



  
RESINEX TRADING S.r.l.
Via Cappuccio, 14 - 20123 Milan, Italy  
www.resinextrad.comMilan: ph: +39.02.58325091  
fax: +39.02.58316309  
E-Mail: marketing@resinextrad.comAdro: ph: +39.030.7457245  
fax: +39.030.7450162  
E-Mail: production@resinextrad.com

## New Resinex Marine Research Centre

In April 1999 Resinex opened its Marine Research Centre in Adro (Bs). All quality controls, pressure and materials tests, as well as the R & D will take place here. In the Centre, there will be also a laboratory to test materials with four big autoclaves, one of which where materials will be tested up to 150 bars.



Adro Marine Research Centre.

All Resinex materials will pass through Adro, where they will be tested. All this to comply with ISO 9002 rules.

The unit in Adro is in addition to the main office in Milan and to the factory in Castelletto d'Orba (Al) where Resinex has a plant of 5,000 sq.mt of which 1,500 covered.



Castelletto d'Orba plant.

## Aquaculture is still increasing its demand

Sea culture needs a set complete with floating system and real precise signalling. Just after summer 1998, Sicily was supplied in record time, with 36 surface buoys with a net buoyancy of 150 kg and with 36 deep water buoys with N.B. 350 Kg. together with a beacon for signalling the equipment. The elastic beacon was especially planned in order to link together lightness, cheapness and precision.



Sicily: Positioning of light elastic beacon



Elastic Beacon positioned: 5 mt focal plane

# RESINEX

## Deep waters

Deep waters are the future of floating equipments. Resinex is offering deep water floats since more than twenty years. Now Resinex can supply floats from few meters depth to 2000 meters using high density polyurethane foam or its Synt 1000 or Synt 2000. The new Marine Research Centre will be dedicated to these deep water project

### Customerised modules for rovs at a depth of 1000 metres



During 1998 Resinex created for a ROV manufactured by Sonsub (Norway) the whole floating system, intended to work down to a depth of 1000 metres. Resinex chose its own Synt 1000, which is its syntactic foam compound able to go to 1000 meters depth. On this occasion Resinex especially designed moulds of particular shapes for the different modules made of linear polyethylene and special stainless steel inserts.



### Heavy duty deep water floats for Gulf of Mexico

Always in 1998 Resinex built new 24 "deep water floats" for destination Gulf of Mexico. They were designed and made at the customer's special request, with particular width collars and with inner diameter ranging from 775 mm to 790 mm. Here, even the metallic part, which was in stainless steel,



was studied according to the Heavy Duty type, exactly for its specific use in the Gulf.

### In Brief

Small light buoys 70L working with led lantern,



solar panel and battery all integrated in the signal. 5 year maintenance free. Resinex has several types of light buoys and floating systems at disposal also for hire.



30 deep water buoys

with N.B. 1500 Kg were delivered to Sicily in 1998.

30 modular buoys with high performances, which can be used down to a depth of 30 metres.



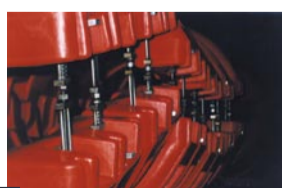
Different dimensions and colours are typical of Resinex floats for dredging and its ambilicals. For a quarry in Sardinia they chose a green-coloured one in order to respect the environment and to make the pipes of 355 mm and 190 mm int. diameter float.

Hong Kong is the destination of this fenderized support buoy NB 2200 EL, created with a special mooring eye.



### Korean floats

6 floats with inner diameter ranging from 790 mm to 955 mm were made for a Korean oil company at the end of 1998. The peculiarity of these floats lies in the fact that they have both the sturdiness of Resinex's Grooved type and precision of the Deep Water Floats



Deep Water Float and the accuracy metal frame of Hinged type.

### Hawaiian floats

Once again in USA, but this time in the Hawaii, did Resinex sell in 1999 these particular deep water floats studied to fit outer perimeters of the pipes ranging from 510 mm to 560 mm.



# RESINEX

## Signalling Security in sea parks

The Italian Ministry of Environment has chosen Resinex for signalling the biggest (at least up to 1999) Italian sea park. Resinex planned, built and made the setting of 15 light buoys and 4 light towers which bound the sea park of Sinis Peninsula in Sardinia.

This park is situated on one of the most beautiful coasts of Europe, in the municipal district of Cabras. It was created in order to keep under control the sea ecosystem of Capo St. Marco, the Island of Mal di Ventre and Capo Su Sturaggia, west Sardinia.

For this project Resinex chose a very simple kind of self-feeder buoy, which made its use and maintenance easier to the park keepers.

