

Smart Solution Everywhere.



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QuaCatGen 190220 rev.5

VEEGOO reserves the right to modify and upgrade processes and components without prior notice.
We deeply thank our esteemed customers for the use of their logo.



QUARTZ SLAB PLANTS

Over the past twenty years, the Chinese stone industry has grown by adapting to market requirements, thus presenting the opportunity for my team to develop new technology innovations that contributes to the “stone” world with registered patents. I have been very fortunate to have had the chance to experience a variety of roles and perspectives as engineer, designer, general manager and entrepreneur.

VEEGOO is what I have envisioned, and the drive to further my goals remains the same. VEEGOO must compete in a world market with an innovative spirit. The goals are not only to gain more market share, but also to create a product of exceptional value. This is a win-win for both our clients and VEEGOO.

January 2018



Keven Qiu, Chairman



Christina Deng, Managing Director

My first turning point in my life was when I made the decision many years ago to go from history teacher to salesman. My life transformed as I went from entrant employee to general manager in the stone industry. Like my transformation, China also underwent significant changes.

Quantity-driven years are behind us, and now we find ourselves in a quality-driven phase. Some see this shift as a threat. However, this is the opportunity to grow and improve our products and reputation in the domestic market as well as the world market.

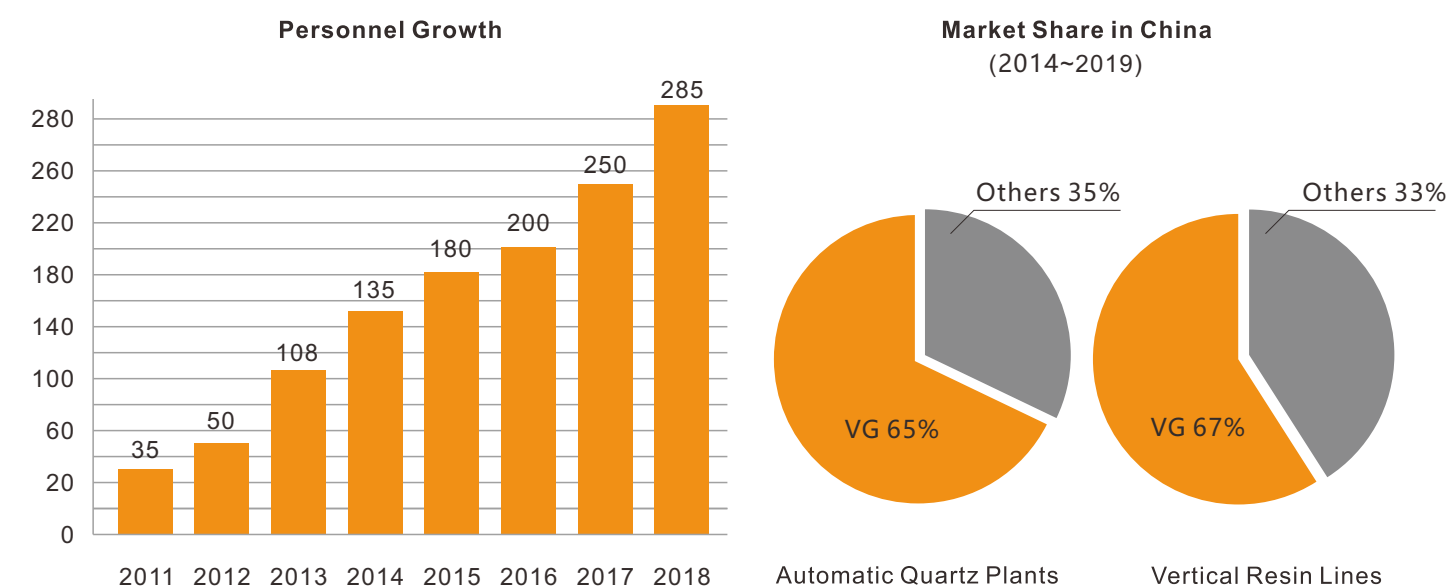
With investing in R&D, proprietary technology, VEEGOO has the ability to win customers all over the world by expanding our sales network. We are the hidden-champions, and will continue to focus on technology and innovation. We can create a more intelligent and modern life style. The future is in our hands!

January 2018

VEEGOO Technology Co. Ltd was established in 2011, and is located in Foshan (Guangdong), an advanced manufacturing industry hub in China. VEEGOO employs approximately 285 employees, and dominates the Chinese market in quartz plants and resin lines. Our management team and technical staff are top professionals in the Chinese stone industry and account for more than 35% of VEEGOO's total workforce. VEEGOO has in recent years also established cooperation with foreign consultants, technology specialists, and hi-tech foreign companies to improve technologies and services.



A key element of VEEGOO's success has been the ability to provide end-to-end support to its customers, from the initial transfer of know-how to continuous improvement of products and processes. VEEGOO's internal laboratories can perform any test on raw materials and assist customers in the development of special products and designs. Finally, investment in production equipment and Research & Development has greatly contributed to VEEGOO's rapid technological development. VEEGOO's customers, many of them top players in the global Quartz and Stone industry, certify their products according to the strictest international standards, including ISO, NSF, CE, Greenguard, SGS, GMC, MA, ilac-MRA, and CNAS.





Veegoo Smart Factory

Veegoo's new factory, total area of 40,000 square meters, is equipped with a new offices and dormitory building, manufacturing shop, warehouse, garden, basketball court and other amenities. Veegoo rewards its employees by providing a fully equipped dormitory, leisure area with table-tennis, billiards, basketball court, e.g. as well as other living facilities enabling Veegoo to attract high-quality talent.

More highlights are in upgrading software and hardware: Veegoo has made a large investment in upgrading the PLM system and launching ERP, MES, WMS systems, etc. For hardware, Veegoo plans to install an electronic board, PDA scanner, AGV trolley, and automated warehouse. End result: creating a true smart factory.

Once the new factory is in production, Veegoo will be of more value to our customers by including an smart production line, real-time tracking of raw materials and finished products, programming and carrying out of whole factory logistic system supported by advanced R&D capabilities, whole project delivery proficiency, and skilled talents.



Quartz

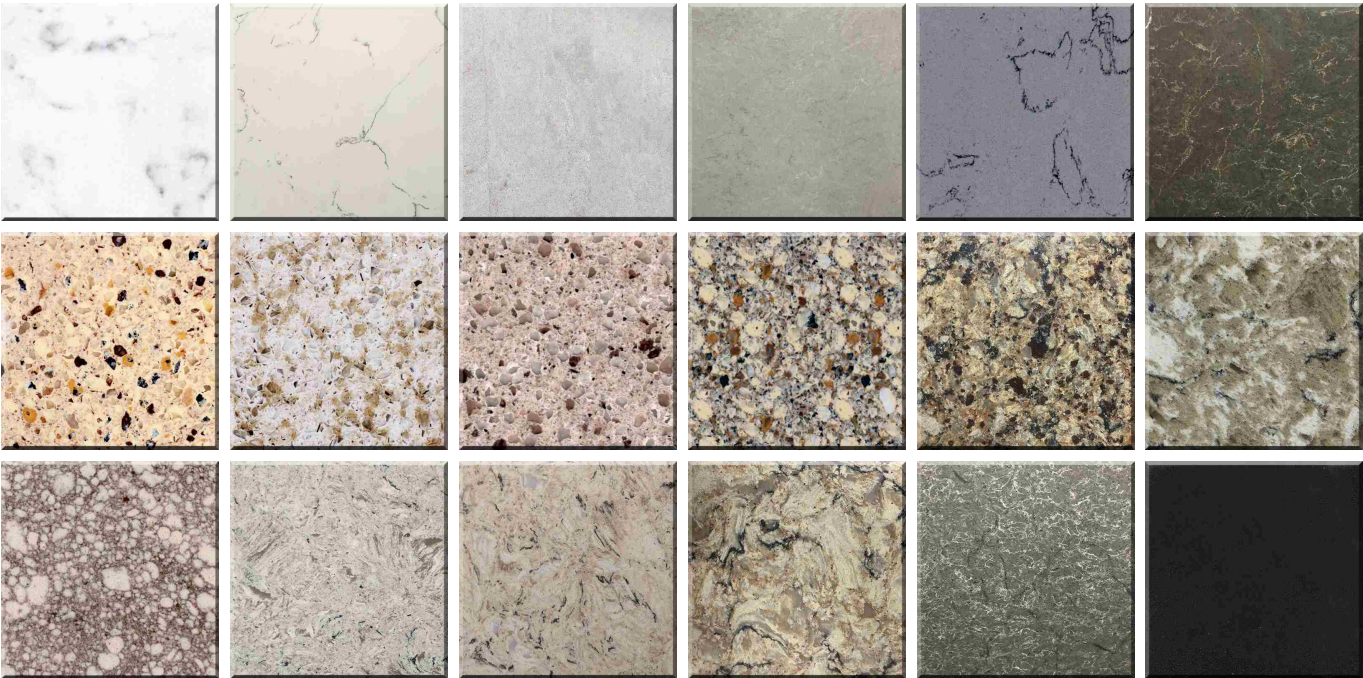
If the lords of the atmosphere are nitrogen, oxygen and carbon dioxide, and carbon is the base element of all known forms of life on this planet, the true emperor of the mineral world is silicon. Over 90% of the Earth's crust is in fact composed of silicate minerals, quartz being the second most abundant mineral in the continental crust (after feldspar). Its crystal structure is a continuous framework of SiO4 silicon-oxygen tetrahedra, with each oxygen atom being shared between two tetrahedra, giving an overall chemical formula of SiO2. There are abundant varieties of quartz, several of which are semi-precious gemstones. The word "quartz" is derived from the German word "Quarz" and its Middle High German ancestor "twarc", which is thought to originate from Slavic ("hard" in Czech is tvrdý; in Polish, twardy; and in Serbian and Croatian, tvrd). The ancient Greeks referred to quartz as κρύσταλλος (krustallos), derived from the ancient Greek κρύος (kruos), meaning "icy cold", because some philosophers apparently believed the mineral to be a form of supercooled ice. Today, the term "rock crystal" is sometimes used as an alternative name for the purest form of quartz.



