

The background of the entire page is a photograph showing the silhouettes of three firefighters in full gear, including helmets and jackets. They are positioned in the foreground, facing away from the camera towards a massive, intense fire that fills the background. The fire is bright orange and yellow, with thick smoke rising. The firefighters appear to be working together, with one on the right holding a hose that extends towards the fire. The overall scene is dramatic and emphasizes the bravery and equipment of the fire service.

PRODUCT CATALOG
2022.05

**FIRE FIGHTING & RESCUE
EQUIPMENTS**

FIREARMY



FIREARMY

To grant protection for those who have a will to fight fire in order to protect environment and people around it.

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Protective Clothing COLOSSUS

Standard : EN469:2005, Level 2, Xf2, Xr2, Y2, Z2

Protective Clothing COLOSSUS is designed for body protection, with flame retardant, waterproof and breathable, heat insulation, anti-static and strong marking performance, composed of the outer layer, waterproof breathable layer, insulation layer and comfortable layer.



SPECIFICATION

Structure	4 Layers
Outer Layer	Nomex IIIA <ul style="list-style-type: none"> • 93% Nomex • 5% Kevlar • 2% P140 - 205 g/m² ripstop
Moisture Layer	Aramid non-woven fabric + PTFE
Thermal Layer	<ul style="list-style-type: none"> • 80% Nomex • 20% Kevlar insulation mat
Comfortable Layer	<ul style="list-style-type: none"> • 50% Nomex • 50% FR Viscose
Arc Thermal Performance Value	34 cal/cm ²
Reflective Stripe	3M
Dimension	57 x 38 x 10 cm
Weight	2.8 kg





Outer Layer	<ul style="list-style-type: none"> • Material: Nomex IIIA (produced by Dupont) • Weight of unit area: 205 g/m² • Flame retardant: After flame time 0 sec • Cutting resistance: Warp 1173 N, weft 1003 N • Moisture resistance: 3° • Thermal stability change rate: 1%
Moisture Layer	<ul style="list-style-type: none"> • Material: Aramid non-woven fabric + PTFE • Weight of unit area: 108 g/m² • Hydrostatic pressure: >50 Kpa • Water vapour transmission rate: 6099 g/m²(24h) • Oil repellent performance: Level 4 • Thermal stability change rate: 2%
Thermal Layer	<ul style="list-style-type: none"> • Material: 80% Nomex, 20% Kevlar insulation • Weight of unit area: 75 g/m² • Flame retardant: After flame time 0 sec • Thermal stability change rate: 1%
Comfortable Layer	<ul style="list-style-type: none"> • Material: 50% Nomex, 50% FR Viscose • Weight of unit area: 120 g/m² • Flame retardant: After flame time 0 sec • Thermal stability change rate: 1%
Reflective Tape	<ul style="list-style-type: none"> • Material: 3M • Properties: Flame retardant, washing resistant, and high temperature resistant
Life-saving Towing Belt (DRD-Drag Rescue Service)	<ul style="list-style-type: none"> • Unfolding time: 6 sec • Drag distance: >2.5 m • Breaking strength: 8373 N
Elbow & Knee Protection	<ul style="list-style-type: none"> • Material: Kevlar dan PU coating • Tebal material: 360 g/m²
Other features	<ul style="list-style-type: none"> • Sewing thread material: Nomex • Sewing stitch density: 13 stitching/3 cm • Seam tensile strength: Warp 918 N, weft 849 N • Zipper inside jacket: to maintain membrane and life-saving towing belt

Other choice of color :



Rescue Suit (1 Layer & 3 Layers)

SPECIFICATION

• 1 Layer



Structure	1 Layer
Material	Aramid Fabric 188 g/m ²
Flame retardant	After flame time ≤ 2 sec, after glow time ≤ 2 sec
Fabric tensile strength	Longitude 1300 N, latitude 1090 N
Tear strength	Warp ≥ 171.8 N, zonal ≥ 143.05 N
Moisture resistance	≥ 3°
Shrinkage	≤ 2.5%
Anti-static nature	≤ 3.5 sec
Weight	1.9 kg

• 3 Layers



Structure	3 Layers
Outer layer	Nomex IIIA
Second layer	Cotton non-woven and PTFE Membrane
Third layer	Flame Retardant Cotton
Weight	2.2 kg

Accessories Included (all types):



