Department of Agriculture
Philippine Center for Postharvest Development and Mechanization

PHilMech Monthly News Bits

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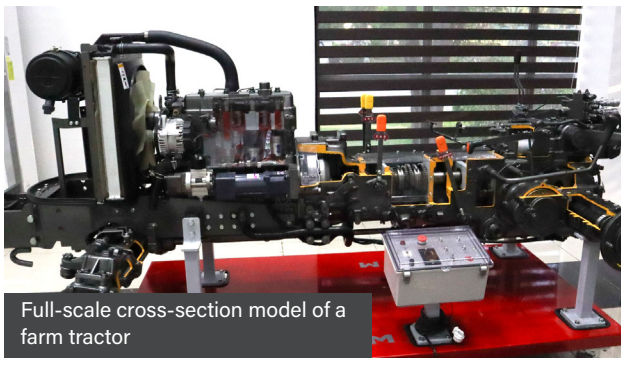
Special Release

What you need to know about PHilMech International Partnerships

PHILMECH–KOREAN PARTNERSHIPS IN AGRICULTURAL MECHANIZATION

1 Enhanced Training Experience with Cross-Section Models from TYM Corp.

The Memorandum of Understanding was signed on October 2, 2025. The agreement covers advanced technical training and strategic collaboration for Philippine agricultural development, paving the way for the establishment of the PHilMech Academy on Postharvest and Mechanization. TYM Corp. donated a full-scale cross section of a farm tractor, which serves as a training and educational tool providing a detailed view and understanding of its internal components and functions.



Full-scale cross-section model of a farm tractor

2 Efficient Crop Establishment with 10-Row Rice Precision Seeder with Fertilizer Applicator

PHilMech and ASIA Technology Co., Ltd signed a Memorandum of Understanding on August 5, 2026 for the 10-row Precision Seeder with Side Fertilizer Applicator, which will be demonstrated and evaluated in rice-producing areas to improve productivity, reduce fertilizer waste, and promote agricultural mechanization in crop establishment.

The 10-row precision seeder with fertilizer applicator in field operation

3 Innovative Design and Prototyping of Machines with Korea International Cooperation Agency (KOICA)

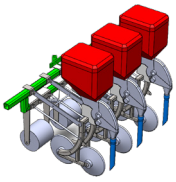
In collaboration with the Korea International Cooperation Agency (KOICA), this joint project incorporates state-of-the-art technologies to fabricate farm machines and parts, benefiting local manufacturers in the process. Technologies developed/fabricated:

Four Row Cassava Planter
Digging furrows, cutting stems, transplanting, and covering soil are all done at once.

Mechanical Hole Digger
Reduces manual labor in digging holes for cacao, coffee, banana, durian, and citrus crops.

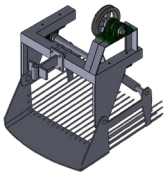
Coffee Bean Sorter
Grades the green coffee bean into three sizes and remove any broken beans.

Rice Straw Bailing Machine
A stationary compact baler with manual feeding and knotting, suitable for baling rice straw from rice threshes.



Multi-Crop Seeder
Two-row hand-tractor drawn, suitable for planting corn and peanut, with adjustable seed dispensing.

Coffee Pulper
Designed for easy servicing and suitability for multiple coffee varieties and equipped with a cherry size sorter for better processing efficiency.



Potato Harvester
Lightweight design attachment to hand tillers for use in upland areas, efficiently harvests potatoes, separating from soil for easier collection.

Forage Chopper
Hand tractor-drawn high mobility, which chops elephant napier grass into 1–2 inch pieces for carabao forage consumption.

Mechanical Weeder
Hand-tractor drawn for easy movement, cuts weed roots and ploughs the topsoil at the same time, reducing labor and improving soil condition.

Coconut Oil Expeller
Village-scale, electric-powered expeller with capacity to process up to 6,000 nuts per day, this enables efficient and reliable local coconut oil production.

4 Evidence-based Interventions for Improved Outcomes

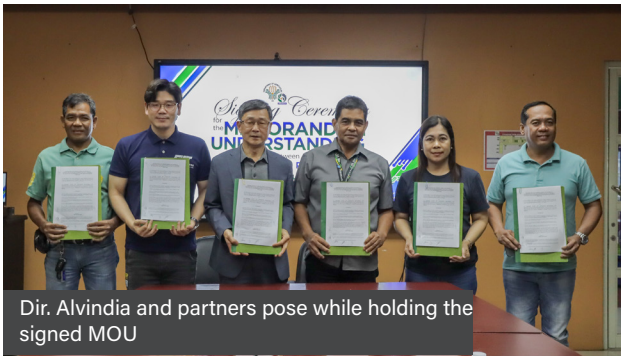
PHilMech and Korea Rural Community Corporation (KRC) collaborated on a pre-feasibility study for the proposed Comprehensive Agricultural Machinery Assembly Complex Initiative in the Philippines, which is planned to be established in Cabanatuan City with funding from the Korean government.