Milk quartz is the most common variety of crystalline quartz. The white color is caused by minute fluid inclusions of gas, liquid, or both, trapped during crystal formation, making it of little value for optical and quality gemstone applications. While jade has been since earliest times the most prized semi-precious stone for carving in East Asia and Pre-Columbian America, the different varieties of quartz were the most commonly used for the various types of jewelry and hard stone carving in Europe and the Middle East. In his book "Il Milione", Marco Polo reported that in China large quartz crystals were fashioned into spheres to cool the hands.

What can you make with a VEEGOO line?

Virtually anything.
It is possible to produce any slab design of the highest possible quality, excellent reproducibility, extreme reliability, all at very low production costs, which serve to ensure a good return on investment.



Certifications obtained by customers using VEEGOO lines.



Characteristics of VEEGOO stones			
	Specific Weight	kg/dm³	2.35 - 2.45
	Water absorption (by weight)	%	< 0.1
	Module of rupture	MPa	36 - 65
	Compressive strength	MPa	150 - 240
	Mohs hardness	grade	6 - 7
	Deep abrasion resistance	mm³	≤ 300
	Falling ball impact	-	1000 g ≥ 400 mm - 450g ≥ 800 mm
	Expansion coefficient	mm / °C	≤ 3.5*10 ⁻⁵
	Temperature coefficient	-	180°C environment resistance 24 hours
	Dimensional stability	-	Class A
	Surface slip resistance	-	Honed 400 polished
	Acid chemical resistance	-	Resist
	Suitability for kitchens	-	Suitable



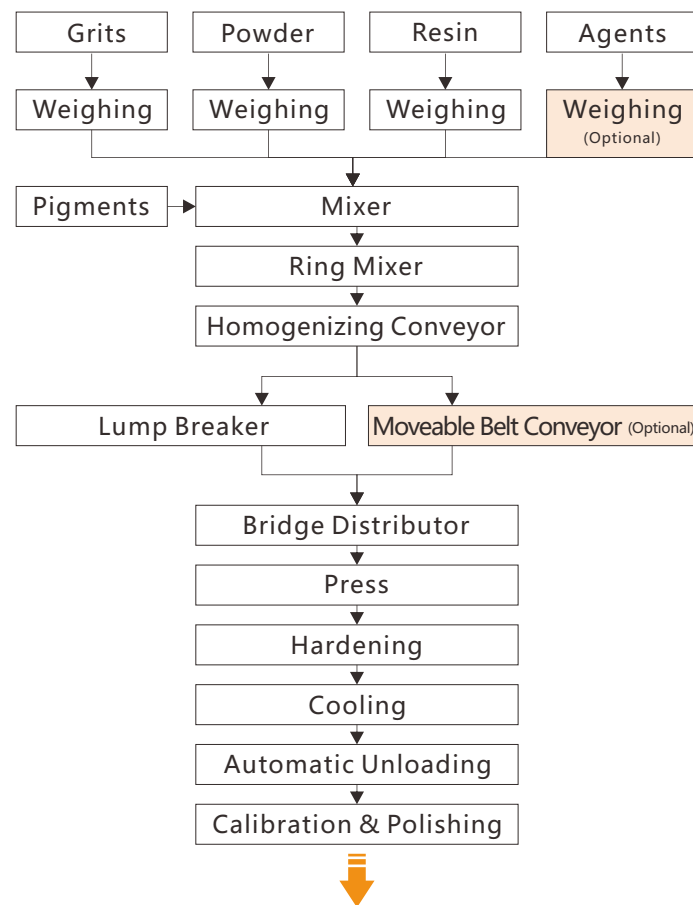
Quartz slab plant design

To correctly design a quartz slab plant, various commercial and technical variables need to be defined. Customer and supplier must carry out a thorough joint analysis during the configuration phase in order to optimize the process and adapt the layout and the equipment to the customer's specific requirements. Some of the key questions to answer:

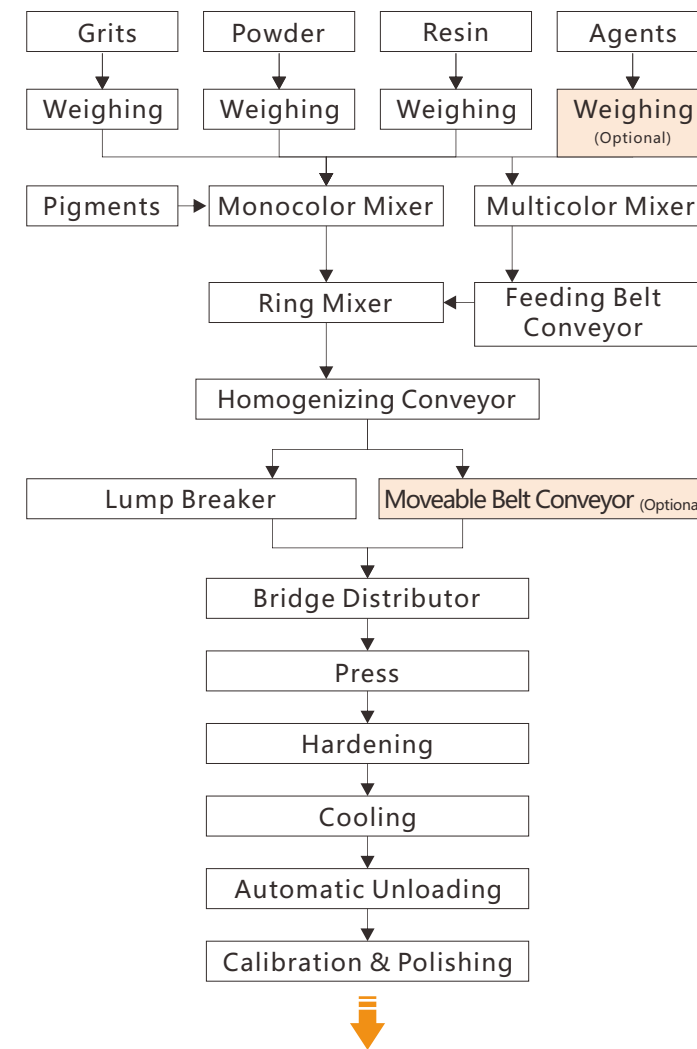
- What is the yearly production goal (m^2/y)?
- Which design are you manufacturing (Super White, Single color, Veins, Multicolors, Special designs)?
- What is the expected average lot size (slabs/order)?
- Which level of automation is required (Fully automatic, Semiautomatic, Manual)?
This is a very important question because VEEGOO provides automatic production lines only.
- What are the desired levels of quality and repeatability?
- Will the line be installed in a new building? If not, could the existing building impose limitations on design and layout?

