

# NMFiRE



The protection of life and property is not just a promise

New face Same dream





# No More Fire

NMFIRE



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need  
Fire-  
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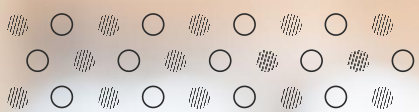
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Exhibitions



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# Why we need Fire-fighting?





## Fire - devil and angel



Notre Dame  
de Paris



Warming

## Fire Fighting--The last protection for life and possession





# 1. Why Fire-fighting?



**Fire pump** is the heart of Fire-fighting System

# Three ways to put out the fire

- (1) Water } Need pump } (1) Water fire pump
- (2) Foam } } (2) Foam pump
- (3) Gas → No need pump



**NMFIRE** focuses on manufacture of fire-fighting pumps to putting out the fire by water



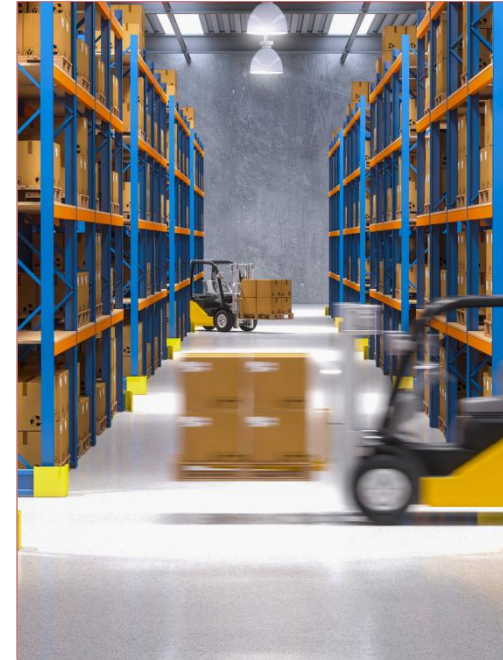


## The symbol of modern Civilization--City and Industry



### APPLICATION Commercial Fire Fighting

Hotels, Hospitals, Supermarkets, Metro stations, Airports, Office buildings, Schools, Warehouses etc.



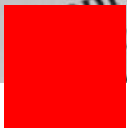
# 1. Why Fire-fighting?

## Industrial Fire Fighting



Petrochemical, Power Plant,  
Industrial enterprises, Electronics Industry,  
Sea port and Dock, Offshore Platform, etc.





# Why UL/FM and NFPA20

**NMFiRE**

## 2. Why UL/FM and NFPA20?

# The most developed area in the world



**Chicago**-the Representative of Industrial Area.

**New York**-the Representative of Commercial Area.

The Head Office of UL is in **Chicago**.

Head office of FM is in Rhode Island, North Area of **New York**.

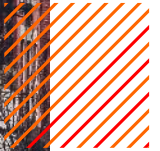
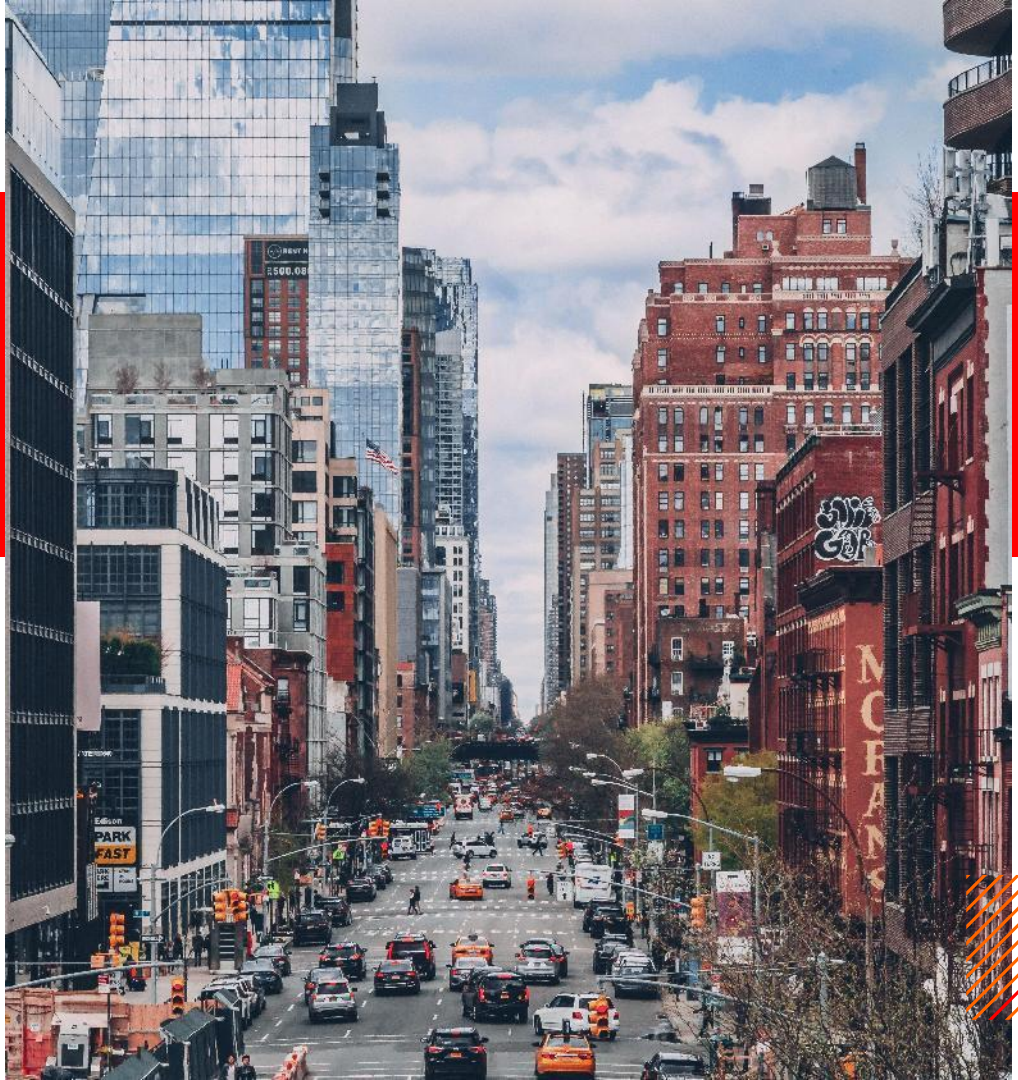


# New York

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**New York**-the Representative of Commercial Area.

Head office of FM is in Rhode Island, North Area of **New York**.





# Chicago-the Representative of Industrial Area.

The Head Office of UL is in Chicago.

# The main standard of fire fighting in the world

Highest class



Medium class

EN12845



Domestic class





## 2. Why UL/FM and NFPA20?



Chicago Fire in 1871.

## 2. Why UL/FM and NFPA20?

### Since 1894

UL is short for laboratory of American underwriters, which is a kind of certificate regarding security identify.

UL

It is one of the biggest non-governmental institutions which works for security test and identify, it is an independent third-party testing institution and also is the professional unprofitable institution for public security test.

The service of institution includes products inspection, factory inspection, the publication of documents and standards, certificate for the products security and operation safety.



## 2. Why UL/FM and NFPA20?

### Since 1886



**YOUR  
PASSPORT  
TO  
GLOBAL  
MARKETS**

FM(Factory Mutual) is the global No.1 industrial and commercial property insurance company.  
FM(Factory Mutual)

In order to make clients finding high quality products, FM Approvals was set up under FM Global , the birth and exist of FM Approvals is just for the clear aim of certificate for the real excellent product, help clients with the protection of their property.

the certificate of FM Approvals is generally admitted all over the world,which makes clear that the product or service has passed the test of American or international standards.





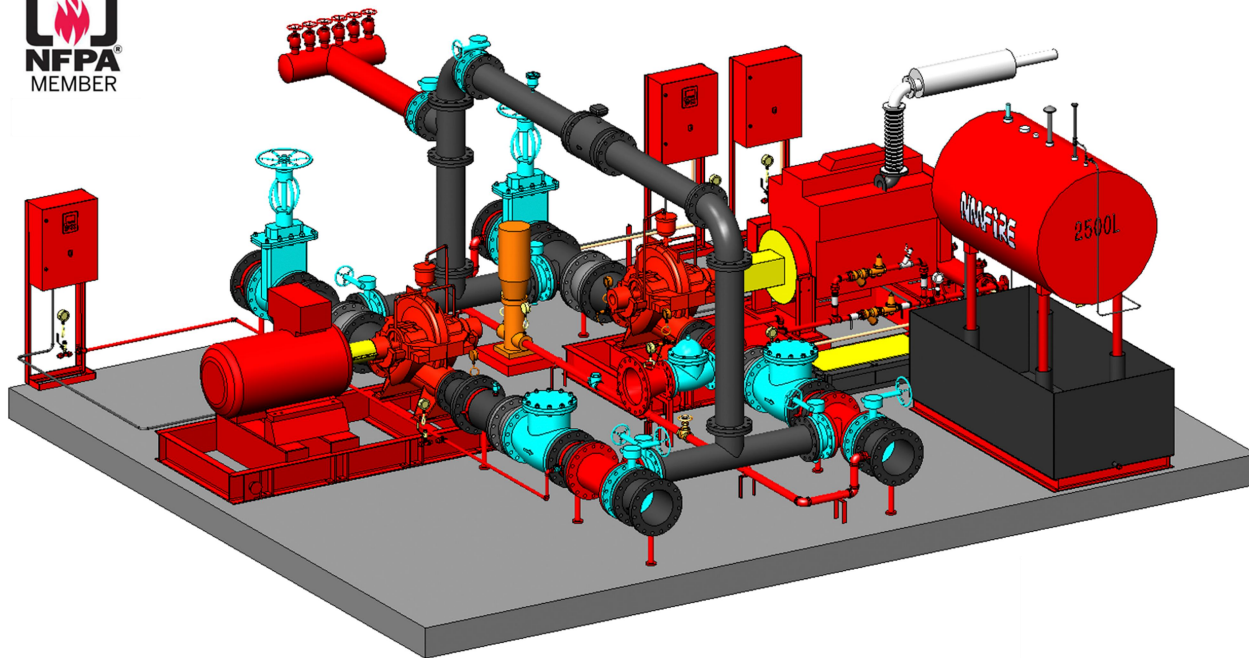
# NFPA20

Since 1896

NFPA( National Fire Protection Association ), which mainly lay down Fire codes,standards,operating instructions,manuals and guidelines etc.

