

Technology Offer

Manufacturing agreements for two innovative agricultural machines

Summary

A Belgian company, developer of innovative agricultural machinery, is looking for a manufacturing partner for two innovative machines: a modular one that can work two or more crops per year and, so, increase speed of depreciation; and an automated one that can do the work of several vehicles by organizing itself the loading and the application of solid soil conditioner using new technologies like drones. The partnership will include technology and know-how transfers for both machines.

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Details

Description

A Belgian developer of innovative agricultural machinery is looking for companies active in the production of agricultural machines. The company has developed two innovative machines and would like to have it - or part of it - manufactured in the framework of manufacturing agreements.

The company would like to find a partner with skills in electricity, hydraulic, mechanical assembly, etc.

The conditions of the collaboration have to be fixed during the negotiation step.

The first machine offered is an innovative agricultural modular one. The innovation is that the modular aspect of this machine enables the partner to increase speed of depreciation. Indeed, in comparison with the classical agricultural machinery, this machine can be used for:

- The planting of potatoes during a period of the year;
- The harvesting of beet during another period of the year.

Moreover, the machine performs better than classical one in terms of efficiency.

The second machine is a multifunctional and automated one. Its aim is the optimisation of the loading and the application of solid soil conditioner like manure, lime or compost for instance. In this case, the innovation is that the machine organizes itself the collect and the application of these solid soil conditioners. Moreover, it uses new technologies like drones, for instance, to map the terrain before spreading. Thus, this machine performs, alone, the work realised by three several vehicles usually and, so, three people.

Advantages and Innovations

Active in the technological improvement of agricultural machinery since 1978, the owner of the company has an extensive experience in R&D.

Regarding the machines, the innovations are numerous.

The mobile machine:

- is modular. So, it can work two or more crops per year;
- has better efficiency than classical one.

The automated machine offered:

- is equipped with an engine from 400 up to 600 HP;
- has two axles powered. Thus, the engine power can be distributed over one or the other according to the needs;
- has four drive wheel to improve the vehicle handling;
- is fitted with an oscillating filling auger, allowing an easy loading;
- includes a feeding auger, optimising the container filling;
- is also equipped with a guillotine door to homogenize the spreading;
- spreads with a speed of 15 km/h while machine speed reach 40 km/h.
- can be guided by GPS and is able to read a cartography defined by drone to ensure a perfect and complete work everywhere.

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

The machines are ready to enter the market

IPR Status

Patent(s) applied for but not yet granted

Comment Regarding IPR status

European patent for the feeding auger of the automated machine

Profile Origin

Private (in-house) research

Keywords

Market

08003004	Industrial trucks and tractors
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

NACE

C.28.3.0	Manufacture of agricultural and forestry machinery
M.71.1.2	Engineering activities and related technical consultancy

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

2005

Languages Spoken

English
French

Partner Sought

Type and Role of Partner Sought

Type: Manufacturer/Assembler

Sector: Boiler making industry

Role: The partner should be interested in manufacturing innovative agricultural machinery - or part(s) of it - and have skills in electricity, hydraulic, mechanical assembly, etc.