The following block diagrams illustrate the three most common VEEGOO lines.

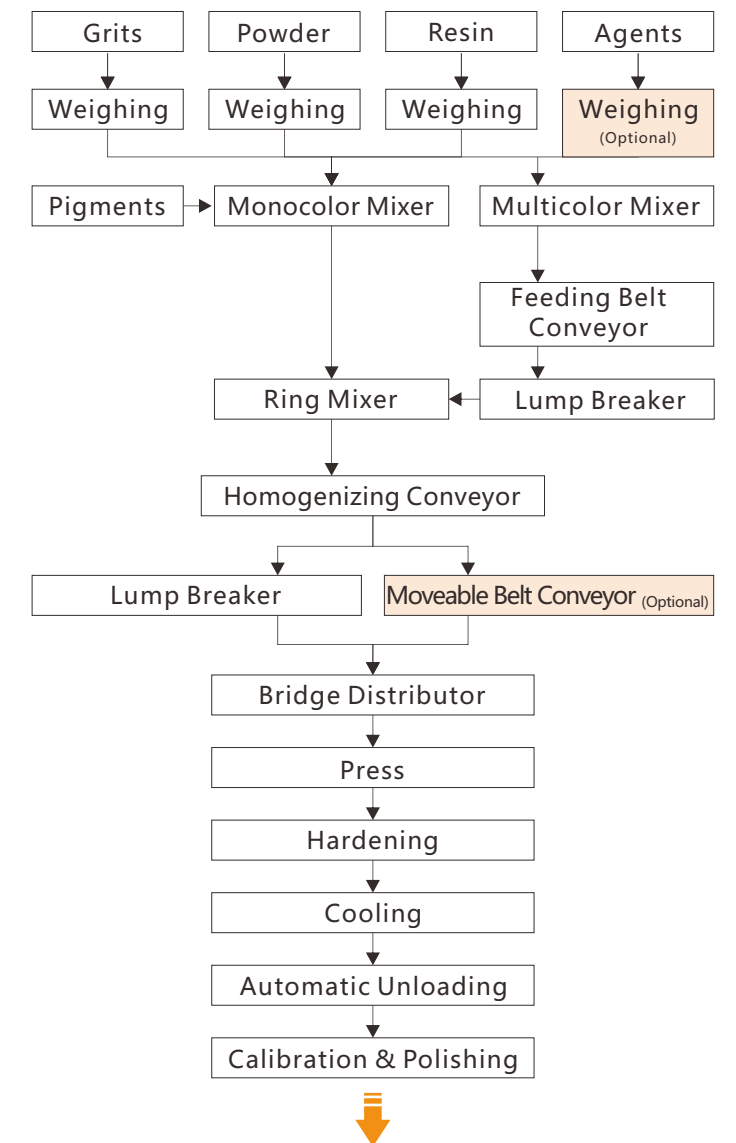
Dual-Color System



Tri-Color System



Four-Color System



Quartz Plants Classes

Based on our experience, the Pareto principle, or the 80/20 Rule, applies when designing a quartz plant. Only 20% of the plant’s design needs to be customized, and 80% consists of fine tuning the following three classes.

		Flexibility	Automation	Productivity	Design Types	Cleaning Time	Lot Size	Repeatability	Cost/m²
Standard	Dual-Color	Medium	Full	Medium	85%	Short	Small	High	Low
	Tri-Color	High	Full	High	Any	Medium	Medium	High	Low
	Four-Color	High	Full	High	Any	Medium	High	High	Low
		The above criteria has to be considered as simple guidelines. Situations may greatly change case by case.							
Special	Custom Design	Designed according to Customer's specifictions.							
		Special slab sizes, design,automation, limitations from exising buliding, specific operative situations, etc...							

Solution


Flexibility Level
Automation Requirements
Productivity Goals



Standard+Customization=Optimization

At VEEGOO, we always analyze our customers' requirements from every possible angle in order to determine the most appropriate solution.

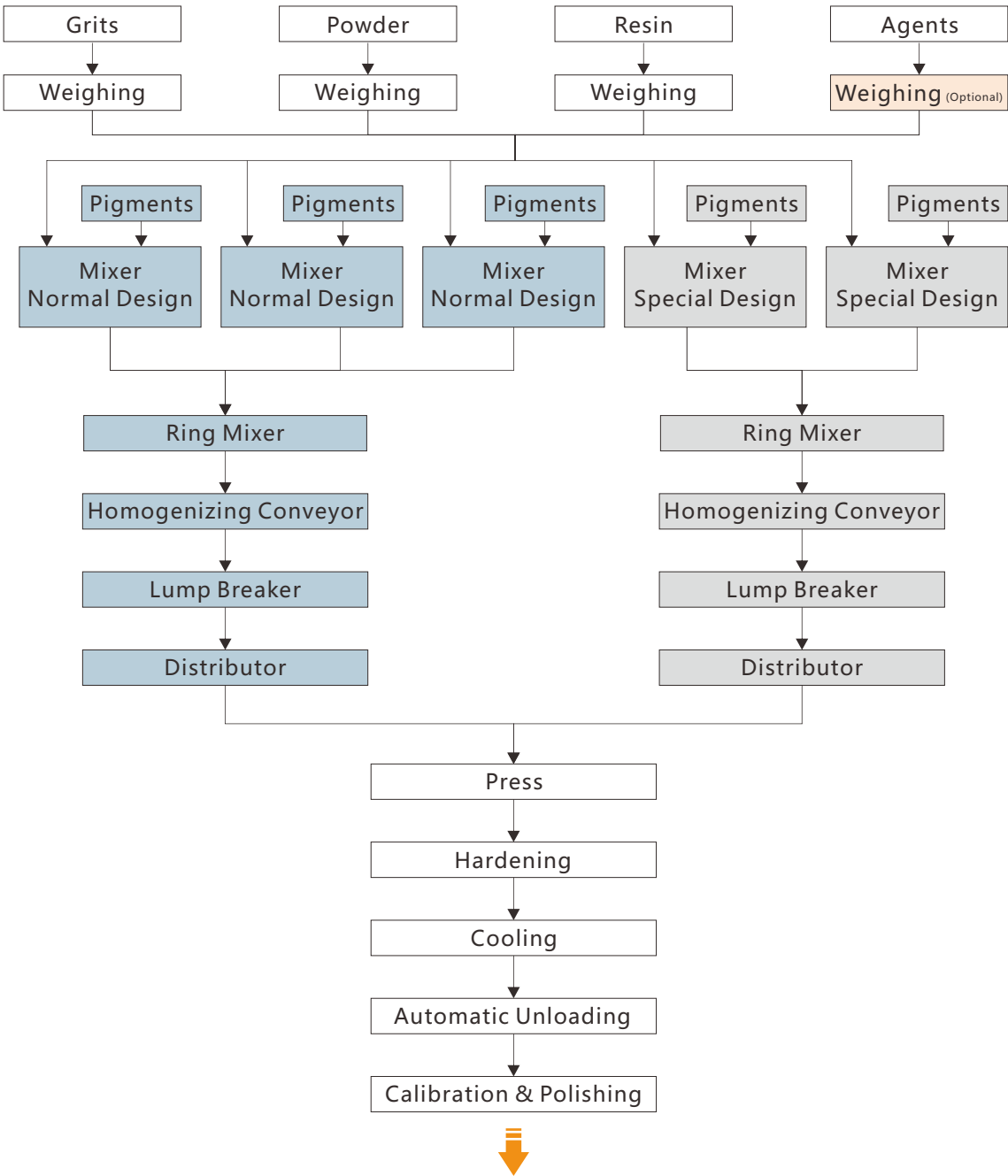


	Product									Store						Mix and Stir						Distribute	Press & Harden		Cool		Productivity	Utilities		Line Dimensions						
	Final Slab size (mm x mm)	Rough Slab size (mm x mm)	Final Slab Thickness (mm)	Rough Slab Thickness (mm)	Super White	Single Color	Vein Color	Multicolor	Special Design (Optional)	80 m³ Powder Sylos	Powder Automatic Weighing System	10 m³ Grits Sylos	Grits Automatic Weighing System	3 Tons Resin Tanks	Resin Automatic Weighing System	Dust Collection System	3 m³ Mixers	1.5 m³ Mixers	1 m³ Mixers	3 Tons Ring Mixer	800 Lump Breaker	1800 Lump Breaker	Bridge Distributor	Press	Hardening System: No.of Layers	Horizontal Cooling System Length (m) (Optional)	Vertical Cooling System: No.of Layers	Capacity (Slab/hour)	Operators/Shift (Press Line)	Running KW for Quartz Line	Compressed Air (m3/h)	Compressed Air (MPa)	Length (m)	Width (m)	Net Height under hook (m)	
	3,300 x 2,020 3,240 x 1,620	3,350 x 2,060 3,290 x 1,660	15 / 20 / 30	19 / 24 / 35	√	√	√	√	√	2	√	10	√	2	√	√	-	2	-	1	-	1	1	1	1	16	25	25	≥10	8	628	10	0.7	128	13	14
					√	√	√	√	√	2	√	10	√	2	√	√	-	2	1	1	-	1	1	1	16	25	25	≥15	10	659	128			13	15.5	
					√	√	√	√	√	2	√	10	√	2	√	√	1	2	2	1	4	1	1	1	16	25	25	≥18	10	800	135			13.5	16	



