



Schmitz[®]
FIRE & RESCUE





HISTORY

ESTABLISHED: MR. HERMANN SCHMITZ- 1934

PRODUCED: FIRE APPLIANCES- 1960

THE CURRENT MANAGING DIRECTOR:

MR. DIRK SCHMITZ- REPRESENTS THE 3RD
GENERATION OF THE SCHMITZ FAMILY BUSINESS.
DEVELOPED SCHMITZ ONE SEVEN SYSTEM IN 1995
EXPORT OF SCHMITZ PRODUCTS TO CHINA IN 1996
CHINA HAS BECOME ITS MAJOR MARKET.
NEWLY SET-UP CHINESE JOINT VENTURE
COMPANY- "SHANGHAI ZHENDAN-SCHMITZ FIRE
FIGHTING EQUIPMENT COMPANY"



ABOUT **Schmitz**[®]

FIRE & RESCUE

Founded:	April 1969
History:	Traced back to 1918 – Shanghai Fire Equipment Factory -95 Years of Solid Historical Heritage
Capability:	Fire Equipment & Supply to China Military Force
Manufactured:	Many Domestic Void
Location:	32 Beinei Road
Capital:	RM 101 Million
Space Capacity:	11,000 M2 Floor Space – 400 sets of Production Equipment & 1,000 Fire Truck Annually
Service:	Capable of Providing Complete Range of Fire Equipment
Mission:	Strengthen Domestic Market & Expand Internationally
How:	Innovation Driven & Provides Quality That Sells and That Satisfies Customers
Talent:	The Best of the Best Have Merged



JOINT VENTURES

- Serves the dynamically growing Chinese market with high-end, high-quality German fire trucks, made in China.
- The close partnership with publicly noted supplier of high-quality hydraulic working platform manufacturer “Xuzhou Handler Special Vehicle Company” allows the perfect combination of sophisticated German Technology and high-quality manufacturing.
- The Joint-Venture allows Schmitz to improve on its nationwide service making use of the well-established Handler service network

LOCATION: XUZHOU / CHINA



- Production of fire-fighting vehicles and robots
- State-of-the-art pump test bench for pumps up to a capacity of 40,000 l / min
- State-of-the-art paint shops and preparation hall
- Storage areas for equipment and devices
- Administration, Development and Sales
- Training and Education Support



BEST COMPRESSED AIR FORM SYSTEM WORLDWIDE

Since 25 years fire brigades all over the world fight fires with **ONE SEVEN**

Thousandfold practical experience has been integrated into the further development of our unique **ONE SEVEN** system and has made **ONE SEVEN** the best compressed air foam system in the world.

Firefighters from Europe, Asia and Middle East do not want to miss **ONE SEVEN** in a case of fire since they are convinced of and enthusiastic about the uniqueness and the efficiency of the technology.



Worldwide Technology Leader –Why?

- Unmatched fast extinguishing success even with low personnel deployment
- Unmatched 98 % less foam agent consumption
- Unmatched 75 % less water consumption
- Unmatched constant foam quality
- Unmatched high mobility due to extremely light hose lines
- Unmatched long-lasting adhesion of the extinguishing foam to
- combustible material and its environment
- Unmatched reliability due to permanent monitoring of system components
- Unmatched conveying lengths and heights of the foam



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OPERATION / CONTROL

- Simplest operation due to single-button-control and automatic pressure and flow control
- Highest reliability due to permanent monitoring of system components with several emergency programs
- Quick operation evaluation due to documentation in electronic log file

VEHICLE SYSTEMS

- Modular firefighting systems for any vehicle type
- Different system capacities for every purpose
- Longer operating time due to particularly efficient water and foam agent consumption

MANIFOLDS

- Guaranteed safe manifold operation
- Automatic adjustment of foam volume to the actual flow rate
- Automatic pressure and flow control

HOSE LINES / NOZZLES

- Large conveying distances over 2,000 m and large throw distances up to 25 m
- High mobility due to particularly light weight hose lines
- Convenient handling due to low flow pressure

