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## Defence & Security Portfolio



We connect LATAM Innovation  
with global security needs.



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# Corporate Introduction

## Empowering Your Defence & Security Solutions

South2South Defence & Security (S2SDS) is your strategic gateway to the vibrant industries of Latin America, connecting them seamlessly with the promising markets of the Middle East, Africa, and South Asia. Our headquarters in Abu Dhabi serve as the epicentre of our operations, where our mission is clear: to empower your defence and security solutions by fostering growth and creating invaluable synergies.

We take immense pride in our collaboration with three esteemed Colombian companies that stand as beacons of innovation and excellence in their fields. Indumil, a pioneer in precision engineering, propels defence and security technology to new heights. Cotecmar's mastery of maritime technology ensures the safeguarding of critical coastal assets through meticulously crafted vessels. MC Armor, on the other hand, leads the industry in personal protection with its cutting-edge ballistic solutions, offering unparalleled safety and security.

Through our extensive network and unwavering dedication to excellence, we are committed to ensuring that your organization gains exclusive access to top-tier, state-of-the-art defence and security solutions. Our promise is to expand these invaluable partnerships further, ensuring that your defence and security objectives are met with precision, innovation, and unwavering support. Welcome to a future where your success is our mission.

## OUR PARTNERS



INDUMIL



COTECMAR



MC ARMOR



# AMMUNITIONS BY **indumil**

Our ammunition stands as a testament to precision manufacturing, utilizing advanced propellant technology for enhanced velocity and reduced recoil. With a commitment to quality control, rigorous testing, and a tradition of innovation, Indumil ensures that each round embodies the highest standards of accuracy, reliability, and performance.



## FOR RIFLE AND MACHINE GUN



**5.56 x 45 mm  
CARTRIDGE SS-109  
BALL**



**7.62 x 51 mm  
CARTRIDGE TYPE M-  
80**

<b>Total length</b>	57.4 mm	71 mm
<b>Cartridge weight</b>	12 g	24 g
<b>Projectile weight</b>	4 g / 61.7 g	9.45 g / 146 g
<b>Projectile</b>	Full metal jacket brass Lead core Hardened steel tip	Full metal jacket brass Lead core Hardened steel tip
<b>Case</b>	Brass	Brass
<b>Primer</b>	Boxer, non-corrosive	Boxer, non-corrosive
<b>Gun powder</b>	Spherical, double base, smokeless	Spherical, double base, smokeless
<b>Average pressure</b>	3.874 kg./cm <sup>2</sup> / 380 Mpa	3.515 kg./cm <sup>2</sup> / 346 Mpa
<b>Velocity</b>	915 m/s	838 m/s

## JUST FOR MACHINE GUN



**5.56 x 45 mm BELTED  
AMMUNITION**



**7.62 x 51 mm BELTED  
AMMUNITION**

<b>Components</b>	Linked ammunition 5.56 x 45 mm TIPO SS-109	Belted ammunition 7.62 x 51 mm TIPO SS-109
<b>4 cartridges</b>	M-855	M-80
<b>1 tracer cartridge</b>	4 g / 61.7 g	9.45 g / 146 g
<b>Link</b>	M-27	M-13
<b>Linked belt</b>	4 common cartridge x 1 tracer or a customer demand	4 common cartridge x 1 tracer or a customer demand

## FOR PISTOLS, REVOLVERS AND SUBMACHINE GUNS (SELF DEFENSE AMMUNITION)

Ammunition for .38" SPL and .32" L calibre revolvers, for 7.65 mm and 9 mm NATO calibre Pistols and for 9 mm NATO calibre submachine guns



	9 x 19 mm NATO	9 x 19 mm SUBSONIC	9 x 19 mm FACTOR 132	.38" SPL	.32" L	7.65 mm
Projectile	NATO	SUBSONIC	FACTOR 132	Lead 1-2% Sb	Lead 1-2% Sb	Full metal jacket brass Lead core
Projectile weight	F8.10 g / 124 g	10.24 g / 158 g	8.10 g / 124 g	10,23 g	6.46 g	4.69 g
Cartridge weight	12.30 g	14.90 g	12.30 g	15.5 g	9.65 g	7.76 g
Average speed	375 m/s	291 m/s	335 m/s	274 m/s	236 m/s	274 m/s
Average radius pressure	50 mm a 46 m	50 mm a 46 m	50 mm a 46 m	63.5 mm a 45.7 m	63.5 mm a 45.7 m	76.2 mm a 45.7 m
Case	Brass	Brass	Brass	Brass	Brass	Brass
Gun powder	Spherical, double base, smokeless					
Primer	Boxer, non-corrosive	Boxer, non-corrosive	Boxer, non-corrosive	na	na	na