If you want to produce normal design slabs, and at the same time, produce special design slabs, such as calacatta, we suggest you to choose this “3+2” configuration.

“3+2” Dual System





Would you enjoy one of Beethoven's symphonies, an opera by Rossini, or a Tchaikovsky concert if interpreted only by the string section or the brass section of the orchestra?

You certainly could, but you would be missing a lot. A fully automatic quartz plant can be compared to a symphonic orchestra in that it consists of a specialized sequence of sections that meet a series of requirements in terms of technology and productivity: quality, safety, reproducibility, reliability, low production costs and, most importantly, an acceptable payback period.

A Quartz Plant



Quartz Powder Storage

Quartz Powder Storage

The powder is poured directly from super sacks into a tank and then sent to the powder silos by means of a pneumatic system.

- 2 dedicated silos (80 m³ each)
- All silos are made of stainless steel (AISI 304).

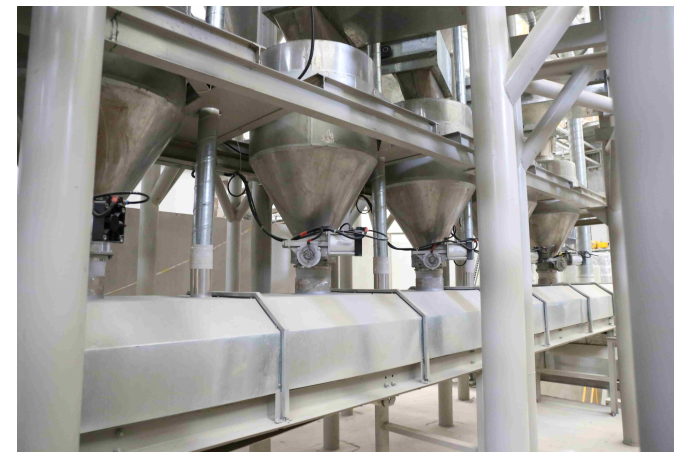
From the bottom of the silos, the powder is conveyed by means of screw conveyors made of stainless steel to the weighing silo and then directly into the mixers, also by means of a pneumatic system.



Quartz Grits & Fancy Items Storage

The typical design consists of 10 dedicated silos (10 m³ each), each one containing a specific mesh according to the production plan. The big bags are handled by means of an electric hoist, enabling the grits to be poured directly into the silos through raw material supporters on the top platform.

From the bottom of the silos, the grits are passed on to enclosed conveyors and are then transported to the weighing silos. From the weighing silos, precise quantities are discharged into shuttles or belt conveyor that feed the mixers.



Quartz Automatic Weighing System

This is a very important section of the quartz line, responsible for quality and repeatability, the former depending greatly on the proportions of the formula components being correct. Repeatability, or reproducibility, simply means achieving constant quality and identical technical parameters among different production lots over time. VEEGOO takes special care to avoid any potential contamination by ensuring a "clean channel" for the powder and grits on their way from the silos to the mixers. This is made possible by the use of stainless steel components and enclosed conveyors system only.



Grit Dust Collecting System

Naturally, the handling of powder and grits creates dust. In order to protect operators and recycle raw materials, powder and grits need to be handled by high-efficiency dust collecting systems. These systems, composed of fans, ducts, filters, cyclones, valves, and electromechanical devices, automatically perform these economically significant operations.

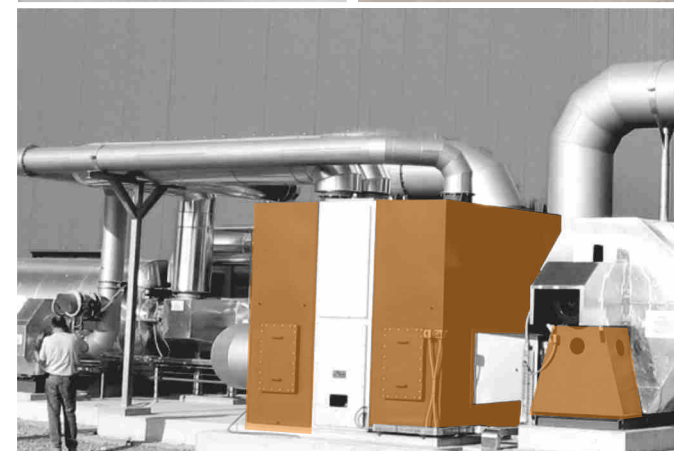


Resin Storage

The resin is automatically pumped from the barrels into two thermally insulated resin tanks equipped with:

- Automatic temperature control systems
- "Double effect" stirrer systems

From these tanks, the resin is sent to the weighing silos and under force of gravity flow directly into the mixer. The circuit is specifically designed to minimize and simplify all cleaning operations.



Resin Vapor Collecting System

The styrene contained in the unsaturated polyester resin used in the production of quartz slabs can be collected and treated by means of dedicated systems supplied by specialized companies.

Gas is usually collected from the resin storage area, the mixing area, and the conveyor that connects the distributor and the press. From these points, the gas is forced through a duct system to the treatment unit, usually located outside the production building.



Mixers

Over the years, VEEGOO mixers have acquired a reputation for their high efficiency, robustness, easy operation, and simple cleaning. The solid steel structure is internally coated in special material to speed up cleaning operations. Under force of gravity, grits and resin are fed through dedicated ducts into the mixer. The powder is fed by means of a pneumatic system. Pigments are introduced through a dedicated small door. The mixture is discharged from the bottom of the mixer by operating a very robust mobile section driven by a hydraulic cylinder.



Lump Breaker

This is a versatile piece of equipment capable of creating a wide range of particular effects on the slab. The metallic structure is lavishly designed, and the rollers are coated in granite. Each roller is independently driven by an inverter so as to allow for the production of a wide variety of slab designs. The adjustable inter-axle spacing also improves the uniformity. Rollers can be easily dismantled to speed up cleaning, which is facilitated by various openings and devices. Lump breakers can be installed in a series or in parallel at various points along the quartz line. Lump breaker is the best equipment to control the sand quality.



Ring Mixer

The ring mixer is used to store, blend and homogenize the various mixtures coming from the different mixers. A very robust gearbox drives:

- . The big basin that contains the blend
- . The 2 x 4 cylindrical bars (coated in a special material)
- . The 3 specially-designed scrapers

The resulting mixture is sent to the next stage through the central, cylindrical, sliding piece operated by means of a hydraulic piston. The three scrapers are designed so as to leave no blind zones, leaving the ring mixer completely empty.



Paper / PET Film System

VEEGOO's process utilizes paper or PET film to hold the final blend delivered by the distributor. Unlike rubber molds, paper or PET film, solutions give customers the freedom to choose among various suppliers. The process of releasing the bottom paper/film, covering with the top paper/film, and trimming the paper/film is completely automatic.



Barrel Distributor

Barrel distributors are used for single color in automatic productions. The system is specially designed to process mixtures with low resin contents, ensuring an even distribution and guaranteeing high efficiency. All materials in contact with the mixture are free from polluting agents in order to prevent any contamination and/or flaws in the desired pattern.