NFPA20 is a specialized standard for the designation and installation of fire pump groups.





A complete set of NFPA20  
fire fighting pump package

Include: Main pump,  
Diesel Engine, Electric  
Motor, Control Panel,  
Fuel Tank, Jockey Pump,  
Coupling and driven shaft,  
All kinds of different  
Valves, Flow Meter and  
Testing head

NFPA20

NMFIRE

## 2. Why UL/FM and NFPA20?

NMFire



The game rules of **UL/FM & NFPA20**

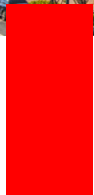




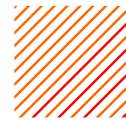


**Why choose  
NMFIRE?**

**NMFIRE**



**Factory area exceeds 100,000 m<sup>2</sup>**







# CNP NMFIRE

CNP and NMFIRE set up a cooperative enterprise in October, 2013. introducing some experienced talents with international first-class technical level. The designation and production of the products are strictly consistent with requirements of international certificates, for changing the backward conditions in domestic market.

**NMFIRE**



# 3. Why NMFIRE?



Certificate CN1400955

The management system of

## CNP NM FIRE FIGHTING SYSTEM CO., LTD.

Factory Area of CNP Changsha Co., Ltd. No.45 Xichong Road, Quantang Street, Changsha Economic & Technological Development Zone, Changsha City, Hunan Province, P.R. China  
 Unified Social Credit Code 914301008132292F

has been assessed and certified as meeting the requirements of

### ISO 9001:2015

For the following activities

**Design and manufacture of fire pump set**

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the registration

This certificate is valid from 12 August 2017 until 11 August 2022 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 3. Certified since 12 August 2014

Authorized by



SGS United Kingdom Ltd  
 Rosemead Business Park, Epsom Road, Chertsey, Surrey, UK  
 T +44 (0)181 3024900 F +44 (0)181 3024903 www.sgs.com  
 The certification information can be verified on the web site of Certificates and Accreditation Administration of the People's Republic of China www.ccaac.org.cn

SGS 9001 2015 1013

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## MANAGEMENT SYSTEM CERTIFICATE



Registration No. 2791900E10089ROM

We hereby certify that

### CNP NM FIRE FIGHTING SYSTEM CO., LTD.

Registration Address: No. 40 Xi Chong Road, Quan Tang Street, Changsha, Hunan, 410100, P.R. China  
 Business Address: No. 45 Xi Chong Road, Quan Tang Street, Changsha, Hunan, 410100, P.R. China

Its environment management system meets the requirements of the  
 GB/T 24001-2016 / ISO 14001:2015

The environment management system applies in the following areas:

*Design, Manufacture, Sales of Pump Products and Fire Fighting Pumps, Fire Fighting Diesel Engines and Fire Fighting Control Cabinets and Related Management Activities*

(Administrative licensing requirements, according to the scope of administrative license)

Date of Issuance: June 27th 2019  
 Date of Expiry: June 26th 2022

General Manager: 

This certificate is only valid when it is used with the original <small>-the notification of the keeping register certificate</small>- which is awarded after passing the annual inspection

Beijing EME-CYBER Inspection Certification Co., Ltd.  
 Room 1102 Dabing Office Building, No. 44 Chongwenmen Avenue, Dongcheng District, Beijing, 100040, P. R. China. Website: www.emecc.com  
 Certificate Search Website: http://cx.emecc.com



## MANAGEMENT SYSTEM CERTIFICATE



Registration No. 2791900S10089ROM

We hereby certify that

### CNP NM FIRE FIGHTING SYSTEM CO., LTD.

Registration Address: No. 45 Xi Chong Road, Quan Tang Street, Changsha, Hunan, 410100, P.R. China  
 Business Address: No. 45 Xi Chong Road, Quan Tang Street, Changsha, Hunan, 410100, P.R. China

Its occupational health and safety management system meets the requirements of the  
 GB/T 28001-2011 Standard. (The standard covers all technical requirement of OHSAS 18001:2007 Standards).

The occupational health and safety management system applies in the following areas:

*Design, Manufacture, Sales of Pump Products and Fire Fighting Pumps, Fire Fighting Diesel Engines and Fire Fighting Control Cabinets and Related Management Activities*

(Administrative licensing requirements, according to the scope of administrative license)

Date of Issuance: June 27th 2019  
 Date of Expiry: March 11th 2021

General Manager: 

This certificate is only valid when it is used with the original <small>-the notification of the keeping register certificate</small>- which is awarded after passing the annual inspection

Beijing EME-CYBER Inspection Certification Co., Ltd.  
 Room 1102 Dabing Office Building, No. 44 Chongwenmen Avenue, Dongcheng District, Beijing, 100040, P. R. China. Website: www.emecc.com  
 Certificate Search Website: http://cx.emecc.com





**NFPA** membership company

**NM****FIRE**

As a member of FM Approvals advisory Council committee, Mr. Liu Weiping, General Manager of CNP NMFIRE has been invited to attend 2017 Combined Advisory Council meeting held in Boston.





We are also a member of the EFSN and we are the only one who is non-European and American member of it.



 EUROPEAN FIRE  
SPRINKLER NETWORK

*recognises*

*NM Fire Pumps*

*as a manufacturer member in good standing,  
entitled to the attendant rights of membership*

*Granted 11 July 2018*



*[Alan Brinson, Executive Director]*

### 3. Why NMFIRE?

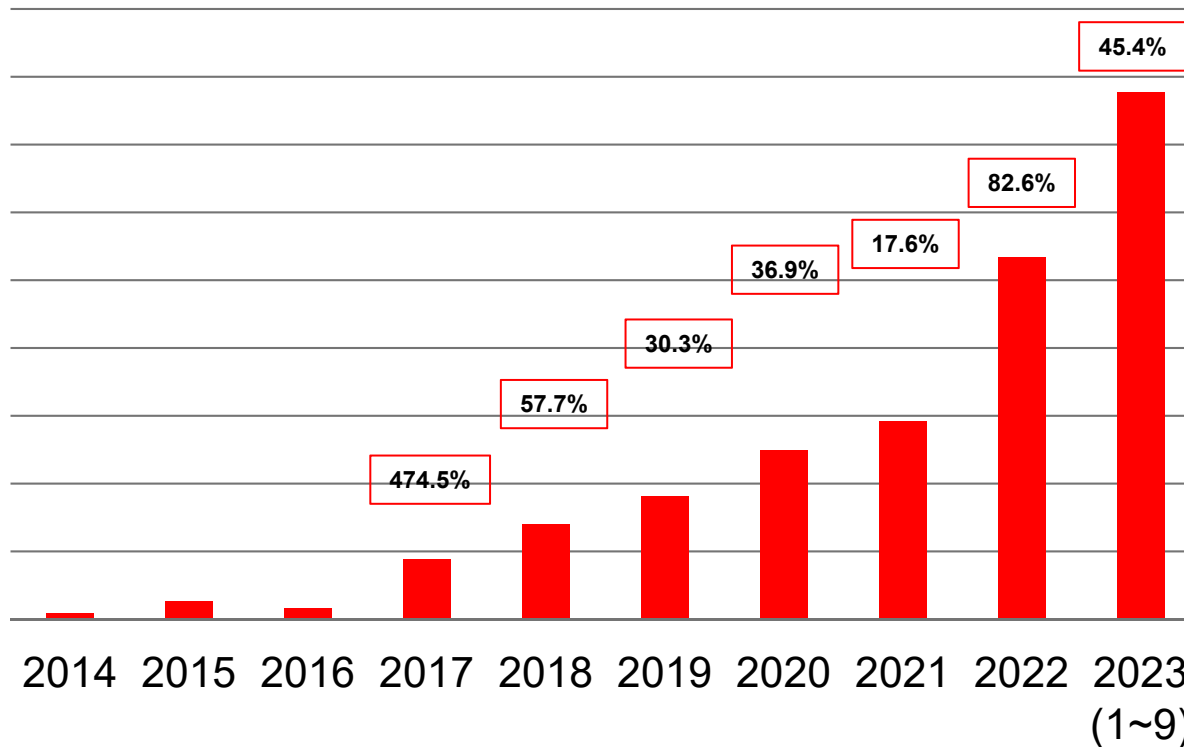


**EFSN Conference 2019**



**EFSN Conference 2023**

## 2014~2023: Signed Sales Contract Data







### Five Advantages of CNP NMFIRE

- ① The late-mover advantage of products, we R&D better fire products than other Suppliers;
- ② Have the most complete and all series of fire pump models;
- ③ Have listed diesel engines with self-owned brand--- NMFIRE;
- ④ Understand the technology of fire- fighting products and fire- fighting system better than other competitors and have better services
- ⑤ Shorter delivery time.



# Five advantages:

① the late-mover advantage of products



(1) Have complete, professional, first-class NFPA20 standard and UL/FM certification as our guide of manufacture ;

(2) American/European competitors firstly entered into the fire-fighting business, so we can learn from their experience to improve our fire-fighting products by absorbing the essence and discarding the dross (e.g. compare American engine with NMFIRE engine), we are standing on these Giants' shoulder to grow up and become better.