Aluminized Fire Entry Suit

Standard : EN1486:2007



SPECIFICATION

Structure	3 Layers
Outer Layer	Kevlar + Aluminium Coated
Thermal Layer	Aramid Retardant Insulation Mat 170 g/m ²
Comfortable Layer	Lining Natural Cotton
Visor Material	PES + Silicone Oxide/Silver Coating, 3 mm
Inside Helmet	HDPE
TPP Value	35.0 cal/cm ²
Heat Resistant	1000°C
Flame Retardant	Damaged length 5 mm, burn off time 5 sec
Accessories	Hood, Jacket, SCBA Backpack, Pants, Gloves, Shoes
Weight	4.2 kg



Fire Entry Suit JUGGERNAUT



SPECIFICATION

Structure	7 Layers
Layers	<ol style="list-style-type: none"> 1. Oxidized Fiber 70% and Kevlar 30% 2. Anti-thermal Radiation Layer 3. Fire Retardant Cotton Layer 4. High-density Waterproof Breathable Layer 5. 100% Cotton Heat Insulation Layer 6. 100% Cotton Spinning Anti-static Comfortable Layer 7. Cotton Lining
Components	Jacket, Pants, Fire Retardant Gloves, Fire Boots, Wide Vision UV Hood, Backpack for Air Breathing Apparatus
Advantages	<ul style="list-style-type: none"> • Can use gas mask inside Fire Entry Suit • Can be worn in 1000°C workplace for 30 sec with temperature inside the suit does not exceed 25°C
Technical Parameter	<ul style="list-style-type: none"> • Waterproof and Moisture Resistance • Smoldering time: < 2 sec • Flame Resistance: max. 860°C • Heat Resistance: max. 1050°C • Weight: 7 kg



Anti-Bee Suit BEEHIVE



SPECIFICATION

Material	Flame Retardant PVC
Accessories	Hood, Coverall, Puncture proof Gloves, Rubber Boots
Performance	Anti Cutting, Anti Acid and Alkali, Anti Virus
Coverall Strength	Max. Tensile Strength: 450 N/5 cm Max. Tear Strength: 32 N
Boot Sole Strength	Max. Electrical Insulation: 5000 V Max. Puncture Resistance: 1500 N
Weight	3.6 kg



Chemical Suit Light Duty



SPECIFICATION

Material	Modified PVC Coated Fabric (610±10 g/m ²)
Features	Flame Retardant, Acid/salt Resistance, Penetration Resistance, Gasoline Resistance, Aging Resistance, Water Resistant, Cold Resistance
Anti Water Leakage	No leakage after 20 min
Heat Aging Resistance	125°C; No Stick, No Brittle, No Crack
Seam Strength	200 N
Chemical Permeability	1 hour in 6.1 mol/L NaOH, 80% H ₂ SO ₄ , 60% HNO ₃ , 30% HF solution soaked, No Penetration
Cold Resistance	5 min, No crack in environment temp. -25°C
Solo Puncture Resistance	≥ 900 N
Gloves Puncture Resistance	≥ 22 N
Boots Anti Cutting Performance	No cut through by cutting test
Boots Electrical Insulation	≥ 5000 V; leakage current < 3 mA
Accessories	Coveralls, Hood, Gloves, Boots
Weight	2 kg

Chemical Suit Heavy Duty



SPECIFICATION

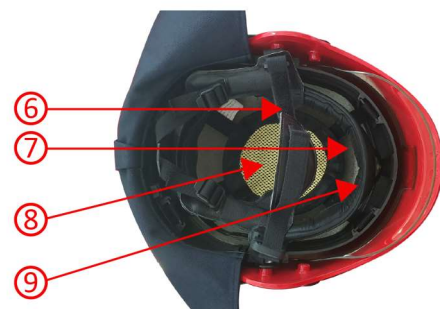
Material	Modified PVC Coated Fabric (660±10 g/m ²)
Features	Flame Retardant, Acid/salt Resistance, Penetration Resistance, Gasoline Resistance, Aging Resistance, Water Resistant, Cold Resistance
Whole Air Tightness	≤ 300 Pa
Air Tightness of Exhaust Valve	≥ 15 sec
Ventilation Valve Resistance	78 ~ 118 Pa
Adhesion Strength	≥ 0.78 kN/m
Tensile Strength	≥ 9 kN/m
Tear Strength	≥ 50 N
Heat Aging Resistance	125°C; No Stick, No Brittle, No Crack
Seam Strength	250 N
Chemical Permeability	1 hour in 6.1 mol/L NaOH, 80% H ₂ SO ₄ , 60% HNO ₃ , 30% HF solution soaked, No Penetration
Cold Resistance	5 min, No crack in environment temp. -25°C
Solo Puncture Resistance	≥ 1100 N
Gloves Puncture Resistance	≥ 22 N
Boots Anti Cutting Performance	No cut through by cutting test
Boots Electrical Insulation	≥ 5000 V; leakage current < 3 mA
Accessories	Coveralls, Hood, Gloves, Boots
Weight	4 kg

Fire Fighting Helmet COMPACT

Standard : EN443:2008, ISO9001:2008

Fire fighting helmet COMPACT offers high performance, unique and functional design features along with superior protection, fit, and comfort. COMPACT does not be deformed under influence of circumstances as exposure to sun, flame, high heat, rain and cold.