Bridge Distributor

Bridge distributors are used for multicolor productions with veins. The system is specially designed to process mixtures with low resin content, assuring an even distribution and guaranteeing a high level of efficiency. In fact, low resin content makes it possible to adjust patterns during distribution. All materials in contact with the mixture are free from polluting agents to prevent any contamination and/or flaws in the desired pattern.



Press

Standard Lines can process finished slabs of up to 1,620 x 3,240 mm. Special lines can go up to 2,020 x 3,300 mm. Mechanical, hydraulic and vacuum processes are used to produce the slab, which is formed under high pressure and high frequency vibrations. The pressed slab is flat and homogeneous with a high density and proper hardness. Pressing parameters can be adjusted according to different formulas to ensure short pressing time and to treat low resin contents, making it possible to produce special patterns. The vacuum system is designed to minimize vacuuming time.



Hardening Oven

This piece of equipment is for hardening quartz slabs. The heating system electrically heats up the oil, which heats the plate; natural gas can be used also. The rough slab is fixed with the up and down plate to harden, which can speed up the hardening, save energy, improve evenness, and reduce calibrating thickness. We can save materials and abrasives this way. The whole oven lifts up and down simultaneously for easy cleaning.



Vertical Cooling Oven

The vertical cooling system can cool down 25 slabs at a time by using forced air introduced by two big centrifugal fans. The air is blown in by means of centrifugal fans, heating the top and bottom of the slab. With heating system, temperature control system, we can control the temperature difference in the oven.



Automatic Unloading

This is a customary piece of equipment. It transfers the slabs from the cooling system section to the metallic racks, from which they will be sent for calibration, grinding, and polishing.



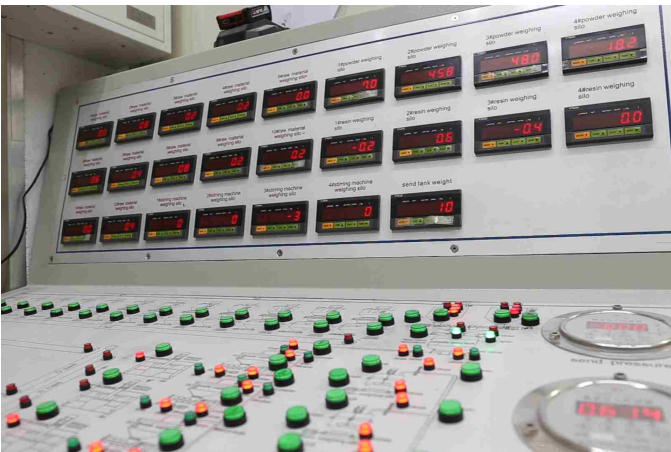
Quartz lines are a complex assembly of customary and well-established technologies. By using proper designs, the correct choice of materials, generous thickness levels, adequate components, professional planning, mechanization, and proper assembly and installation processes, these plants are highly reliable and assure a prolonged Mean Time Between Failures (MTBF). At VEEGOO, we use Chinese components only if they meet our quality standards. Otherwise, we go for imported, high-class components from providers in Europe, Japan, Taiwan, or Korea.

Control



Process

The key to a successful quartz plant is the ability to manage physical quantities such as pressure, concentration, temperature, viscosity, speed, acceleration, torque, force, vibration, current, voltage, power, weight, and mass... and automation is crucial in achieving this. VEEGOO lines use the best possible components available in the market, including Yaskawa drives, Schneider inverters, electromechanical components, PLCs and touch screens, roots pumps, top quality bearings, motors, joints, and valves, because every single component contributes to the final quality and reliability of the production line.



Repeatability

Repeatability is a critical feature of any production system. It is the ability to duplicate a specific lot, even after long periods, within the margin of tolerance established in the technical specifications of the product. Repeatability is essential when dealing with high-end customers who carry out routine inspections of incoming lots. Statistics and common sense suggest that humans can deliver repeatability, but automatic systems can undoubtedly do a better and more dependable job.



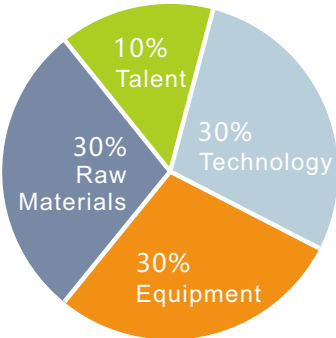
Remote Assistance & Management Monitoring

As previously established, properly designed and maintained quartz slab lines can be very reliable and deliver long MTBF. Nevertheless, issues can arise. To help address, VEEGOO quartz lines can be remotely assisted. This means that our after-sales service department in Foshan (Guangdong) can use special software to remotely connect to and check the quartz line PLC and functionalities. This is a normal practice in many production fields and helps expedite troubleshooting process and reduce maintenance costs.

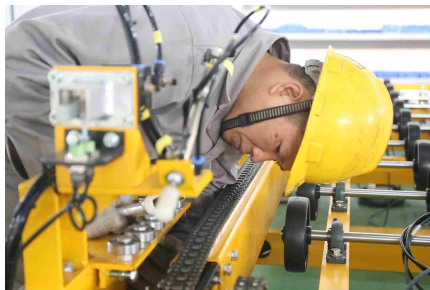
Manufacturing and Details

Quartz lines are a complex assembly of reliable and well-established technologies. VEEGOO's philosophy is to control each single phase of the construction process from design to machine-processing, assembly, and quality control before dispatching installation and commissioning teams and lastly, to the after-sales service. In other words, we are not just constructor of machines and equipment, we are manufacturers committed to delivering solutions.

Our rapid growth of the Chinese market share conquered in a few years, and the repeat orders we continue to receive from existing customers are evident of VEEGOO's competitiveness and reliability. We are positioned as a solid contender in today's market. Success is not a matter of luck. It is the product of a clear vision, planning, commitment, and hard work.