# AIRCRAFT BOMBS BY **Indumil**

Indumil presents a range of aircraft bombs meticulously engineered to deliver precise payloads. These munitions exemplify cutting-edge design and manufacturing, ensuring pinpoint accuracy and maximum impact

## GENERAL PURPOSE (GP) BOMBS

It is used to neutralize alive forces and armament within and around the deck, sentry boxes, defense stations and for opening breaches in minefields and illegal landing strips

### IMC XUÉ 250 lb PG MK 81



<b>Diameter</b>	232 mm
<b>Total length</b>	1791 mm with tail and without fuse
<b>Total weight</b>	120 kg (250 lb)
<b>Type of explosive and weight</b>	TNT / 40 kg
<b>Type of fuse</b>	Adaptability for NATO nose and tail fuse, compatible with guided systems.
<b>Distance between suspension lugs</b>	14 inches (NATO)
<b>Type of tail</b>	Conical Tail, Low Drag
<b>Radius of lethal action</b>	Explosive wave : 20 m, Fragmentation: 75 m

### IMC XUÉ 500 lb PG MK 82



<b>Diameter</b>	274 mm
<b>Total length</b>	2173 mm with tail and without fuse
<b>Total weight</b>	230 kg (500 lb)
<b>Type of explosive and weight</b>	TNT / 83 kg
<b>Type of fuse</b>	Adaptability for NATO nose and tail fuse, compatible with guided systems.
<b>Distance between suspension lugs</b>	14 inches (NATO)
<b>Type of tail</b>	Conical Tail, Low Drag. MAU 93/B
<b>Radius of lethal action</b>	Explosive wave : 50 m, Fragmentation: 100 m



## IMC XUÉ 125 lb PG



Diameter	190 mm
Total length	1030 mm with tail and without fuse
Total weight	57 kg (125 lb)
Type of explosive and weight	TNT / 20 kg
Type of fuse	Activated tip for percussion
Distance between suspension lugs	14 inches (NATO)
Type of tail	Conical Tail, Low Drag
Radius of lethal action	Explosive wave : 12 m, Fragmentation: 50 m

## PREFRAGMENTED PURPOSE (PF) BOMBS

It is employed to neutralise personnel, armoured vehicles and armament within and around the deck.

### PF MK 81



Diameter	274 mm
Total length	2173 mm with tail and without fuse
Total weight	230 kg
Type of explosive and weight	TNT / 30 kg
Type of fuse	Adaptability for NATO nose and tail fuse, compatible with guided systems.
Distance between suspension lugs	14 inches (NATO)
Type of tail	Conical Tail, Low Drag
Radius of lethal action	Explosive wave : 15 m, Fragmentation: 75 m

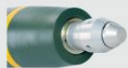
### PF MK 82



Diameter	274 mm
Total length	2168 mm with tail and without fuse
Total weight	250 kg
Type of explosive and weight	TNT / 50 kg
Type of fuse	Adaptability for NATO nose and tail fuse, compatible with guided systems.
Distance between suspension lugs	14 inches (NATO)
Type of tail	Conical Tail, Low Drag. MAU 93/B
Radius of lethal action	Explosive wave : 25 m, Fragmentation: 100 m

## LIMITED EFFECT BOMB

It is used to neutralize specific targets where collateral damage will be minimal. Because of its lethal limited action radius to 10m, it is suitable of being used for neutralization operations of high-value targets



Diameter	274 mm
Total length	2173 mm with tail and without fuse
Total weight	230 kg
Type of explosive and weight	TNT / 30 kg
Type of fuse	Adaptability for NATO nose and tail fuse, compatible with guided systems.
Distance between suspension lugs	14 inches (NATO)
Type of tail	Conical Tail, Low Drag
Radius of lethal action	Explosive wave : 15 m, Fragmentation: 75 m



## GRENADES BY indumil



### MORTAR GRENADES

They are employed to neutralize personnel, within and around if decks, combat posts, airfields, and for opening gaps in minefields, using a 60 mm mortar command type.

#### IMC 60 mm HE-TC



Diameter	60 mm
Total length	284 mm
Total weight	1310 g
Maximum range	973 m with 1 charge, 1830 m with 2 charges
Type of fuse	Percussion mechanic V9 fuse
Radius of lethal action	15 m

#### IMC 60 mm HE-LA



Diameter	60 mm
Total length	420 mm
Total weight	2450 g
Maximum range	3600 m with 6 auxiliary charges
Type of fuse	Percussion mechanic V9 fuse
Radius of lethal action	20 m



## IMC 60 mm STD-HE



Diameter	60 mm
Total length	337.5 mm
Total weight	1310 g
Maximum range	2700 m with 4 auxiliary charges
Type of fuse	Percussion mechanic V9 fuse
Radius of lethal action	15 m

## IMC 81 mm HE



Diameter	81 mm
Total length	378 mm
Total weight	3200 g
Maximum range	3700 m with 6 auxiliary charges
Type of fuse	Percussion mechanic V9 fuse
Radius of lethal action	18 m

## IMC 81 mm HE-LA



Diameter	81 mm
Total length	502 mm
Total weight	4550 g
Maximum range	5600 m with 6 auxiliary charges
Type of fuse	Percussion mechanic V9 fuse
Radius of lethal action	25 m



## IMC 40 x 46 mm HE

It is used in single 40mm grenade launchers, M203-type launchers and multiple 40mm grenade launchers (MGL or equivalent).