SPECIFICATION



1. Outer Shell	Flame retardant PA66 thermoplastic shell resists high temperature, abrasion, UV-rays, chemicals, electricity.
2. Flashlight Holder	Flame retardant PA66 thermoplastic shell resists high temperature, abrasion, UV-rays, chemicals, electricity.
3. Rotary Headband Adjustment	Headband adjustment insures a secure and comfortable fit for various head sizes from 52 mm to 62 mm and permits use with SCBA.
4. Faceshield (Visor)	Polyethersulfone faceshield is coated on both sides with an anti-scratch chemical for safety optical clarity.
5. Neck Protector	Aramid neck protector allows ears and neck of the wearer to protect against high heat and flame.
6. Chinstrap	Made of aramid and cow leather, chinstrap with one hand quick release buckle allows quick and easy adjustment .
7. Inner Liner (Impact Net)	Polystyrene foam resin material, inner liner increase impact protection and sustains the suspension system under a severe shock.
8. Suspension	Improved 6-point suspension, cradle strap assembly made of Nomex fabric to serve as impact cap's overhead suspension.
9. Headband	Made of plastic and cow leather, reduce pressure and increase comfort. Located at the nape device to allow proper adjustment for the headband to fit and prevents backing out or slipping during use.

Max Impact Force	3577.1 N (365 kg Force)
Top of Helmet	maximum impact speed 121.7 gn
Front of Helmet	maximum impact speed 297.2 gn (acceleration > 150 gn, duration 4.2 msec)
Side of Helmet	maximum impact speed 299.8 gn (acceleration > 150 gn, duration 4.2 msec)
Rear of Helmet	maximum impact speed 305.6 gn (acceleration > 150 gn, duration 4.2 msec)
Flame Resistance	after the fire source leaves, the helmet flame will extinguish within 5 sec
Electrical Insulation	leakage current 1.0 mA
Faceshield	no obvious deformation and damage after heat resistance test
Field of Vision	Left > 105° ; Right > 105°
Net Weight	1450 g

Protective Hood

Standard : EN13911:2017



SPECIFICATION

Fabric Properties	<ul style="list-style-type: none"> • Aramid knitted fabric • Flame Retardant: After flame time 2 sec, no melting • Heat Resistant: Dimension change $\leq 10\%$, no change in color • Water washing shrinkage $\leq 5\%$
Performance	<ul style="list-style-type: none"> • Seam Strength: ≤ 185 N • Face open dimension stability: $\leq 20\%$

Flame Retardant Sweater



SPECIFICATION

Material	Flame Retardant Wool
Thickness	1 mm
Weight	200 g

Fire Fighting Gloves FIRECLAW

Standard : EN659:2003



SPECIFICATION

Outer Layer	Flame Retardant Aramid (210 g/m ²)
Waterproof Layer	TPU low permeability milky white waterproof membrane
Thermal Barrier	Flame Retardant Aramid
Comfortable Layer	Flame Retardant Cotton
Abrasion Resistance Leather	Palm, Thumb, Index Finger
Reflective Stripe	50 mm
Weight	100 g

TECHNICAL PARAMETER

Gloves Shrinkage	1.5%
Lining Shrinkage	1.0%
Max. Abrasion Resistance	Palm: 2000 N ; Dorsum: 2000 N
Max. Cutting Force	Palm: 15 N ; Dorsum: 15 N
Tear Strength on Palm	84 N
Piercing Force on Palm	61 N

Fire Fighting Boot FIREBOLT

Standard : EN15090:2012 (F2 I HI3 P T CI), ISO9001:2008



SPECIFICATION

Lining Material	The assembly of the rubber boots has a cotton canvas inner lining and when boots assembly is properly tested according to European Standard EN15090:2012(F2 IS HI3 P T CI), it can withstand the temperature of 220°C provided for safety and comfort of the user.
Insulation	Rubber sponge type insulation is provided for proper protection of feet from burns and blisters.
Insole	Thick Nylon Fabric knitted cushioned insole, which protects feet and heel from blisters and oiling. Also protect feet from injuries and apparent infections.
Upper Construction	<ul style="list-style-type: none"> • Flame retardant with heat insulation Level 3 capabilities • Reinforced formulation with minimum thickness of 2 mm • High visibility with black and yellow contrast