HIGH-RISE OPERATION

- Conveying height up to 400 m with normal pressure pumps and compressors
- Effective firefighting with in fact wet foam (no dry foam!)
- All One Seven advantages reliably present for high-rise fires

FIREFIGHTING

- One extinguishing agent for fires of all kinds
- Rapid threefold extinguishing by extreme fast cooling, additional to isolation and separation effect
- Minimal water damages due to most efficient water consumption

FIREFIGHTING FORCES

- High safety level due to particularly fast temperature reduction
- Low staff deployment due to easy hose handling
- No pressure based impacts due to automatic pressure control in fractions of a second
- No danger of slipping on One Seven foam

EXTINGUISHING FOAM

- Consistent, optimal foam quality due to automatic mixing pressure control
- Excellent adhesion on walls and ceilings
- High penetration power

ONE SEVEN AT A GLANCE.

UNIQUE TECHNOLOGY AT A GLANCE.



PROPORTIONER

- Automatic adjustment of the proportioning rate when the foaming agent is changed
- No calibration effort
- Automatic priming, automatic rinsing, automatic drainage
- Permanent measurement of the flow rate of water and foaming agent
- Monitoring and indication of all operation-relevant parameters of motor and sensors
- Automatic adjustment of the flow rate in case of viscosity changes due to temperature fluctuation or change of foaming agent



MAGNETIC-INDUCTIVE SENSORS

- No moving parts that can adhere or could be damaged
- Small, compact and insusceptible to contamination design by partial volume measuring method
- Large flow measuring range
- Highly accurate measuring data



COMPRESSOR

- Compressor modules designed to meet specific requirements, thus no compressed air reservoir necessary
- Small installation volume and low weight due to compact design
- Incl. electro-pneumatic pressure control, temperature sensor with optical-acoustic warning



MAIN VALVE / PRESSURE REGULATING VALVE

- Permanent monitoring and automatic adjustment for constant inlet pressure
- No filtration required, insusceptible to contamination
- Automatic drainage
- CAN bus controlled, monitoring of the actuator



TOUCH SCREEN CONTROL PANEL

- Genuine one-touch-operation, can also be used with gloves
- Intelligent, optimized page layout with momentarily relevant control panels
- Self-explanatory icons, optimized visualization for error-free operation
- Storage of operation protocols with the most important parameters
- Error management with indication of the source of error for rapid troubleshooting and simplified service



CONTROL SYSTEM

- PLC with CAN communication
- Reliable functionality, high reliability
- Permanent monitoring of electrical components
- Monitoring of all sensors for wire breakage and damage
- Emergency programs to guarantee the continuation of the operation



MIXING PRESSURE REGULATION VALVE

- Unique One Seven mixing pressure control technology
- Guarantees a reproducible, consistent foam quality and volume
- Change of the hose line lengths has no influence on the One Seven foam quality



FOAM GENERATOR

- Variable flow control via CAN bus valves
- Automatic adjustment of foam quantity for the capacity of the selected outlet
- Re-adjustment of the foam quantity when switching between different outlets
- Each One Seven outlet is a multi-purpose outlet for One Seven wet and dry foam, water or wetting agent



AUTOMATIC VOLUME FLOW CONTROL

- Automatic regulation of foam production, appropriate to foam output
- Consistent foam quality, also in manifold operation
- Safe manifold operation



(Main Parameter)

Size (mm)	1800x1100x1400
GVW (kg)	900
Speed (km/h)	8.5
Climbing	Climb35°, Step 26°
Vertical clearance of obstacles (mm)	300
Hose	180m DN 80 water belt
Remote (m)	300m (distance)
Fuel (L)	30
Flow Rate (vs)	120 (Automatic flow adjustable)
Range (m)	90
Foam Range (m)	70
Winch Tension	1000kg (CHAMPION)

RXR-M120D FIRE-FIGHTING ROBOTS

(Functional Features)

•ATV hydraulic crawler chassis, it has climbing, cross-country ability, equipped a large imported monitor (120L/s), it also respond to large fire demand.

(Basic Configuration)

• All-terrain crawler chassis, 18KW imported diesel engine, Imported Monitor and imported traction winch.





