Leading brand of explosion-proof HMI



Safest Ex and products introduction







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Company Introduction



Company Profile

Founded in 1996 in Shenzhen, the capital of reform and opening up, it is a national high-tech enterprise and a specialized and special new enterprise in Shenzhen. It is a manufacturer of intelligent explosion-proof electrical products in many industrial fields. It is the earliest high-tech enterprise in China to develop and produce explosion-proof touch screens and explosion-proof all-in-one machines.

We are the first company in the industry to obtain the "Industrial Product Production License" and "Compulsory Product Certification" (CCC) for explosion-proof electrical products. All explosion-proof products have obtained the "Explosion-proof Certificate" issued by the national authoritative certification agency for use in explosive gases. and automation, informatization, security and other control systems for dust environments.

We provide industrial production with proven explosion-proof products and customized explosion-proof solutions for a variety of applications, covering the oil and gas industry, petrochemical, chemical industry, pharmaceutical industry, as well as offshore shipbuilding and military and aerospace industries.





Company Introduction



Experience in system integration and engineering implementation in the automation industry, with a strong background in the process automation industry, and a deep understanding of automation control



Experience in R&D, design and manufacturing of explosion-proof intelligent control equipment



Users are located in more than a thousand companies in oil and gas, petrochemical, chemical, fine chemical, pharmaceutical, military and other industries.



There are 8 offices across the country, providing timely aftersales service and arriving at the site as soon as the same day.





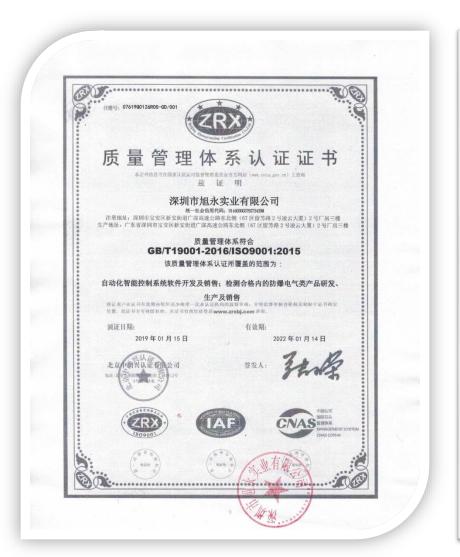
Company Qualification





Company Qualification







Company Qualification

Explosion-proof certificate



Explosion-proof electrical CCC compulsory certification







Product

Automatio n products

Informatio n products

Security access control product

Industrial grade HMI

Explosion-proof touch screen (HMI)

Explosion-proof all-in-one computer (PC)

Explosion-proof remote operation terminal (RT)

Explosion-proof display(Mon)

Explosion-proof loading controller

Explosion-proof keyboard and mouse

Explosion-proof largescreen electronic signage

Explosion-proof scanner gun

Explosion-proof printer

Explosion-proof handheld tablet

Explosion-proof longdistance card reader electromagnetic lock

Explosion-proof card reader

Explosion-proof fingerprint reader

Explosion-proof face recognition device

Explosion-proof face + fingerprint reader

Explosion-proof door magnet

Industrial grade human-machine interface

Industrial grade tablet computer

(Wide temperature/high brightness)







Smart Factory Solution

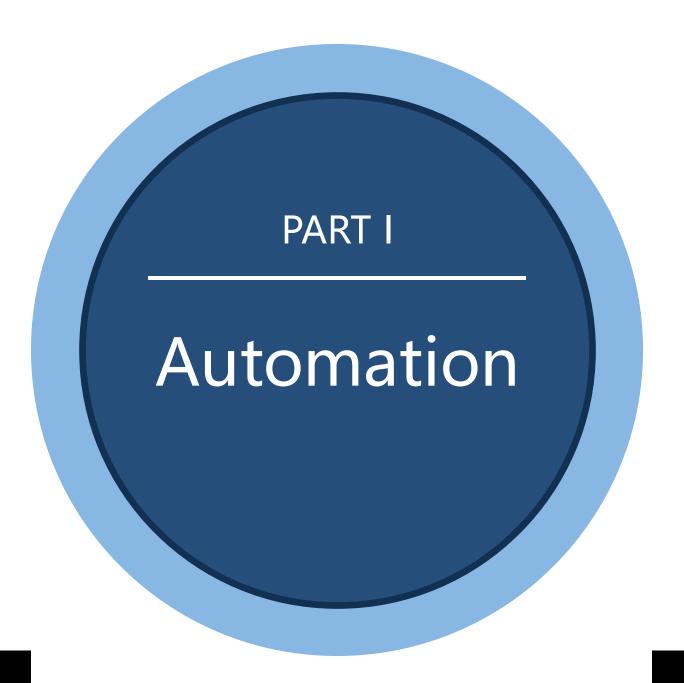
Quantitative Loading Control System

Order management system
Order management system
Error prevention control system
Production process management system
Automation Control System
Electronic signage system
Intelligent warehousing system
One-stop smart logistics system

