

## INNOVATION



## CUSTOMER LOYALTY



## EQUIPMENT RELIABILITY



## TECHNICAL SERVICE



## MARKET LEADER



## TURNKEY SOLUTIONS



**MAF RODA**<sup>®</sup>  
**AGROBOTIC**<sup>®</sup>

*Visionary engineering*



# A strong value: the BLANC family and their staff, over 111 years in the field of fresh fruit and vegetables packing

With a key experience starting in 1905 for fruit growing and the establishment of MAF France in 1962 for development of sizer machines, and nowadays a presence with subsidiaries on all continents, MAF RODA AGROBOTIC is working in over 60 countries and provides turnkey solutions for over 40 types of fruit and vegetables. A major asset to collect information from the field thanks to its customers, and to define the most appropriate system definition to fulfill their requirement and customization for sorting and grading their products.

Driven by innovation and customer oriented, the firm still proves for years its ability to offer high-end solutions which meet the market demands.

And the obvious craze for its latest internal and external quality sorting system with IDD4 (Internal Defect Detection), VIOTEC 6 and VIOSCAN 6 demonstrated during FRUIT LOGISTICA 2016 in Berlin, shows the major interest from fresh fruit and vegetables growers from all over the world to improve their process control with such equipment. With 100% design and manufacturing of the grading, packing, palletizing and handling systems, MAF RODA AGROBOTIC remains the undisputed leader in providing turnkey solutions for fruit and vegetable supply chain.

In the following pages, we present some of MAF RODA AGROBOTIC's latest installations around the world.

**PASSION**  
Our driving force  
in our activity  
and our major asset  
in our worldwide success !

***"We are honored by your trust.  
We will always be there for you and ready to meet your requirements,  
and to offer you the most cost-efficient solution  
for your investments."***

**Fabrice BLANC** - Export Sales Director



**MAF RODA AGROBOTIC** worldwide sales team gathered on FRUIT LOGISTICA 2016 exhibition in Berlin

## LIMDOR, pre-sorting for major profits

FRANCE



Jean-Luc SOURY - LIMDOR Director



*"The Golden of Limousin is not an apple as the others. Thereby we could not choose a company as the others. Due to their professionalism, knowledge of our product and experience which they have in the world of the Golden apple grown at altitude, we trusted MAF to install the first pre-sorting solution in Limousin. Profits are multiple: from the knowledge of available stocks for our commercial to the savings realized on the product recovery. We had to pass the course, MAF RODA accompanied us, and nowadays the work in two phases appears to us as an obvious fact."*

## SERU, for the best of the pear

FRANCE

*In September 2015, Vergers de Seru has started the pear season with a brand new one-line grader particularly intended for Conference variety.*



The installation is equipped with an in-water emptying and singulation system. Using an AXONE grader specifically designed for pear, the solution is completed with GLOBALSCAN 6 optical sorting for diameter, length and external defects control. The sorting process is completed by internal sorting for browning detection with an IDD4- internal quality defects detection equipment.

The installation has been designed as well to offer the possibility to allow a pre-sizing on 4 dry bins filler.

Vergers du Seru's fruit station includes as well packaging and labeling tables with the evacuation towards a MAF palletizer.



Emile TERNYNCK - CEO of Vergers de Seru

*"We are extremely satisfied with the MAF process for the Conference pear. We have chosen the external diameter sorting and internal quality control. The MAF RODA equipment is highly efficient for this fruit which is complicated to sort out because of its length...."*

*AXONE's hands allow to carry out fruits lengthwise. It really avoids to have 2 fruits together as with the cup system.*

*A big "thank you" to MAF for this technology..."*

## PROVENCE COMTAT, apples benefit from an exceptional sunshine

FRANCE



*SICA Provence Comtat recently settled down in the heart of the Vaucluse in Chateauneuf de Gadagne (South-East of France).*

In Provence, it's the earliness apples harvest and the varietal diversity. The great weather conditions getting for apples their color, their firmness, their sugar and their acidity.

Nowadays, PROVENCE COMTAT has implemented a pre-sizing lane using a 6 lines POMONE IV with 44 water canals and 8 packaging lines.



## FRANCE **GÉRIN & FILS, first pre-sizing line for melon**

FRANCE *GÉRIN & FILS company is specialized in the production, trade and shipping of fruit and vegetables since 1895.*

The production sites are based in France, Spain and Morocco. In France, at the headquarters in Carpentras (near Marseille), GÉRIN & FILS has invested in the first pre-sing line for melon ever. Technically, the installation is composed by a 2 Lane ONEWAY 152 grader with 8 outlets including:

- 6 exits on dry bins,
- 1 exit on tray at the end of the conveyor.



**Bernard GÉRIN** - GÉRIN & FILS CEO

« The pre-sizing we have installed revolutionizes our former operation model. Nowadays, thanks to this system, we know permanently our stock level for each size. The independent lines of packaging (single size) give us a very high reactivity, greater yields by packing machine and eliminate the repacking works. Thanks to this new method of operation, we can satisfy within a very short space of time the orders of our customers. And this process has a real impact on the reduction of our costs of packaging. »



## FRANCE **NOVACOOP, better efficiencies on preparation**

FRANCE

**Cédric MANGIN** - NOVACOOP Director

“Further to last years investment in a new mono-grading packing line solution equipped with drilled tilted belts for the parcels scrolling, we decided this year to trust again MAF RODA, by investing in the change of an old line by the same of the last one installed. Indeed, the versatility of the line, the new automatic servo system and the fully rethought ergonomics of the packing table, have not only brought an optimal working comfort but also better efficiencies on preparation.”



## FRANCE **VAL SOLEIL, a strong trust**

FRANCE

VALSOLEIL - a versatile cooperative set up by the farmers to keep control of their productions, has equipped itself with a 6 lines POMONE IV with a GLOBALSCAN 6 and a SoftnesScan 2 electronic sorting systems in order to process to the packaging of Bergeron variety, the traditional apricot of the Drôme area.

Bergeron, symbolic variety of their terroir, the Drôme des Collines, remains the reference for this kind of fruit production. Their season is from the mid-June to end of August and with its 4 000 tons of apricots collected every year, VALSOLEIL is able to regularly supply important batches of fruits with very good quality and correct sizes!

**Xavier BLOT** - VALSOLEIL General Manager (left side)

«Thanks to this investment, we have sorted and graded this season all the delivered production of the fruit growers, even the most hailed of it, a hand-sorting would have been impossible to do!»