The study aimed to assess the capacity, readiness, and needs of local agricultural machinery manufacturers and farmers particularly in relation to the type of technologies, manufacturing and machine testing support, and other innovation they require. The findings of the study will help identify priority agricultural machinery, manufacturing systems, and capacity-building programs that can support the development of the planned facility.

KRC representatives receives a token of appreciation from PHilMech

5 Standardized Hand Tractor Gearbox with WECAN GLOBAL Co., Ltd

The Memorandum of Understanding was signed on April 30, 2025 between PHilMech, South Korea-based WECAN GLOBAL Co., Ltd., and three local agricultural machinery manufacturers to support the standardization of hand tractor gearbox transmissions. It highlights the commitment of all parties to conduct joint studies, pilot testing, and capability building activities that support the localization of agri-mechanization technologies.



Dir. Alvindia and partners pose while holding the signed MOU

6 Improved Onion and Garlic Drying System with Shin Nong Co., Ltd

The Memorandum of Understanding between PHilMech and Shin Nong Co., Ltd. was signed on August 5, 2026 for the Onion and Garlic Drying System, which will be demonstrated and validated under Philippine conditions and is expected to reduce postharvest losses among farmers and improve the onion and garlic industries as a whole.

Dir. Alvindia and Shin Nong representatives pose while holding the signed MOA

7 Improved Knowledge with TASK Program

PHilMech and its Korean partners launched the Technology Advice and Solutions from Korea (TASK) Program to transfer Korean agricultural machinery technology to address technical challenges and support machine, process, and prototype development for Philippine agricultural machinery and smart-farm companies. Both the Korea Association of Machinery Industry (KOAMI) and Korea Agriculture Machinery Industry Cooperative (KAMICO) are part of the implementing agencies who spearheaded the TASK program initial activities in 2022.

Dir. Alvindia and partners during the TASK Program launch

8 Advanced Agricultural Mechanization with KAMICO

PHilMech and Korea Agricultural Machinery Industry Cooperative (KAMICO) have collaborated since 2016 to advance agricultural mechanization through machinery research and development, technical support, expert exchange, and capacity-building activities. Technologies developed/fabricated:

KAMICO Corn Mill
It can mill 200 kilograms of corn with an output of 110 kilograms of corn grits per hour. It can separate the grits from the powder and is powered by electricity.

Onion Production Tractor
The tractor drawn onion seeder is a machine designed to accomplish major activity during onion production that is based from prevailing practice of local farmers.

Mechanical Elevating Work Platform
The machine is used to reduce losses and damages during mango harvesting and other farm operations.

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9 Stronger Farm Machinery Partnerships with MAFRA

PHilMech and Ministry of Agriculture, Food and Rural Affairs (MAFRA) collaborated on preparations for the Agricultural Machinery Assembly Complex, aimed at strengthening local agricultural machinery manufacturing and improving access to reliable farm machinery. MAFRA also expressed support for expanding Korean industry participation in the project.

Dir. Alvindia with PHilMech and MAFRA officials

PHILMECH–JAPANESE PARTNERSHIPS IN AGRICULTURAL MECHANIZATION

10 Improved Weed Management with a 6-Row Rice Field Weeder

PHilMech and Otake Agricultural Machinery Co., Ltd. of Japan signed a Memorandum of Understanding (MOU) for collaborative research and development of a 6-row rice field weeder aimed at strengthening agricultural mechanization in the country.

The signing was held on May 14 at the PHilMech Executive Lounge, led by PHilMech Director IV Dr. Dionisio G. Alvindia and Otake President Takashi Matsushita, marking a continued partnership for innovation in the agricultural sector.

The 6-row rice field weeder in operation

11 Improved postharvest practices and mechanization through knowledge exchange with Kyoto

PHilMech and Kyoto University conducted a knowledge exchange and technical collaboration on agricultural mechanization and postharvest technologies aimed at addressing challenges in mechanization and postharvest management.

Dir. Alvindia shakes hands with a representative from Otake Agricultural Machinery Co., Ltd

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PHilMech News Bits *highlights the agency's activities as the country's lead institution in postharvest development and mechanization, delivering timely updates on programs, innovations, and partnerships that support farmers and the agriculture sector.*