Shin	Made of high grade poly-rubber with inner lining that runs from top to toe that provide resistance to heat. Patterned in such a manner to minimized leg exposure and designed for easy donning of trousers.
Sole/Heel	<ul style="list-style-type: none"> • Fuel and oil resistant sole suitable for inimical environment • Slip resistant vulcanized rubber sole conforms to EN15090 • Excellent abrasion resistant for extra durability • Tested to withstand 5000 V of life current (dry condition) • Heel energy absorption design to minimize the impact to your heel • Comfortable heel area, snugly holds the heel in place • Catered to enter high temperature with HRO performance • Multitasking performance with cold insulation protection
Steel Midsole	<ul style="list-style-type: none"> • One piece stainless steel penetration and flexing test requirements • Withstands pin & sharp objects • Combination of rubber and felt material midsole that exceeds the minimum requirements for heat and cold absorption, which also give extra comfort to the use
Outsole	Shall be of tractor-thread type.
Steel Toe Cap	<ul style="list-style-type: none"> • Meets EN15090 impact and compression tests • Does not slip out of place or cut into sole during impact, protected with sponge cushioned lining • Reliable protection in cold & hot environments
Loops	With two loops made of rubber coated nylon cord for great control, grip and ease in donning the boots.
Height and Weight	Approximate height shall be 350 mm. Average weight is 2.6 kg/pair.
Chemical Resistant	Sole & Upper-Resistant towards mild acids and alkaline.
Finishing	Hypalon lacquer coating for weather protection.
Colors	Black in color with yellow stripes on toe caps, shin, midsole and top for high visibility.

Firehose Polyester SAIBARU LUX



SPECIFICATION

Layer Structure	2 layers
Outer Layer	Polyester
Inner Layer	EPDM Rubber
Working Pressure	16 bar
Bursting Pressure	35 bar
Color	White
Size Available	1.5", 2" & 2.5"

Firehose Rubber SAIBARU LUX



SPECIFICATION

Layer Structure	3 layers
Outer Layer	Nitrile Rubber
Middle Layer	Polyester
Inner Layer	Nitrile Rubber
Working Pressure	20 bar
Bursting Pressure	40 bar
Color	Red
Size Available	1.5", 2" & 2.5"

Gun Nozzle GUNSELECT



GUNSELECT material is strong and light weight aluminium alloy. It has constant selectable flow rate and mode (jet or fog mode).

SPECIFICATION

Working Pressure	3.5 - 8 bar
Working Flow @ 7 bar	360 L/min (1.5"), 580 L/min (2.5")
Function Mode	Jet only, Fog Only
Spray Angle	0 - 130°
Horizontal Throw	22 - 36 m
Outlet Available	1.5" and 2.5" coupling
Dimension	30 x 12 x 16 cm
Weight	2.5 kg



Gun Nozzle GUNBOOSTER



GUNBOOSTER material is strong and light weight aluminium alloy. It has dual action mode (jet and fog mode at the same time)

SPECIFICATION

Working Pressure	3.5 - 8 bar
Working Flow @ 7 bar	360 L/min (1.5"), 580 L/min (2.5")
Function Mode	Jet only, Fog Only, Jet and Fog
Spray Angle	0 - 130°
Horizontal Throw	22 - 36 m
Outlet Available	1.5" and 2.5" coupling
Dimension	30 x 12 x 16 cm
Weight	2.5 kg



Dividing Breeching Screwdown



SPECIFICATION

Material	Alumunium Alloy
Size Available	* Input 1.5 - Output 2x1.5
	* Input 2.5 - Output 2x1.5
	* Input 2.5 - Output 2x2.5

Dividing Breeching Ball Valve



SPECIFICATION

Material	Alumunium Alloy
Size Available	* Input 1.5 - Output 2x1.5 (Red)
	* Input 2.5 - Output 2x1.5 (Red)
	* Input 2.5 - Output 2x2.5 (Silver)



Foam Inductor

Standard : EN1486:2007



SPECIFICATION

Inlet Water Pressure	3 - 5 bar
Mix Liquid Flow	300 L/min
Mix Ratio	3%

Foam Nozzle



SPECIFICATION

	FN-24	FN-48	FN-96
Working Pressure	7 bar	7 bar	7 bar
Foam Liquid Flow	14.4 L/min	28.8 L/min	57.6 L/min
Mixed Liquid Flow	240 L/min	480 L/min	960 L/min
Range	24 m	29.5 m	32 m
Water Flow	225.6 L/min	451.2 L/min	900 L/min
Air Foam Volume	1500 L/min	3000 L/min	6000 L/min
Weight	6.8 kg	6.8 kg	6.8 kg