“For some very affected batches, we have been able to extract the entire 1st category for the benefit of all producers.»





## GUIMERA, safest bet with MAF solution

SPAIN

GUIMERA has invested in a sorting line for small fruits of 28 to 70mm diameter, equipped with PLUMONE grader (working speed: 15 fruits/second per lane), using GLOBALSCAN 6 -the latest external quality sorting, and SoftnesScan -for internal quality control / soft fruits detection.

Rosa GUIMERA - General Manager of GUIMERA

**"Due to the volume production increase of small diameters stone fruits (apricots and plums), we have decided to install a dedicated sizing machine for these products.**

**We have resolved to make the safest bet with installing a MAF solution. This investment has resulted in a real success, not only for the implemented system, but also thanks to the ability of MAF to understand our needs."**



## ACTEL, a major gain in quality control

SPAIN

Due to the variability of the products to be treated, ACTEL bet on small and compact sizer.

After its experience of last year with the Freeway sizer, ACTEL is able to notice that working with packing boxes increases the production and reduces the prices of preparation compared to preparations on belt.

The other new thing is that after having tried the GLOBALSCAN 6 and seen its results this year, they think of installing two other machines and quality systems and internal firmness because they reduce, between 15% and 20% the prices of preparation by guaranteeing the perfect firmness for each market sales.



## CERIMA, high capacity

SPAIN

CERIMA CHERRIES is a company exclusively focused in the cultivation, importation, exportation and marketing of cherry.

Their lands are located in the Ribera d'Ebre region, Tarragona, Spain, which have a well-known privileged climatology. This region is located by the Ebro river, which creates an exceptional microclimate that allows us to harvest our first cherries in April and finish in July.

Josep Enric CEDÓ - Manager of CERIMA

**"Acquiring a MAF RODA Cherryway installation with 10 lines saved our production. In fact, the high recorded temperatures in May last year caused the overlapping of the different varieties of cherries we grow, resulting of a dayly volume between 75,000 and 90,000 kg we have been able to process thanks to MAF equipment."**



## ARILFRUT, versatility and optimization combined

SPAIN

ARILFRUT, traditional and conservative business in Lleida, counted two graders until now, a 4 lines and a 6 lines.

Although, after testing the Freeway 2L 24 sizer with dump outputs in water and automatic palletizing, **Mr. Arcadi Jové** - Manager of ARILFRUT - says **"If I could imagine my installation I would like a place with 5 installations as our latest acquisition, because of its easy handling, its versatility, its optimization and its increase in production, our last installation is the one which we use every day."**



## VICASOL, innovation and growth

SPAIN

VICASOL is the leading cooperative in intensive horticulture in Almeria (Spain). Currently, and according to its strategic plan, it has four facilities for handling and packaging of fruit and vegetables with the most appropriate technologies.

MAF is considered the most reliable and stable bet on which to continue betting for research and development of their business.



Jose Manuel FERNÁNDEZ - Director of VICASOL



## CÍTRICOS GINERO, specialist producer

SPAIN

Roberto FERRER, manager of CÍTRICOS GINERO, S.L., has defined as imperatively necessary the updating of the facilities to adapt them to the unique market of citrus and its new varieties by replacing the traditional sizers by new Pomone sizers equipped with Computer Vision to define the qualities appropriate to the market orientation.



Roberto FERRER, manager of CÍTRICOS GINERO, S.L. (on left side) with Bernardo FERRER, RODA IBERICA Sales Director

## LA CAÑA-EUROCASTELL, exportable services

SPAIN

SAT LA CAÑA / EUROCASTELL SAT is a leader in the subtropical fruits and vegetables production in the region of Motril (Granada) Spain.

To adapt their products to the market, they have installed the latest MAF technologies for sizing and definition with great satisfaction and improvement of the result.



Jesús GARCÍA - CEO of Miguel García e Hijos Group / EUROCASTELL

## AMC SPAIN, quality evolution

SPAIN



The AMC SPAIN group starts a new stage of transformation and development adapting their facilities for the handling of new and more sensitive varieties. For that purpose, the latest technologies in sizing and comprehensive view of quality developed by the MAF group have been installed.



## GRANADA LA PALMA, the excellence of a product

**SPAIN** GRANADA LA PALMA, first cherry tomato producer, renewed confidence in MAF and installed the fourth automatic pre-sizing and definition line of cherry tomatoes, with their multi-variables shapes and flavours.



Members of the Board of Directors of Granada La Palma



## VI. P, trust in MAF sorting and packing solution for cherries



ITALY

The well-know apple cooperative, located in Val Venosta (South Tyrol, Italy) trusted the high technology of MAF RODA for sorting and packing its cherries.

MAF RODA installed in 2016 a complete process line for cherries inside the ALPE Cooperative (member of VI.P). The plant is composed by a hydrocooler (able to cool up to 3 pallets of cherries at the same time),

GLOBALSCAN 6 Cherry. This electronics device is the heart of the installation, giving guarantee of continuity and accuracy for diameter, colour, external quality and internal quality (soft cherry).



a Cherryway sizer 6 lanes equipped with the latest electronics generation



Additionally, MAF RODA has installed different solutions of packing for cartons and punnets (from 250g to 1kg). One of these solutions is based on automatic punnet filler controlling the weight of each single punnet. This will allows for sure to reduce greatly the cost of production of cherries.



## DELTA AGRAR, a big step forward to handling apples



SERBIA

As the main fruit station for apples in Serbia, DELTA AGRAR equipped itself with a pre-sizing system and with two lines of packaging designed and built up by MAF RODA of any last generation.

The water infeed pre-sizing is completely automatic. It has a capacity of a 10T / hour production and allows the customer to sort out apples by weight, diameter, shape, color and external quality with the latest generation of electronics: GLOBALSCAN 6 equipped with HD cameras.



The two versatile packaging lines assures to the customer the possibility of packing apples in all the main known packages (1 and 2 ranks trays, bulk boxes, tray packs,...) with a neat ergonomics of the workstations. Finally, every so made parcels are automatically palletized and strapped with a follow-up thanks to the traceability system integrated into all the process.



**Aleksandar ZIVKOVIC** - Investment and Development Director, DELTA AGRAR

*"DELTA AGRAR is leading agricultural company in south Eastern Europe. In northern part of Serbia, we have established state of the art apples orchard on over 350 ha.*

*Following highest standards and results, implemented in orchard, in 2015 we have made excellent decision to buy presorting and packaging technology from MAF. Thanks to this turnkey solution, we made a big step forward in handling our apples. MAF technology is gentle, efficient and user friendly. It is a pleasure to work with this equipment as well as with people from MAF. Now we are very satisfied with the best equipment in the world for presorting and packaging of apples."*



MOROCCO

## SUNPACK, optimized and performing chain



Morocco is renowned to harvest amongst the tastiest citrus in the world.