(Main Parameter)

Size (mm)	1448x840x1020
GVW (kg)	660
Speed (km/h)	>1.6
Climbing	>35
Clearance of obstacles (mm)	>260
Remote Control (m)	>500
Flow Rate (L/s)	80
Wading Depth (mm)	>400
Ground Clearance (mm)	80
Battery Life (h)	>2
Towing Ability (m)	>70 (double-line 80 water-loading belt)
Detector	Temperature, humidity combustible gas and toxic gas
Explosion-Proof	Exd [ib] IIB 4T Gb

RXR-MC80BD
DETECTION FIRE-FIGHTING ROBOTS

(Functional Features)

- Powered by lithium battery, equipped with all-terrain surround types steel wire curtain, it has climbing, ditch ability. Using dual-band remote control technology, suitable for electromagnetic environment, Multi-functional platform design.

(Basic Configuration)

- All-terrain crawler walking mechanism chassis, 2KW high-power drive motor and 80L/s monitor.





(Main Parameter)

Size (mm)	2000x1100x1400
GVW (kg)	1000
Speed (km/h)	10
Climbing	Climb 35°
Clearance of obstacles (mm)	300
Towing Ability (m)	200m DN80 water belt
Remote Control (m)	> 300m (visual range)
Flow Rate (L/s)	60 (automatic flow adjustable)
Range (m)	70
Foam Range (m)	60
Winch Tension (kg)	1000
Arm Max Lifting	220

RXR-JM220D FIRE-FIGHTING ROBOTS

(Functional Features)

- It can replace fireman to enter dangerous places by remote control.

(Basic Configuration)

- All-terrain crawler walking mechanism chassis, 18KW imported diesel engine, Imported hydraulic rescue arm, monitor and traction winch



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(Main Parameter)

Size (mm)	2600x1470x1710
GVW (kg)	1860
Ground Clearance (mm)	180
Climbing	Stair 26°, Slope 35
Speed (km/h)	0-4.5 (Drag water belt under working conditions)
Control	Cable or Remote Control
Protection	Mist Water selfprotection device
Flow Rate	80L/s
Range	70 m
Ratio of Water to Foam	30 times
Foam Production	144000L/min

RXR-M80D FIRE-FIGHTING ROBOTS

(Functional Features)

- ATV hydraulic crawler chassis, it has climbing, cross-country ability, Equipped with imported 80L/s large monitor, especially suitable for large fire.

(Basic Configuration)

- All-terrain crawler chassis, Imported 56KW diesel engine and one imported large monitor.





(Main Parameter)

GVW(kg)	220
Size (mm)	Lenght 1410xWide800xHeight780
Ground Clearance (mm)	115
Climbing (°)	Slope 30
Speed (km/h)	0-6 (no-level speed)
Battery Life (h)	1 (continuous)
Protection	Auto Body Spray Protection System
Control	Remote Control (>300m)
Flow Rate (L/s)	60 (automatically adjustable)
Range (m)	>65

RXR-M60D FIRE-FIGHTING ROBOTS

(Functional Features)

- Powered by lithium battery, motor driven, equipped with all-terrain track, Flexible and has one imported 60L/s monitor.

(Basic Configuration)

- All-terrain crawler chassis, 1700W drive motor and equipped with one imported monitor.





(Main Parameter)

GVW	2650
Size	3100x1650x1975
Engine Power	78KW
Ground Clearance (MM)	180
Clearance of obstacles (mm)	180
Climbing (degree)	0-4.7
Speed (km/h)	Cable and Remote Control
Control	35
Fan Power (m3h)	60000
Fan Flow Rate (L/min)	300
Fan Range (m)	>30
Hammer Frequency (bpm)	800-1400
Max Lifting (Kg)	>200
Flow Rate (L/S)	24~80
Range (m)	>80
Foam Range (m)	>60
Foam Flow Rate (m)	64

RXR-M80D FIRE-FIGHTING ROBOTS

(Functional Features)

- ATV hydraulic crawler chassis, it has climbing, cross-country ability, Equipped with imported 80L/s large monitor, especially suitable for large fire.

