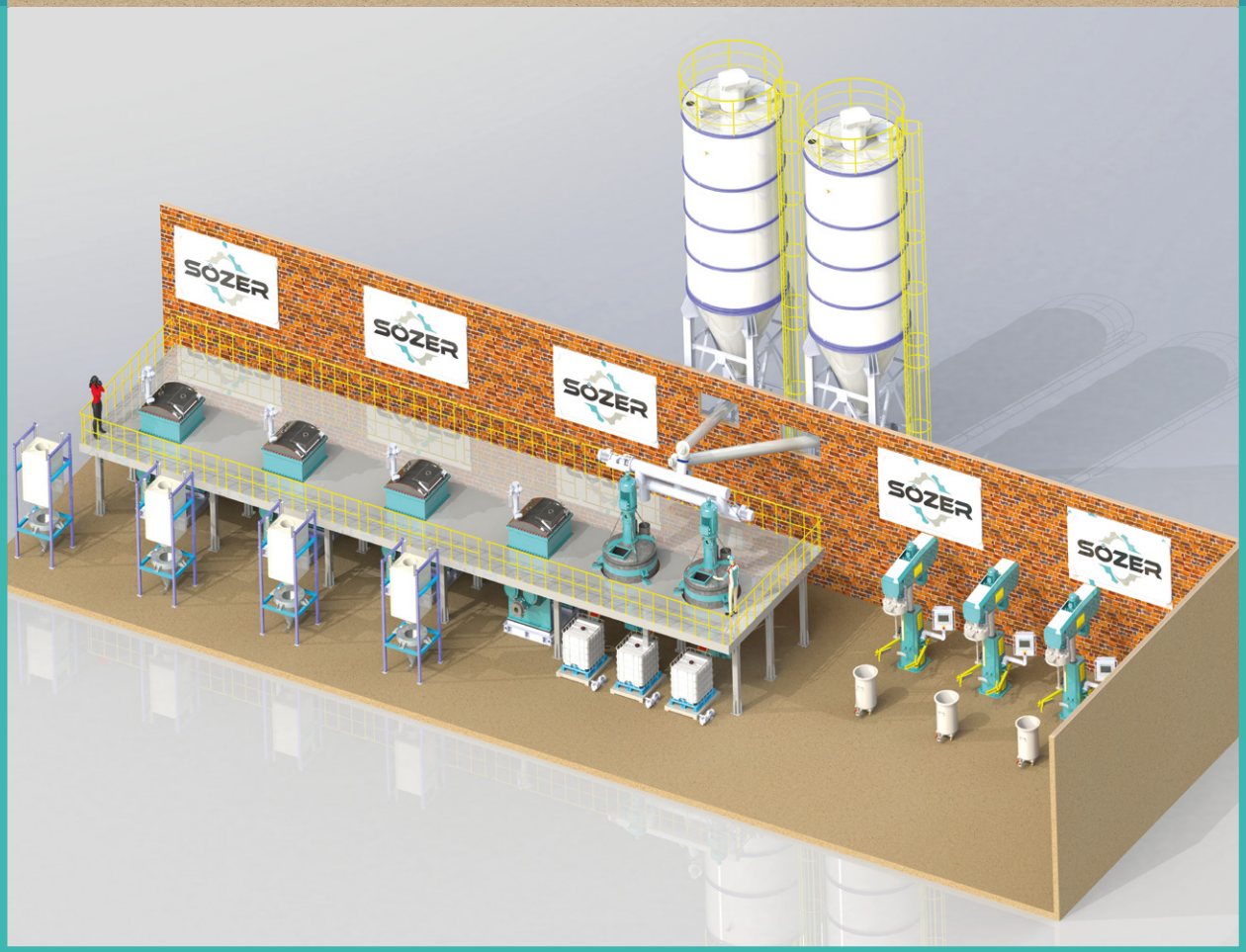
The basis of turn-key projects lies in the most effective use of advanced technology, high experience and efficiency principles. They are full project works where the engineering, design, and implementation principles are fully applied. It is preferred in future-oriented investments in all production sectors, particularly in the chemical industry thanks to the technological advances. Fully automatic, semi-automatic and manual operating systems can be installed in our full plant projects in line with the request of our business partners. There are differences in the machine tracks used in automatic or manual operating systems. For this reason, the selected machines and auxiliary equipment is designed to operate most efficiently under the high experience and knowledge of our company. We negotiate the architectural project with our business partners who wish a turn-key project and present the most suitable project type to them.

General Specifications

There are two types of raw material feeding systems that we use extensively in our fully automatic production projects. These are automatic vacuum feeding systems for powder raw materials and automatic pump systems for liquid raw materials. Both feeding systems can be with automatic dosing system. All raw materials are automatically sent to the production mixers via pipelines according to the order and quantity on the prescribed basis. All these operations can be monitored step by step on the central control screen. Within the project, all software and automation processes can be developed and adapted to the project in line with the request of our business partner.

In turn-key projects, manufacturing of silos and tanks, all raw material transfer systems, pipelines, production mixer machines, finished product stock tanks, coloring tanks, filling and packaging lines manufacturing, automation and software systems that will control the whole project constitute the main lines of the project. All weighing and measuring systems used in the projects, PC/PLC systems used in automation and other industrial devices are preferred among the products with the most suitable structure in line with our field experience of more than 70 years. Since all raw materials and products are sent through pipes in our fully automatic projects,the absence of any dust in the production environment provides a great advantage to the user company. Operator errors and related performance variability are minimized in production lines operating independently of manpower. We offer the pleasure of developing and implementing automation and software under the responsibility of a single company including all machines, devices, silos, tanks, pipelines, weighing and measuring systems, pneumatic control systems and finally the filling-packaging machines used in turn-key projects. In order to get more detailed information about turnkey projects, you can contact our experienced engineers.

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