Floating Pump POSEIDON



SPECIFICATION

Engine Brand	Briggs & Stratton (USA)
Engine Type	Single-cylinder Air-cooled Four-stroke
Max. Power & Speed	12.5 HP (9.3 KW) / 3600 rpm
Air Displacement	344 cc
Start Mode	Manual, Electric, and Remote Control
Max. Flow	1200 L/min
Test Flow	725 L/min
Test Pressure	4 bar
Remote Distance	150 m
Outlet	Coupling 2.5"
Accessories	Firehose, Nozzle, Rope, and Remote Control
Dimension	76 x 76 x 45 cm
Weight	67 kg



Suitable for:



Real Estate



Apartment



Resort



Hotel



Villa

Portable Fire Pump RHINO



SPECIFICATION

ENGINE HONDA GX 390	
Type	Single-cylinder Air-cooled Four-stroke
Cylinder Size *Stroke	88.0 * 64.0 mm
Max Power	13 HP (9.6 KW)
Max Speed	3400 rpm
Air Displacement	389 cc
Start Mode	Manual / Electric Start
Startup Performance	11 sec
WATER PUMP	
Type	Single-stage Single Suction Centrifugal Pump
Rated Flow	540 L/min
Rated Pressure	5.5 bar
Suction Range	7 m
WATER DIVERSION DEVICE	
Type	Suction-type Electric Vacuum Pump
Motor Speed	3000 rpm
Current	12 V
Power	230 W
Maximum Vacuum	-0.090 MPa
7 m Diversion Time	Less than 35 sec
PARAMETER	
Inlet	1 x 2.5"
Outlet	1 x 2.5"
Size	525 x 590 x 620 mm
Weight	90 kg

Portable Fire Pump RAPTOR



SPECIFICATION

ENGINE HONDA GX 690

Type	Double-cylinder Air-cooled Four-stroke
Cylinder Size *Stroke	75.5 * 70.0 mm
Max Power	25 HP (18.6 KW)
Max Speed	3600 rpm
Air Displacement	688 cc
Start Mode	Manual / Electric Start
Startup Performance	11 sec

WATER PUMP

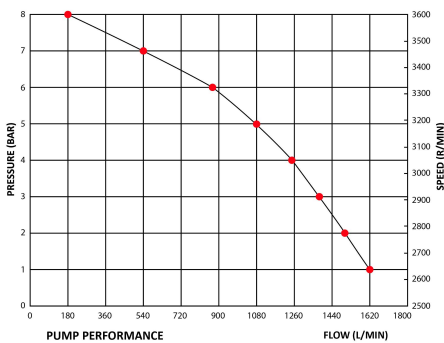
Type	Single-stage Single Suction Centrifugal Pump
Rated Flow	1000 L/min
Rated Pressure	5.5 bar
Suction Range	7 m

WATER DIVERSION DEVICE

Type	Suction-type Electric Vacuum Pump
Motor Speed	3000 rpm
Current	12 V
Power	230 W
Maximum Vacuum	-0.090 MPa
7 m Diversion Time	Less than 35 sec

PARAMETER

Inlet	1 x 3"
Outlet	2 x 2.5"
Size	700 x 640 x 680 mm
Weight	97 kg



Backpack Fire Extinguisher



SPECIFICATION

Fire Extinguisher Tank	<ul style="list-style-type: none"> • Cylinders are made of stainless steel size 15.4 L • Diameter is 210 mm and height is 610 mm • Compatible with foam chemicals or water • Working pressure is 7.5 bar • Weight is less than 15 kg (empty, no accessories)
Compressed Air Tank	<ul style="list-style-type: none"> • Volume is less than 4 L • Maximum pressure is 300 bar • Filled with compressed air
Injection System	<ul style="list-style-type: none"> • Gun made of aluminium (non-rust material) • Using 2 systems, jet and spray • Jet system can throw material no less than 15 m • Spray system can throw material no less than 7 m • Injection time is not less than 40 sec
Backpack	Manufactured from durable and strong materials

Backpack Portable Pump



SPECIFICATION

Storage Tank Volume	16 L
Fire Extinguishing Agent	AFFF-AR foam mixture
Hose Length	1 m
Flow Rate	Jet 15 L/min, Spray Mist 15.9 L/min
Throw Range	Jet 13.5 m, Spray Mist 8 m
Injection Time	Jet 58.6 sec, Spray Mist 56.6 sec
Injection Angle	20°
Residual Injection Rate	1%
Rated Mixing Ratio	3%
Foam Multiplication	5.8 x
5% Liquid Separation Time	3 min
Weight	15.95 kg (without agent)