All over the year, SUNPACK grows and selects there its fruits from its own orchards. All these seasonal varieties of citrus (Nour Clementine, Navel, Nadorcott Clementine, Maroc Late, Lemon) are then carefully packaged in its own packing factory.

Only miles away from its orchards, SUNPACK is nowadays equipped with a complete packing line with a POMONE grading machine with 6 lines, to mainly process the conditioning of the Nadorcott Clementine. Thanks to its logistic platform,

SUNPACK ensures a worldwide dispatch covering Europe, North America, Russia, and the Middle East.



**Youness CHRAIBI** - SUNPACK  
General Manager

*"The main challenge for SUNPACK was to implement a station of conditioning in a very short time.*

*Besides this problem, RODA had to work to design a chain within an existing building.*

*These two challenges were brilliantly found by the teams of RODA which respected the deadlines and allowed SUNPACK to start in time and by the way, test the installation. The experience of RODA allowed to develop a performing chain and to optimize the existing space and flows.*

*SUNPACK can thank RODA for its seriousness, its expertise and its strictness."*



MOROCCO

## PACK SOUSS, packing machines with high performances



**Khalid BOUNAJMA** - PACK SOUSS Station Managing Director

*"The Group DELASSUS has decided in 2014 to challenge its management team and partners: rebuilt completely the packing station of PACK SOUSS during the off-season by doubling the production capacity, to manage up to 40 Tons per hour of small fruits, and this on a plot of 14.600 m<sup>2</sup>. In retrospect, I realize the extent of this challenge.*

*To make a success of it, we needed a partner that was capable to offer a complete range of packing machines with high performances, reliability and durability. A partner offering "perfect adapted custom" solutions, but scalable.*

*Today with a little hindsight, I can assert with pride that we have succeeded hands down this challenge and have a compact packing station which conforms to the international standards.*



*The MAF RODA Group has significantly contributed to this success with its Moroccan, Spanish and French entities.*

*Our ongoing partnership with the MAF RODA Group allows us to undertake our campaigns with serenity, thanks to the trust which offers us the reactivity of the after sales service of RODA Maroc, the local entity of the group MAF RODA in Morocco."*



EGYPT

## MAGRABI AGRICULTURAL COMPANY, advanced technology for serenity



MAFA, one of the most important citrus producers in Egypt, has decided to restructure his station of conditioning with an ultra-modern treatment, grading and packing orange line.

MAFA trusted in MAF RODA Group, leader of the manufacturer of the Egyptian market.

The line installed (beginning of 2016) is sized for a continuous productive capacity of 35 T/h. It is established with an emptying and treatment part (with waxing), an electronic sizer Pomone IV with 8 lines and packing tables with fruits distributor.

This installation is especially marked out by the first quality sorting (GLOBALSCAN 6) in Egypt which allow the fruit selection by their weight, diameter, color, shape and external quality (orange skin defect). This advanced technology is going to help the customer to land new export markets with serenity.



## **NONGFU SPRING, highly sophisticated automation processing**

CHINA

Since 2007, MAF RODA cooperates with NONGFU SPRING, a well-established company in the beverage industry in China.

In 2015, NONGFU SPRING purchased a 10 lanes sizer with a completely automatic infeed system, which is capable of sorting more than 1000 tons of orange per days.

Since last year, NONGFU SPRING has decided to speed up the investment on fresh fruit market. They invested in a huge and modern lane in the heart of the citrus area in China.

This highly sophisticated automation processing gathers all the latest innovations of MAF RODA GROUP such as sugar and acid device, external quality system, traceability and other automatic components dedicated to work 24 hours during the busy harvesting time.



After running the new line in Anyuan in the end of 2015 and tested with Maf sugar and acid equipment onsite, NONGFU SPRING has invested in 4x 6 lanes and 1x 8 lanes Maf machines with full automation and sugar/acid on 22 lanes total in their new packing house in 2016. This will be the biggest packing house in Asia in the future.



CHINA

## **XING YE YUAN, Biowaxer arrives in China !**

Mrs Liu, CEO of XING YE YUAN has always been looking for the best quality in fruits and vegetables to supply the well established and reputable supermarket brand.



Last year, XING YE YUAN increased its capacity of production with the purchase of three new sorting lines from MAF: one for peach, one for apple and one for citrus. This year, after completing related studies by herself in France, Mrs Liu has decided to be the first in Asia to invest in our alcohol wax system to extend the average lifetime of apples after sorting.



Liu YAN - CEO of XING YE YUAN

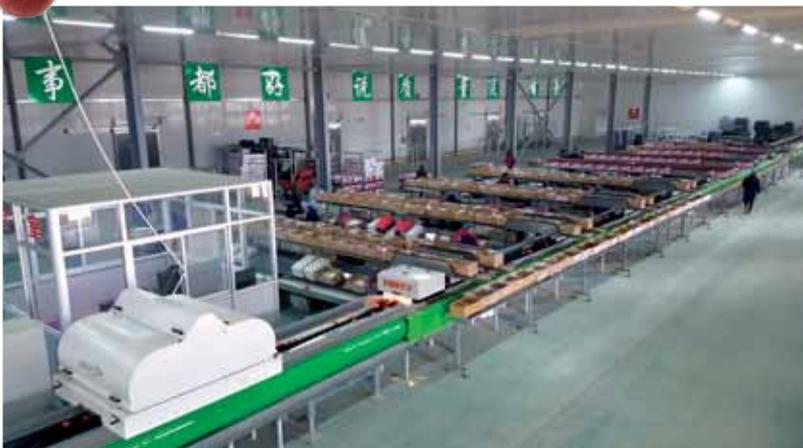
*"It is a pleasure to work with Maf professional team to customize my requests, with good service, to raise the accuracy on weight and quality so as to raise my company's competitiveness and value of product."*

## **YUMMY SUNCO, efficient sensors**

CHINA

Since the creation of the factory in Yantai in 2006, MAF RODA GROUP has manufactured and installed many lanes for citrus, kiwi and especially apple in China.

YUMMY SUNCO is one of the latest customers to choose MAF RODA AGROBOTIC for its innovative technology, with efficient sensor for sugar and external defect detection systems, and timely after-sales service. Since last year, YUMMY SUNCO has begun to export its apples to the USA.