Vehicle access management system
Queue calling system
Floor scale unattended management system
One-card quantitative loading system
LNG loading control system
Oil depot SCADA system
Oil storage quantitative loading and unloading truck system







Product

Automatio n products

HMI

Explosion-proof touch all-in-one machine (PC)

Explosionproof remote operation terminal(KVM)

Explosionproof display (Mon) Explosionproof batch controller (Batch) Explosion-proof touch screen (HMI)

Explosion-proof touch screen



7" , 10.4" , 12.1" , 15"







XY800Explosion-proof touch screen

IIB+H2 T6 Gb

Zone 1, 21

Wall mounting

XY800DExplosion-proof touch screen

IIB T6 Gb

Zone 1, 21

Wall mounting

XY900Explosion-proof touch screen

IIC T6 Gc

Zone 2, 21

Front panel flush installation





Explosion-proof touch screen

Basic parameters

XY800_/XY900_ 7, 10, 12, 15

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♦Performance specifications ♦	
LCD screen	TFT LCD
Display	16.77 million true colors
touchscreen	Precision resistive screen
CPU	32-bit 800MHz RISC
memory	128M FLASH , 128M DDR3 DRAM
RTC	256KB Real Time Clock
Print port	Serial printing/USBprinter
Ethernet	110M/100M Adaptive network port
Program download	1 USB Device 2.0 port: Support USB/network port program download
USB Host	1 USB Host: Supports U disk storage (reading program automatically downloads)
Communication port	1RS232/RS422/RS485 or 2RS232/RS422/RS485
♦ Electrical Specifications	
Rated voltage	DC24V
◇Explosion-proof certification◇	
Explosion-proof certificate	PCEC
Explosion-proof electrical CCC compulsory certification	PCEC





Explosion-proof touch all-in-one machine (PC)





Explosion-proof touch all-in-one machine



12.1", 15", 15.6", 17", 18.5", 19", 21.5"



XY800 Explosion-proof touch all-in-one machine

IIB+H2 T6 Gb

Zone 1, 21

Wall mounting



XY800D Explosion-proof touch all-in-one machine

IIB T6 Gb

Zone 1, 21

Wall mounting



XY900 Explosion-proof touch all-in-one machine

IIC T6 Gc

Zone 2, 21

Front panel flush installation





Explosion-proof touch all-in-one machine

Basic parameters

1. Display size: front screen: 12.1, 15, 17, 19 inches; wide screen: 15.6, 18.5, 21.5 inches (16:9, 1920*1080)

2. CPU:

Intel Core i5-6287U (14nm process, 2 cores and 4 threads, single core 3.1~3.5GHz, full core turbo frequency 3.3 GHz, 4MB L3 cache)

Intel Core i5-8265U (14nm process, 4 cores and 8 threads, single core 1.6~3.9GHz, full core turbo frequency 2.3 GHz, 6MB L3 cache)

Intel Core i7-8565U (14nm process, 4 cores and 8 threads, single core 1.8~4.6GHz, full core turbo frequency 2.4 GHz, 8MB L3 cache)