Portable Monitor PM24



SPECIFICATION

Function	Jet and Spray
Hose Connection (Inlet)	2 x 2.5"
Jet Pressure	8 bar
Flow Rate	2400 L/min
Throw Range	61 m
Pitch Angle	30° - 70°
Horizontal Swing Angle	90°
Maximum Spray Angle	100°
Weight	21 kg

Portable Monitor PM24-SS



SPECIFICATION

Function	Jet and Spray, Self-Swing (Oscillating)
Hose Connection (Inlet)	1 x 2.5"
Jet Pressure	8 bar
Flow Rate	2400 L/min
Throw Range	60 m
Pitch Angle	30° - 70°
Horizontal Swing Angle	90°
Maximum Spray Angle	95°
Weight	16 kg

Portable Monitor PM30-SSR



SPECIFICATION

Function	Jet and Spray, Self-Swing (Oscillating), Remote
Battery	12 V, 2 x 6000 mAh
Response Time	1 sec
Remote Distance	150 m
Hose Connection (Inlet)	2 x 2.5"
Jet Pressure	8 bar
Flow Rate	3000 L/min
Throw Range	66 m
Pitch Angle	30° - 70°
Horizontal Swing Angle	90°
Maximum Spray Angle	120°
Weight	26.5 kg

Portable Monitor PM48-SSR



SPECIFICATION

Function	Jet and Spray, Self-Swing (Oscillating), Remote
Battery	24 V, 4000 mAh
Response Time	1 sec
Remote Distance	150 m
Hose Connection (Inlet)	4 x 2.5"
Jet Pressure	9 bar
Flow Rate	4800 L/min
Throw Range	80 m
Pitch Angle	30° - 70°
Horizontal Swing Angle	90°
Maximum Spray Angle	95°
Weight	60 kg

Portable Exhaust Fan PEF-H



SPECIFICATION

Engine Brand	Honda (Japan)
Engine Type	Gasoline Engine
Rated Power	3 KW
Max. Exhaust Volume	10.000 m ³ /hour
Starting Performance	≤ 3 sec
Continuous Working Time	120 min
Rated Speed	3700 rpm
Dimension	70 x 45 x 97 cm
Weight	36.6 kg

Portable Exhaust Fan PEF-V



SPECIFICATION

Engine Brand	Briggs & Stratton (USA)
Engine Type	Gasoline Engine
Rated Power	4.8 KW
Max. Exhaust Volume	10.000 m ³ /hour
Starting Performance	≤ 3 sec
Fuel Tank Volume	3.8 L
Rated Speed	3700 rpm
Dimension	68 x 66 x 69 cm
Weight	52.8 kg

Portable Exhaust Fan PEF-B



SPECIFICATION

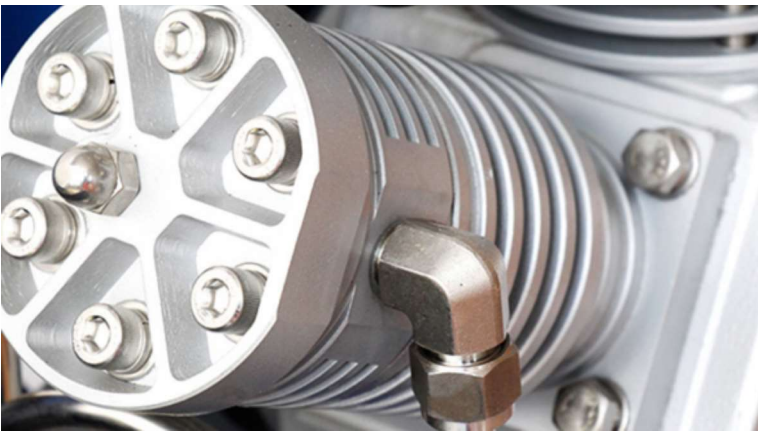
Engine Type	Battery 220 AC
Battery Voltage	48 V
Rated Power	0.75 KW
Max. Exhaust Volume	8.000 m ³ /hour
Battery Run Time	70 min
Battery Charging Time	6 - 8 hours
Rated Speed	2000 rpm
Exhaust Angle	60° - 90° adjustable
Weight	32 kg

High Pressure Air Compressor



SPECIFICATION

Power Type	Single Phase - 220 V
Power Frequency	2.2 KW
Rotating Speed	2850 rpm
Working Pressure	300 bar
Safety Pressure	330 bar
Refill Time	30 - 40 minutes (9 L - 300 bar)
Air Flow	140 L/m ³
Dimension	59 x 38 x 40 cm
Weight	65 kg



Half Face Mask



Lightweight dust proof gas mask that use comfortable and breathable soft silicon material. It fits the face comfortably and wears for a long time.