Qiao ZHENGMIN - General Manager YUMMY SUNCO

*"Maf China has more than 10 years of experiences of providing apple sizes to suit the special, fragile paper-bag apples in China, and succeed on this apple field with many customers, and of course with good technology and good after-sales"*



## AGRÍCOLA HOJA REDONDA, a reference in the southern hemisphere

PERU

*The company AGRICOLA HOJA REDONDA is, for all purposes, a leader in citrus fruits in the Southern hemisphere.*

Specialized in citrus variety Murcot. The annual production volume reaches 25,000 tons, of which 60% is own production and the rest is from partners.

The facilities have been updated and recycled by MAF in 2015, equipped with high quality technology that provides the necessary added value to the fruit.



Miguel ALAYZA - Export Manager

## PROCESADORA TORRE BLANCA, S.A.

PERU

Gianfranco GUERRINI CRESPO - Business Management



*"PROCESADORA TORREBLANCA (Chancay-Lima-Peru) had to take an important step and consolidate its packaging offer in the northern area of Lima, that has been offering since 2007, and the fruit machinery to choose was a key point. After reviewing and evaluation of the available offers, we decided to work with MAF RODA and we gave them the task to handle the design and manufacturing of the processing line. A not minor matter was the delivery and commissioning time; MAF RODA exceeded our expectations and in a record time we were giving service to our customers. A line with a very good finishing, very friendly, quiet and that cares of the fruit from dumping to packaging.*

*I am very happy I chose MAF RODA and this is the first step of a great walk together".*



## GERULIS PRODUCE S.A DE C.V

MEXICO



In 2015, the Company Gerulis Produce S.A de C.V bought a complete installation of 4 lines for the grading of the variety of Tomato Saladette, with the electronic sorting system OPTISCAN V in color and infra-red light for the selection of the diameter.



Jesús Armando TORTOLEDO URIARTE - President of the Agriculture & Food Division

*"We significantly reduced the proportion of the workforce, and set up a more flexible automated process to adapt itself to the various types of packaging of our product."*

## AGROPECUARIA MALICHITA S.P.R. DE R.L.

MEXICO

Agropecuaria Malichita is one of the main producer of watermelon in Mexico. It was founded in 1997 in Guaymas valley (Sonora). Moreover, Agropecuaria Malichita grows various cultures between which stand out the Italian pumpkins, yellow and grey, a cantaloupe melon and honey dew, watermelons seedless, tomato saladette and a variety of pimiento.



Rodolfo ZARAGOZA - Owner of AGROPICUARIA MALICHITA

*"We trusted in MAF RODA AGROBOTIC on two projects: an installation dedicated for the Watermelon, and another one for the Tomato with 16 automated lines. The performance and the productivity gain was so satisfactory as we decided to buy two additional machines."*





## GLOBAL FRUIT S.A. DE C.V.

MEXICO

Ing. Salvador FARÍAS - General manager

"GLOBAL FRUIT, a Company with more than 30 years of experience in the marketing of Avocado Hass, located in Uruapan Michoacán in Mexico, continues to innovate its process of selection. It recently modernized its installations by integrating the technology MAF RODA AGROBOTIC of electronic sorting GLOBALSCAN 6, for Avocado, to satisfy the requirements of its main markets, which are Europe, Asia, Canada and the USA, by marketing annually on average about 50,000 tons of fruits."



## PUNTA COLONET SAN TELMO S.P.R. DE R.I.

MEXICO

PUNTA COLONET SAN TELMO, SPR de R.I is one of the most important companies producing tomato saladette, located in Ensenada, Baja California.

PUNTA COLONET is equipped with state of the art technology and used automation in its processes, thanks to 3 HIGHWAY sorting machines, with 2 of them composed of 6 lanes and one with a 4 lanes.



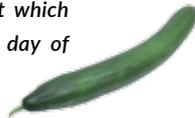
LAE. Ricardo MARTÍNEZ SAUCEDO - General manager

"For us, the implementation of projects of MAF RODA AGROBOTIC allowed to obtain excellent improvements of the productivity and the quality control of our products, what allowed the marketing of the best of our production with operation times much lesser reducing so considerably the hourly fees of workforce and needs in human resources."



Juan Diego GURROLA - Operations Manager

"With MAF AGROBOTICA, we have a few years of commercial relationship and acquired several equipment, as a HIGHWAY 8 lines for Tomato, 2 PIANO KEY, 1 line for the melon and a last machine for the cucumber with a PIANO KEY 4 lines which answered with very satisfactory results of 9 000 boxes in field output which convert in 7 600 boxes packed on a day of 8 working hours."



## GRUPO ALTA S.A. DE C.V.

MEXICO

GRUPO ALTA is a leading company on the market of the production of vegetables. It distinguishes itself by its quality, its safety and the variety of its biological certified products.



## SAN ISIDRO

CHILI

San Isidro Packing House is an important Chilean fruit packer, they specialize in Apples and Pears.



San Isidro Packing House is where EQUIMAVI / MAF RODA has installed this year 4 "rapid packs tables" able to handle between 5 and 8 bins/ hour, each of them, also was installed an automatic Palletizer which is able to handle up to 600 boxes per hour, depending on the box type. With this new equipment the customer has been able to be more efficient by increasing the production, kilos per hour, and lowering the amount of people working on the lane.

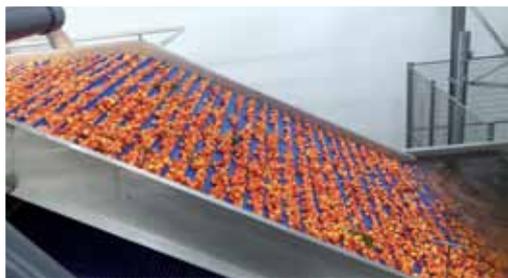
## WASHINGTON CHERRY GROWER, long term partnership

**USA** *One of the top packer of export and domestic cherries in the world, with a goal to provide the best quality sorted, with reduc labor and gentle handling of all varieties of cherries.*

Washington Cherry Growers selected MAF Pacific Northwest because of their advance Cherry packing technology and experience in automation, defect sorting electronics, high production levels with gentle handling. All provide by MAF design, manufacturing and service teams.



The project includes 42 lanes of MAF GLOBALSCAN 6 electronic grading/sizing solution with possibility to separate into 28 lanes and 14 lanes to run different products with all new machines and equipment up to 16 high speed automatic box fillers for any size of loose and pouch bag boxes.