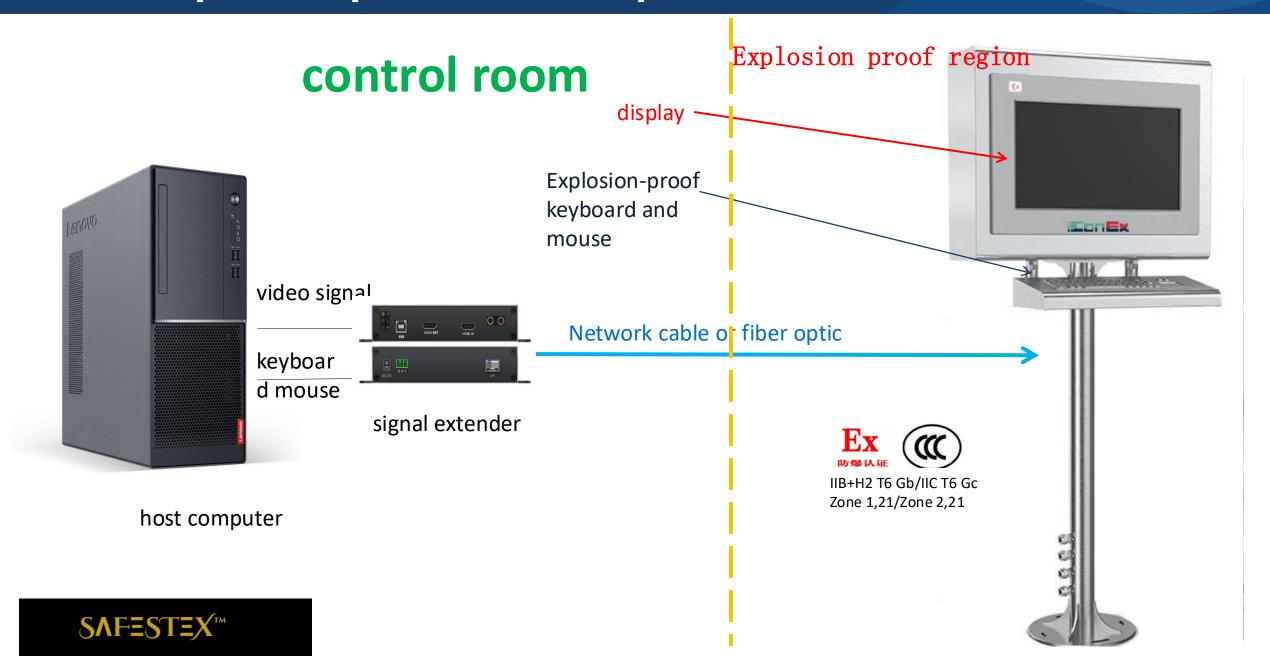
win11: Intel Core i7-1165G7 (10nm process, 4 cores and 8 threads, 2.8~4.7GHz, all-core turbo frequency 4.10 GHz, 12MB L3 cache)

- 3. Memory: DDR4, 8G/16G
- 4. Hard drive: 128G/256G/512G/1TB, M.2 interface NVMe solid state drive (compared to SATA solid state drive, NVMe solid state drive has the advantages of low latency, low energy consumption, high performance, etc.)
- 5. Network interface: Standard dual Gigabit network cards, which can be expanded to 3, and can integrate optical ports (fiber optic transceivers)
- 6. The surface of the touch screen has anti-static treatment (required by national standard GB3836, but many manufacturers do not actually do it)



Explosion-proof remote operation terminal (KVM)

Explosion-proof remote operation terminal (KVM)



Explosion-proof remote operation terminal (KVM)

Features

- Various display sizes from 15" to 22"
- KVM technology extends video signals, keyboard, and mouse to remote operations
- The display screen (can be equipped with touch function), keyboard and mouse are all explosion-proof. The user does not need to take any additional measures and can be used after installation.
- There is no need to make any changes to the DCS system, and there is no need to install the DCS client. The functions are completely consistent with the DCS side, ensuring maximum operational convenience for users.
- The project implementation period is short, the amount of work is small, and only the hardware connections are required.
- When the project is renovated to add on-site operation terminals, it will not affect production and can be constructed when the DCS is running normally.
- Network cable connection distance is 100 meters; fiber optic connection is up to 20Km
- One host can be connected to 1 to 8 remote operation terminals
- Post bracket or wall box or cantilever mounting





Explosion-proof human-machine accessories





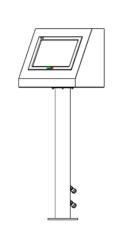
Ex ib IIC T6 Gb; Ex ib IIIC T85°C Db





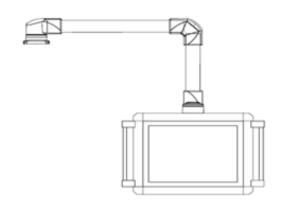


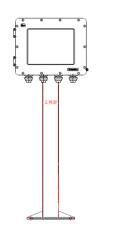


































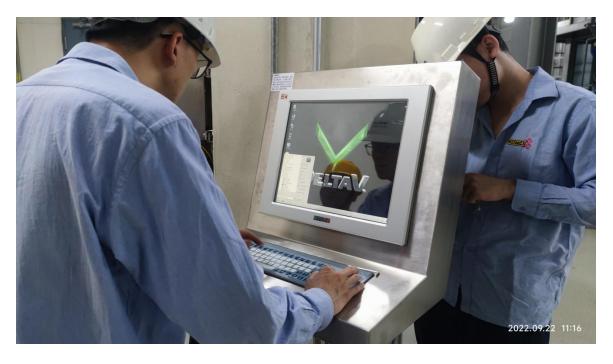












































Explosion-proof
loading batch
controller
Quantitative loading
controller





Explosion-proof quantitative loading controller



XY600Explosion-proof batch controller

7", 10.4", 12.1"