Ring Mixer Assembly



Installation



Polishing Machine Check



Machining



Gear Detection



Press Base



Boiler Assembly



Wiring



Lump Breaker



Touch Screen



Electrical Cabinet



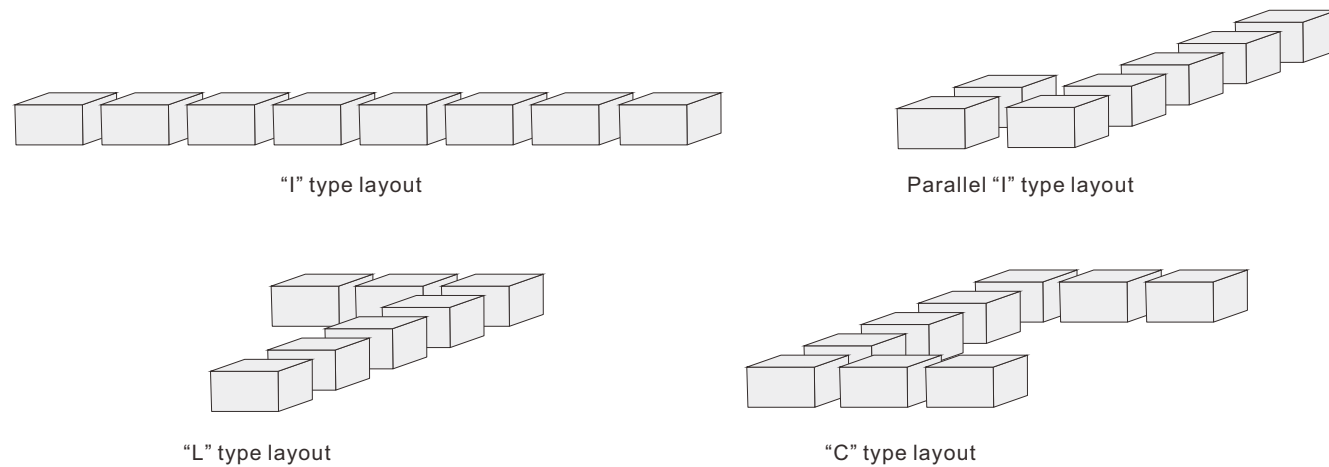
Shipping Out



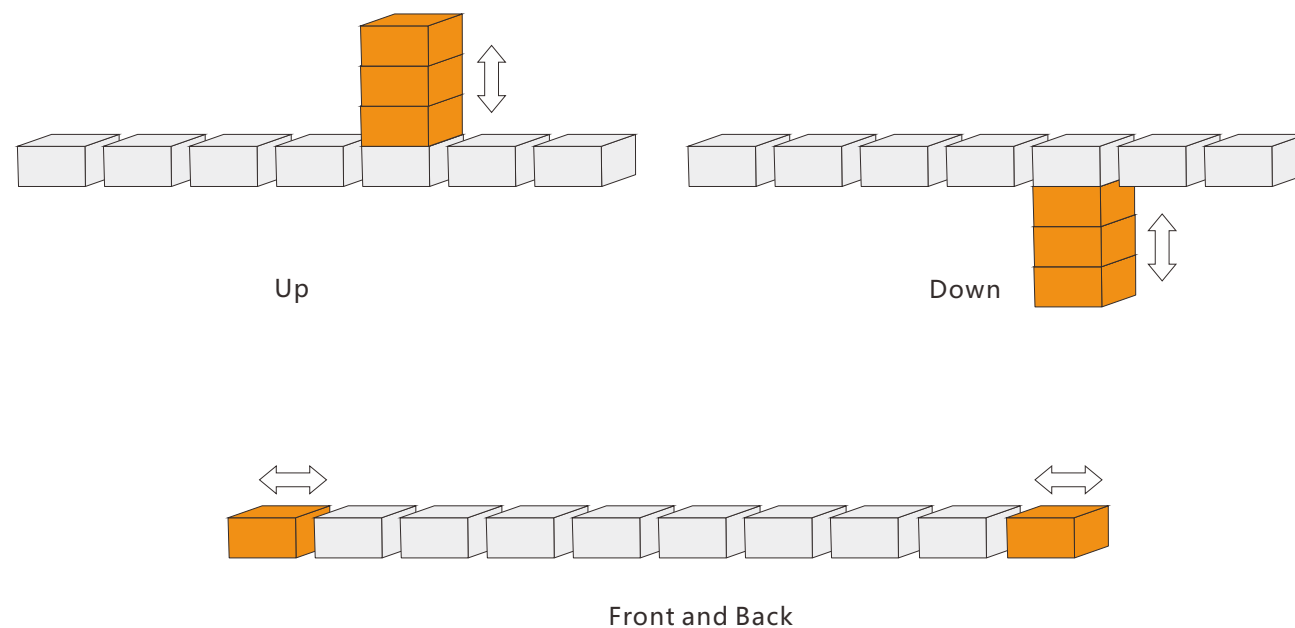
Buildings and Layouts

"New or existing?" That is the question. New buildings offer the opportunity to free the imagination in search of the best possible solution without any constraints. In such cases, it is possible to adopt left-to-right or right-to-left material flow, together with various layout configurations ("I", Parallel"I", "L", "C", etc.) to optimize operations and minimize floor space requirements.

Existing buildings on the other hand, can occasionally impose limitations on an optimal design. In such cases, the net height under the crane hook and the possibility of digging specific areas of the building are key factors.



In a nutshell, an optimal design is one that optimizes material flow, provides special by-passes for processing specific designs, and minimizes floor space requirements while preserving ergonomics, safety, and efficiency.



Laboratories

At VEEGOO, our highly-trained specialists and state-of-the-art laboratories provide support for any possible technical request from our customers. We can check and certify raw materials, analyze samples using reverse-engineering techniques to identify formulas, and help customers develop new products, formulas, and designs. This approach together with our manufacturing methods, our process technology, and the reliability of our plants, are some of the key elements that have propelled VEEGOO to success in such a short time span.



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<table><tr><th></th><th>Qty</th><th>Unit</th><th>Rate</th><th>Sub</th><th>Qty</th><th>Unit</th><th>Rate</th><th>Sub</th><th>Qty</th><th>Unit</th><th>Rate</th><th>Sub</th></tr><tr><td>10-18</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-24</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-30</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-36</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-42</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-48</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-54</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-60</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-66</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-72</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-78</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-84</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-90</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-96</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-102</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-108</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-114</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-120</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-126</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-132</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-138</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-144</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-150</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-156</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-162</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-168</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-174</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-180</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-186</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-192</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-198</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-204</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-210</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-216</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-222</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-228</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-234</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-240</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-246</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-252</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-258</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-264</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-270</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-276</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-282</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-288</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-294</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-300</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-306</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-312</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-318</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-324</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-330</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-336</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-342</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-348</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-354</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-360</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-366</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-372</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-378</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-384</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-390</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-396</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-402</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-408</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-414</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-420</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-426</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-432</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-438</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-444</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-450</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-456</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-462</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-468</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-474</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-480</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-486</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-492</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-498</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-504</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-510</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-516</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-522</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-528</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-534</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-540</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-546</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-552</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-558</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-564</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-570</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-576</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-582</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-588</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-594</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-600</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-606</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-612</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-618</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-624</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-630</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-636</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-642</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-648</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-654</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-660</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-666</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-672</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-678</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-684</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-690</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-696</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-702</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-708</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-714</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-720</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-726</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-732</td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td><td>10</td><td>sq</td><td>0.0000</td><td></td></tr><tr><td>10-738</td><td>10</td><td>sq</td><td>0.00</td></tr></table>													Qty	Unit	Rate	Sub	Qty	Unit	Rate	Sub	Qty	Unit	Rate	Sub	10-18	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-24	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-30	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-36	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-42	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-48	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-54	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-60	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-66	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-72	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-78	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-84	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-90	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-96	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-102	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-108	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-114	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-120	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-126	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-132	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-138	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-144	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-150	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-156	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-162	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-168	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-174	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-180	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-186	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-192	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-198	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-204	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-210	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-216	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-222	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-228	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-234	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-240	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-246	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-252	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-258	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-264	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-270	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-276	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-282	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-288	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-294	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-300	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-306	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-312	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-318	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-324	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-330	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-336	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-342	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-348	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-354	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-360	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-366	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-372	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-378	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-384	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-390	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-396	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-402	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-408	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-414	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-420	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-426	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-432	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-438	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-444	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-450	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-456	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-462	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-468	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-474	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-480	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-486	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-492	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-498	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-504	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-510	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-516	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-522	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-528	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-534	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-540	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-546	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-552	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-558	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-564	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-570	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-576	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-582	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-588	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-594	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-600	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-606	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-612	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-618	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-624	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-630	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-636	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-642	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-648	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-654	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-660	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-666	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-672	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-678	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-684	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-690	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-696	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-702	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-708	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-714	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-720	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-726	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-732	10	sq	0.0000		10	sq	0.0000		10	sq	0.0000		10-738	10	sq	0.00
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GTS

EC - ATTESTATION CERTIFICATE OF MD & LVD

Date/Place of Issue:	: 2015/12/23 Hammamoud
Client:	: Fushan Vepon Machinery Co., Ltd.
(Name & Address)	: NO 1 Jingshang Road,3rd Industrial Zone,Luzhou Xibao,Foshan, Nanhai,Guangdong China
Manufacturer:	: Fushan Vepon Machinery Co., Ltd.
(Name & Address)	: NO 1 Jingshang Road,3rd Industrial Zone,Luzhou Xibao,Foshan, Nanhai,Guangdong China
Description of Product (s)	: Quarter Shaft Plant
Made No.	: VQZ1300-90
Assessment Performed	: Conformity to Annex I/v Applicable Paragraphs of 2006/42/EC Machinery Directive & 2014/35/EU Low Voltage Directive
Standard(s) Referenced	: EN ISO 12100:2010 EN 60204-1 :2006+A2:2015
Conditions Subjected To Issue	: Acceptance of information submitted in technical file MD-TCF-151203-8686 and referenced against job file ISG757-GZT20
Determination	: In the opinion of GTS the submitted technical file MD-TCF-151203-8686 satisfies the requirements of the Machinery Directive 2006/42/EC Annex I/v & LVD 2014/35/EU
Assessor ID No	: TR-ID-S20
Date/Place of Assessment	: 2015/12/23 Guangzhou China

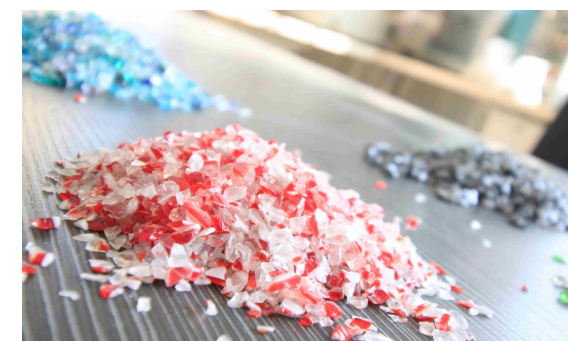
Test reports in technical file MD-TCF-151203-8686 and referenced against job file ISG757-GZT20 are reviewed and found to be acceptable. The CE mark as shown below can be used, under the responsibility of the manufacturer, after an EC Declaration of Conformity and compliance with all relevant EC Directives.