**Ron GONSALVES** - President WCG



*"The quick response from the MAF team following a complete loss fire last season, allowed us to be back 100% in service for the 2016 cherry season (9 months build and install time)."*

*Washington Cherry Growers is absolutely pleased with the latest defect sorting and grading provided by MAF, along with their sales, service and support teams. The combined effort of both WCG and MAF lead to an almost record year of 63,000 bins packed (10 weeks)."*





## MISSION PRODUCE - Phase 2

One of the largest marketing, sales and packing operations of avocados with facilities in the USA, Mexico and Peru have installed a state of the art packing line that utilizes the MAF GLOBALSCAN 6 avocado grading program in conjunction with the MAF Pomone IV carrier.

Full product traceability and precise grower lot information is also a major part of the new MISSION PRODUCE USA line. The ability to accurately provide grower packouts and maintain full traceability was key to the decision for MISSION PRODUCE choosing MAF Industries as its "turn-key" equipment supplier. The MAF Roda companies of France, Spain and the USA all provided specialty equipment items and support for the construction and installation of the complete line.



**Jake NIXON** - VP of Engineering and Capital Improvement

*"MAF's ability to execute all encompassing, turn-key solutions for any packing need simplifies the installation and integration of complex projects."*

*The GLOBALSCAN vision system has tremendously improved the quality and repeatability of our sorting process. The user interface is very intuitive and makes learning and training a breeze.*

*The DIR solution for feeding bagging has resulted in more than a 20% improvement in our productivity and costs.*

*MAF's ability and willingness to learn our business and provide tailored solutions has been impressive."*



## WEST COAST TOMATO, high quality standard

**Bob SPENCER** - President of WEST COAST TOMATO, LLC

*"WEST COAST TOMATO has been a MAF customer for over 12 years."*

*We feel this relationship has put us at the forefront of our industry with regard to efficiency and innovation.*

*The recent implementation of the latest MAF defect grading system for round and roma tomatoes helps us maintain our competitive edge in a difficult environment.*

*The consistency in our packable quality and line speed has been amazing."*

*One of the largest nationally producer and marketer of round and roma field tomatoes has been a MAF customer for over 13 years and in 2015 installed 8 of the 20 lane MAF Highway carrier system with the latest tomato grading program offered by MAF.*

The results were so positive that just one month after the initial installation, the balance of the 20 lane

system was also converted to MAF GLOBALSCAN 6. The facility uses not only the MAF defect, color and sizing optics but also 32 MAF high speed carton fillers which are all being scheduled for upgrade in the summer of 2016. New touch screen operator panels and upgraded electronics comprises this segment of the upgrade.





## M & R PACKING, 1st cherry packer of California to utilize technology from MAF

M & R PACKING took advantage of MAF's newest cherry grading technology by installing a 14 lane by 13 control led outlets for sorting cherries by size, color and defect. The implementation of MAF's CherryScan 6 cherry optical system allowed the removal of not only external defects but cherries that were "too soft" for the commercial market.

The application of the new MAF grading system allowed the facility to become 100% electronically sized cherries with before this latest installation only a select size structure and 30% of the flow was optically sized. The other aspect of the new line was the installation and use of 8 new MAF high speed filler that allowed M & R to run each carton style whether in bulk or with pouch bag mani folds that adjusted automatically to the proper height in order to minimize the drop distance of the cherries into the container being used.

The customer's operational personnel were trained on the use and features of the CherryScan optical system by showing the simple and easy to manage adjustments of the grade and size parameters that allowed the packinghouse to optimize the results being desired.




## HARRIS FRESH, track of every load

HARRIS FRESH is one of the industry's most trusted and reputable sources when it comes to onion and garlic. Harris Fresh Ranches of Huron California chose MAF's 8 lane INTEGRA + GLOBALSCAN 6 Onion grading and sizing machine to automate the handling of the 2016 onion crop produced and sold at HARRIS FRESH.

HARRIS FRESH is a repeat customer of MAF as 4-5 years earlier the very first MAF garlic sizing and carton filling system was installed in an adjacent HARRIS FRESH facility. The ability to sort onions by a controlled rotation under the viewing cameras allowed for removal of onions with visual damages as well as onions with soft flesh areas of the onions surface that would not survive into a fresh pack application.

MAF has brought the heavy duty carrier application that is used in the onion application to its manufacturing and assembly plant in California. The technology for looking at onions with greater internal diagnostics is expected to also being installed on this system for the 2017 operating season.



**Doug STANLEY** - CEO at HARRIS FRESH

*"We can track every load we ship from start to finish - one example of our dedication to food safety, reliability and innovation."*



**INDIGO FRUIT FARMING, State of the art packing line for the soft citrus expert in South Africa**

INDIGO FRUIT FARMING has deployed a brand new complete pack house with another turn-key project featuring 100% France & Spain built equipment from MAF RODA.

The highest level of technology and automation available on the market can be seen in action in what is proven to be the most modern and advanced citrus pack house in the country to date.

Main components of this installation are as follow:

- Fully automatic bin tipper RCA 111 able to feed 110 bins/hour to the line,
- In line bin weighing and traceability,
- Empty bin transfer with DIR Robot restacker,
- Dual 2 m wide treatment line with fully integrated fruit washing, waxing and treatment systems,
- High speed electronic sizer POMONE IV 8L with the latest GLOBALSCAN 6 electronic blemish sorting system (colour, shape, diameter and external defects),
- Quality control and full supervision systems,
- Automatic packing machines Bin Fillers (for wooden, plastic or carton bins), Speed Baggers (for plastic bags), Speed Packers (for place packed products) and MGT (for loose boxes),
- Manual 4-count packing tables,
- Fully automatic palletizing and strapping systems,
- Empty box management.



**A.J. ESSER - CEO Indigo Fruit Farming**

*“On our new line we are able to pack 40 tons per hour compared to the previous 15 tons per hour.*

*This technology is absolutely state of the art and has made our labour input significantly more efficient. In addition we have more flexibility to provide our clients with exactly the quality specs they require - consistently. Our pack outs have increased significantly with the Pomone’s consistent blemish grading and we will now be able to pack our required 3,5 million cartons planned for Naranja Packers.”*





## FRUITWAYS, choice for engineering excellence

Handling over 90,000 tons of Apples & Pears between 3 facilities, The Fruitways Group led the Market in South Africa by importing the first Full Turnkey Pre-Sorting & packing Solution to one of their Packing facilities, MELPACK in the Vyeboom Valley in 2010.