**NMFIRE**

# Pumps applied for UL/FM certificates

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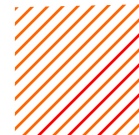
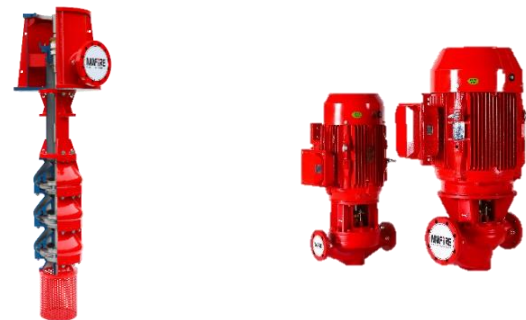
our Listed pump and Standard fire pump

Pump: UL 448  
FM1311 (split case),  
FM1312 (vertical turbine),  
FM1319 (end suction)  
FM1371 (In-line type)

Engine: UL 1247  
FM1333

Package according to NFPA20

Gear Box: FM 1338





# 3. Why NMFIRE?



The protection of life and property is not just a promise

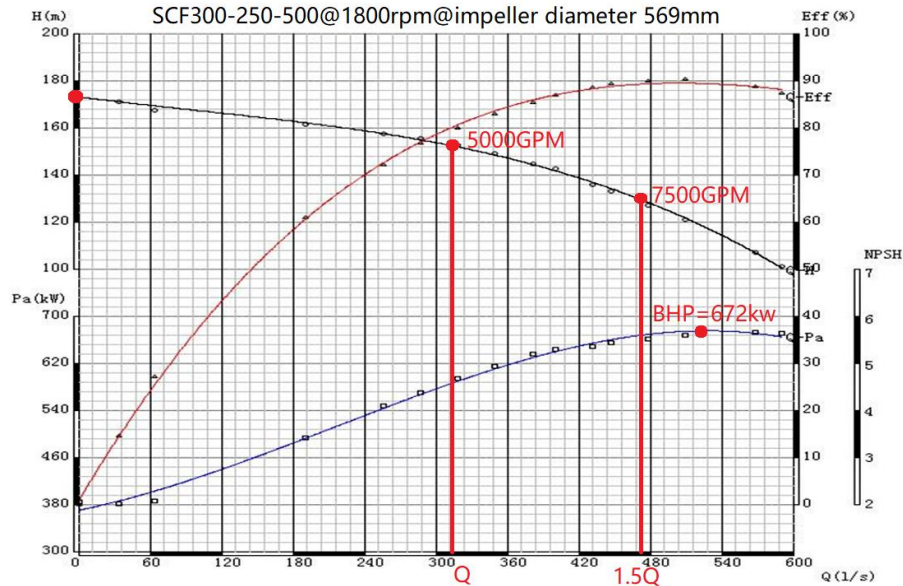
The experienced NMFIRE technical team, using CFD and 3D printing technologies, repeatedly improved and tested the appropriate hydraulic model and developed a number of enhanced hydraulic models that meet the requirements of fire pump characteristics.

For more than nine years, we have successfully developed various fire pump products and ensured that each product has ultra-low BHP, greatly enhancing the competitiveness of our certified fire pumps in the global marketplace.



# UL/FM Fire Pump

Focus on safety and reliability (short-time running)



1: Working point is different.

Fire pump : highest efficiency point is near 1.5Q

- No cavitation, no influence on water absorption performance
- NPSHr curve is not required

2: Matching power is different

Fire pump :

- Matching power ensures no overload at any flow rate

3: Hydraulic design is different

Fire pump :

- The power curve is required to have an inflection point
- The front end of curve is flat, after 1.5Q, curve fall steep

4: Strength design is different

Fire pump : (Shut off head + 50m) x 2

5: Seal form is different

Fire pump : Soft packing in principle

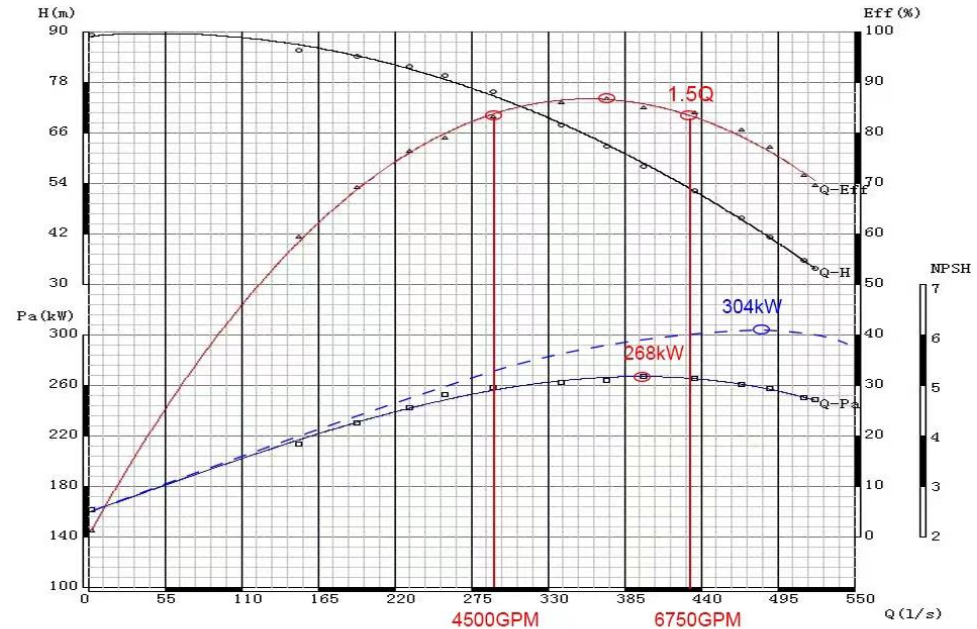
# Why NMFIRE pump BHP is smaller?

## 1: Best Hydraulic design

The Max. BHP point of new generation SCF pump is mostly near the maximum efficiency point (near the 140% of Rated Flow point), while the Max. BHP of our competitors are mostly at 160% to 170% of Rated Flow. So their matching power is mostly higher than ours.

## 2: High efficiency, reduce the matching power again.

## 3: Pump cavitation performance is very good, to ensure that the small size pump can be used for big flow rate.



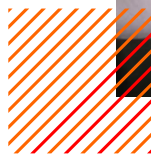
UL / FM SCF300-250-500(1450rpm 4500gpm)

# How we did it?

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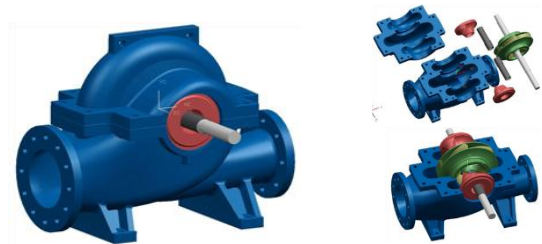
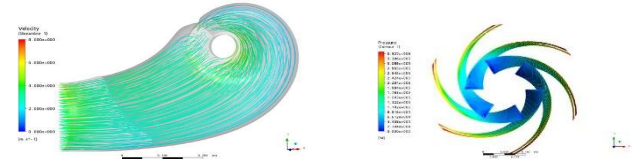
1. The CFD technical transformation obtained the most excellent hydraulic model, which ensured the lowest BHP.
2. 3D design and printing technology, manufacturing high-precision impeller and pump mold, first-class casting technology and equipment to ensure the quality of product parts and product quality.







## CFD (computational fluid dynamics) & 3D design



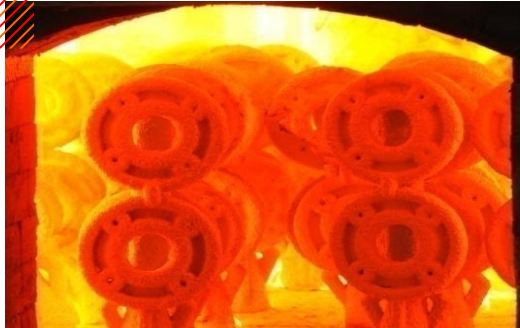
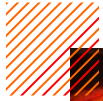


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**Metal patterns processed by  
CNC center.**



### 3. Why NMFIRE?



**Advantaged stainless steel and whole ludox with medium temperature wax casting technology**

**Automatic molding line, Automatic sand processing production line**

**Intermediate frequency melting furnace, VOD refining furnace. Etc**

# Material Test Equipments



Magnetic Particle Flaw Detector



Three-Coordinate Measuring Instrument



X ray detector



# Material Test Equipments



Brinell Hardness Tester



Strength Tester



Spectrometer

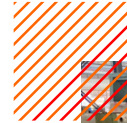


Punching Test Machine

## Dynamic Balancing Test



## Machining of impeller



# 3. Why NMFIRE?



# Testing Bench



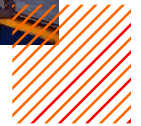
## 1.Pump Testing bench

- Crane can lift 50 tons
- The maximum lifting height is 14 meters.
- Test pool is 8,000 m<sup>3</sup>, 14 meters by depth.
- The maximum test power is 5000 kW.
- Test can meet different standards and requirements.
- All tests can be automatically operated, it is convenient to get accurate and reliable test data,according to ISO9906-1999 1- level precision requirements.
- 60Hz testing up to 4000kw.





