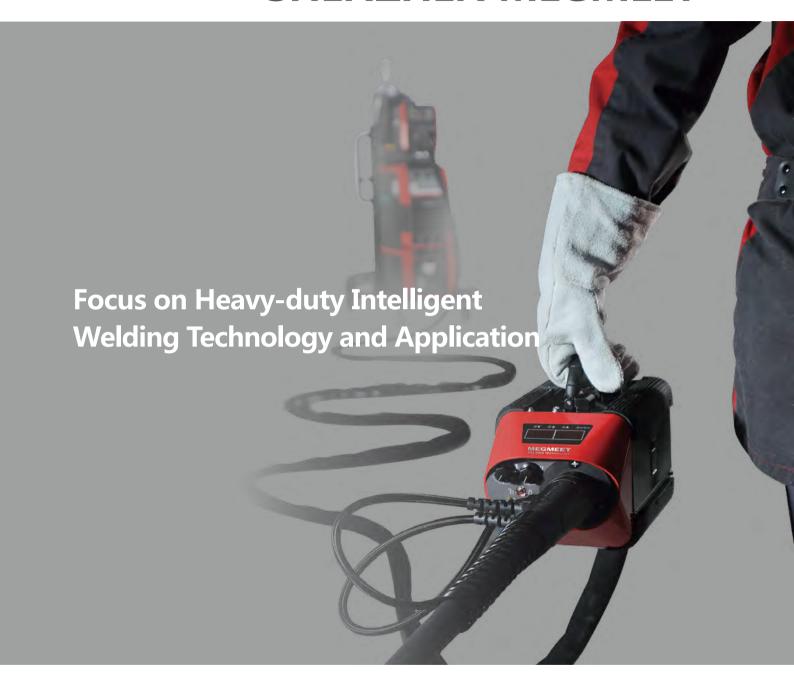
SHENZHEN MEGMEET®



Public Listed on SZSE Stock No.: 002851



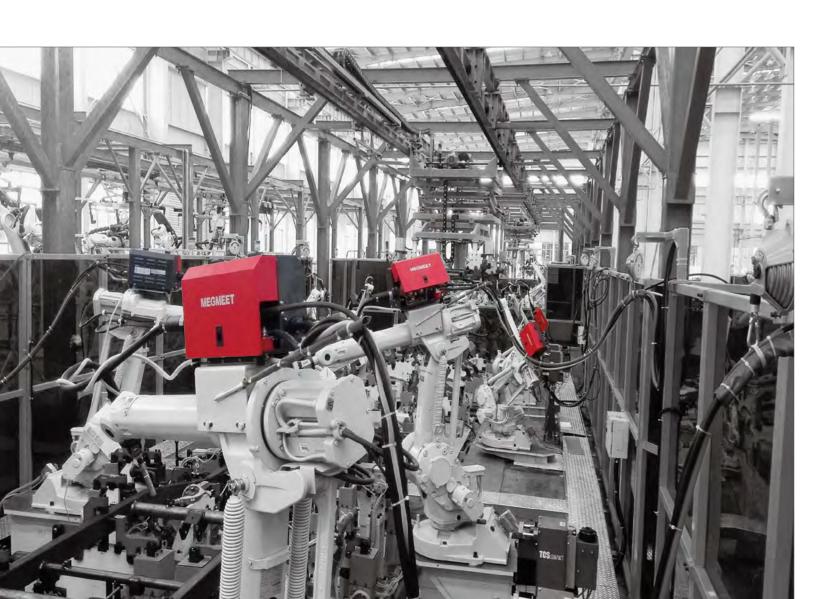
Our Mission:

Be dedicated to provide high-performance welding machines, customer-focused solutions and professional services for users to achieve the best welding result in production .

Our Vision:

To be a global pioneer in energy-efficient and electrical control.

Corporate Concept: More efficient electric power, Much cleaner living environment.



CATALOG

WHO WE ARE?