Max. outside diameter	40 mm
Total length	103 mm
Total weight	242 g
Maximum range	375 m
Type of explosive	Pentolite
Casualty Radius	5 m from the centre of explosion
Muzzle Velocity	71.5 to 76.8 m/s
Fragmentation	Max 400 shards

## HAND GRENADE IMG M26 mm HE

Hand-held pre-fragmented explosive element for personal defense use.



Height	103 mm
Total weight	440 g
Fuse	Manual release percussion
Delay time	4.5 ± 0.5 seconds
Radius of lethal action Min	11 m from the centre of explosion
Type of explosive	Pentolite

## LARGE RANGE MORTAR 60 mm

It is designed for easy assembly and effortless transport. It serves as a swift and accurate solution for targeting areas when direct visibility of the objective is limited or absent.



Caliber	60mm smoothbore
Tube assembly length	1310 mm
Set length with folder bipod	650 mm
Motherboard Surface	1104 cm <sup>2</sup>
Max pressure	45° to 85°
Elevation Margin	15 m
Direction margin	6400 thousandths
Maximum range with IM grenade	3700 m

## MULTIPLE GRENADE LAUNCHER 40 mm MGL MK-1

It is a compact individual support weapon with a high rate of fire. It provides valuable firepower support to small ground units, enhancing their effectiveness in combat scenarios.



Length	With stock folded 566 mm With stock extended 780 mm maximum
Weight	5.3 kg
Range	Semi-automatic, gas operated, double action on the trigger
Feeding system	Revolving revolver-type drum, with six chambers
Aiming system	Unique optical sight for shooting with both eyes open, adjustable in increments of 25 m from 50 m to 375 m range type OEC
Rate of fire	10 shots per minute

## ANTI-TANK AMMUNITION IMC 30 CT

It is buried at a shallow depth or concealed on the ground. It detonates when inadvertently activated by armored vehicles or tanks. This device is constructed from a polymer material, ensuring compliance with requirements for strength, waterproofing, and resilience to adverse environmental conditions.



Height	158 mm
Diameter	340 m
Weight	21 kg
Explosive Weight	15 kg
Initiation System	Percussion by pressure fuse Percussion by anti-removal fuse Percussion by tilting fuse
Type of explosive	Pentolite





SMALL ARMS BY **indumil**

## ASSAULT RIFLES

### GALIL ACE - 21



### GALIL ACE - 22



### GALIL ACE - 23



Indumil offers a line of assault rifles that not only redefine performance but also prioritize efficiency, weight reduction, and ergonomic comfort.

	GALIL ACE - 21	GALIL ACE - 22	GALIL ACE - 23
Caliber	5.56 x 45 mm		
Length open stock	28.8" / 730 mm	33.3" / 847 mm	38.5" / 976 mm
Length closed stock	25.6" / 650 mm	30.1" / 767 mm	35.3" / 896 mm
Barrel length	8" / 212 mm	13" / 332 mm	18" / 460 mm
Weight (No magazine)	2.9 kg	3.3 kg	3.5 kg
Rounds	35	35	35
Shooting mode	Automatic / Semiautomatic		
Cadence	700 rounds / min		
Velocity	710 m/s	850 m/s	915 m/s

#### Optional sights and accessories

Mechanical sights with elevation and direction adjustment, tritium night sights Picatinny rails MIL - STD 1913.



## GALIL SAR / AR



	GALIL SAR	GALIL AR	8" GALIL CORDOVA	13" GALIL CORDOVA	18" GALIL CORDOVA
Caliber	5.56 x 45 mm	5.56 x 45 mm	5.56 x 45 mm	5.56 x 45 mm	5.56 x 45 mm
Length open stock	33.1" / 851 mm	38.5" / 979 mm	29.9" / 735 mm	34" / 865 mm	39" / 992 mm
Length closed stock	24.1" / 614 mm	29.2" / 742 mm	26.7" / 680 mm	31.8" / 810 mm	36.8" / 937 mm
Barrel length	13" / 332 mm	18" / 460 mm	8" / 212 mm	13" / 332 mm	18" / 460 mm
Weight (No magazine)	3.5 kg	3.7 kg	3.4 kg	3.5 kg	3.7 kg
Rounds	35	35	35	35	35
Shooting mode	Automatic / Semiautomatic				
Cadence	650 rounds / min				
Velocity	na	na	710 m/s	850 m/s	915 m/s

## GALIL CORDOVA & CONVERSION KIT



Cover with the rail Picatinny MIL-STD1913 provides the possibility of mounting accessories.