## 2. Diesel engine testing bench





## Five advantages:

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②the most complete and all series of fire pump models



### End Suction Pumps

Q:50-2500GPM

H:69-192PSI

Speed:2980-3550RPM



### Split Casing Pumps

Q:300-8000GPM

H:50-570PSI

Speed:1480-3550RPM



### Vertical Turbine Pumps

Q:100-7500GPM

H:40-377PSI

Speed:1480-2900RPM



### Vertical In-line Pumps

Q:50-1500GPM

H:40-198PSI

Speed:1760-3570RPM





**Max flow: 8000gpm**

**Max pressure: 570psi**

**NMFIRE**





## Five advantages:

③listed diesel engines with self-owned brand--- NMFIRE

NMFIRE Engine  
Power range: 51~1207HP  
Speed range: 1470~2950RPM

**NMFIRE**







# Five advantages:

④ understand the technology of fire-fighting products and fire-fighting system better than other competitors and have better services

- For the last five years, through the mutual learning of NMFIRE team, the communication and training with American engineers from UL/FM, we have learned and known how to apply the whole NFPA20 standard, and the requirement of UL/FM.

Our pump sets and package systems are all designed and assembled in accordance with NFPA20, the main parts like pump, diesel engine, motor, control panel are UL/FM listed, after deeply R&D, our pump models have lower BHP than competitors.



# 3. Why NMFIRE?



NFPA organization member certificate of NMFIRE Engineer

# 3. Why NMFIRE?

# NMFIRE



**ANSI/CAN/UL  
448:2022**

JOINT CANADA-UNITED STATES  
NATIONAL STANDARD

**STANDARD FOR SAFETY**

Centrifugal Stationary Pumps for Fire-  
Protection Service



SCC CEN

ANSI/CAN/UL 448 DECEMBER 7, 2022

**STP-448 Membership Continued**

Name	Representing	Interest Category	Region
Edwards, GWF	UL Standards & Engagement	STP Project Manager – Non-voting	USA
Hatbrook, Diane	UL Standards & Engagement	STP Chair – Non-voting	USA
Hall, Kevin	American Fire Sprinkler Association	General	USA
Hennigan, Michael L.	M-C Fire Protection Ltd.	Supply Chain	Quebec
He, Qiny	Talco Fire Systems	Producer	USA
Kunel, Ryan	Minnesota Department of Public Safety	AHJ/Regulator	USA
McCubough, Rick	self	General	Saskatchewan
Parmentier, Steven	Intertek	Testing and Standards	USA
Peng, Jie	CSP Fire Fighting System Co. Ltd.	Producer	China
Pitts, Maurice	Mechanical Design's Ltd.	General	USA
Ruggieri, James	General Machine Corp.	General	USA
Ryckman, Jason	Canadian Automatic Sprinkler Association	General	Ontario, Canada
Savage Sr., Michael	City of Rio Rancho	AHJ/Regulator	USA
Scott, Kevin	KH Scott & Associates	AHJ/Regulator	USA
Simone, Joseph	Norval Facilities Engineering	Government	USA
Staler, William F.	Master Control Systems Inc.	Supply Chain	USA
Yung, Chu	Electrical Appliance Service Association	General	USA

International Classification for Standards (ICS): 13.220.20

For further information on UL standards, please contact:

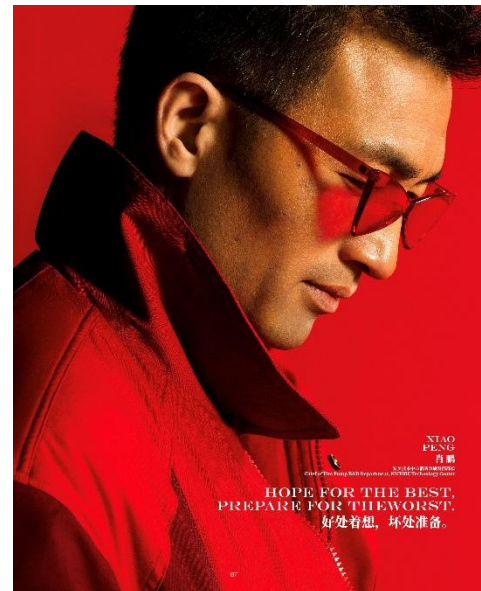
Underwriters Laboratories, Inc.  
Telephone: (615) 755-2729  
E-mail: ULStandards@ul.com  
Web site: ulse.org

This Standard is intended to be used for conformity assessment.

The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

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Set up training,  
Longstanding sponsor of Association's academic activities

We set the national fire pump industry standard.



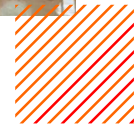




## NMFIRE 2018 International Training Conference



# NMFIRE 2019 International Training Conference







# FM Fire Pump Certification



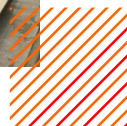




泵型号 Pump Model: 250VTP400-28/250VTP550-26

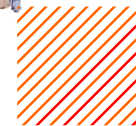
序号 No.	部件名称 Part name	材料material I		材料material II		材料material III	
		材质牌号 Material	屈服强度 $\sigma_{0.2}$	材质牌号 Material	屈服强度 $\sigma_{0.2}$	材质牌号 Material	屈服强度 $\sigma_{0.2}$
1	滤网SUCTION STRAINER	SS304	205MPa	S32205	450MPa	S32205	450MPa
2	吸水喇叭口SUCTION BEL	1030	315MPa	S32205	450MPa	S32205	450MPa
3	导叶体BOWL	70-50-05	320MPa	S32205	450MPa	S32205	450MPa
4	密封环Wear Ring	C83600	241MPa	C83600	241MPa	S32205	450MPa
5	叶轮Impeller	SS304	205MPa	S32205	450MPa	C95800	240MPa
6	扬水管UPPER CASING	1030	315MPa	S32205	450MPa	S32205	450MPa
7	出水弯头DISCHARGE HEA	1030	315MPa	S32205	450MPa	S32205	450MPa
8	轴SHAFT	AISI416	$\sigma_{0.2} \geq 345\text{MPa}$	S32205	$\sigma_{0.2} \geq 450\text{MPa}$	MONELK50C	$\sigma_{0.2} \geq 790\text{MPa}$
		AISI416	$\sigma_b \geq 540\text{MPa}$	S32205	$\sigma_b \geq 680\text{MPa}$	MONELK50C	$\sigma_b \geq 1100\text{MPa}$
9	叶轮螺母	SS304	205MPa	S32205	450MPa	S32205	450MPa
10	键KEY	AISI416	345MPa	S32205	450MPa	S32205	450MPa
11	轴套SHAFT SLEEVE	SS304	205MPa	S32205	450MPa	S32205	450MPa
12	导轴承Guide Bearing	Teflon	/	Thordon	/	Thordon	/
13	套筒联轴器Sleeve Coupling	AISI416	345MPa	S32205	450MPa	S32205	450MPa
14	填料函Stuffing box	70-50-05	320MPa	S32205	450MPa	S32205	450MPa
15	填料Packing	Graphite	/	Graphite	/	Graphite	/
	填料环Packing Ring	C83600	241MPa	C83600	241MPa	C83600	241MPa

## UL/FM Fire Pump Sea Water Material Certification



## UL Diesel engine (NMFIRE)

UL or NFPA 20 Compliant-non-approved  
**Power Range: 30-2000HP**  
**Speed Range: 1450-3000RPM**



2023/3/19 0718.026721 Internal-combustion Engines for Driving Stationary Fire Pumps UL Product IQ™

### QYLU.EX26721 - Internal-combustion Engines for Driving Stationary Fire Pumps

Internal-combustion Engines for Driving Stationary Fire Pumps  
**CNP NFA FIRE FIGHTING SYSTEM CO.,LTD**  
 Factory Area of CNP, Changsha Co. Ltd.  
 No.15 Xi'Chong Road  
 Quan'Yang Street, Changsha 41020  
 Changsha, Hunan 410200 China

DIESEL ENGINES RATED FOR USE WITHIN SPEED RANGES  
 Minimum Maximum

Model	No. of Cylinders	Rated Speed (rpm)	Rated HP	Rated Speed (rpm)	Rated HP
NM6-114	6	1500	719	1760	753
		1760	235	1900	268
		1900	258	2100	280
NM6-128	6	1500	400	1760	457
		1760	437	1900	460
		1900	480	2020	426
NM6-102B	6	1760	101	2100	123
		2100	123	2380	134
		2350	134	2630	148
		2650	148	2880	153
NM6-114B	6	1670	244	1760	280
		1760	280	2100	305
NM12-129	12	1540	1036	1760	1207
NM6-114C	6	1470	134	1760	221
		1760	221	2100	248
NM6-128B	6	1470	146	1760	166
		1760	166	2100	182

https://cnp.com.cn/engines.html via webid:1711\_0104P

1/3

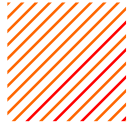
2023/3/19 0718.026721 Internal-combustion Engines for Driving Stationary Fire Pumps UL Product IQ™

NM6-128	6	1710	667	1760	688
		1760	683	2100	696
NM12-128	12	1470	688	1760	744
		1760	744	2100	758
NM4-102B	4	2200	87	2950	95
NM6-135	6	1470	340	1760	375
NM6-135B	6	1470	340	1760	338
NM10-128	10	1710	543	1760	567
		1760	567	2100	607
NM12-128C	12	1470	861	1760	1030
NM12-128B	12	1470	805	1760	878
NM6-159B	6	1470	600	1760	783
NM6-127	6	1470	436	1760	469
NM6-139	6	1470	577	1760	673
NM6-102B	6	1710	188	1760	201
		1760	204	2100	208
NM12-159B	12	1470	909	1760	1080

Model	No. of Cylinders	Rated HP	Rated Speed (rpm)
NM4-90	4	51	2950
NM4-105	4	56	2950
NM6-102	6	136	2950
NM4-102	4	94	2950
NM6-130D	6	268	2900
NM6-130E	6	192	2900
NM4-102B	4	121	2950
		151	2950
NM6-102B	6	335	2950
NM4-90B	4	61	2950

https://cnp.com.cn/engines.html via webid:1711\_0104P

1/3



## FM Diesel engine (NMFiRE)





### Certificate of Compliance

This certificate is issued for the following:  
**Diesel Engines for Fire Pump Drivers**  
(see listing attached)

**Prepared for:**  
 CNP NMFiRE Fighting Systems Co Ltd  
 No 47 3/4 Chang Road  
 Qian Yang Street  
 Changsha, Hunan 410100  
 China

**Manufactured at:**  
 CNP NMFiRE Fighting Systems Co Ltd  
 No 47 3/4 Chang Road  
 Qian Yang Street  
 Changsha, Hunan 410100  
 China

FM Approvals Class: 1333 (December 2020)  
 Approval Identification: FR-61303      Approval Granted: February 18, 2022

To verify the availability of the Approved product, please refer to [www.approvals.com](http://www.approvals.com)

Such Approvals subject to satisfactory field performance, continuing low-vibration levels, and strict conformity to the construction as shown on the Approval Details, or other revision of FM Approvals.