About Megmeet	0
Location & Branches	0
Our Steps	0
R&D (Technology Patents)	0
MES Smart Production	0
Service Timely and Professional	0
Extensive Industrial Applications	0

WHY CHOOSE MEGMEET?



WHY CHOOSE MEGIMEET:	
Reliability: designing for severe environment	1
Consistency: keeping constant anytime and anywhere	1
Stability: good performance with dependable quality	1
Intelligence: more possibility and extensibility	1
Cost Effective: to produce production investment for users	2
Humanization: easy and quick operation	2



WHAT WE PROVIDE?	
Welding Machine Model List	22
Ehave CM500H/500/350/250 Heavy-duty CO2/MAG/MMA Intelligent Welding Machine)	23
Artsen CM500C Heavy-duty CO2/MAG/MMA Carrier Intelligent Machine)	25
Artsen P(C)M500/400F/N/A(R) Π Heavy-duty MIG/MAG/CO2 DC & Pulse Intelligent Machine)	28
Artsen Plus 500/400 Intelligent Welding Machine with Extendable Process Platform)	33
DEX P(C) 3000 Intelligent Compact & Lightweight Welding Machine)	37
Superior Adaptive to Robot and Special Device	41
Megmeet Welding Information Management System(SMARC)	42



SHENZHEN MEGMEET ELECTRICAL CO.,LTD (Stock No.: 002851) is a leading solution provider in electrical control and energy saving power conversion. Core business of Megmeet includes industrial automation, smart home appliances, control devices, and customized power products. Since its founding in 2003, Megmeet have firmly positioned as a technology-orientation company focused on R&D and have experienced rapid growth in diversified industrial applications.

Digital heavy-duty intelligent welding machine is a strategic business acquired from Emerson (a global leader in industrial automation) in 2011. While inheriting the original advanced technology of Emerson, Megmeet is continuously making unremitting efforts to development and application of IGBT welding solution and provide industrial welding machines with reliable performance, high precision, energy efficient and easy operation.

Depending on solid comprehensive foundation of power source, motor drive, computer software and arc physics, Megmeet have wholeheartedly stood on optimum application of welding technology especially for extremely heavy & harsh manufacturing environment. With high-reputation for its superior quality, Megmeet welding machines have commonly served in multiple fields as shipbuilding, military, automobile, rail transit, metal processing, construction machinery, energy industry, pipeline, etc.



Location & Branches



Shenzhen (Headquarter) Shenzhen Megmeet Elecrtical Co., Ltd

Taizhou Zhejiang Bathroom R&D Center

MEGMEET USA, INC.

Hong Kong Megmeet Hong Kong Limited

Shanghai Megmeet Shanghai R&D Center **Zhuzhou Zhuzhou Global Manufacture Center**

Nanjing
Megmeet Nanjing R&D Center













OUR STEPS

Year 2017
MEGMEET Successful Public Listing

Year 2015
Solar Inverter

Year **2014**

Core Electricity Solution

Welding Technology
Acquired from Emerson

Year 20
Core Ele
Year 2012
Industrial Microwave

Year **2010**

Year 2008 Electricity Power launching

Year 2006 MEGMEET USA Found

Customized Power for Industrial Products

Year 2005
MEGMEET
Hongkong Found

Year 2003
MEGMEET
Established

Boundless Journey To

Surmount Technology Boundary...