This EC-Attestation Certificate is only valid for the equipment and configuration described in conjunction with the date detailed above. It refers only to the sample submitted to Global Testing Services Co., Ltd for testing and certification. Any modifications made to the product shall immediately be reported to Global Testing Services Co., Ltd office or in order to examine whether this certificate remains valid. This certificate shall not be reproduced except in full without the written approval of Global Testing Services Co., Ltd

Approved by: Hermann Wichter

For and on behalf of
Global Testing Services Co.,Ltd

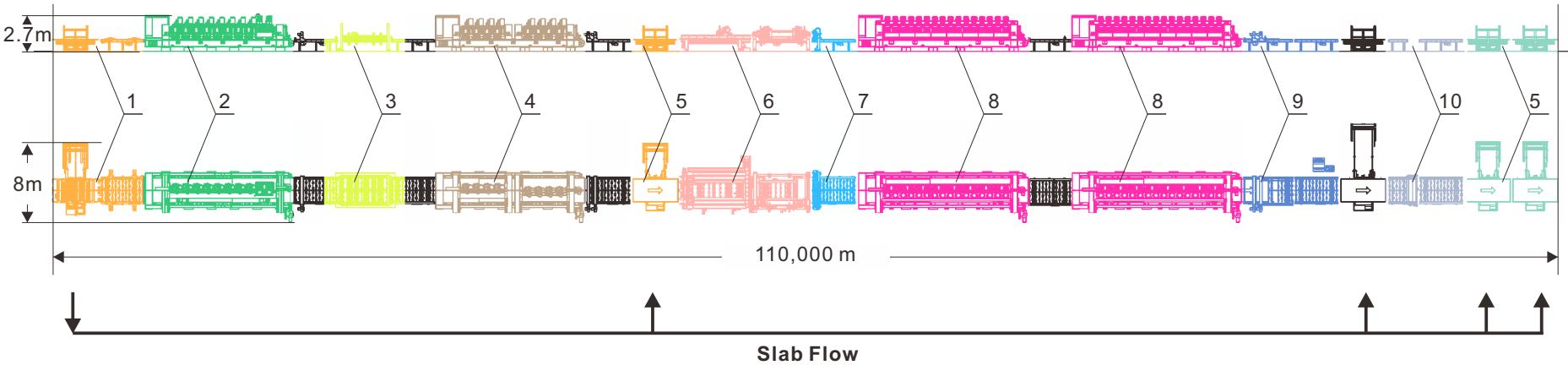
Global Testing Services Co., Ltd.
E-mail: gts@global-testing.com Web: www.global-testing.com
No. 168 Minghui West Road, Minghui District, Shanghai 201104 China



Performance Description of Polishing Line

Rigidity of beam is increased to reduce the vibration and improve the evenness. The swing speed of beam is fast and high-frequency. It is smooth to change direction and high efficiency. Calibrating head is a swing structure which Veegoo patented to make the slab smoother. Calibrating head has a special patent cooling structure resulting in more effective cooling effect, less abrasive wear and reduce production cost.

Equipped with a new polishing head to reduce the frequency of change abrasive, increase the working efficiency, low down production cost, and improve the uniformity, gloss and quality of polishing. The width and cross cutters are equipped with a waste collection system, which can automatically collect the waste and reduce one manual operation. The whole line is less occupation with high utilization rate of workshop.



1. Loading Machine	2. 8+2 Heads Calibrating Machine	3. Turn-Oven Machine	4. 4+4 Heads Calibrating Machine	5. Unloading Machine
6. Cross & Width Cutter	7. Gantry Chamfering Machine	8. 16 Heads Polishing Machine	9. Roller Table with Blower	10. Filming and Marking Machine

Main Specification

Working speed	Max 0.5-1.5 m / min	Total power	1,060 Kw
Swing speed	Max 50 m / mim	Air pressure	≥0.6 MPa
Working width	Max 1,700 mm (2,100 mm can be optional)	Overall Dimension	110,000 x 8,000 x 2,700 mm
Working thickness	(10-50) mm	Total Weight	150 Ton
Water Consumption	1,350 L / min		





8+2 Calibrating Machine

The machine is the first step of the production line: calibrating and rough polishing. It has eight calibrating heads and two polishing heads. This can choose either a satellite or roller type calibrating head and is suitable for the back side of the slabs.



4+4 Calibrating Machine

This machine is the second step of the production line: calibrating. It has two swing beams, and each beam has four calibrating heads. This machine can choose either satellite or roller type calibrating heads and is suitable for slab surfaces.



Polishing Machine

These machines are the third and fourth step of the production line: first and second polishing. It has sixteen polishing heads. The beam swing speed is 50m/min, and production speed is 0.5-1.5m/min. These can choose Comes head.

Cross & Width Cutter

The tool moves while the slab stops to make the cutting more stable with a waste automatic collection system.



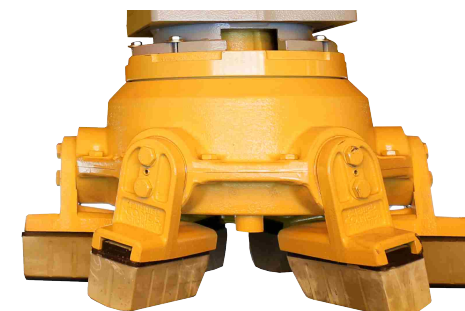
Gantry Chamfering Machine

Use pneumatic chamfering heads, maximum chamfering angle is C2. The machine is utilized before the polishing machine. The machine removes scratches effectively.

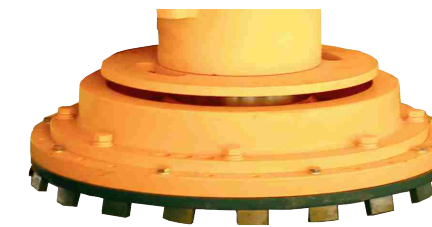


Filming and Marking Machine

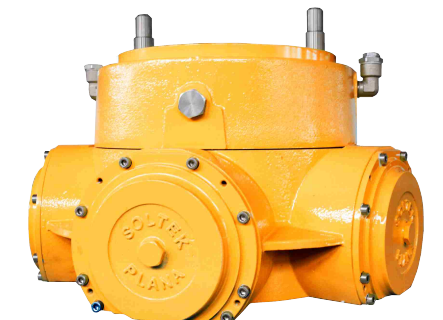
The machine is used after polishing with filming and marking function. These machines can choose film or mark individually



