ASCAN GEASER buy thirty four new waste collection vehicle’s from Geesinknorba Spain

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The Geesinknorba 'N' Series 15H25 rear loader with the L200 bin lift to the left and one of the twenty AMS CL1-N 25m3 side loaders to the right of the photograph.

ASCAN GEASER, the largest environmental services company in Cantabria and specialists in providing services for municipalities, have purchased a fleet of thirty four new waste collection vehicles from Geesinknorba Spain.
This new fleet has been bought to service the new waste, recycling and street cleansing contract that ASCAN GEASER won from the municipality of Santander in 2013, to last for ten years. The company had been providing waste, recycling, street and beach cleansing services for Santander for the previous eight years and, having passed the rigorous procurement exercise, was awarded the contract to provide these essential front line services.

The company also provides environmental services to other municipalities in Cantabria, Galicia, Madrid, Catalonia and the Canary islands.

Santander is the capital of Cantabria and has a population of 300,000 people. The city is a busy port providing ferry links from northern Spain to other countries in Europe e.g. via Plymouth and Portsmouth in the UK. Many tourists visit Santander each year producing 56,892 tonnes of non-recyclable waste (2015 figures), dry recyclables; paper and cardboard 3,288 tonnes (2015 figures) and plastics HDPE, PET, TETRAPACK, ferrous and non-ferrous tin cans commingled 1,812 tonnes (2015 figures).

On the right is a Rossi QUBE 5.5m3 satellite waste collection vehicle mounted onto a Renault Master 3.5 tonne 4x2 two axle chassis discharging its load of non-recyclable waste into the rear of the Geesinknorba 'N' Series 15H25 rear loader with the L200 bin lift mounted onto the MAN TGM 4x2 18 tonne chassis as illustrated on the left of the photograph.

The new fleet of waste collection vehicles comprises of twelve Rossi satellite waste collection vehicles which feature seven Rossi QUBE units of 5.5m3 capacity.
complete with compaction and bin lift whilst five of the R205 model of 5.5m³ capacity have also been supplied without compaction. These are mounted onto 3.5 tonne two axle 4x2 Renault Master Euro 6 compliant chassis. Eleven of these units are equipped with a trunnion / bar lift to handle 360 litre and 1000 litre containers of DIN 30700 and DIN 30740 specifications. These vehicles will work both night and day clearing waste deposited in bags, boxes and some bulky wastes next to 2,200 and 3,200 litre side loader containers at communal collection points in the centre of Santander as well as the suburbs. One of these new Rossi units has no lifter fitted and has been supplied in open back mode for use for the manual loading of waste. The new Rossi QUBE and R205 units will also collect waste from 360 litre containers at some apartment buildings inside the city where larger containers and larger vehicles cannot gain access. Once full, these units discharge into a Geesinknorba 'N' Series 15H25 rear loader which acts as a mothership transferring the waste from the Rossi units to the waste treatment plant in Cantabria province.

A side view of one of the two Geesinknorba 'N' Series 15H25 rear loaders fitted with the Geesinknorba L200 bin lift. Behind it is one of the twenty AMS CL1 - N 25m³ side loaders.

Two Geesinknorba 'N' Series 15H25 rear loaders were also purchased from Geesinknorba Spain. These are fitted with the L200 bin lift which consists of a trunnion / comb lift to DIN 30700 / DIN 30740 specifications. One of these units has a detachable rave extension fitted to facilitate the emptying by the fleet of Rossi QUBE and R205 satellite units. These new 'N' Series units have been mounted onto MAN TGM 4x2 18 tonne two axle chassis with Euro 6 compliant
engines. The chassis has been fitted with a MAN semi automatic twelve speed transmission. One of these units will collect waste from markets as well as from special areas where 360 and 1000 litre containers are deployed. A total of one hundred 360 and 1000 litre containers in combined sizes are used for this service. These units will work twenty four hours a day on a three shift cycle e.g. morning, afternoon and night. The 'N' Series has a high compaction ratio of 6:1 so these new units will yield high payloads when collecting market waste etc. and transferring waste from the smaller Rossi QUBE and R205 units. The 'N' Series units also have the SmartPack system fitted which helps to reduce fuel consumption by 15%.

Twenty AMS CL1 series side loaders were also purchased consisting of one CL1-N unit of 15m3 capacity and mounted onto an Iveco Eurocargo 180E28 4X2 18 tonne two axle chassis. This Iveco unit features a Euro 6 compliant engine of 280 horsepower and the Allison 3000 Series five speed automatic transmission. An AMS CL-N unit of 16m3 capacity was also purchased and mounted onto a MAN TGM 4x2 18 tonne two axle chassis fitted with a MAN Euro 6 compliant engine of 320 horsepower and the MAN twelve speed semi automatic transmission.

Sixteen AMS CL1-N side loaders of 25m3 capacity mounted onto MAN TGS 6x2 tag axle three axle 26 tonne chassis were also bought. These chassis feature the 320
horsepower Euro 6 series engine and the MAN twelve speed semi automatic transmission.