R&D(Technology Patents)

- More than **450 R&D** engineers with rich experiences in top technology-based companies as Emerson, Huawei etc
- Effective and professional "Pipelined R&D Management" mode
- 8~10% of turnover invested in R&D(up to **16** million USD per year)
- 326 technology patents(including 72 invention patents)
- **70%** of annual turnover comes from new products for recent 5 years

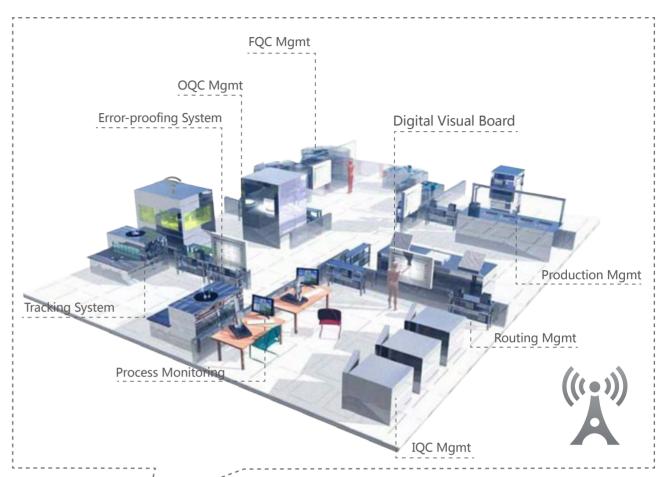




Perfection Derives From Onward Technology



MES Smart Production





Smart Production For Future





MEGMEET WELDING TECHNOLOGY

Service Timely and Professional

- One-on-one full technical supports: jobsite trouble-shooting service or remote instructions(24 hours/Professional Service Team)
- Trained engineers, if requested, will gladly provide extensive instructions during commissioning status to help you familiar with our system
- Detailed and comprehensive operation manual for each model machine in multi-language
- Periodical training classes and examination on new-launching machines for both domestic and international customers



- Honor of "2014 Outstanding Welding Power for China Industrial Robot"
- "2017 IIW.CWS.Arc Cup International Welding Competition": Megmeet to be one of the designated brands
- Serve for leading enterprises in various fields: shipbuilding, military, automobile, rail transit, metal processing, construction machinery, energy industry, pipeline, etc.





Customer's needs are always our TOP priority!



















































































