



Experience the unparalleled convenience with instant access to the HMI [Human-Machine Interface] from your device, anytime and anywhere!



SHELLI-5

INTELLIGENT PADDY SHELLING
 WITH HUSK SEPARATION!



Product Application

The APIT **SHELL I-5** is a highly efficient machine designed to separate the outer husk from paddy, producing high-quality brown rice. It is equipped with a husk separator at the base that effectively removes husk and dust particles from the brown rice. This expertly engineered system enhances both the quality and productivity of the final brown rice, while minimizing process loss. With advanced automation, the machine ensures optimal shelling pressure and self-synchronized roller speeds, adaptable for any variety of paddy.



How it Works

- 1. Automated Input Control:** The paddy is automatically fed into the machine via the hopper. Upon detection of the paddy, the vibrator is activated, and the inlet door opens for seamless paddy flow.
- 2. Rubber Roller Operation:** Once the paddy is detected, the movable shaft, equipped with the rubber roller, moves towards the fixed roller to initiate the hulling process.
- 3. Paddy Hulling:** The rubber rollers rotate in opposite directions at differential speeds, generating the necessary shearing force for efficient paddy hulling.
- 4. Husk Separation:** The APIT **SHELL I-5** is equipped with an integrated husk separator that effectively removes husk and dust from the brown rice, ensuring high-quality output.

SHELL I-5



Special Features

- ✓ **Superior Automation:** The **SHELL I-5** is equipped with advanced product and process automation, taking full control of key parameters such as paddy level, rubber roller differential speeds, roller shaft movements, rubber roller diameter, & aspiration pressure.
- ✓ **Smart Alert Management System:** Provides real-time alerts to both the operator and APIT R&D, ensuring prompt solutions in case of performance issues or breakdowns.
- ✓ **Recipe-Driven Operation:** Achieve your desired results effortlessly by simply selecting the rice variety and its specific process. Additionally, the machine offers the flexibility to create and customize your own recipes for even greater control.
- ✓ **Built-In Husk Separator & Cooling:** The Shell I-5 is equipped with a highly efficient husk separator and dust removal system, along with an integrated cooling unit, ensuring optimal performance and quality during the hulling process.
- ✓ **User-Friendly Operation:** The machine is equipped with an intuitive HMI, offering simple operation, easy recipe generation, and integrated product and process automation, all designed to enhance ease of use and streamline operations.

Technical Specifications

	SHELL I-5	HUSK SEPARATOR
Machine Code	APSA	AHSA
Machine Capacity on Medium Paddy	5 - 6 TPH	5 TPH
Power Requirement		
Motor Power	15 HP (11.2 Kw), 1000 RPM	7.5 HP (5.6 Kw), 1500 RPM
Voltage/Frequency	415V/50 Hz	415V/50 Hz
Aspiration	Inbuilt cooling blower - 600 CMM	-
Foundation Bolt	-	M16 x 100 - 6 nos.
Machine Weight	800 Kg (approx.)	1200 Kg (approx.)
Overall Dimensions (L x W x H)	1610 x 920 x 1475 mm	2420 x 1730 x 1456 mm (with sheller 2935 mm)

Note: Capacity may vary depending on product moisture and amount of waste material.