  
 David Fuller  
 VP - Manager of Fire Protection  
 FM Approvals  
 1111 Boston Providence Turnpike  
 Norwood, MA 02062

  
 Member of the FM Global Group



Page 1 of 3



### Certificate of Compliance

Product	Listing	Country	Rated Power, hp	Rated Power, kW	Rated Speed, r/min
NSM-90B	China	81	45	2950	
NSM-102B	China	95	71	2950	
NSM-103B	China	87	61	2300	
NSM-108B	China	117	87	2950	
NSM-109B	China	108	105	2100	
NSM-109B	China	104	112	1700	
NSM-109B	China	148	140	1470	
NSM-109E	China	115	208	2950	
NSM-110B	China	148	110	2950	
NSM-110D	China	139	178	2900	
NSM-110E	China	192	143	2900	
NSM-110B	China	207	227	2100	
NSM-114B	China	280	209	1780	
NSM-114B	China	244	182	1470	
NSM-114C	China	248	185	2100	
NSM-114C	China	221	165	1780	
NSM-114C	China	194	145	1470	
NSM-127	China	409	350	1780	
NSM-127	China	456	335	1470	
NSM-128B	China	412	367	2100	
NSM-128B	China	396	295	1780	
NSM-128B	China	346	258	1470	
NSM-131	China	375	280	1780	
NSM-135	China	340	254	1470	
NSM-135B	China	318	252	1780	
NSM-135B	China	340	254	1470	
NSM-159B	China	778	580	1780	
NSM-159B	China	680	507	1470	
NSM-159	China	673	500	1780	
NSM-159	China	337	430	1470	
NSM-124	China	496	370	2100	
NSM-128	China	483	360	1780	

  
 Member of the FM Global Group

Page 2 of 3



### Certificate of Compliance

Product	Listing	Country	Rated Power, hp	Rated Power, kW	Rated Speed, r/min
NSM-128	China	467	337	1470	
NSM-131	China	617	480	2100	
NSM-131	China	597	445	1780	
NSM-131	China	543	407	1470	
NSM-131	China	582	568	2000	
NSM-131	China	744	553	1780	
NSM-131	China	480	337	1470	
NSM-131B	China	878	635	1740	
NSM-131B	China	867	606	1460	
NSM-131C	China	1010	733	1750	
NSM-131C	China	810	604	1460	
NSM-131	China	1187	885	1780	
NSM-131B	China	1036	772	1450	
NSM-131B	China	1080	805	1780	
NSM-131B	China	959	678	1470	

  
 Member of the FM Global Group

Page 1 of 3



**CERTIFICATE OF COMPLIANCE**

Certificate Number: 20150114-R-000056  
 Report Reference: EX29530-20141231  
 Issue Date: 2015-JANUARY-14

Issued to: SHANGHAI TOP MOTOR CO LTD  
 303 KANGQI HE KANGQAO INDUSTRIAL AREA,  
 NANHE, SHANGHAI, 201315 CHINA

This is to certify that representative samples of FIRE PUMP MOTORS: T Series, TXD Series, TDC Series, TZA Series, TXD Series. See Addendum Page below for Models.

Have been investigated by UL in accordance with the Standards indicated on this Certificate.

Standard(s) for Safety: UL 1004-1, Rotating Electrical Machinery - General Requirements, UL 1004-6, Fire Pump Motors. See the UL Online Certifications Directory at [www.ul.com/certification](http://www.ul.com/certification) for additional information.

Additional Information:

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Factory Service.

Look for the UL Certification Mark on the product.



Page 1 of 1



**UL LISTING CERTIFICATION DIRECTORY**

**UL 1004-1, 1004-6, 1004-7, 1004-8, 1004-9, 1004-10, 1004-11, 1004-12, 1004-13, 1004-14, 1004-15, 1004-16, 1004-17, 1004-18, 1004-19, 1004-20, 1004-21, 1004-22, 1004-23, 1004-24, 1004-25, 1004-26, 1004-27, 1004-28, 1004-29, 1004-30, 1004-31, 1004-32, 1004-33, 1004-34, 1004-35, 1004-36, 1004-37, 1004-38, 1004-39, 1004-40, 1004-41, 1004-42, 1004-43, 1004-44, 1004-45, 1004-46, 1004-47, 1004-48, 1004-49, 1004-50, 1004-51, 1004-52, 1004-53, 1004-54, 1004-55, 1004-56, 1004-57, 1004-58, 1004-59, 1004-60, 1004-61, 1004-62, 1004-63, 1004-64, 1004-65, 1004-66, 1004-67, 1004-68, 1004-69, 1004-70, 1004-71, 1004-72, 1004-73, 1004-74, 1004-75, 1004-76, 1004-77, 1004-78, 1004-79, 1004-80, 1004-81, 1004-82, 1004-83, 1004-84, 1004-85, 1004-86, 1004-87, 1004-88, 1004-89, 1004-90, 1004-91, 1004-92, 1004-93, 1004-94, 1004-95, 1004-96, 1004-97, 1004-98, 1004-99, 1004-100**

**Fire Pump Motors**

See General Information for Fire Pump Motors

Model: 1004-1, 1004-6, 1004-7, 1004-8, 1004-9, 1004-10, 1004-11, 1004-12, 1004-13, 1004-14, 1004-15, 1004-16, 1004-17, 1004-18, 1004-19, 1004-20, 1004-21, 1004-22, 1004-23, 1004-24, 1004-25, 1004-26, 1004-27, 1004-28, 1004-29, 1004-30, 1004-31, 1004-32, 1004-33, 1004-34, 1004-35, 1004-36, 1004-37, 1004-38, 1004-39, 1004-40, 1004-41, 1004-42, 1004-43, 1004-44, 1004-45, 1004-46, 1004-47, 1004-48, 1004-49, 1004-50, 1004-51, 1004-52, 1004-53, 1004-54, 1004-55, 1004-56, 1004-57, 1004-58, 1004-59, 1004-60, 1004-61, 1004-62, 1004-63, 1004-64, 1004-65, 1004-66, 1004-67, 1004-68, 1004-69, 1004-70, 1004-71, 1004-72, 1004-73, 1004-74, 1004-75, 1004-76, 1004-77, 1004-78, 1004-79, 1004-80, 1004-81, 1004-82, 1004-83, 1004-84, 1004-85, 1004-86, 1004-87, 1004-88, 1004-89, 1004-90, 1004-91, 1004-92, 1004-93, 1004-94, 1004-95, 1004-96, 1004-97, 1004-98, 1004-99, 1004-100

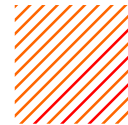
Model	Input	Volts	Hz	Phase	Speed	Service Factor	Temp. Class	Altitude	Approval
1004-1	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-2	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-3	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-4	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-5	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-6	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-7	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-8	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-9	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-10	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-11	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-12	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-13	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-14	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-15	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-16	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-17	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-18	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-19	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-20	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-21	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-22	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-23	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-24	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-25	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-26	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-27	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-28	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-29	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-30	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-31	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-32	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-33	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-34	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-35	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-36	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-39	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-40	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-41	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-42	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-43	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-46	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-47	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-48	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-49	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-50	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-51	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-71	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-72	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-73	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-75	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-76	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-82	0.18	115	60	1	1725	1.0	T	3000'	UL
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1004-85	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-86	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-87	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-88	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-89	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-90	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-91	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-92	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-93	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-94	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-95	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-96	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-97	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-98	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-99	0.18	115	60	1	1725	1.0	T	3000'	UL
1004-100	0.18	115	60	1	1725	1.0	T	3000'	UL

## UL Motor Certification





# FM Gear Box Certification





## UL&FM Controller Certification



## CERTIFICATE OF COMPLIANCE

Certificate Number: UL-US-2327128-0  
 Report Reference: EX26794-20230627  
 Date: 3-Jul-2023

Issued to: CNP NM FIRE FIGHTING SYSTEM CO LTD  
 Factory Area of CNP Changsha Co Ltd  
 No.45 Xi Cheng Road  
 Qian Tang Street, Changsha ETDZ  
 Changsha, Hunan Sheng 410100  
 China

This is to certify that representative samples of QYCA - Flexible Couplings and Connecting Shafts for Stationary Fire Pumps  
 See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 448A, Edition 2, Issue Date 2022-11-29

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Shihua Jiang  
 Director, Engineering Services, UL Regulatory Services

UL LLC

All information on this certificate, including the UL Mark, is subject to approval in writing by UL LLC and any subsequent licensee of UL. For questions, please contact your UL Customer Service Representative at [ULCustomerService@ul.com](mailto:ULCustomerService@ul.com)



### Flexible Couplings for Stationary Fire Pumps

## UL 448A



## Listed components

### Flexible Connecting Shafts for Stationary Fire Pumps

## UL 448A





## Listed components







## THE WINERY OF SUCCESS!

In the heart of the Alsace region in France, a symphony of nature and craftsmanship harmonizes to produce the world's most exquisite white wines. Local winemakers have long held the belief that exceptional wines come from the finest grapes. This timeless wisdom led them to create a classification of vineyards based on the quality of their gapes, a tradition that dates back centuries. Conventional wisdom might suggest that truly fantastic grapes would be found on hilltops as they benefit from optimal sunlight, or perhaps at the base of hills, taking advantage of the plentiful water supply. Yet, what is mystifying is that the most esteemed vineyards in this region, without exception, are located on the slopes.