Ergonomic recharge handle that modifies the angle of birth-position and facilitates its handling.



Ergonomic and textured high resistance polymer grip.



High resistance polymer with thermic insulation.



Ergonomic and textured high resistance polymer grip that provides better grip to the shooter.



Telescopic stock adjustable in six positions, with the option to fold it left or right. Includes cheek support with adjustable system.



## CORDOVA PISTOL 9 x 19 mm NATO



### COMPACT

### STANDARD

### TACTICAL

Length	7.3" / 185 mm	7.8" / 199 mm	8.6" / 219 mm
Barrel length	3.7" / 94 mm	4.4" / 111 mm	5.1" / 130 mm
Height	5.9" / 149 mm	5.9" / 149 mm	5.9" / 149 mm
Weight (No magazine)	760 g	790 g	810 g
Rounds	9 or 15	9 or 15	9 or 15
Shooting mode	Single action / Double action		

★ **Safety:** Triple Action Safety • Decocking • Trigger Block • Firing pin mis-alignment

★ **Optional sights and accessories :** Fixed three-dot luminous sights (Optional in tritium), Picatinny MIL-STD 1913 rail, Rail for mounting holographic sight.



## ULTRA REVOLVER .38 SPECIAL



### MARTIAL

### CASSYDY

### SCORPIO

Length	8.3" / 210 mm or 9.3" / 235 mm	8.3" / 210 mm or 9.3" / 235 mm	7.2" / 184 mm
Barrel length	3" / 76.2 mm or 4" / 101.6 mm	3" / 76.2 mm or 4" / 101.6 mm	2" / 50.8 mm
Height	5,3" / 135 mm	5,3" / 135 mm	5,3" / 135 mm
Weight (Empty Cylinder)	1020 g or 1070 g	1020 g or 1070 g	850 g
Rounds	6	6	6
Shooting mode	Single action / Double action		
Grip	Wood or high resistance polymer		
Sights	Front Fixed Rear adjustable	Front Fixed	Front Fixed

## SANTADER SHOTGUN & AMMUNITIONS



Caliber	16" / 20"	12"
Length with pistol grip	1120 mm	706 mm
Length with buttstock	1330 mm	970 mm
Barrel length	710 mm	520 mm
Weight	3.7 kg	2.4 kg
Chamber length	70 mm	
Load Capacity	1 chambered cartridge	
Choke	Cylindrical	



Santader shotgun comes with the options of being used with a stock or pistol grip. The case has a tool kit that allows the user to change these parts easily.

It is safe to be used with any kind of ammunition: Bochica, Condor and Pijao, under standardized load conditions.

### BOCHICA



### CONDOR



### PIJAO



	BOCHICA			CONDOR		PIJAO		
Caliber	12"	16"	20"	12"	20"	12"	16"	20"
Shot number		4, 5, 6, 7 ½, 8, 9		4, 5, 6, 7 ½, 8, 9	7 ½, 8, 9	4B / 00B	1B	3B
Shot charge	32 g	28 g	24 g	24, 28, 32 g	24 g	32 g (24 / 9 units)	24 g	24 g
Max precision	754 kg./cm <sup>2</sup>	795 kg./cm <sup>2</sup>	846 kg./cm <sup>2</sup>	754 kg./cm <sup>2</sup>	846 kg./cm <sup>2</sup>	754 kg./cm <sup>2</sup>	795 kg./cm <sup>2</sup>	846 kg./cm <sup>2</sup>
Cartridge length	61 mm max	59 mm max	61 mm max	61 mm max	61 mm max	66 mm max	66 mm max	66 mm max
Velocity	400 m/s	400 m/s	400 m/s	410 m/s	410 m/s	410 m/s	410 m/s	410 m/s

# SPECIALISED PERSONAL PROTECTION SOLUTIONS BY *Miguel Caballero*

## MILITARY PRODUCTS

Our S33 – Military product line is design and developed under the highest quality standards, with state-of-the-art materials that allow us to offer the greatest comfort and convenience possible and with the priority to provide the highest degree of protection.



## Lightweight Modular Plate Carriers

### PLUS BACK SUPPORT SYSTEM

Our PLUS BACK SUPPORT SYSTEM is designed to reduce and redistribute the weight on the back.

This is included in our WOLF, BISON and STRYKER carriers.