IIB+H2 T6 Gb, Zone 1,21



XY400Explosion-proof card reader

RS485

IIB T6 Gb, Zone 1,21



XY200Explosion-proof LED display

RS485

IIB T6 Gb, Zone 1,21



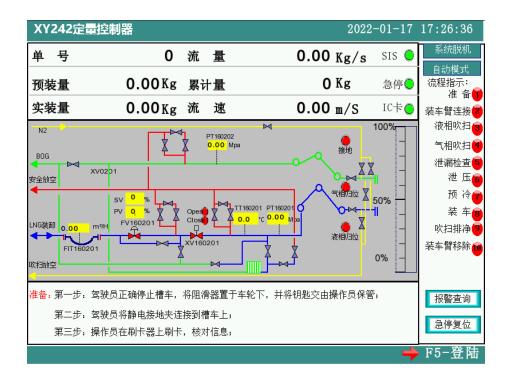


XY242 Explosion-proof batch controller





IIB+H2 T6 Gb, Zone 1,21



Explosion-proof batch controller

XY242













Explosion-proof large-screen electronic signage, monitor, multimedia player







IIC T6 Gc, Zone 2,21



32",55",65" 75"

Large screen LCD display, touch operation



Information system

Used in electronic billboards, monitors, and multimedia players in information systems

It can be an Android system or a Windows system, or it can be configured with KVM remote display



Wall mounting

With hanging bracket, it can be installed like a TV on the wall. It is simple and convenient. You can also choose a mobile bracket.





Explosion-proof large-screen electronic signage, Exmonitor, multimedia player IIC T6 Gc



32",55",65" 75"
Large screen LCD display, touch operation

Used in electronic billboards, monitors, and multimedia players in information systems
It can be an Android system or a Windows system, or it can be configured with KVM remote display

Wall mounting
With hanging bracket, it can be installed like a TV on the wall. It is simple and convenient. You can also choose a mobile bracket.

Explosion-proof scanner gun, code scanner

- 1. Both wired and wireless (Bluetooth);
- 2. Intrinsically safe explosion-proof, the whole machine is explosion-proof certified, equipped with safety barrier;
- 3. Imported top brand industrial-grade original machine, specially customized body, explosion-proof design and certification, specially designed for application environments that require high-performance scanning operations and attach great importance to durability, with strong reading capabilities and reliability;
- 4. Various interfaces and protocols such as serial port and network port (network cable, optical fiber):

RS232, RS485, MODBUS.RTU, MODBUS.TCP, PROFINET, seamlessly connected to explosion-proof computers, PLC, and DCS communication modules, meeting the barcode scanning applications of PLC, DCS automatic control systems, and MES information systems to prevent data tampering;



IIB T6 Gb, Zone 1,21





Handheld, wired

Handheld, wireless



Fixed explosion-proof scanner





IIC T6 Gb, Zone 1,21

model	XYExScanner_C	XYExScanner_M1	XYExScanne	er-M2	XYExScanner_M3	
Communication Interface	RS232/RS485/USB	RJ45				
Protocol	Text string (can be specially customized for Modbus RTU)	Modbus TCP/Ethernet IP/Profinet/MELSEC/FTP/HTTP				
scanning method	2D image sca	nning (960*640 pixels) D image scanning (1408*1024) D image scanning (3072*2048				
barcode type	Code39,Code93,Code128,ITF14,ITF25,CodeBar,EAN,UPCA,UPCE,QR,DM					
Reading distance	≤100mm	40-120mm	300~80	0mm	300~2000mm	
Literacy	1D and 2D standard barcodes		1D and 2D stand	1D and 2D standard barcodes (can read multiple barcodes at the same time)		
Scan speed	60f	rames/second	84frames/	second	90frames/second	
Trigger mode	Automatic trigger/command trigger/IO trigger	I/O trigger/command trigger				
Digital I/O	none	I/O trigger/command trigge	O trigger/command trigger 4 non-isolated bidirectional I/O (default configuration: 2 inputs, 2 outputs)			
Operating temperature	-40∼60°C					
storage temperature	–40∼70°C					
environment humidity	$0{\sim}95\%$ relative humidity, no condensation at $50^{\circ}\mathrm{C}$					
Rated voltage	5VDC ±10%	24VDC ±10%				
Rated current	max	maximum500mA		maximum1000mA		
Electrical Interface				2 M20*1.5		
Signal transmission	USB/RS232≤10M RS485≤500M	≤50M				
cable length	Standard configuration 3 meters	Standard configuration: 3 meters (3-50M can be customized)				
Protection level	IP66					
Explosion-proof signs	Ex d IIC T6 Gb;Ex tD A21 IP6					