These hillside plots lack abundant sunlight and plentiful water supply. The soil is thin, and beneath it lies a layer of dense limestone. The grapevines on these slopes, however, seem to defy nature itself. Their roots dig deep through the rocky layers in their fight for survival





The outcome is astounding: these vines absorb richer and more diverse nutrients than their counterparts on the hilltops or at the base. Their fruits bear testimony to this struggle. They produce the finest grapes

NMFIRE's journey parallels that of the grapevines on the slopes of Alsace. Like those vines, NMFIRE and its staff flourish a unique environment. Devoid of traditional resources such as diesel engines, controllers, fuel tanks, universal joints, and electric motors, NMFIRE has nevertheless thrived on its sheer determination and unwavering focus to get to where it is today. The fruit of the company's labor is exquisite akin to the finest wine.

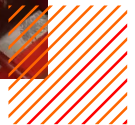
This tale, exclusively NMFIRE's, has only just begun. As time goes on, more chapters will be written, and more companies like NMFIRE will emerge. Together, they will create the most fragrant wines and write the most moving stories. We look forward to the day when we shall meet.





## Comprehensive after-sales service system

After-sales service in the global range / On-site commissioning  
Local agent can offer in a timely manner to ensure products for the future of the service







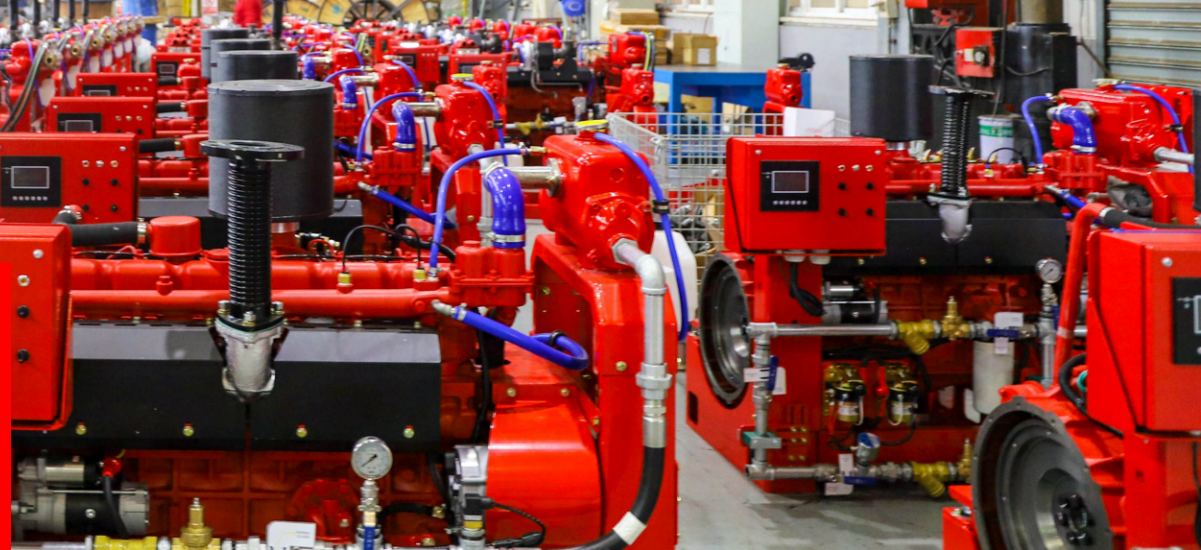
**Vulnerable part : Pump/Diesel engine /Controller**





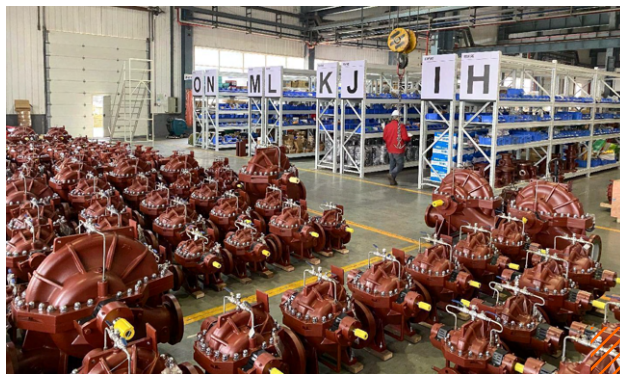
# Five advantages:

⑤ shorter delivery time



- (1) Flexible and experienced manufacturing process and skill
- (2) Reserve the stocks in time

to create a shorter delivery time





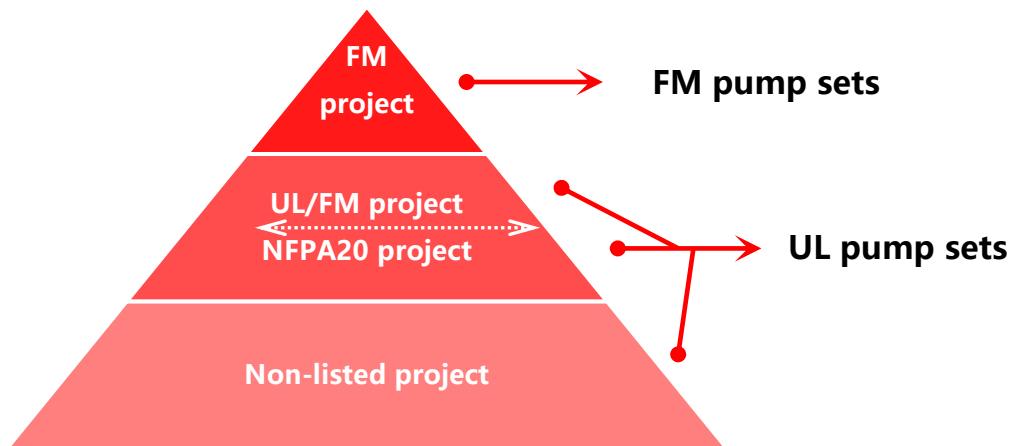
How to cooperate

with NMFiRE ?

**NMFiRE**



## 4.How to cooperate with NMFIRE ?



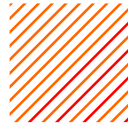
- Have a professional team
- For covering a wider market, use our products' advantages well to satisfy different requirements of different market: New business strategy---

we are mainly focusing on listed market, For UL project & non-listed project: During 50gpm to 2500gpm using our UL/FM products to cover

- ✓ UL/FM project,
- ✓ NFPA20 project,
- ✓ non-listed project.

which can provide high-quality goods with more competitive price to clients, like, if you need to buy a TOYOTA car, we can offer you a BENZ car with the same price of TOYOTA!





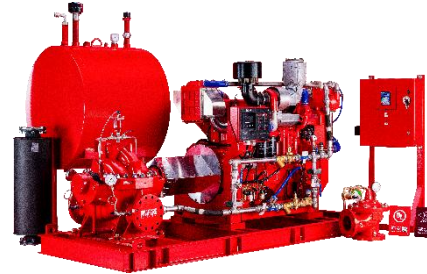
# Main products of NMFIRE , its market positioning

UL/FM listed electric motor driven pump set

UL/FM listed diesel engine driven pump set

Containerised Pump set

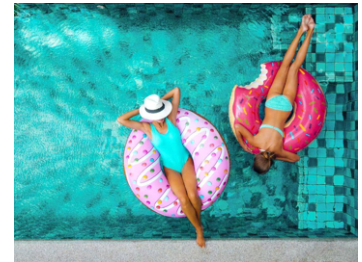
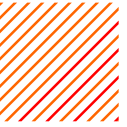
NFPA20 Package





# The Ideal of **NMFIRE**

Using the advanced technology to Protect life, love and history









**Exhibitions**

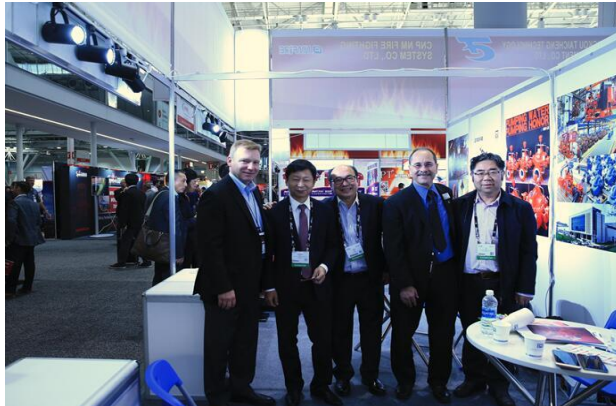
**NMFiRE**

## 2015 NFPA Exhibition in Chicago & 2016 NFPA Exhibition in Las Vegas





## 2017 NFPA Exhibition in Boston





2017 Kazakhstan International ,protection ,Security,  
Rescue and Fire Safety Exhibition.



Secutech Vietnam 2017



Secutech Thailand 2017







2018 NFPA Exhibition in  
Las Vegas

## 2019 NFPA Exhibition in San Antonio, Tx.





# Achievements







# Company Achievements



Algeria 阿尔及利亚  
Argentina 阿根廷  
Austria 奥地利  
Bolivia 玻利维亚  
Cambodia 柬埔寨  
Chad 乍得  
Colombia 哥伦比亚  
Cyprus 塞浦路斯  
Egypt 埃及  
Eritrea 厄立特里亚  
Germany 德国  
Guatemala 危地马拉  
India 印度  
Israel 以色列  
Jordan 约旦  
Korea 韩国  
Laos 老挝  
Malta 马耳他  
Mexico 墨西哥  
Mozambique 莫桑比克  
Nepal 尼泊尔  
New Zealand 新西兰  
Niger 尼日尔  
Panama 巴拿马  
Philippines 菲律宾  
Qatar 卡塔尔  
South Africa 南非  
Tanzania 坦桑尼亚  
Turkey 土耳其  
Uruguay 乌拉圭  
Vietnam 越南