Now 6 Years later, they are still convinced that MAF RODA was the perfect partner to completely remodel their second Packing facility – Valley Packers in Elgin Valley.

**Hein KEULDER** - CEO of the FRUITWAYS GROUP (second on the right)

“FRUITWAYS have a proud history of service excellence to our customers as well as delivering consistently good quality to destinations all around the globe. To achieve this objective our pack houses need to be flexible and responsive to the demands of our customers. The sorting and packing processes also need to be fruit friendly and accurate within very fine tolerances.

site in 2010. At the time it was the only presort and presize plant in South Africa. When we decided to refurbish the Valley pack house in 2016, we again chose MAF RODA as our preferred solution for both presorting and packing lines. They have impressed us with the quality of their engineering as well as their ability to innovate and constantly improve existing solutions. This has also been backed up with good after sales service. We look forward to many more years of engineering excellence from MAF and are proud to have them as technology partner and part of the FRUITWAYS family.”

We installed MAF RODA presorting and packing lines at our Melpack



## GOGO FRUIT, to continue quality and fruit excellence

GoGo Fruit is one of the most dynamic citrus fruit exporters in South Africa, with a totally integrated model from production, to packaging, control of the cold chain, transport and up to international marketing.

**Eben KRUGER** - CEO EKM Exports - GOGO Fruit

“We as the GoGo – Group have chosen Maf Roda. We thank you for your excellent service.

You are our number 1 choice when it comes to quality and technology.

We are proud to be part of the Maf Roda family.”

The last evolution in date for GoGo Fruit: the construction of a brand new pack house for 5 producers of the group integrating for the first time in the country a working process for citrus fruit (mainly Orange) in two stages, combining a pre-sizing line of 30 Tons per hour and 2 complete packing lines with a capacity of 30 Tons per hour each.



**Eben KRUGER** (second from the left), and **Tian KRUGER** - Fruit Poducer (second from the right)

- MTTD Heat treatment tank,
- POMONE 6-Lane with GLOBALSCAN 6 and Quality Control,
- 10 high capacity bin fillers,
- 2 packing lines for pre-sized products or bins of harvested raw products,
- 3 bin tippers RCA 111,
- Washing, treatment and wax application,
- 3 POMONE 6-Lane graders with GLOBALSCAN 6 and OPTISCAN,
- Packing belt with high capacity,
- Speed Packers,
- Semi-automatic palletizer system.

This MAF RODA turn-key project has been designed and built with a totally automatic pre-sizing line requiring only 5 people to operate.

Main elements of this installation are:

- Bin tipper RCA111 with a capacity of 100 bins / hour,
- Emptied bins washing and disinfection system,





## DE KEUR, strong legacy for good farming practices



RSA

Continuing its fast growth in South Africa, MAF RODA was the chosen partner for the DE KEUR GROUP to rebuild one of their packing facilities.



**Marina POTGIETER** - DE KEUR VERPAKKING Director Packing Services

*"We strive for packing excellence and our new state-of-the-art MAF RODA packing line enables us to do just that. We believe that we invested in a superior packing line with cutting edge technology which allows gentle fruit handling, precise sizing and sorting, defect detection and increased production. MAF RODA offered us the technology, service and support that we envisioned and we look forward to many more years of excellence!"*

The DE KEUR legacy started in the Ceres Valley in 1934 by Tippiie du Toit, becoming one of the most dynamic and successful FAMILY Agri-businesses that it is today.

After extensive search & research, this dynamic Group chose MAF RODA as the perfect partner to take them through their most needed next step of modernization into the future.



**Charl du Toit** - Chairman (second from right) and **Danell du Toit** - Managing Director (third from right)



## STELLENPAK, impressive achievements



RSA

STELLENPAK LTD is one of the biggest commercial plums and soft citrus packing facilities in the western cape "benefit from better productivity".



**Robert SAUNDERS** - General Manager STELLENPAK

*"STELLENPAK provides a fresh fruit export packing and cooling service to approximately 100 deciduous & citrus producers in the Boland region of South Africa. Plums and soft citrus are the main fruits which we handle. We have always used multi-purpose packing lines with weight sizing to pack the fruit."*



*During the last few seasons we have been handling increasing volumes of apples and sensitive pear cultivars. We have been battling to handle these products on our existing packing lines. Bruising on the apples and rub-marks on the Abate Fetel and Golden Russet pears have been a major problem. It was important for us to get the line up and running before the start of the next season.*

*MAF RODA was able to provide us with a turnkey solution in the form of a four lane POMONE IV sizer with GLOBALSCAN 6 on ORPHEA V software. Our order was placed in June 2015 and we packed our first apples on the packing line in January 2016. Once the line was installed, the commissioning process only took a few days and by the third day we were already packing sizeable volumes.*

*We have found the sizing to be extremely accurate. Defect sorting on apples is good with easy identification of all defects including bruising. Although the line was not designed specifically to handle rub sensitive Abate Fetel and Golden Russet Bosc pears we have been very impressed with the results which were achieved.*

*Our clients are reaping the benefit of having better quality fruit arriving in the overseas market. Stellenpak is benefiting from better productivity. Thank you MAF RODA for a job well done. Thank you to your staff who worked long hours during the Christmas Holidays to install the equipment."*



INDIA

## GOLDEN APPLE, apple mixed line

GOLDEN APPLE is a new Indian customer of MAF RODA Group in the high growing area of Kashmir, especially for international exportation of fruit.

To answer their needs and to equip their installation with state of the art technology, GOLDEN APPLE has decided to invest in a mixed apple line solution using POMONE IV with dry pre-sizing on weight measurement connected to outlets with oscillating dry bin fillers for packing.



The 4 lines installation integrates an OPTISCAN 5 for optical detection of size and color. To complete the solution, a direct packing line equipped with belt accumulator to prepare the orders.

**Ehsan JAVED** - Golden Apple Managing Director

*"In my yet short but sweet relationship with MAF so far, I have discovered that MAF has huge potential in India and specially Kashmir. Despite showing their presence a bit late in Kashmir, they have been able to grow the fastest among their competitors, mainly due to their deep understanding of local needs and fast changing local dynamics and their ability to synchronize it with their International standards thereby coming out with highly competitive products in the Post-Harvest Horticulture business. I wish many many years of fruitful association with MAF."*



NZ

## JACKSON ORCHARDS, first stone fruit grader in New Zealand

Located in the Kentucky state in New Zealand, JACKSON ORCHARDS is a family farm company. Since 1966, they produce stonefruit, apples and pears.