(Basic Configuration)

- All-terrain crawler chassis, 56KW diesel engine and one imported monitor.





(Main Parameter)

Size(mm)	2600x1470x1710
GVW (kg)	1860
Ground Clearance (mm)	180
Climbing	Stair 26°, Slope 35°
Speed (km/h)	0-4.5
Control	Cable and Remote Control
Protection	Mist Water selfprotection Device
Flow Rate (L/s)	120
Foam Range (m)	70
Water Range (m)	90

RXR-M80D FIRE-FIGHTING ROBOTS

(Functional Features)

- ATV hydraulic crawler chassis, it has climbing, cross-country ability, Equipped with imported 80L/s large monitor, especially suitable for large fire.

(Basic Configuration)

- All-terrain crawler chassis, 56KW diesel engine and one imported monitor.





(Main Parameter)

Size(mm)	2600x1470x1710
GVW (Kg)	1860
Ground Clearance (mm)	180
Climbing	Stairs 26°, Slope 35°
Speed (km/h)	0-4.5
Control	Cable and Remote Control
Protection	Mist Water Selfprotection
Flow Rate (L/s)	180
Foam Range (m)	105
Water Range (m)	115

RXR-M80D FIRE-FIGHTING ROBOTS

(Functional Features)

- ATV hydraulic crawler chassis, it has climbing, cross-country ability, Equipped with imported 80L/s large monitor, especially suitable for large fire.

(Basic Configuration)

- All-terrain crawler chassis, 56KW diesel engine and imported monitor.



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(Main Parameter)

GVW (kg)	2150	
Size (mm)	2330x1500x2250	
Engine (kw)	78	
Ground Clearance (mm)	180	
Climbing (°)	30	
Speed (km/h)	0-4	
Control	Cable or Remote Control (>300M)	
Protection	Mist Water Selfprotection Device	
Fan (m3/h)	90000	
Fan Flow Rate (L/min)	>420	
Fan Range (m)	>50	
Monitor	Flow Rate (L/s)	24-80
	Range (m)	>80
Foam Monitor	Range (m)	>60
	Flow Rate (L/s)	>60

RXR-M70D FIRE-FIGHTING ROBOTS

(Functional Features)

- ATV hydraulic crawler chassis, it has climbing, cross-country ability, Discharging smoke, spray, cooling with large flow fan.

(Basic Configuration)

- All-terrain crawler chassis, 78KW diesel engine and 90000m3/h fan.





(Main Parameter)

Size(mm)	>3500mm x 2000mm x 1800mm
GVW	>7T
Speed	4.5km/h
Climbing	25°
Pump Flow Rate	20L/s@1.0MPa
Monitor Flow Rate	1140L/min
Range	>50m
Rotation Angle	348° -45° ~ +90°
Remote Control	300m

RXR-M20D

MULTI-FUNCTION FIRE-FIGHTING ROBOTS

(Functional Features)

- Robots carry one 2 tons water tank. Do not need water supply. In some cases, the arm can extend into the room or window for fire fighting.

(Basic Configuration)

- All-terrain crawler chassis, 141KW Diesel engine, pump, 2 tons tank, 30000m³/h fan and monitor.





CASES

Schmitz FIRE & RESCUE

Cases



(JIANGSU JINGJIANG) (1)



(JIANGSU JINGJIANG) (2)



(JIANGSU YANGCHENG)