American 美国  
Aruba 阿鲁巴  
Bahrain 巴林  
Brazil 巴西  
Cameroon 喀麦隆  
Chile 智利  
Costa Rica 哥斯达黎加  
Dominica 多米尼加  
El Salvador 萨尔瓦多  
Ethiopia 埃塞俄比亚  
Ghana 加纳  
Guyana 圭亚那  
Indonesia 印度尼西亚  
Italy 意大利  
Kazakhstan 哈萨克斯坦  
KSA 沙特阿拉伯  
Malaysia 马来西亚  
Mauritania 毛里塔尼亚  
Mongolia 蒙古  
Myanmar 缅甸  
Netherlands 荷兰  
Nicaragua 尼加拉瓜  
Oman 阿曼  
Paraguay 巴拉圭  
Portugal 葡萄牙  
Russia 俄罗斯  
Spain 西班牙  
Thailand 泰国  
UAE 阿联酋  
Uzbekistan 乌兹别克斯坦  
Zimbabwe 津巴布韦

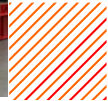
Angola 安哥拉  
Australia 澳大利  
Bangladesh 孟加拉  
Brunei 文莱  
Canada 加拿大  
China 中国  
Cote d'Ivoire 科特迪瓦  
Ecuador 厄瓜多尔  
England 英国  
France 法国  
Greece 希腊  
Honduras 洪都拉斯  
Iraq 伊拉克  
Jamaica 牙买加  
Kenya 肯尼亚  
Kuwait 科威特  
Maldives 马尔代夫  
Mauritius 毛里求斯  
Morocco 摩洛哥  
Namibia 纳米比亚  
New Guinea 新几内亚  
Nigeria 尼日利亚  
Pakistan 巴基斯坦  
Peru 秘鲁  
Puerto Rico 波多黎各  
Singapore 新加坡  
Sri Lanka 斯里兰卡  
Timor-Leste 东帝汶  
Uganda 乌干达  
Venezuela 委内瑞拉







# Construction of Service Facilities at BASF Verbund Project Base (Canton)



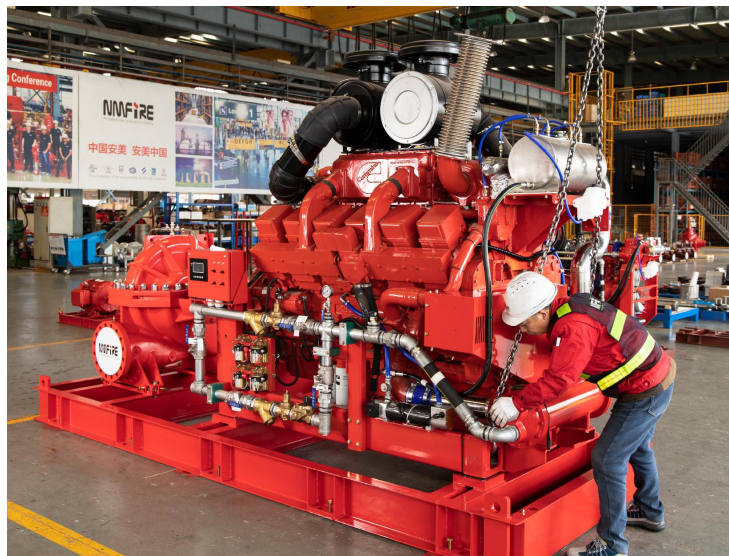
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**1.Pump: XBC8.0/140G-SCF-2900 (CCCF)**  
2220gpm/116psi  
Diesel engine: NM6-110D

**2.Pump: XBC8.0/140G-SCF-2900 (CCCF)**  
2220gpm/116psi  
Electric motor: W21 IE3 315SM-2







# Shanghai Puhang Oil Deposit Project

1.Pump: XBC16.0/300G-SCF-1760 (CCCF)  
4750gpm/232psi  
Diesel engine: KT38-P1000  
2 sets

2.Pump: XBD11.0/80G-SCF-2950 (CCCF)  
1250gpm/160psi  
Electric motor: F-TXC447TS200U2B  
3 sets

**NMFire**

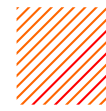




## Beijing Daxing Airport Project

Pump: SCF250-200-600  
Q=260L/s H=1.3Mpa  
Diesel: NM10-128-N  
Controller: NM.EnF.B-24-L1  
8 sets





# Germany's LPG Project

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Pump: 350VTP860-43X2  
3500gpm/172psi  
Pump length: 15.6m  
Pump's material: SS2205(Wet parts)





# Malaysia's LPG Project

1.Pump:350VTP1400-45\*2  
5000gpm/199psi  
Diesel engine: CFP23E-F70  
3 sets  
medium: seawater

2.Pump:350VTC1350-35 × 2  
6000gpm/102psi  
Electric motor: 1LA4350-4AN08-Z  
2 sets  
medium: seawater

**NMFiRE**





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## The Sultanate of Oman Khoramabad CCPP & Zan Jan II Power Plant Project (4 containerized package system)



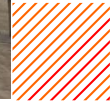
**1.Pump: NMFIRE-UL/FM:**  
250VTP900-46X3  
2500gpm/110m/1480rpm  
Two diesel two motor driven vertical pump

**2.Pump: NMFIRE-UL/FM:**  
250VTP550-26X4  
2-00gpm/110m/1480rpm  
Two diesel two motor driven vertical pump





# Egypt New Cairo Metro Project



**1.Pump: SCF150-125-250 (UL/FM)**  
1000usgpm/116psi  
Electric motor: F-TXC405TS100U2B (UL)  
Tornatech(UL/FM)  
20 sets

**2.Pump: SCF200-150-250 (UL/FM)**  
1250usgpm/145psi  
Diesel engine: NM6-110B(UL/FM)  
Electric motor: F-TXC445TS150U2B (UL)  
Tornatech(UL/FM)  
2 sets

**3.Pump: SCF125-100-300 (UL/FM)**  
750usgpm/110psi  
Electric motor: F-TXC405TS100U2B (UL)  
Tornatech(UL/FM)  
2 sets



**MIGN INTEGRATED BUILDERS  
SOLUTIONS INC.  
(the Philippines)  
Warehouse**

---



Pump: 250VTP550-26X2(UL)  
Q: 2000usgpm  
H: 125psi  
L=3.8m  
Diesel engine: NM6-114(UL)  
Tornatech(UL/FM)  
SMI (FM) : H300 1:1



---

## Jetty of Package F – Ports Long Son in Vietnam Sea Water Application

Two Sets of Diesel Engine Driven Vertical  
Turbine Fire Pump Sets:  
(UL/FM) Q=750GPM H=148PSI



# Velana International Airport in Hulhule of Maldives

**Standard: NFPA20/UL448**

**1. Diesel engine driven pump set(2sets):**

Q=792m<sup>3</sup>/h H=145.7m; 143.9m

Pump: 350VTP860-43x2

Diesel engine: KTA19-P700

**2. Motor driven pump set:**

Q=792m<sup>3</sup>/h H=146.3m

Pump: 350VTP1250-36x4

Motor: YKLB500-4

**3. Jockey pump set(2sets):**

Q=55m<sup>3</sup>/h H=81m

Model: CDLF65-40-1







Q=125L/s H=0.9Mpa  
Pump: SCF250-200-350(UL/FM)  
Diesel: IF07CTIH-F(FM)  
Controller: FD120-L1(UL/FM)

Q=50L/s H=1Mpa  
Pump: SCF150-100-320  
Diesel: NM6-102B-N  
Controller: NMEnF.B-24-L1



Pfizer China

XBC9. 0/160G-SCF

Q: 568m<sup>3</sup>/h (2500GPM), H: 92m  
 柴油机: DEMAAS DF12TiH-F  
 261kW/2100rpm  
 泄压阀: C1a-Val, DN150

XBD9. 0/160G-NSCF

Q: 568m<sup>3</sup>/h (2500GPM), H: 92m  
 电机: 西玛 YE2-355L2-  
 4/380/280kW/1480rpm

XBC8. 5/80G-SCF

Q: 284m<sup>3</sup>/h (1250GPM), H: 85m  
 柴油机: DEMAAS IF05ATiH-F  
 132kW/2940rpm  
 泄压阀: C1a-Val, DN150

XBD8. 5/80G-SCF

Q: 284m<sup>3</sup>/h (1250GPM), H: 85m  
 电机: 西玛 YE2-315M-  
 2/380/132kW/2980rpm



NMFiRE

**AIRBUS**



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Q=80L/s H=85m  
Pump: SCF200-150-300(UL/FM)  
Diesel: IF05ATIH-F(FM)  
Controller: FD120-L1(UL/FM)

Q=80L/s H=85m  
Pump: SCF200-150-300(UL/FM)  
Diesel: TDC405TS150U2B  
Controller: FD70-150-C1-L1-B(UL/FM)