## STRYKER – LEVEL IV PLATE CARRIER SAPI SIZE



Size(SAPI)	S – M – L – XL
Carrier Weight	800 gr
Gender	Male and female

## BISON – LEVEL IV VEST RIG + PLATE CARRIER



Size	For regular size plate (10" x 12")
Carrier Weight	1100 gr
Gender	Male

## WOLF – LEVEL IV PLATE CARRIER



Size	For regular size plate (10" x 12")
Carrier Weight	800 gr
Gender	Male and female

Superior cuts are with Velcro soft fabric to attach the Tag Patches. MOLLE system in laser cut on the Cordura fabric.

Military grade magnetic fast release shoulder and waist buckles.

Available colors on request:



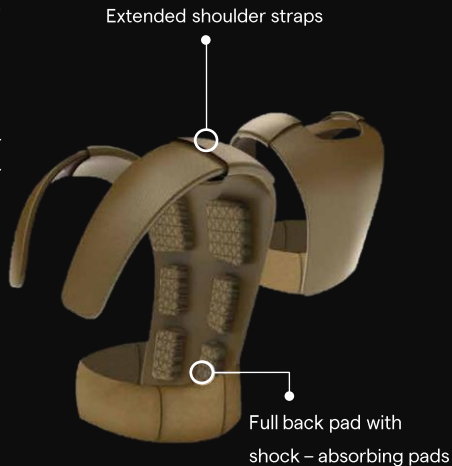


## Tactical Vests

### BASIC BACK SUPPORT SYSTEM

Our BASIC BACK SUPPORT SYSTEM is designed to reduce and redistribute the weight on the back.

This is included in our GRADER and BRADLEY vests. It can also be used with our BISON carrier.



### BRADLEY – LEVEL IIIA TACTICAL VEST MOLLE SOFT ARMOR



Size	S – M – L – XL
Carrier Weight	2200 gr
Gender	Male

Superior cuts are with Velcro soft fabric to attach the Tag Patches. MOLLE system in laser cut on the Cordura fabric.

### GRADER – LEVEL IIIA TACTICAL VEST MOLLE SYSTEM



Size	For regular size plate (10" x 12")
Carrier Weight	1100 gr
Gender	Male

Military grade magnetic fast release shoulder and waist buckles. Circular Ballistic protection (front, lateral & back ballistic panel).



Shoulders, lumbar, and pelvic soft armor ballistic protection. MC Armor recommends using the GRADER vest with the MC Back Support Level II to get the most comfort.

Available colors on request:



## Full Armor

### RHINO SYSTEM

#### LEVEL IIIA

Our full armor modular tactical vest RHINO combines our tactical vest GRADER with a neck, shoulder, lumbar and pelvic soft armor ballistic protection.

#### PLATE CARRIER



#### NECK



#### LEVEL IV

The WOLF plate carrier pouch can be attached to the front and back vest to increase the level of protection to level IV.

#### SHOULDER



#### PELVIC & LUMBAR



## IRON SHARK FLOATING BALLISTIC VEST



Adjustment system inside fins with front closure, in reinforced loop and contact buckles for greater safety.

Fallen man rescue handle.

Weight	10 kg
Textile base	Resistant canvas 100% Nylon



- Strong outer fabric against tearing and tension.
- Water resistant.
- Internal elastic adjustment waistband to optimize the weight distribution.

## TANK – TOP (PATENTED PRODUCT) CONCEALABLE NEW GENERATION

Two removable front and back ballistic panels with NIJ Level II – IIIA certification, covering vital organs.



Size	S-3XL
Color	White and Black
Carrier Weight	350 gr
Panels Weight	1360 gr
Gender	Male and female

- Providing thermal comfort and high-level performance.
- Ergonomic design for ease of movement.
- Zip closure system with side openings.



## Ballistic Helmets



**OPS PLUS IIIA**

1600 g



**MITCH PLUS IIIA**

1650 g



**PSGT MESH IIIA**

1500 g

Buckle closure, Side rails, Front mounting, and Mesh suspension system



**MITCH MESH IIIA**



**MITCH IIIA AVEOLOS**



**PSGT PLUS IIIA**



**PSGT ALVEOLOS IIIA**

Buckle closure, Side rails, Front mounting, and Mesh suspension system

# HARD BODY ARMOR PLATES – FRONT AND BACK



## PLATE LEVEL III

	STANDARD	PLUS STANDARD
<b>Impact</b>	Multi - Impact	Multi - Impact
<b>Width</b>	10" / 254 mm	10" / 254 mm
<b>Height</b>	12" / 305 mm	12" / 305 mm
<b>Weight</b>	1.49 kg	1.87 kg

## PLATE LEVEL IV

	STANDARD	
	Mono - Impact	Multi - Impact
<b>Width</b>	10" / 254 mm	10" / 254 mm
<b>Height</b>	12" / 305 mm	12" / 305 mm
<b>Weight</b>	3 kg	3.8 kg