Finally, two AMS CL1- E electric side loaders were purchased, mounted onto MAN TGS 6x2 tag axle three axle 26 tonne chassis with MAN’S 320 horsepower Euro 6 series low emissions compliant engine and the MAN twelve speed semi automatic transmission. ASCAN GEASER decided to purchase two of the CL1-E electric side loaders off Geesinknorba Spain to use for collecting waste in the centre of Santander because of the units reduced CO2, NOx and reduced noise emissions.

A front view of the Geesinknorba 'N' Series 15H25 rear loader mounted on the MAN TGM 4x2 18 tonne two axle chassis shown on the left. To the right is one of the twenty AMS CL1- N side loaders mounted onto the MAN TGS 6x2 tag axle 26 tonne chassis.

The new fleet of twenty AMS CL1-N and CL1-E side loading waste collection vehicles collect waste from side loader collection containers of 2,200 and 3,200 litres capacity. ASCAN GEASER purchased 3,600 new side loader containers to coincide with the renewal of the waste collection contract. The containers are at communal collection points throughout the city. There are three specific waste streams collected in these containers: residual waste, mixed paper and cardboard, plastics: HDPE, PET, TETRAPACK, ferrous and non-ferrous tin cans commingled.

Eleven / twelve of the new AMS CL1 series side loaders operate nightly from 10pm until 4am. These collect non-recyclable waste from the city centre and, once full,
deliver their load of waste to the waste treatment plant once or twice nightly.

ASCAN also collect non-recyclable waste using the CL1 series side loaders from 4am for the outer suburbs then delivering it to Cantabria’s waste treatment plant. These vehicles finish their shift at 10am. A side loader also works in the afternoon from 2pm to 8pm collecting non-recyclable waste.

Three of the new AMS CL1 series side loaders are deployed collecting recyclable wastes e.g. mixed paper and cardboard, whilst one is deployed collecting plastics: HDPE, PET, TETRAPACK, ferrous and non-ferrous tin cans commingled. This starts at 6am and the dry recyclables collected are delivered to a recycling facility operated by Urbaser SA for Cantabria for baling and shipment to processors.

To further optimise the productivity of the new waste collection service, ASCAN GEASER has deployed the use of a GIS sensor, provided by NEC, which provides real-time data to both the municipality and ASCAN, detailing how full each 2,200 and 3,200 side loading waste collection container is. When waste is deposited in the containers, the sensor calculates how much cubic air space the waste will consume and then sends the percentage of bin capacity left per m³ to ASCAN GEASER and to the municipality. This system helps ASCAN GEASER to optimise their waste collection service across Santander by designing new waste collection rounds from this data so that only full containers are emptied, thus helping to reduce
operational costs and the carbon footprint. The data is provided in the form of coloured pye charts through real time to ASCAN and Santander municipality with different colours distinguishing the different waste streams e.g. red: paper and cardboard; yellow: plastics, ferrous and non-ferrous tin cans commingled etc. The percentage of the bin capacity utilised is provided in the centre of the coloured pye chart e.g. 100% full, 50% half full and 25% a quarter full. The NEC system is also used to deploy the whole of ASCAN GEASER’S fleet of waste collection vehicles and street cleansing vehicles. Management, as well as the municipality, can see how long waste collection and street cleansing vehicles are taking to carry out the service. If a breakdown (e.g. a puncture) occurs, the NEC system will relay this information to ASCAN and Santander municipality so that a solution can be found to complete the round.

Thirty of ASCAN’S vehicles CO2 and NOx emissions are monitored using the NEC system with the data being provided to Santander municipality to demonstrate that ASCAN’S fleet are totally low emission compliant vehicles and contributing to improving air emissions across Santander. The NEC system makes all data totally transparent for both ASCAN and Santander municipality to see any time of the day as well as data logged from the previous working day is available for review.

Mr. Ruben Varela, Chief Executive Officer of the Environmental Division of ASCAN GEASER explained that, "ASCAN chose the equipment options from Geesinknorba Spain for the new waste collection service in Santander because it was innovative and designed with the emphasis of Smart Cities in mind. The new fleet of Rossi, ‘N’ Series and AMS CL1 side loader units has helped to provide a more sustainable waste collection system for the city of Santander. This, combined with the use of the NEC GIS system has helped to reduce costs as well as improve operational efficiency”.

Mr. Marco Antonio Casaos, Technical Director of the Environmental Division of ASCAN GEASER explained that, "A long standing working relationship with Geesinknorba Spain had existed combined with a good delivery time for all thirty four new waste collection vehicles supplied”. He continued by saying that Geesinknorba’s products were of a high quality and backed up with a three year warranty. Price was also a factor in choosing Geesinknorba Spain to supply the new fleet of waste collection vehicles for the new contract.

In conclusion, Geesinknorba Spain has provided a fleet of their latest innovative generation of waste collection vehicles to help improve the environment of Santander and which will provide a sustainable waste collection system for the city for many years to come.