SPECIFICATION

Components	<ul style="list-style-type: none"> • Half face mask x 1 • Filter box (activated carbon particles) x 2 • Filter cover x 2 • Filter cotton (electrostatic dust proof) x 2
Technical	<ul style="list-style-type: none"> • Material frame: ABS Plastic • Model : Double filter cartridge • Inhalation Resistance: ≤ 40 Pa • Resistance of Respiratory Valve: 59 Pa • Weight: 395 g (excluding canisters) • Service Life: Up to 5 years

Soft Silicon Material	<ul style="list-style-type: none"> • No skin irritation • Natural without odor • Soft, small and light • Not easy to age • Comfortable and breathable • Wears for a long time
Silicon Body	Soft silicon material, environmentally friendly and non-toxic, high comfort level also guarantees good adhesion.
Elastic Headband	Adjustable elasticity according to face shape provide more comfortable wearing.
Cartridge Connection	Snap assembly design and easy to remove and maintain filter cartridges.
Mask Sizes	About 118 mm width and 130 mm height.
Downward Exhalation Valve	The unique downward cold flow breathing valve, the valve open automatically when exhaling, exhausting the internal hot and humid air, improves wearing comfort without affecting protection

TYPES OF FILTER CARTRIDGE

P-A-1

ORGANIC GAS OR STEAM

Benzene, Formaldehyde, Acetone, Alcohols, Aniline Carbon Dichloride, Carbon Tetrachloride, Chloroform, Methyl Bromide, Methyl Chloride, Nitroalkane

P-K-1

AMMONIA AND ITS ORGANIC DERIVATIVES

P-E-1

ACID GAS OR VAPOR

Sulfur Dioxide, Chlorine Gas, Hydrogen Sulfide, Nitrogen Oxides, Phosgene, Phosphorus and Chlorine Organic Pesticides, Other Types of Acid Gas or Vapor

Self Contained Breathing Apparatus DRAGONFLY



SPECIFICATION

Cylinder Volume	6.8 L	9 L	6.8 L 2X
Cylinder Material	Carbon-Composite	Carbon-Composite	Carbon-Composite
Working Pressure	300 bar	300 bar	300 bar
Working Time	65 min	90 min	75 min
Working Temperature	-30°C~+60°C	-30°C~+60°C	-30°C~+60°C
Total Storage	2040 L	2700 L	4080 L
Alarm Pressure	55 bar	55 bar	55 bar
Alarm Sound	>90 db	>90 db	>90 db
Full Face Mask	1 unit	1 unit	2 unit
Cylinder	1 unit	1 unit	2 unit
Weight	12 kg	20 kg	18 kg



Suitcase Included



6.8 L / 9 L



6.8 L 2X

Pressure Reducer	Steady output pressure
Air Supply Valve	Snap design, plug and play
Full Face Mask	Flame retardant, heat resistant, big ball mask, clear vision, mist prevention
Back Rack	Made of kevlar fire - retarding fiber
Cylinder	Made of carbon composite fiber, aluminum alloy liner, improved weight & safety
Suitcase	High strength material, full set protection

Emergency Escape Breathing Device (EEDB)



SPECIFICATION

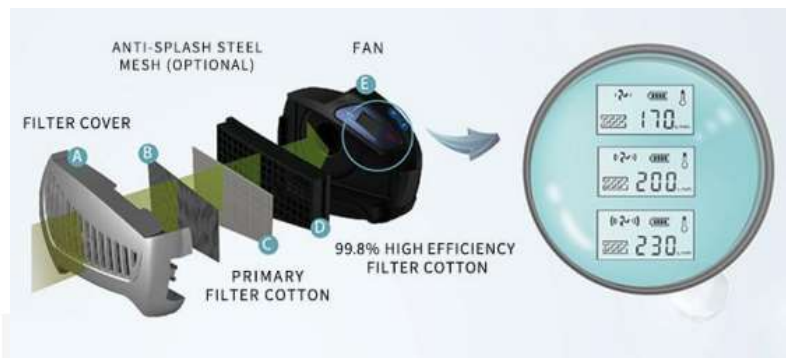
Cylinder Volume	3 L
Cylinder Material	Steel
Working Pressure	30 Mpa (300 bar)
Working Time	10 - 15 min
Weight	8 kg