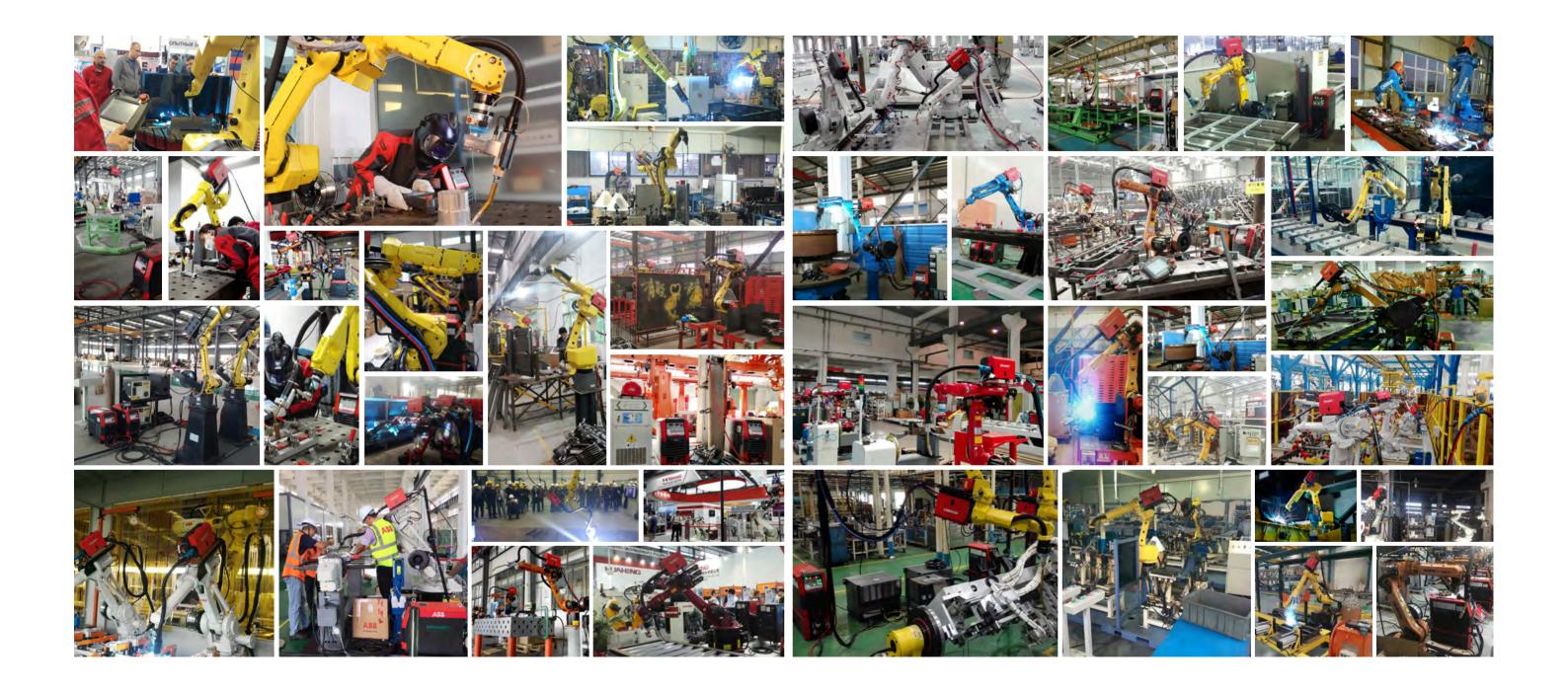






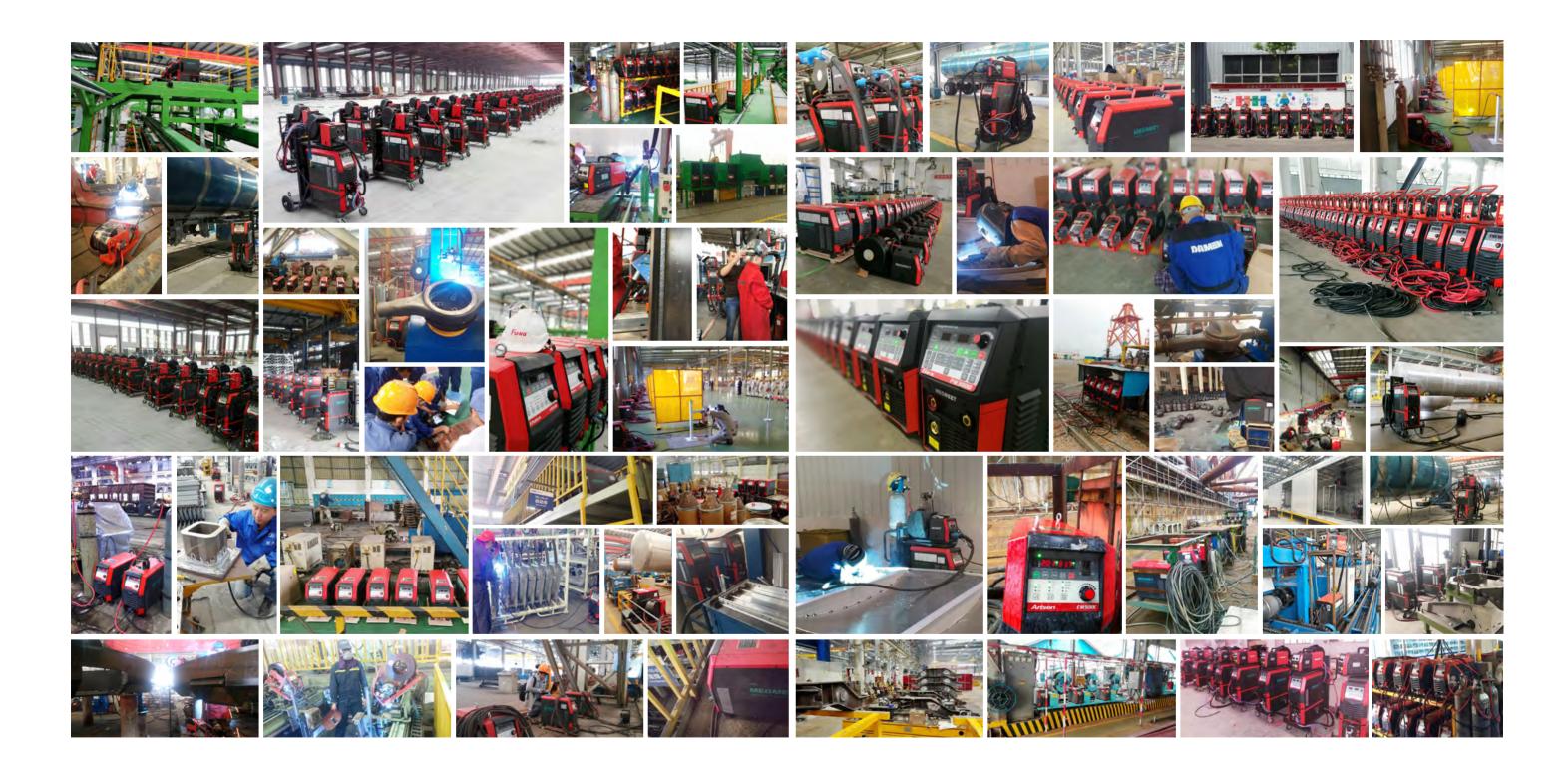
WELDING TECHNOLOGY

Robot-Type Welding Machine Application





Manual-Type Welding Machine Application





Full Digital Heavy-duty Intelligent Welding Machine

Megmeet full digital IGBT **180KHz** heavy-duty welding machines are launched for international manufacturing market.

Enhanced welding effect, reliable electrical performance and high welding efficiency will bring better welding experience for customers.



Professional Multi-Disciplinary Technology Team+Strong R&D Platform

Optimal-Performance Digital Welding Machine

Design to industry application

Development of welding expert system

Numerical modeling of welding process



Computer software technology

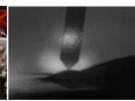
Welding process Arc physics Metal Materials Science Motor drive and motion control

Full digital technology, brings excellent arc physics and welding process control.











Amazing Funs of Welding.





Why shall we always highlight **RELIABILITY**?

- Frequent welding machine failures in severe environment
- 24 hours or even longer downtime due to welding machine failures
- Average shutdown cost of each welding position is 360USD or higher
- Affordable downtime becomes shorter since of increasing competition in global manufacturing industry



Reliability: designing for severe environment

- Lightning and class D surge protection(withstand 6000V/3000A) design to ensure high reliability and long lifetime in extreme harsh environment.
- **2** 72 hours on-load temperature & thermal shock test from -39°C to +50°C @ 95% humidity.
- **3** Working reliably under high humid and rain condition.
- 4 Overheat monitoring and warning of output terminals, prompting users to tighten screws to avoid damage of output terminals in abnormal condition.
- Optimized EMC&EMI design enables welding machine to work with other electrical equipment without any disturbance.
- **6** Rigorous salt spray test, metal dust test and conductivity test.
- **7** HALT (Highly Accelerated Life Test): all extreme conditions simultaneously superimposed for critical testing.















MEGMEET WELDING TECHNOLOGY

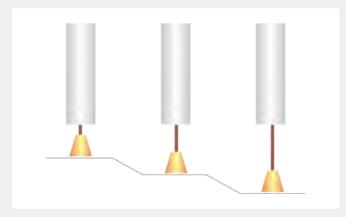
Stability: good performance with dependable quality