Explosion-proof

barcode printer





IIB T4 Gb,Zone 1,21

Intrinsically safe explosion-proof, thermal printing, 50mm wide, RS232 interface, SDK provided, 12VDC

Product number	XYExPrinter			
printing method	thermal printing			
printing speed	Maximum 80mm/S			
Print width	48mm, 384 points/line			
	(16×16) : 24 Chinese characters/48 English characters per line			
ah amatana man lina	(24×24) : 16 Chinese characters/32 English characters per line			
characters per line	(32×32) : 12 Chinese characters/24 English characters per line			
	$(48{ imes}48)$: 8 Chinese characters/16 English characters per line			
Print characters	Can print all characters in GBK font and ASCIC font			
character size	16×16/24×24/32×32/48×48 dot matrix			
Print content	Chinese, English or other languages, numbers, various characters, one-dimensional barcode/QR code, etc.			
Paper type (single ply)	57.50mm±0.5mm×ø40mm single layer thermal paper or special self-adhesive thermal paper			
Communication Interface	RS232, Bluetooth			
Secondary development	Provide SDK development kit C#, compatible with ESC/POS printing instruction set			
Operating Voltage	9VDC			
Working current	<3A			
working environment	Temperature -20~60°C, relative humidity: 10~90%			
size	140mm×160mm×77mm			
Explosion-proof signs	Ex ib mb IIB T4 Gb			





Positive pressure explosion-proof printer





IIC T4 Gb, Zone 1,21

Positive pressure composite explosion-proof, thermal transfer printing, width 108mm, RS232/USB/RJ45 interface, 220VAC

Printing method: Thermal transfer Resolution :203 dpi (8 dots/mm) Maximum printing speed: 6 ips

Maximum print length: 100" (2540mm)

Maximum printing width: 4.2" (108mm)

Communication interface: USB interface and full interface (Ethemet, USB device, RS-232,

USB host) models

Paper type: roll type, label type (pitch paper, continuous paper, folding paper, tickets, tags...etc.)

Paper specifications Maximum width: 4.65" (118mm) Minimum width: 0.8" (20mm) Paper thickness: 0.0024" ~0.008" (0.06mm~0.2mm) Paper roll center 0.5" (12.7mm)"

Can accommodate paper roll outer diameter: 5 "(127mm)

Ribbon specifications Width: 1"~4.33" (25.4mm~110mm) Maximum length: 300m Axis inner

diameter: 1" (25.4mm), applicable types: wax, half wax and half resin, full resin

Paper cutting function: Full cutting knife





Explosion-proof
mobile code scanning
terminal





Dual protection lithium-ion explosion-proof battery (ib IIB T4 Gb, Zone 1,21)





Explosion-proof

wireless AP



2.4G/5G dual-band, POE

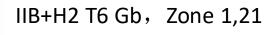
Explosion-proof long- distance card reader



2/5/10 meters, RS232, RS485, TCP/IP, Wiegand interface

SAFESTEX

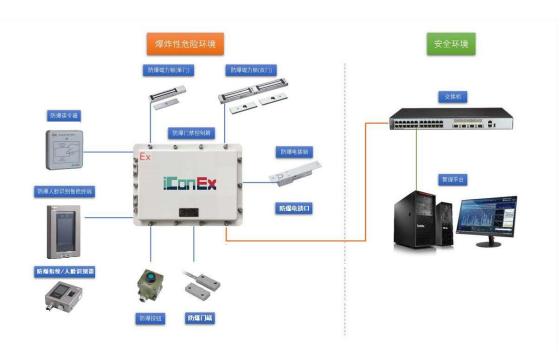












Networking with access controller

Separate network composed of explosion-proof face or fingerprint all-in-one machine