Thanks to a 2 lanes POMONE IV associated to ORPHEA and GLOBALSCAN 6 electronic sorting software, JACKSON ORCHARD process to the grading and sorting of their stonefruit, apples and pears production, with major controls for all these different fruits: external defect, colour, shape, diameter, leaf detection, softness.

The installation comprising 20 outlets is equipped also with brush let down for gentle handling of the products in order to ensure quality of the final product to be packed. This quite versatile installation runs with high effectiveness and offers good potential for treatment of the different volume production of JACKSON ORCHARD.



SENEGAL

## SAFINA, accurate selection process

SAFINA is the main producer and exporter of mangoes and French beans in Senegal. After an intense development of its orchards, the production of mangoes, mainly Kent variety, will soon reach 10,000 Tons per year.

The line installed by MAF RODA allows to manage a capacity of up to 20 Tons per hour. To allow the handling of such volume, SAFINA thus has decided to renew its equipment of sizing and packaging (until from the competitor) by trusting MAF RODA with opting for a modern line integrating latest high-end technologies of the French Group in terms of treatment, sizing and packaging of mango.



The line indeed includes an automated system for dumping the harvest boxes in a water tank in order to guarantee a gentle reception, a manual sorting area for elimination of the non-marketable rejections, a hot water treatment to prevent anthracnose (5 minutes exposition to 55°C), a brushing and polishing machine in order to prepare the product for export, and finally a last generation electronic sizer INTEGRA 120 which allows an accurate selection of the mangoes according to their weight, diameter, shape and color.

Everything is realized on this line to take care of the selected mangoes and to give them the highest added value on the export market. Undoubtedly, a big success and a giant step for SAFINA in its continuous development.



**Mounir FILFILI** - SAFINA General Manager (in the middle)



## PEROT HAGOLAN, successful long-term cooperation

PEROT HAGOLAN is located in the Golan Heights region, one of the best areas in Israel for apple orchards. They pack approximately 30,000 tons of different fruits all over the year. They are specialized in apples, pears, cherries and nectarines. PEROT HAGOLAN is one of the list of loyal long-term customer of MAF RODA Group.

In the scope of their continuous development, PEROT HAGOLAN invest lately in a new 2 x 2 lanes POMONE IV with ACCUSTACK dynamic boxes storage system. The solution is completed with MAF RODA high-performance palettizers to allow a better production capacity and improve the global process of the installation in regards the volume to handle.



Asaf KERET - CEO of Beresheet Fruit Israel



*"We would like to thank MAF RODA for being one of our most professional and dependable partners. We have successfully worked with MAF RODA for over 20 years. There are few companies we know of which consistently employ a complete engineering vision and implementation capabilities such as MAF RODA. Every company says that their customers are their "number one priority", but in reality things are often different. This is true for most of the companies but not for MAF RODA! MAF RODA is always willing and able to go the extra mile for each and every project it designs with us."*



## GALVAZADA, improving profitability and quality

MICHAEL GALVAZADA is a small producer in the South of Israel, located in a Moshav in the North of Negev desert, producing mainly lemons and clementine.

Present mainly on the local market with selling lemons 12 months out of the year, Uri GAL, owner of this family-run company of the name of his Father, has decided to take a further step by investing in a "state of the art" line in order to improve their profitability, productivity and the quality of their end product while increasing the packing capacity.

After several visits and further to many discussions, he has decided to trust MAF RODA and our local Israeli partner MICON for the purchase of a complete line with a packing capacity to manage up to 10 Tons per hour of citrus fruits thanks to the state-of-the-art equipment of the installation, such as the chlorine treatment tank, the treatment tank with hot water, the complete washing systems, polish and complete drying machine, POMONE IV grading system with 2 lines, including GLOBALSCAN 6 electronic sorting equipment, manual packing system and automatic bulk fillers.

Uri and his wonderful family now have in hand the perfect tool to shape their future. We wish them all the best!