Consistency: keeping constant anytime & anywhere



	Test mach	ines by 5V a	s the standa	rds				
Machine No.	1	2	3	4	5	6	7	8
load (current : A)	173.28	172.08	169.84	172.16	173.92	173.12	172.88	171.04
Output voltage(V)	5	4.97	4.91	4.97	5.01	5	5	4.94
Output voltage deviation	0	-0.03	-0.09	-0.03	0.01	0	0	-0.06
Display voltage deviation	0	0.070586	0.010586	0.070586	0.110586	0.100586	0.100586	0.040586
	Test mach	ines by 20V	as the stand	ards				
Machine No.	1	2	3	4	5	6	7	8
load (current : A)	197.2	196.96	198	196.72	196.96	196.64	197.12	196.88
Output voltage(V)	20.06	20.03	20.15	20.01	20.02	19.97	20.04	20.02
Output voltage deviation	0.06	0.03	0.15	0.01	0.02	-0.03	0.04	0.02
Display voltage deviation	0.06	0.03	0.15	0.01	0.02	-0.03	0.04	0.02
	Test mach	ines by 30V	as the stand	ards				
Machine No.	1	2	3	4	5	6	7	8
load (current : A)	295.44	295.12	295.28	294.88	295.44	295.2	295.28	295.12
Output voltage(V)	30.09	30.06	30.07	30.02	30.08	30.03	30.06	30.05
Output voltage deviation	0.09	0.06	0.07	0.02	0.08	0.03	0.06	0.05
Display voltage deviation	0.09	0.06	0.07	0.02	0.08	0.03	0.06	0.05
	Test mach	ines by 45V	as the stand	ards				
Machine No.	1	2	3	4	5	6	7	8
load (current : A)	545.36	544.8	541.28	544.24	545.6	544.8	544.88	546.24
Output voltage(V)	45.08	45.06	44.77	44.98	45.09	45.02	45.05	45.12
Output voltage deviation	0.08	0.06	-0.23	-0.02	0.09	0.02	0.05	0.12
Display voltage deviation	0.08	0.06	-0.23	0.080586	0.09	0.120586	0.05	0.12

- High-frequency inverter design and superb full-digital control can considerably reduce dependence on hardware parameter accuracy, and performance consistency of each welding machine is available in the case of voltage sharp fluctuations
- Low-temperature drift and high-precision components brings consistent output waveform of welding machine in different ambient condition
- Hardware & software multiple compensation and multi-dimensional self-regulation for sampling and control loop components is able to ensure consistency of welding performance

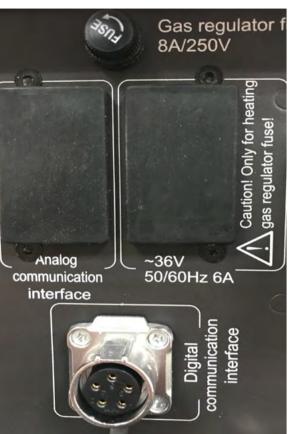


- Intelligent self-correction of all droplet transition state brings continuous stability and less spatter in welding performance
- Megmeet micro arc voltage compensation and arc length constant control technology can maintain effective stability of arc and fusion depth when wire extensions have variations
- Megmeet macro arc voltage compensation technology can keep arc voltage unaffected by long-term voltage drop whatever intermediatedrive cable is 5 M or 50M