SAFESTEXTM

Schematic diagram of explosion-proof access control system





Magnetic lock (single, double door)



door sensor switch



Electric lock



Explosion-proof card reader



Electric mortise lock



Explosion-proof card reader



Explosion-proof biometric access

control all-in-one machine



Explosion-proof fingerprint recognition

Touch operation

Support fingerprint, IC card swiping, password



Explosion-proof face + fingerprint recognition

Touch operation

Support face, fingerprint, IC card, password



Explosion-proof face recognition

Support face and IC card







XY900F-IPC, Industrial grade touch all-in-one machine



15.6", 18.5", 21.5", 24"

- XY900F_IPC is a compact and durable human-computer interaction industrial touch screen
- all-in-one machine with ultra-thin, fanless and shock-proof design;
- Optional 4:3 and 16:9 resistive/capacitive touch screens are available to meet various industrial automation applications;
- Equipped with Intel Core I5/I7 processor, supports win7 and win10 systems;
- The structure is stable and reliable, and the whole machine adopts aluminum alloy front panel + metal body;
- Fanless cooling design, with a sturdy shell and excellent heat dissipation and rust resistance.



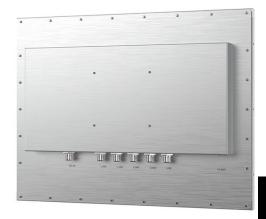
XY900F-HPC, Stainless steel sanitary industrial touch all-in-one machine



12.1, 15, 15.6, 17, 18.5, 19, 21.5, 24"

Hygienic, clean area

- Made of SUS 304 food-grade stainless steel or SUS 316 medical-grade stainless steel shell, it has good corrosion resistance, is durable and easy to clean;
- The whole machine adopts fanless and waterproof design, meeting IP66 protection level;
- The M12 fully waterproof interface can better protect internal components;
- Multi-size displays from 12 inches to 24 inches are available, suitable for clean area automation applications in biomedicine, flavors and fragrances, and food industries.
- Support expansion of wireless networks such as WIFI
- Supports flush or





XY900F-HMI, Wide temperature/high brightness touch screen



7", 10.4", 12.1", 15"

Low temperature: -20°C Wide temperature: -40°C Highlight: >600cd/m2







Product Features



The main components and core components are all industrial-grade products with high reliability, stability and long service life.



Complete certificates and security guarantees to avoid unnecessary legal liability for users



Very cost-effective compared to other products

Serve

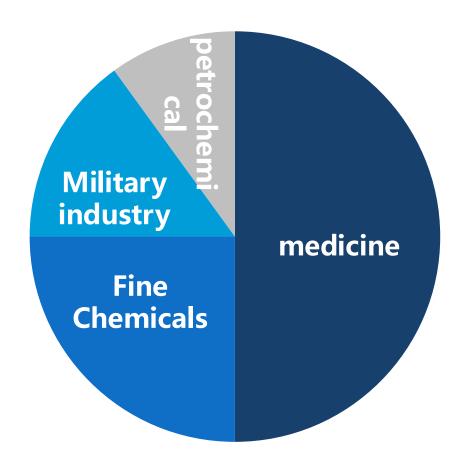
Fast after-sales response and provide the best after-sales service







Application industry



medicine

Chemical raw materials, pharmaceutical intermediates, traditional Chinese medicine, biopharmaceuticals

Fine Chemicals

0 0 0 0 0

Military industry

Aerospace Science and Industry, Aerospace Science and Technology, Ordnance Industry, China Shipbuilding Industry Corporation, Aviation Development

Petroleum and petrochemicals

Oil and gas drilling, offshore platforms, and transportation. . .





Benchmark user



SAFESTEX

SAFESTEXTM

Benchmark user



































Among the top 100 Chinese paint companies in 2021, 7 of the top 10 are our users, and more than half of the top 30 are our users.





Benchmark user



SAFESTEXTM







航天科技四院44所 航天科技四院7416厂 航天科技六院—O—所 航天科技六院165所 航天科技七院 航天科技九院16所 航天科工二院204所 航天科工四院-运载技术研究院 航天科工六院210所 航天科工六院602所 航天科工七院航天长征装备 航天科工山西科技发展集团 中核五建







兵工203所 兵工204所 兵工206所 兵工213所 中船重工713所 中船重工716所 中船重工760所 中航成发中航洪都

兵工五院(五洲工程)

Aerospace Science and Technology, Aerospace Science and Industry, China Ordnance Industry, Aviation Industry, China Aviation Development Corporation, China Shipbuilding Industry Corporation, China National Nuclear Corporation







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Thank you!