## PLATE LEVEL III SAPI

## PLATE LEVEL III PLUS SAPI

## MULTI - IMPACT

Size	XL	L	M	X	XS	XL	L	M	X	XS	XL	L	M	X	XS
<b>Impact</b>	Mono - Impact					Mono - Impact					Multi - Impact				
<b>Width</b>	11" / 279 mm	10.25" / 257 mm	9.5" / 241 mm	8.75" / 222 mm	7.25" / 184 mm	11" / 279 mm	10.25" / 257 mm	9.5" / 241 mm	8.75" / 222 mm	7.25" / 184 mm	11" / 279 mm	10.25" / 257 mm	9.5" / 241 mm	8.75" / 222 mm	7.25" / 184 mm
<b>Height</b>	14" / 355 mm	13.25" / 336 mm	12.5" / 318 mm	11.75" / 298 mm	11.5" / 292 mm	14" / 355 mm	13.25" / 336 mm	12.5" / 318 mm	11.75" / 298 mm	11.5" / 292 mm	14" / 355 mm	13.25" / 336 mm	12.5" / 318 mm	11.75" / 298 mm	11.5" / 292 mm
<b>Weight</b>	2.34 kg	2.01 kg	1.79 kg	1.52 kg	1.2 kg	2.48 kg	2.13 kg	1.9 kg	1.61 kg	1.28 kg	4.5 kg	3.87 kg	3.44 kg	2.93 kg	2.32 kg



# MILITARY AND COAST GUARD VESSELS BY COTECMAR

Our technological capabilities include cutting-edge digital tools, and, within our processes, we apply state-of-the-art methodologies in naval design, which allow us to materialize projects at different stages of the design process, from the initial definition of the design concept to production-oriented engineering, installation, training, life cycle support and business management assistance.



## OPV OFFSHORE AND EXCLUSIVE ECONOMIC ZONE PATROL VESSEL



Modern patrol vessel functionally adapted and built with outstanding performance in sea conditions for long-term missions, helicopter operations and fast boats.

<b>Total length</b>	80.6 m
<b>Total breadth</b>	13.6 m
<b>Depth (to first deck)</b>	6.8 m
<b>Design draft (at maximum load)</b>	3.8 m

### PERFORMANCE

<b>Maximum speed</b>	21 knots (2 x 4080 kW) 18 knots (2 x 2040 kW)
<b>Range</b>	up to 4,500 mn (config. 21 knots) up to 10,000 mn (config. 18 knots)
<b>Endurance</b>	40 days @ 64 people

### CAPABILITIES

<b>Fuel (diesel):</b>	200 m <sup>3</sup>
<b>Helicopter fuel (JP5):</b>	19 m <sup>3</sup>
<b>Interceptor boat fuel (Gasoline):</b>	12 m <sup>3</sup>
<b>Fresh water:</b>	48 m <sup>3</sup>

### PROPULSION

<b>Main engines:</b>	2 x Wärtsilä 6L26B2 (up to 18 knots) 2 x Wärtsilä 12V26 (up to 21 knots)
<b>Installed power:</b>	2 x 2040 kW @ 1000 rpm (up to 18 knots) 2 x 4080 kW @ 1000 rpm (up to 21 knots)
<b>Propellers</b>	2 controllable pitch propellers
<b>Bow pusher</b>	1 x 280 kW

### ELECTRICAL SYSTEM

<b>Main Generators:</b>	3 x 360 kW, 440V @60Hz
<b>Emergency Generator:</b>	1 x 105 kW, 440V @60Hz

### PROJECTION CAPABILITIES

- Flight deck and hangar for 1 medium-sized helicopter with refueling capacity.
- Stern ramp for deployment of an interceptor boat.

### SPECIAL FEATURES

- Roll Stabilization System (U-tank).
- Deck crane SWL 4 t to 11,6 m.
- Rescue Bay.

## OPV 93 SEA PATROL VESSEL



Patrol and military support vessel developed to increase the operational capabilities respect the current up to 80 m OPVs to meet the requirements from Modern Navies.

<b>Total length</b>	93 m
<b>Total breadth</b>	14 m
<b>Depth (to first deck)</b>	7 m
<b>Design draft (at maximum load)</b>	4.1 m

- SPECIAL FEATURES**
- Roll Stabilization System (U-tank).
  - 1 Deck Crane SWL 5 t to 10 m.