**NNFiRE**





## PTT Siem Reap & PTT Ream Airport (4 sets)

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Pump: NSCF200-125-380 (2 sets)

Cummins: 6CTA8.3-C240 179KW / 2200 rpm

Pump: NSCF200-150-460 (2 sets)

Cummins : 6CTA8.3-C240 179KW / 2200 rpm (180kw at 1800rpm )







**End user: Dutch shell oil  
(Philippines inc )  
Oil Depots Garage Fire Fighting  
Project .**



---

Main contractor: JAPAN JGC Philippines.  
Inc

Contractor: USA Tyco fire, security and  
services Pte Ltd / (BP Fire Controls-  
Bacolod))

SHELL PHILIPPINES TO SUPPLY 12 SETS  
CUSTOM BUILD DIESEL ENGINE DRIVEN  
SEA WATER FIRE PUMPS IN DUPLEX SS  
FOR SHELL PHILIPPINES TERMINALS :  
CABADBARAN, PASACAO, PORO,  
ANIBONG, TAGBILARAN & BACOLOD



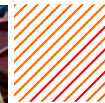
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### Diesel Engine

Cummins NT855-P360 (Radiator Cooled) 269KW at 1800rpm

Cummins NTA855-P450 (Radiator Cooled) 336KW at 1800rpm

Cummins KTA19-P700 (Radiator Cooled) 522KW at 1800rpm



Standard: NFPA20

Pump: Duplex S.S

NSC 200150-460 Q=341m<sup>3</sup>/h H=116m

NSC200-150-570 Q=341m<sup>3</sup>/h H=126m

NSC250-200-530 Q=568m<sup>3</sup>/h H=131m

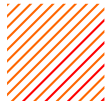


# Customer Report

**Customer: Deluge Fire Protection (S.E.A) Pte Ltd**  
**Project: Waste-To-Energy Plant @ Tuas Sector-Singapore**

The first impression upon viewing the package sets was the fine workmanship and how NMFIRE put attention to details.

In a nutshell, the NMFIRE Pump package is by far the best in overall quality finished.



**deluge**

Fire Protection Preferred by Leading Brands

DELUGE FIRE PROTECTION (S.E.A.) PTE LTD  
22 Chin Bee Drive, Singapore 619870  
Tel: (65) 6862 3688 Fax: (65) 6862 3600  
Email: admin@deluge.com.sg  
Website: www.deluge.com.sg  
Co. Reg. No. 196305061W

**Subject: NM Fire Diesel Engine Driven Fire Pump Packages**

**Project: Waste-To-Energy Plant @ Tuas Sector- Singapore**

The first impression upon viewing the package sets was the fine workmanship and how NM Fire put attention to details.



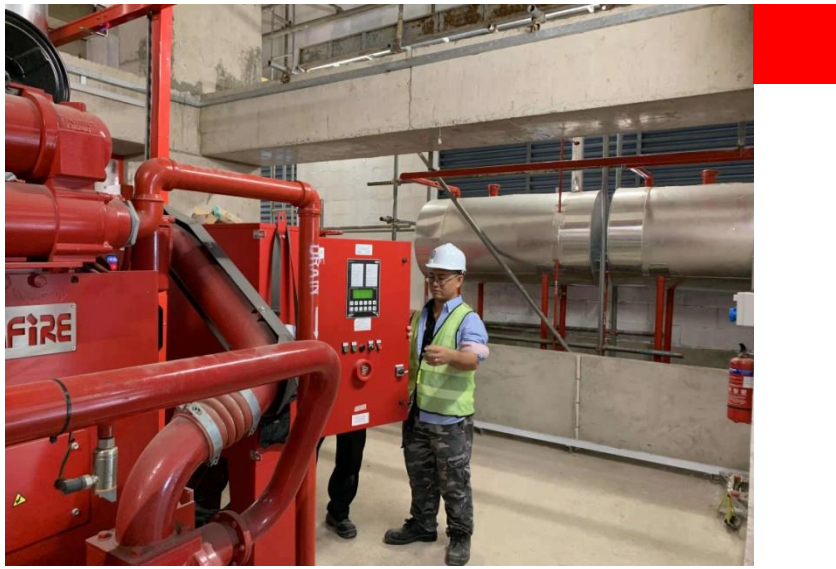
In particular, such as the interconnection wirings with markings provided making field connections a breeze. And the supply of cable trays ensures the wires in conduit are neatly laid beside the skid base.

Drain pipes are provided for Air Vent Valve, as well as for Fire Pump Stuffing Box, this will keep my pump room dry, as the excess water are piped to drain.

Other features are glycerine filled gauges, non-sparking coupling guard, stainless steel casing bolts & nuts, not seen in other makes.

In a nutshell, the NM Fire Pump package is by far the best in overall quality finished.

William Tang (Project Director)  
On behalf of Deluge Fire Protection (S.E.A.) Pte Ltd  
Date: 17 July 2018



# NMFIRE



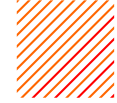
# Hyflux®

2 x 3500gpm Diesel Engine Driven Fire Pump Packages to consortium comprising Hyflux and Mitsubishi Heavy Industries for the 6th and largest Waste-to-Energy plant in Singapore.

The WTE will be Singapore's largest and most energy-efficient plant. It can produce 2,880MWh of electricity per day from incinerating waste, and the energy will be used to run the plant and power Singapore's electricity needs.

Pump: NMFIRE  
Model: SCF300-250-490 (UL/FM)  
Q= 3500usgpm H=110m n=1800 rpm

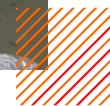
Engine: DE MAAS (FM)  
Model: DF18TiH-F  
436 KW at 1760rpm







# Cucuta Plant in Colombia, (a storage plant for LIQUID PROPANE LPG GAS Client INSA NORGAS CUCUTA)



1. UL/FM Diesel Engine Pump Set: 1500gpm@130psi
2. NFPA20 Jockey Pump Set: 7.5gpm@190psi

## Brazil Project (1 Packages)

1.Pump: NMFIRE-UL/FM:  
SCF250-200-430  
2500GPM/135psi/1800RPM

2.Diesel Engine: DEMAAS - FM  
DF12TiH-F  
252kw/1760rpm

3.Controller : Tornatech -UL/FM  
GPD-24-220

## Columbia Project (1 Packages)

1.Pump: NMFIRE-UL/FM:  
SCF200-125-300  
1250GPM/190psi/2980RPM

2.Diesel Engine: DEMAAS - FM  
IF07CTiH-F  
224kw/2940rpm

3.Controller: Eaton -UL/FM  
FD120-L1





Brazil





Diesel Engine Fire Pump Set:  
Q=2000usgpm H=149psi n=2100rpm  
Model: SCF200-150-400 (UL/FM)  
Engine: IF07BTiH-F (187kw at 2100rpm)

**Mexico**  
**(A plant to produce the black plastic**  
**cover for the back part of the trucks)**



## MINIMAX

Containerized Pump Sets Insert 8sets  
40L/S 80m

Minimax Beijing Fire Fighting  
System Co.,Ltd





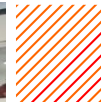
**NMFiRE**



## China National Offshore Oil Corporation ("CNOOC")

The largest offshore oil & gas producer in China, is a mega state-owned company operating directly under the State-owned Assets Supervision and Administration Commission of the State Council of the People's Republic of China.

Penglai 1/3/8/9 area comprehensive adjustment projects  
2sets of diesel engine sets.





thyssenkrupp

**Pump: NMFIRE**  
**Model: 300VTC720-40X2**  
**Q=700m<sup>3</sup>/h H=125.19m n=1750rpm L=10m**

**Material:**  
**Discharge Head---Carbon steel +S.S2507**  
**Column pipe-- S.S2507**  
**Guide bearing---Throdon**  
**Shaft---S.S2507**  
**Seal----- Gland packing**  
**Impeller---S.S2507**  
**Suction bell----S.S2507**  
**Diffuser-- S.S2507**

**Gear box:NMFIRE**  
**Model: H600**  
**Ratio: 1:1**

**Engine: Cummins**  
**Model: KTA19-P600**  
**448KW/1800RPM**

**Control Panel: Tornatech**  
**Model: GFD-24-220/240**  
**NFPA 20 Compliant-non-approved**



**NMFIRE**



## Hengli Petrochemical (Dalian) Refining Co.,Ltd

**NO.21th in China's TOP 500  
manufacturing enterprises**



**20 million tons/year refining integration project  
1#-6# Fire Pumps Station, Fire pump, Jockey pump  
(50sets)**

**NMFiRE**





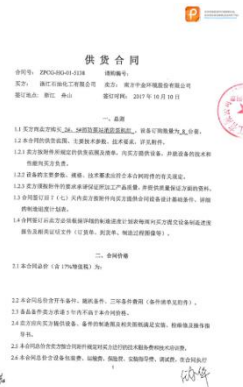
# Hengyi Industries Sdn Bhd (Hengyi) - Zhejiang Hengyi Group



Largest overseas investment by a private Chinese company  
Construction of the refinery and aromatics cracker in Brunei

HengYi (Brunei) PMB Integrated Refinery & Petrochemical Complex Project.

10 sets Fire Pumps for Water supply and Fire pump station.





Diesel Engine Fire Pump Set:  
Q=2000usgpm H=196psi n=1480rpm  
Model: SCF200-150-640 (UL/FM)  
Engine: NM6-159 (430kw at 1470rpm)  
3sets

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**Jereh Oil & Gas Engineering Corp. —**  
**NFPA20 fire pump skid**



**Please find the factory video here**

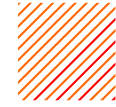




protect life, love  
and history





A white rectangular box with a thin red border, containing the text 'THANKS FOR WATCHING'.

**THANKS FOR  
WATCHING**

