



AG&P's world-class manufacturing facilities

Construction credentials:

AG&P ranks as one of the top construction companies in the Philippines by several measures:

- AAA contractors' license from Philippines Contractors Accreditation Board
- Best sea access for delivery of equipment and modules
- Electrical and instrumentation
- Health and safety
 - 74 million man-hours with a singular lost-time incident since 2011 @ June 2017
 - 43 million man-hours without LTI @ June 2017
- ISO 9001, ISO 14001 and OHSAS 18001 (all updated) plus 'S' and 'U' Stamps from ASME and 'R' and 'NB' Stamps from National Board

Located 110 km south of Manila, Philippines, AG&P's manufacturing facilities have grown from a single, 40-hectare yard to two fully automated, self-functioning yards totaling 150 hectares, each with its own deep-water port. AG&P has invested heavily in its facilities to make them one of the industry's best, with advanced technologies, equipment and state-of-the-art production shops operating highly advanced automation throughout the manufacturing process. This ensures reliable and efficient 24/7 production, year-round.

Following upgrades and modernization, each facility can produce up to 60,000 tons of fabricated steel and 600 dia-inches of fabricated piping, delivering 125,000 tons of assembled modules annually.

Yard 1 San Roque, Bauan, Batangas, Philippines

AG&P's Yard 1 is a world-class 100-hectare manufacturing facility with designated areas for assembly, as well as shops for fabrication.

SPECIFICATIONS
53,300 m ² covered area (shops, buildings, warehouses)
170,000 m ² open field materials stockyard
260,000 m ² open field heavy modularization area
4,950 m ² blasting and painting area
Up to 50 MT/m ² capacity soil load-bearing capacity
250 m (l) x 30 m (w) of cellular-piled marine bulkhead
Approximately 1,000 m along east-west shoreline of the sheltered Batangas Bay with water depth between 9.7 m and 10.7 m and only 1 m of tidal change
Can dock two 30,000 dwt vessels at a time; no limit on barge size





Yard 2

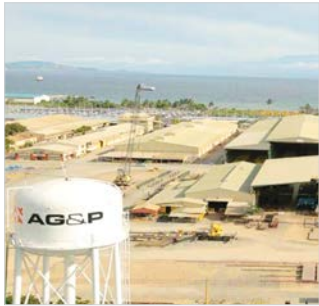
PPA, Batangas City, Philippines

AG&P's Yard 2 is a 50-hectare, gold-standard, waterfront property within the Philippine Ports Authority (PPA) site, Batangas, located 8.7 kilometers from AG&P's Yard 1 by land and 6.8 kilometers by sea. While Yard 1 is owned by AG&P, Yard 2 is leased from the PPA.

SPECIFICATIONS	
30,000 m ² covered area (shops, buildings, warehouses)	30-35 MT/ m ² soil load-bearing capacity
27,700 m ² open field materials stockyard	450 m (l) x 40 m (w) of marine bulkhead
287,300 m ² open field heavy assembly area	Existing concrete roads inside the facility
1,980 m ² blasting and painting area	

Because of its strategic location with the PPA site, AG&P is able to access its specialist facilities for projects including:

GENERAL CARGO BERTH AREA		
1 foreign general cargo berth (185 m long); 1 multi-purpose berth (230 m long)	Wharf (450 m long)	RoRo berth/ramp, pier type (5 m deep); RoRo berths/ramps, wharf type (5 m deep)
Domestic general cargo berths (470 m long); 1 ferry berth with three roll-on-roll-off (RoRo) ramps (124 m long)	Draft: foreign general cargo berth (10 m deep)	Fast craft berths (4 m deep)
RoRo berths/ramps, pier type; 2 RoRo berths/ramps, wharf type	Multi-purpose berth (10 m deep)	Container crane
7 fast craft berths (4-70 m long, 2-75 m long, 1-20 m long)	Domestic general cargo berths (7.3 m deep); ferry berth with 3 RoRo ramps (4 m deep)	Quayside crane



At the heart of AG&P's manufacturing process is a streamlined production system that maximizes efficiencies and minimizes the risk of cost and schedule overruns on construction and fabrication projects. The state-of-the-art fabrication systems comprise multiple automated processing lines for efficient structural steel fabrication including beam coping, cutting and drilling for onshore and offshore infrastructure and separate lines for angles, plates and structural pipes.

The computer numerical control (CNC) plate cutting processes are executed with oxy/gas, plasma and laser technologies, covering material thicknesses of 0.5 mm to 150 mm for a wide range of carbon steel and alloys. Each processing line consists of automated and semi-automated machinery integrated with PLC-controlled material handling and conveying systems to eliminate double handling activities.

At the same time, piping fabrication is also fully automated from the root pass to cap welding via three processing lines. Two lines are used to fabricate carbon steel pipes with diameters ranging from 2 mm to 1,219.2 mm while the third line handles stainless steel and exotic materials with diameters ranging from 2 mm to 711.2 mm.

The entire fabrication process, whether structural or piping, is controlled by the latest governing software that utilizes information automatically generated from engineering's 3D model to command a series of CNC machines and their related material handling and conveying systems.

Barcoding is employed throughout the manufacturing process for accurate material traceability and progress reporting. Barcoding provides AG&P with stronger control and management of the manufacturing process, ensuring materials are fabricated in the correct sequence according to the project schedule and bottlenecks are prevented. This streamlined production process allows AG&P to reduce man-hours, increase productivity and lower costs for customers.

For more information, visit www.agp.ph