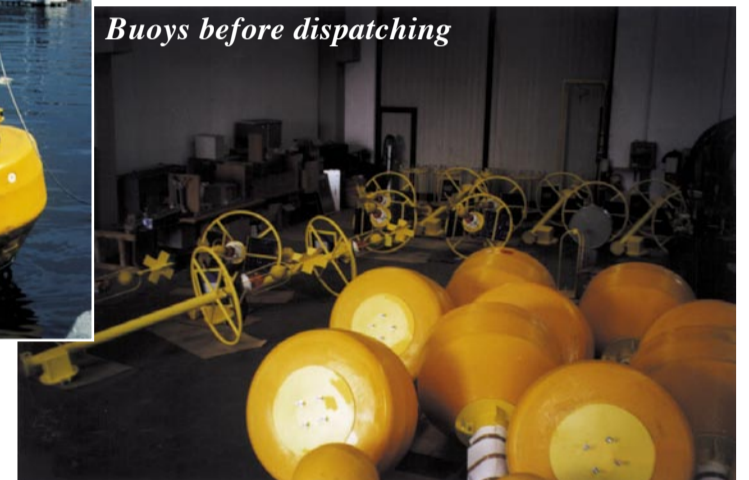
In making it Resinex used all the best materials and components which were on the market. Simplicity, cheapness, little maintenance and optimization of technical choices are the reasons of our success.



The beautiful Sinis Peninsula



Beach near Capo Su Sturaggia



Buoys before dispatching

## ...and security of Italian Navy signalling

Once again Resinex has been chosen by the Italian Navy to supply elastic beacons and spare parts. The reliability of Resinex on this kind of materials has been confirmed once again.

What the Navy Technical Service asked for was tests at every production stage. And Resinex gave them what they wanted.

Resinex also gave its customer technical assistance for what concerned material certification, welding, galvanization and painting controls. Not only, but also checks at every moulding phase and at every stage of floats filling.

At the beginning of 1999 Resinex provided La Spezia with 10 elastic beacons for different depths and with several spare parts. Resinex remains therefore, the only important supplier of elastic beacons to the Italian Navy, who is using, at present, 150 of Resinex ones, all placed in the most critical naval spots of Italian seas.



## Steel light buoys for Egypt

Even Egypt has always had a partiality for Resinex signals. During 1998, this country was successfully supplied with 3 steel light buoys ST/FP 3000.



Steel buoys before assembling



## Elastic beacons for a sicilian refinery

Whenever the signalling has to be precise and exact, well in that case, the best choice you can make is Resinex beacons.

Isab refinery in Priolo (Sicily) cannot make mistakes in the mooring of big tankers. For this reason, during 1998, they asked Resinex to provide them with an elastic beacon for 15 metres depth.

This beacon was supplied complete with solar panels, batteries, radar reflectors and top mark.



# RESINEX

## Offshore

The Off-shore market has always been Resinex's main market and also during 1998/1999 (beside our standard production range) we provided several peculiar products made to demonstrate once again our great planning versatility.

Two Y-pieces for an oil field in India.

Our utmost care in welding as well as constant tests are what distinguishes the production of these Y-reducers for oil pipes. The main variable in this case is not the price but the high quality tests of the used materials. In the following photos you can see the different production stages.

**A.** The inner metal part is being made and all the welding is checked and radiographed.



**B.** The metal part is made float by being covered with polyurethane foam.



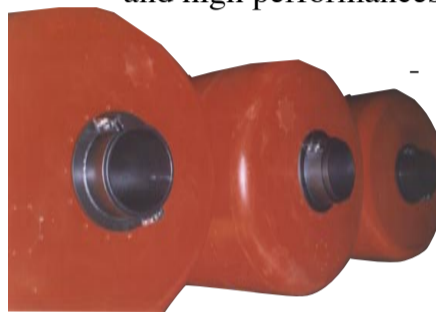
**C.** The Y-piece is being covered with elastomer polyurethane and its dimensions controlled.



**D.** They are painted and put on special frames to be carried away by containers.



- We also built for Indian Oil, in India, 2 support buoys with N.B. 2200 kg, which were characterized by great reliability and high performances.



- We sent to Venezuela these 4 Chain Through Buoys made of linear polyethylene with a very hard metal frame, able to stand the strokes of a 60 mm chain. N.B. 1500 Kg.



- Libya keeps on choosing Resinex fenderized spherical buoys. Like we did in 1997 and 1998, in 1999 we sold several buoys 1502 and N.B. 500EL to different refineries.



- Even Italy has its own Offshore terminals. Porto Petroli in Genoa asked Resinex for a big fenderized support buoy (N.B. 3500 kg) and for break-away coupling floats, which were modified for the floatation of the security system.



## In Brief

This medium size light buoy has been sold for use in the Mediterranean sea in 1999. Very strong and stable. It is the best choice for a good balance between cost effectiveness and performances. It can host tele-control and signalling horns.

During the last months we decided to take part to international exhibitions. We could not help being present at OSEA'98 in December 1998 in Singapore, together with our representative there, **Kemsa Far East**, because we believe in the Far East market which seems to be recovering, just after that exhibition.



For the first time, then, we attended also the OMC'99 in Ravenna, where there was all the best of Italian Offshore suppliers.



- For Agip Petroli we made 5 small support buoys. N.B. 650 Kg and great strength.



- In 1998 Resinex produced for ITR these support buoys which have a special metal frame to make the mooring easier. The metal frame was tested at 38 KN.



- Once again our little floats for small diameter pipes, made for Australian and several Italian clients in 1999. Operating depth range is from surface to 2000 meters.

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