Six Claw Polishing Head



Satellite Type Calibrating Head



Roller Type Calibrating Head

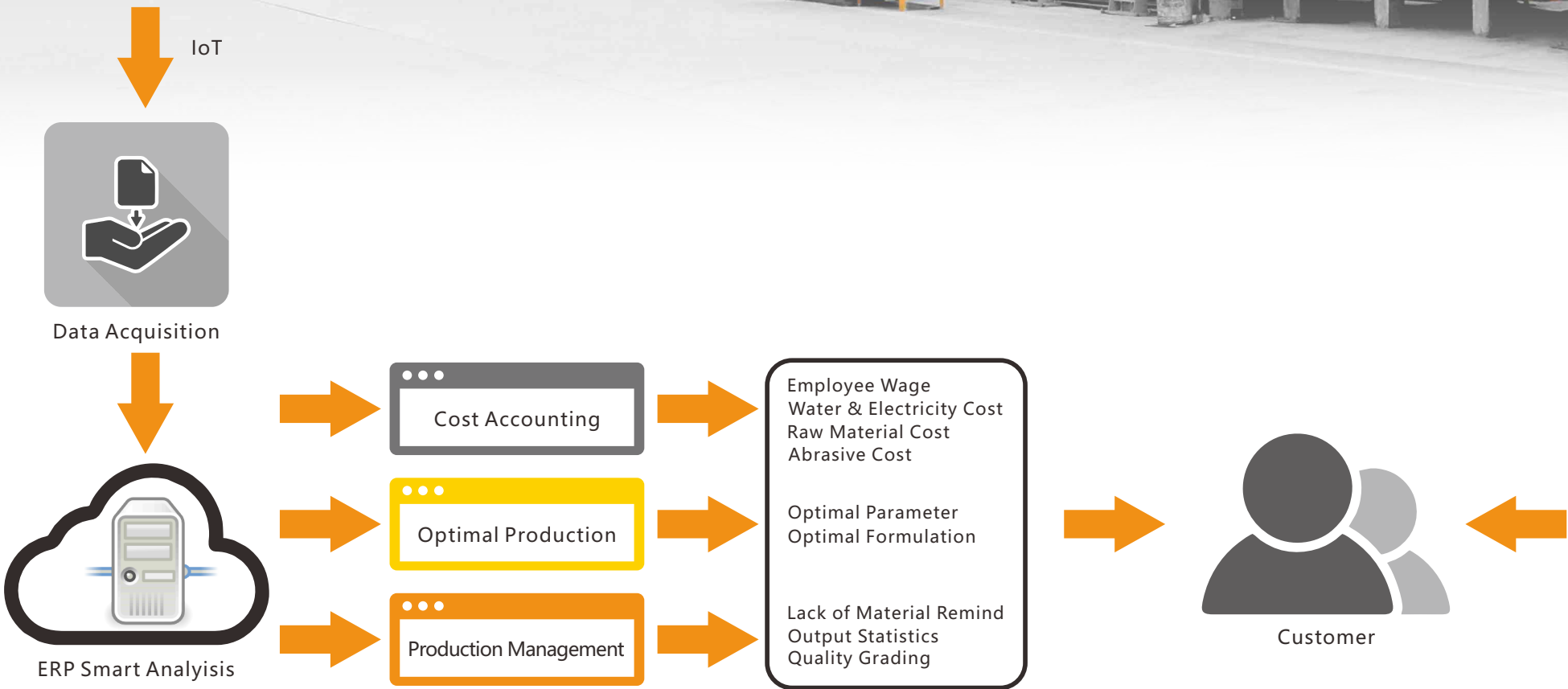
Quartz Smart Management System

By integrating ERP and whole line control system, Veegoo Quartz Smart Management System can automatically collect data and information from whole line control system, ERP carries out smart analysis, in order to achieve cost accounting, optimal production, production management and other functions.

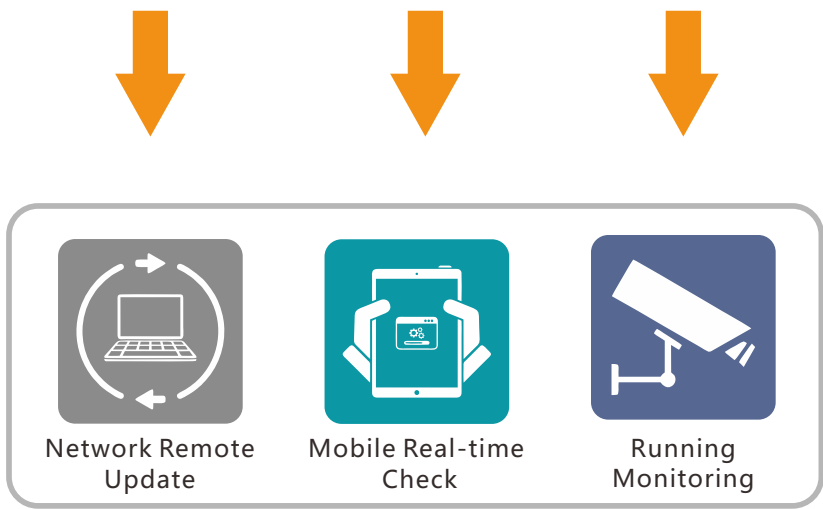
- Cost accounting: employee wage, water & electricity cost, raw material cost, and abrasive cost.
- Optimal production: optimal parameter, optimal formulation.
- Production management: lack of material remind, output statistics, quality grading.
- Remote update: PLC control to remote update through internet.
- Monitor production: Mobile APP monitor production output and machine running status.



Production Management System



Remote System Monitoring



Frequently Asked Questions

Q. Is it possible to manufacture good quality slabs with manual quartz plants?

A. Maybe yes, but manual lines cannot be compared to automatic lines. The initial investment may be lower, but it will lead to higher production costs, lower quality and reliability, and a limited range of designs. Last but not least, quality in manual lines can be achieved through the use of skilled personnel only, but repeatability will be unavoidably compromised.

Q. What is the most difficult thickness to manufacture?

A. Achieving a 15 mm thickness is more challenging than a 20 mm or 30 mm one because it requires greater control over the accuracy of the process.

Q. What are the main issues when producing Super White slabs?

A. Raw material and contamination! Only top quality quartz must be used, and it is crucial to ensure a clean channel from start to finish of the production line in order to prevent flaws or contamination.

Q. What about cleaning times?

A. This is a key issue. Cleaning downtime can be minimized through proper design, correct layout, efficient enclosures, adequate handling, and ensuring materials that come into contact with raw material and the finished slab are free from contaminating agents. On average, every 2 hours there is a 15 minute clean up.

Q. What are the most common defects in a quartz slab?

A. Pinholes, watermarks, deformation (flatness), lumps, and irregular patterns.

Q. What yearly production (m²/y) can be achieved?

A. It strictly depends on lot size, lot mix, color changes, and production planning. Normally 200,000 to 500,000 m².

Q. What about the price of quartz slabs?

A. It can vary significantly according to color and design. Presently in China, it ranges from 50 USD/m² to more than 200 USD/m². Since quality and automation account for higher prices and higher margins, it follows that manual lines cannot offer the level of profitability provided by an automatic line.

Q. From a financial point of view, what are the figures to be considered when buying a quartz slab plant?

A. Price is undoubtedly an important factor. However, more importantly are the returns on investment (ROI) and the payback period. These are strictly related to product quality and repeatability, equipment efficiency and reliability (MTBF), and production flexibility. Simply put, the level of profitability provided by an automatic line cannot be achieved with a manual line.



Why VEEGOO?

VEEGOO's impressive market share in China means we offer competitive prices. Repeat orders from top customers are evidence of our reliability. Exports to major overseas markets prove that VEEGOO's quality meets international standards.

So why VEEGOO? Because we are strongly committed to our two core businesses, because we want to constantly improve our lines and services, and because we assist our customers throughout the entire sales process including pre- and post-sales support.



ID	Year	Ountry	Project n.	Amount
1	2011	China	925	1
2	2012	China	111	2
3		China	612	1
4	2013	China	523-1	1
5		China	523-2	1
6		China	415-1	1
7		China	415-2	1
8		China	1207	1
9	2014	China	601	1
10		China	808	1
11		China	410	1
12	2015	China	326	1
13		China	202	1
14		China	415-3	1
15		China	415-4	1
16		China	523-3	1
17		Export	729	1
18		Export	281	2
19		Export	031	1
20	2016	Export	812	1
21		Export	551	1
22		China	202-2	2
23		China	415-5/6	2
24		China	9501	1
25		Export	031-2	1
26		Export	821	1
27	2017	Export	561	1
28		Export	431	1
29		China	0122	1
30		China	0120	2
31		China	0132	2
32		China	0144	1
33		China	0158	1
34		China	326-2	1
35		Export	851	2
36		Export	431-2	1
37		Export	134	1
38		Export	781	1
39		Export	411	2
40		Export	1601	1

ID	Year	Ountry	Project n.	Amount
41	2018	Export	134-2	1
42		Export	971	1
43		China	415-8	4
44		Export	811-2	2
45		Export	691	2
46		Export	851-2	1
47		Export	134-3	1
48		Export	411-2	1
49	2019	Export	551-2	1
50		Export	781-2	1
51		Export	1601-2	1
52		Export	901	1
53		Export	1725-4	2

References

Since its establishment in 2011, Veegoo has installed over 67 Quartz Plants and 73 Resin Lines. Outside China mainland, we have 43 complete lines and machinery in Europe, USA, Turkey, South Korea, India, Oman, Vietnam, Cambodia, Namibia, Lebanon and Taiwan.....

Europe

India

Korea

USA

Vietnam

Leanon

Oman

Cambodia

China Taiwan

China Mainland





More Value to Your Investment