### PERFORMANCE

<b>Maximum speed</b>	18 knots
<b>Range</b>	up to 10,000 nautical miles (at 12 knots)
<b>Endurance</b>	40 days @64 people 20 days @109 people

### CAPABILITIES

<b>Fuel (diesel):</b>	392 m <sup>3</sup>
<b>Helicopter fuel (JP5):</b>	44 m <sup>3</sup>
<b>Interceptor boat fuel (Gasoline):</b>	13 m <sup>3</sup>
<b>Fresh water:</b>	67 m <sup>3</sup>

### PROPULSION

<b>Power</b>	4 x 2200kW (CODAD) 2 x 4800kW (+2 x 630 kW CODELOD)
<b>Propellers</b>	2 controllable pitch propellers
<b>Bow pusher</b>	> 1 x 390 kW

### ELECTRICAL SYSTEM

<b>Main Generators:</b>	4 X 375kWe (CDAD)
<b>Emergency Generator:</b>	4 x 740 kWe (CODEDO) 1 X 200 kWe

## LCU LANDING CRAFT UTILITY



A vessel capable of developing humanitarian aid operations along In riverine and coastal areas, aiding for disaster-response operations and logistical support from the National Navy bases ashore through the transport of troops, containers and general cargo.

<b>Total length</b>	49 m
<b>Total breadth</b>	11 m
<b>Depth (to first deck)</b>	3,10 m
<b>Design draft (at maximum load)</b>	1,75 m

### PERFORMANCE

<b>Maximum speed</b>	9 knots
<b>Autonomy</b>	20 days@51 people 40 days@15 people
<b>Range</b>	1500mn@9 knots 2500mn@6 knots

### CAPABILITIES

<b>Fuel (diesel):</b>	75 m <sup>3</sup>
<b>Fresh water:</b>	55 m <sup>3</sup>

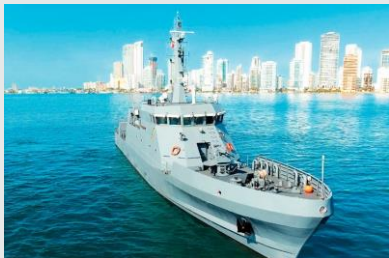
### PROPULSION AND ELECTRICAL SYSTEM

<b>Main engines</b>	2 X Caterpillar C18 ACERT Rating 412 kW @ 2000 rpm
<b>Main generators</b>	2 x CAT C44. ACERT 123 kVA @60 Hz

### PROPULSION AND ELECTRICAL SYSTEM

The vessel is outfitted with communications equipment that enables the unit to operate as a center for emergency and disaster management, and also perform as a communication platform for joint operations ensuring interoperability with military bases or other types of fleet units.

## CPV COASTAL PATROL VESSEL



Modern ship developed for interdiction, patrol and surveillance operations in coastal maritime areas. The unit has an automatic identification system (AIS) with navigation and communication capabilities to ensure the accomplishment of its missions.

<b>Total length</b>	46.25 m
<b>Total breadth</b>	7.09 m
<b>Depth (to first deck)</b>	4.30 m
<b>Design draft (at maximum load)</b>	2.12 m

### PERFORMANCE

<b>Maximum speed</b>	19 knots
<b>Scope</b>	2000 mn@12 knots

### CAPABILITIES

<b>Fuel (diesel):</b>	30 m <sup>3</sup>
<b>Interceptor boat fuel (Gasoline):</b>	5 m <sup>3</sup>
<b>Fresh water:</b>	22 m <sup>3</sup>

### PROPULSION AND ELECTRICAL SYSTEM

<b>Main engines</b>	2 x 1680 kW @ 2000 RPM
<b>Main generators</b>	02 diesel generators of 99 kW (123 kVA) @ 60 Hz

### WEAPONS

One fore 25 mm gun; stabilized and remotely operated from the bridge and two 6,37 mm mounted machine guns to the sides. Optional optronic 12,7 mm gun to aft over bridge.

## PAG ADVANCED COAST GUARD PLATFORM



Non-propelled naval craft, whose mission is to perform as a platform to support the projection of coast guard operations from sheltered waters. It has capacity for berthing 4 boats of up to 12,5 m in length, accommodation for 11 people in cabins and 14 people in a multipurpose room.

<b>Total length</b>	19.20 m
<b>Total breadth</b>	15 m
<b>Depth</b>	1.50 m

### TANK CAPACITY

<b>Fresh Water:</b>	20 m <sup>3</sup>
<b>Gasoline:</b>	5 m <sup>3</sup>
<b>Diesel:</b>	6 m <sup>3</sup>

### AUXILIARY EQUIPMENT

<b>Diesel Electric Generator:</b>	120/240 VAC, 60HZ, 125A
<b>Shore connections:</b>	120/240VAC 60Hz 50A
<b>Bilge system:</b>	Submersible pumps
<b>Wastewater system:</b>	biological treatment plant for 20 people
<b>Drinkable water system:</b>	Pump and hydro accumulator
<b>Fuel system:</b>	Supply by hand pump
<b>Air conditioning system:</b>	Air-cooled A/C units

### PROTECTION

The second level has a bulwark that functions as a shield in armored NIJ Level III Special Steel with a thickness of 3/16" on the outer perimeter of the accommodation zone. The unit has 4 sentry stations with gun muzzles to provide the platform with defense capability.