Powered Air Purifying Apparatus (PAPR)



SPECIFICATION

Flow	170 L/min, 200 L/min, 230 L/min
Battery	4400 mAh
Working Time	6 - 10 hours
Charging Time	3.5 hours
Working Temperature	-5°C ~ +55°C
High Efficiency Filter	99.9996% @ 0.3 um
Weight	1.1 kg



Hydraulic Cutter



SPECIFICATION

Operation By	Hydraulic Pump
Working Temperature	-30°C ~ +55°C
Working Pressure	72 Mpa (720 bar)
Max. Opening Distance	110 mm
Max. Cutting Force	385 kN
Cutting Ability	Φ32 (Steel Q235A)
Dimension	650 x 200 x 160 mm
Weight	12 kg

Hydraulic Spreader



SPECIFICATION

Operation By	Hydraulic Pump
Working Temperature	-30°C ~ +55°C
Working Pressure	72 Mpa (720 bar)
Max. Expansion Distance	642 mm
Max. Expansion Force	51.5 kN
Dimension	760 x 290 x 200 mm
Weight	18 kg

Hydraulic Cutter Spreader



SPECIFICATION

Operation By	Hydraulic Pump
Working Temperature	-30°C ~ +55°C
Working Pressure	72 Mpa (720 bar)
Max. Expansion Distance	360 mm
Max. Expansion Force	34.3 kN
Cutting Ability	Φ28 (Steel Q235A), 6 mm Steel Panel
Dimension	750 x 205 x 170 mm
Weight	13 kg

Hydraulic Pump Single



SPECIFICATION

Engine	Honda GX35 Gasoline (Japan)
Working Pressure	72 Mpa (720 bar)
Rated Flow on Working Pressure	0.35 L/min
Output Pressure on Low Voltage	8 Mpa (80 bar)
Output Flow on Low Voltage	1.12 L/min
Accessories Included	1 x Hydraulic Hose
Dimension	390 x 320 x 310 mm
Weight	13.5 kg (including oil and gasoline)

Hydraulic Pump Double



SPECIFICATION

Engine	Honda GX100 Gasoline (Japan)
Working Pressure	72 Mpa (720 bar)
Rated Flow on Working Pressure	0.6 L/min
Output Pressure on Low Voltage	10 Mpa (100 bar)
Output Flow on Low Voltage	2 L/min
Hydraulic Tank Capacity	4 L
Connector Specification	SERIE 115/116 (1/4")
Accessories Included	2 x Hydraulic Hose
Dimension	670 x 450 x 600 mm
Weight	30 kg (including oil and gasoline)

Electro Hydraulic Cutter



SPECIFICATION

Operation By	Battery
Battery Power	28 V, 5 Ah
Working Pressure	72 Mpa (720 bar)
Cutting Capacity	Φ35 (Steel Q235A), Φ28 (20MnSi Rebar)
Max. Opening Distance	150±3 mm
Max. Cutting Force	425 kN
Opening Closing Time	7 - 11 sec
Cutting times (One battery)	<ul style="list-style-type: none"> • 25 times, 13 sec (Φ30 steel) • 18 times, 15 sec (Φ32 steel) • 18 times, 14 sec (Φ28 Rebar)
Accessories Included	2 x battery, battery charger, adaptor 220 V
Dimension	832 x 215 x 275 mm
Weight	19 kg (include battery)

Electro Hydraulic Spreader



SPECIFICATION

Operation By	Battery
Battery Power	28 V, 5 Ah
Working Pressure	72 Mpa (720 bar)
Max. Expansion Distance	640 mm
Max. Expansion Force	60 kN
Max. Traction Distance	530 mm
Max. Traction Force	60 kN
Accessories Included	2 x battery, battery charger, adaptor 220 V
Dimension	920 x 290 x 275 mm
Weight	24 kg (include battery)

Electro Hydraulic Cutter Spreader



SPECIFICATION

Operation By	Battery
Battery Power	28 V, 5 Ah
Working Pressure	72 Mpa (720 bar)
Cutting Capacity	Φ30 (Steel Q235A), Φ25 (20MnSi Rebar)
Max. Cutting Force	385 kN
Max. Expansion Distance	355 mm
Max. Expansion Force	45 kN
Max. Traction Distance	270 mm
Max. Traction Force	50 kN
Accessories Included	2 x battery, battery charger, adaptor 220 V
Dimension	832 x 215 x 275 mm
Weight	20 kg (include battery)