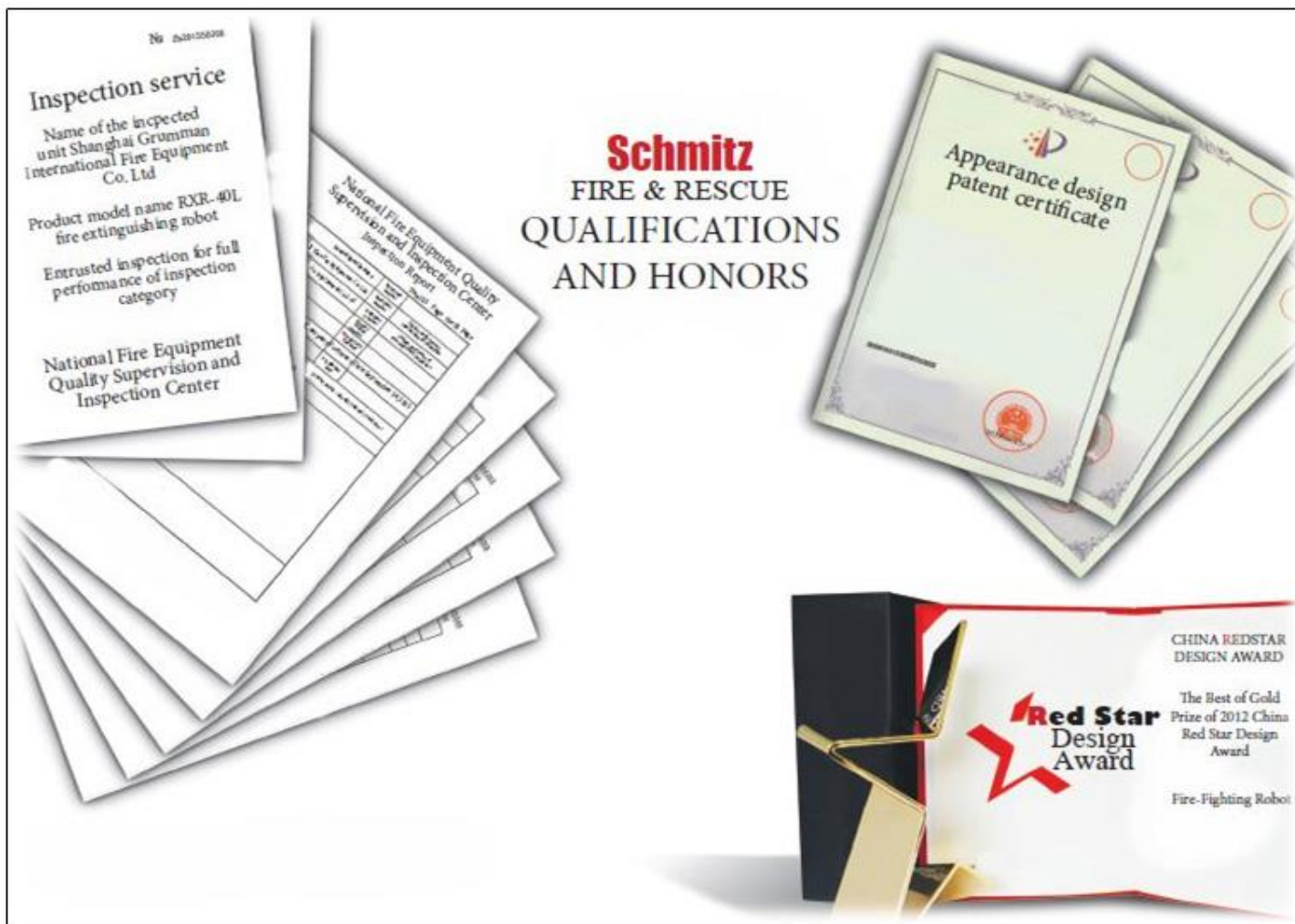
(JIANGSU JINGJIANG) (3)



SONGJIANG ROBOT DRILL



AWARDS



GET IN TOUCH WITH US

BOGAM CORPORATION

Established:

- Gee Seng Engineering-1962
- Kejuruteraan & Alat-alat ganti Bogam Sdn-1990
- Bogam Corporation Sdn Bhd- today

Produced:

- provide repairing service for heavy machinery & professional engineering workmanship. services & products which supply the whole nationwide.
- This company provides ONE WINDOW SERVICE to the customers as it active in trading and serves mechanical service.

Mission:

- supplier of quality heavy equipment , product support and engineering of superior value and to make a sustainable future real for everyone.

Vision:

- Company is to be a dynamic industrial product with core business in heavy equipment and machinery, power, oil & gas and support engineering, truck generator/genset, capable of delivering effective and sustainable growth and returns to our stakeholders.

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