UKRAINE

## VITAGRO, increasing guarantee of quality



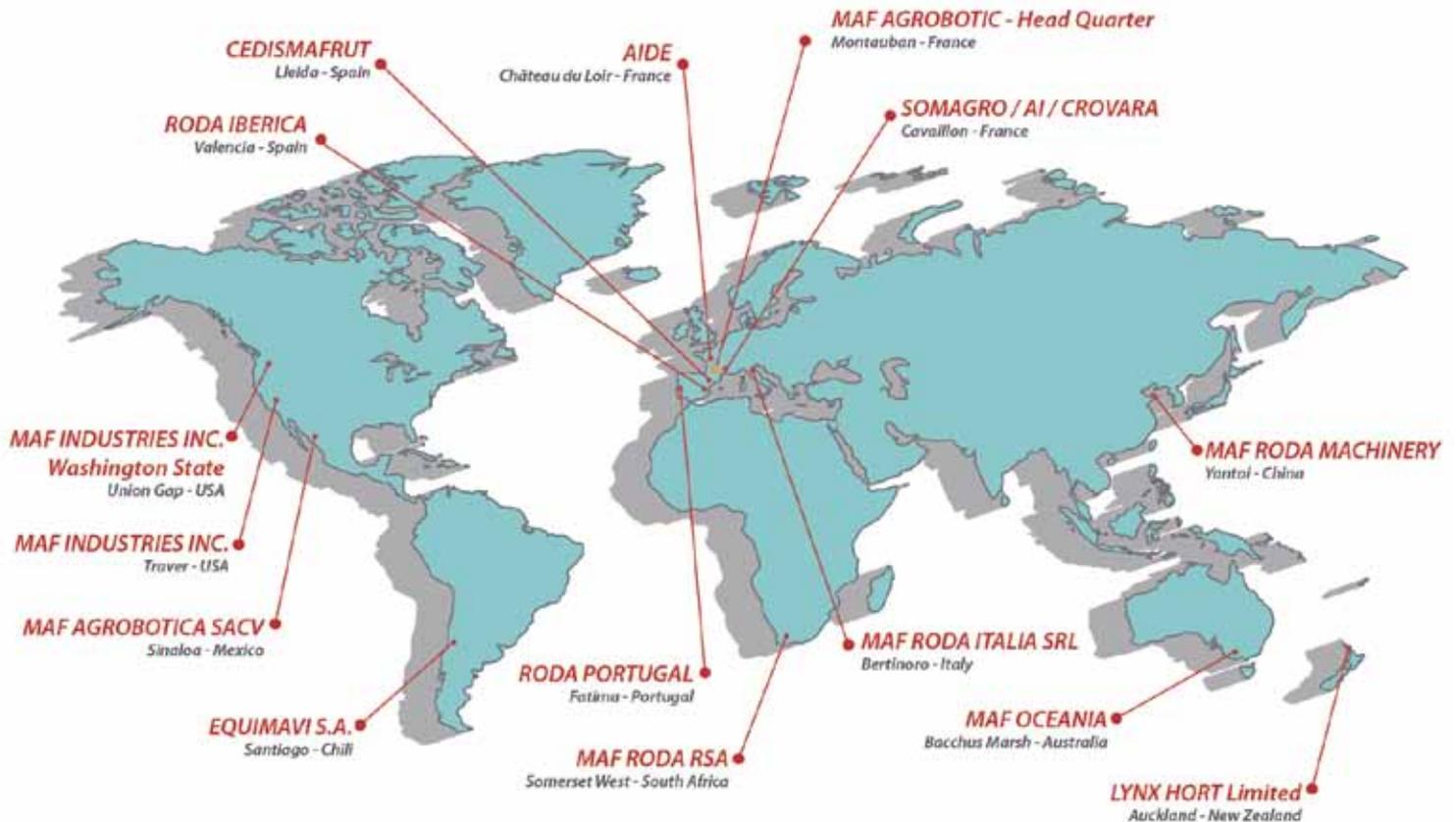
Vladimir TARCHNOVSKI - Vitagro CEO

*"MAF designed the right tailored project for my company and provided on time a clean and 100% properly working installation including staff training by highly skilled and available team.*

*Our grading line consists in presorting in channels and direct packing on packing tables: this provides us with packing reactivity while starting the season and capacity of storing in our cold storage extremely accurately sorted fruits for the rest of the year."*

VITAGRO line consists in a 4 Lane Pomone based "Hybrid" line with on one hand 10 channel presorting in water and on the other hand 4 packing tables with recirculation belts, automated palettizing and strapping.

# MAF RODA AROUND THE WORLD



## SUBSIDIARIES

### FRANCE

Head Office : MAF Agrobotic  
 Impasse d' Athènes  
 ZAC Albasud II - BP 60112  
 82001 Montauban Cedex  
 Tel. : (33) 05 63 63 27 70  
 Fax : (33) 05 63 63 07 85  
 email : maf@maf-france.com

### CROVARA / AI / SOMAGRO

Quartier des Girardes  
 Route de L'Isle de la Sorgue  
 84300 Cavaillon  
 Tel. : (33) 04 90 06 32 70  
 Fax : (33) 04 90 06 32 71

### AIDE

35 rue Pasteur-BP 70146  
 72500 Château du Loir  
 Tel. : (33) 02 43 44 17 70  
 Fax : (33) 02 43 44 32 20

### ITALY

MAF RODA ITALIA SRL  
 Via Consolare n°2952  
 47032 Bertinoro  
 Tel. : (39) 054 344 80 33  
 Fax : (39) 054 344 81 60  
 email : mafroda@mafroda.it

### NEW ZEALAND

LYNX HORT Limited  
 10 H Vega Place,  
 Mairangi bay Auckland 1330  
 Tel. : (64 9) 478 7093  
 Fax : (64 9) 478 70 94  
 email : sales@lynxhort.co.nz

### SPAIN

RODA IBERICA  
 Avda de la Llibertat, 53  
 46600 Alzira (Valencia)  
 Tel. : (34) 96 240 30 11  
 Fax : (34) 96 240 34 50  
 email : rodasale@mafroda.es

### CEDISMAF

Ctra Nil-Km 454-Naves 1, 2, 3  
 25180 Alcarràs (Lleida)  
 Tel. : (34) 973 791 426  
 Fax : (34) 973 791 064  
 email : comercial@cedismafrut.com

### PORTUGAL

RODA PORTUGAL  
 Apartado248-Estrada de minde  
 Boleiros-2495-326 Fatima  
 Tel. : (351) 249 533 553  
 Fax : (351) 249 534 415  
 email : maf@rodaportugal.pt

### CHILE

EQUIMAVI S.A.  
 Jose Joaquin Prieto 5140  
 "San Miguel"-Santiago Chili  
 Tel. : (56) 2 52 26 037  
 Fax : (56) 2 52 10 095  
 email : equimavi@equimavi.cl

### MEXICO

MAF AGROBOTICA SACV  
 Ctra Eldorado #4625 - Lote 7  
 Campo El Diez  
 CP Culiacan - Sinaloa  
 Mexico  
 Tel./Fax : (52) 52 667 76 09 009  
 email : carlos\_sepulveda@hotmail.com

### USA

MAF INDUSTRIES INC.  
 36470 Highway 99 - po box 218  
 Traver, CA 93673  
 Tel. : (1) 559 897 2905  
 Fax : (1)559 897 3422  
 email : sales@mafindustries.com

### MAF Ind. Inc. Washington state

2705 S. 16th Avenue  
 Union Gap, WA 98903  
 Tel. : (1) 509 574 87 75  
 Fax : (1) 509 248 3119  
 email : mafpnw1@aol.com

### AUSTRALIA

MAF OCEANIA  
 11 Park St Bacchus Marsh  
 Vic 3340 Australia  
 Tel. : (61) 03 5367 3155  
 Fax : (61) 03 5367 4480  
 email : maf@maf-oceania.com

### CHINA

MAF RODA Yantai  
 N°19 TianZheng Street, Laishan  
 District, Yantai  
 PR China-postcode 264003  
 Tel. : (86) 535 67 58 388  
 Fax : (86) 535 67 58 389  
 email : sales@maf-roda.com.cn

### SOUTH AFRICA

MAF RODA RSA  
 Unit 9B Stuart Close,  
 Somerset West Business Park,  
 Somerset West, 7139  
 Tel. : 021-8518503  
 Fax: 021-8518364  
 email : info@mafroda.co.za

## INTERNATIONAL PARTNERS

Azerbaijan, Brazil, Bosnia, Bulgaria, Canada, Colombia, Costa Rica, Croatia, Czech Republic, Egypt, France, Germany, Ghana, Greece, Holland, Hungary, India, Iran, Israel, Italy, Jordan, Lebanon, Macedonia, Mali, Montenegro, Morocco, New Zealand, Norway, Pakistan, Peru, Poland, Rumania, Russia, Serbia, Sicily, Slovakia, South Africa, South Korea, Sweden, Switzerland, Syria, Thailand, Turkey, Ukraine, United Kingdom.



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