# RIVER OPERATION VESSELS BY COTECMAR

Introducing Cotecmar's River Operation Vessels, the embodiment of patrol excellence on waterways. Designed and crafted with precision, these vessels redefine maritime security and law enforcement.



## PAF-P LARGE RIVERINE SUPPORT PATROL VESSEL



Designed to operate in sheltered waters and major rivers as a mobile logistics support platform to facilitate longer performance times and deployment of river operations.

This unit has helicopter-landing capabilities. The medical facilities serve both crew, troops and civilians

<b>Total length</b>	40.30 m
<b>Total breadth</b>	9.50 m
<b>Depth (to first deck)</b>	3.10 m
<b>Draft (at maximum load)</b>	1.26 m

### PERFORMANCE

<b>Maximum speed</b>	9 knots (16.7 km/hr)
<b>Autonomy</b>	20 days @30 people
<b>Scope</b>	2900km @9 knots

### CAPABILITIES

<b>Fuel (diesel):</b>	32.5 m <sup>3</sup>
<b>Jet A-1:</b>	7.5 m <sup>3</sup>
<b>Gasoline:</b>	12 m <sup>3</sup>
<b>Fresh water:</b>	22.2 m <sup>3</sup>

### PROPULSION AND ELECTRICAL SYSTEM

<b>Main engines:</b>	2 x 450BHP@1800 rpm
<b>Propellers</b>	2 X Schottel SPJ 82 RD
<b>Main Generators:</b>	2 x 76 kW @ 60 Hz

### WEAPONS

Four M60 machine guns  
3 x 12,7 mm double barrel machine guns in armored casings. Remotely operated MK 19 grenade launchers

## PAF-L LIGHT RIVERINE PATROL SUPPORT VESSEL



Designed to operate in sheltered waters, major and low draft rivers as a mobile platform for communication, intelligence and logistical support systems for river combat fast boats.

<b>Total length</b>	30 m
<b>Total breadth</b>	7 m
<b>Depth (to first deck)</b>	3.1 m
<b>Draft (at maximum load)</b>	1 m

### PERFORMANCE

<b>Maximum speed</b>	9.6 knots (17.7 Km/hr)
<b>Autonomy</b>	12 days @11 people
<b>Scope</b>	1560km@9 knots



## LPR - 40 MKII FAST RIVERINE PATROL BOAT



Armored patrol boat that performs as a command unit for the tactical river combat boat group operated by the Colombian Marine Corps. The boat is equipped to develop surveillance, intelligence, communications, command and control operations.

<b>Total length</b>	12.7 m
<b>Total breadth</b>	2.8 m
<b>Depth (to first deck)</b>	1.53 m
<b>Draft (at maximum load)</b>	0.65 m

### PERFORMANCE

<b>Maximum speed</b>	32 knots
<b>Autonomy</b>	500km@25 knots
<b>Range</b>	5 days@6 people

### CAPABILITIES

<b>Fuel (diesel):</b>	1,74 m <sup>3</sup> (460 Gal)
<b>Fresh water:</b>	25 Gal

### PROPULSION AND ELECTRICAL SYSTEM

<b>Main engines</b>	2X 500 HP KW@2500 RPM
<b>Propulsion</b>	2x Type Water jet
<b>Generators</b>	1x7,8kW@60Hz
<b>Air Conditioning</b>	1 X 16,000 BTU/h

### WEAPONS

1 fire point for machine guns of up to 12,7 mm (double) at bow.  
 1 fire point for machine guns of up to 12,7 mm (single) or grenade launcher at bow.  
 2 fire points on each side for machine guns of up to 7,62 mm.

## PAF A AMAZONIC PATROL VESSEL



Military river ship with capabilities for border control, river security, search & rescue, environmental control and humanitarian aid operations.

<b>Total length</b>	53.10 m
<b>Total breadth</b>	9.5 m
<b>Draft</b>	1.5 m
<b>Depth</b>	3.10 m

### TANK CAPACITY

<b>Maximum speed</b>	15 knots
<b>Range</b>	5556 km @ 10 knots
<b>Autonomy</b>	20 days, 61 people

### CAPABILITIES

<b>Diesel Fuel:</b>	58 m <sup>3</sup>
<b>JP5 Jet Fuel:</b>	5 m <sup>3</sup>
<b>Gasoline:</b>	11 m <sup>3</sup>
<b>Fresh water:</b>	25.5 m <sup>3</sup>
<b>Container Cargo:</b>	1 TEU

### PROPULSION AND ELECTRICAL SYSTEM

<b>Engine</b>	02 diesel engines x 1081bkW@2100 RPM
<b>Propellers</b>	03 water jet propellers 1000bkw@1030 RPM
<b>Main generator</b>	Two 118 kW Generators - 230VAC@60Hz
<b>Emergency generator</b>	One 105kW Generator - 230VAC@60Hz



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