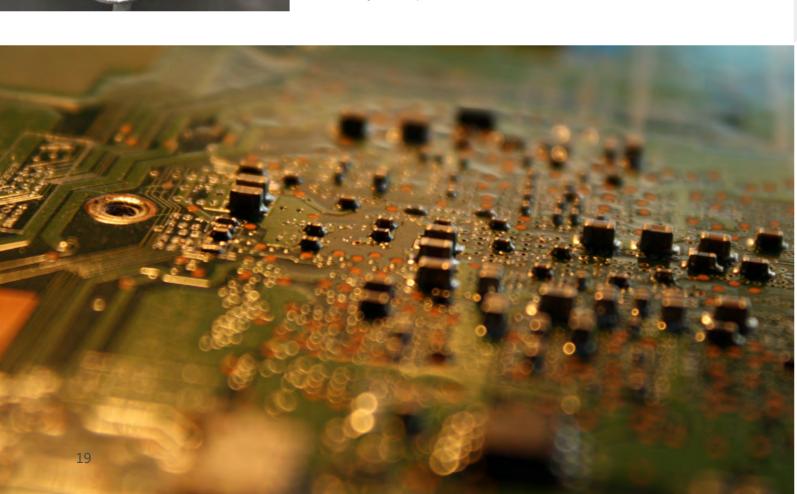
MEGMEET WELDING TECHNOLOGY

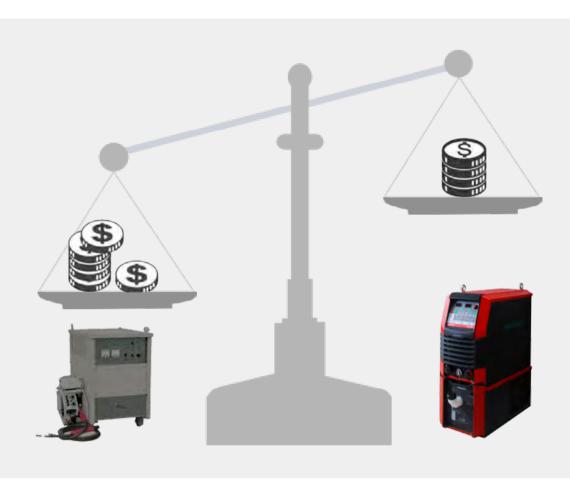
Intelligence: more possibility & extensibility

Cost Effective: reducing production investment for users



- Opened expert operation mode well satisfy with special welding requirements including specific customization
- Enhanced CAN-BUS interface and various communication protocols enables seamless digital connections between welding machine and robot, automatic tooling and management system
- Combination of synergic operation and wide-range arc dynamics can vastly strengthen operability and tolerance of automatic welding system
- Full-digital control with leading power supply anti-jamming designs ensures welding parameters output always consistent and stable even in extreme condition
- **High-precision sampling and control is** to realize high-quality full current range(30~500A)
- Defaulted standard analog interface and various digital interfaces are simultaneously available for robot model
- High-speed digital communication system (up to 500KHz), effectively avoid any distortion and delay caused from intermediate-drive
- Flexible communication protocol and deep-opened welding parameters can remarkably extend welding limit and seek for more stability, more speed, and less thermal deformation, etc





Less Cost Means More Profit

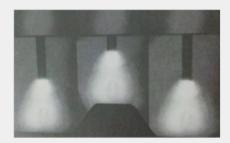
- One roll of wire consumption for Megmeet machine can save 6~10 Kwh of electricity compared with traditional (SCR) welding machine. Almost 1000 USD of electricity cost could be reduced annually for one set of machine in case of 2 rolls of wire consumption daily.
- Usually 200/350A welding machine is used in thin metal and 500A for medium metal. But the truth is that power consumption of Megmeet 500A machine is still **more economical** than traditional 200A. No more repeated investment are necessary in subsequent medium plate welding.
- **Upgradeable welding software :** forefront welding process is available for our customers in first time and no need to purchase new machine for special welding.



High Reliability
+
Fault Auto-diagnosis
+
Simple Dismounting



Humanization: easy and quick operation



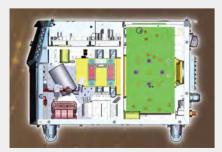
Easy-operation Design Specially for New Hand

- Anti-shake function: Megmeet arc voltage compensation and arc length constant control technology
- Synergic mode: Parameter can be perfectly and automatically matched and welder only need to input current



Welding Parameter Locking

Welding parameter can be directly locked on control panel to ensure correct welding process and avoid any random changes during production.



Quick Recovery

- Embedded structure and isolation-protection design not only brings more reliability but also simply dismounting and rapid recovery
- Self-recognition and intelligent alarming through error codes

Welding Machine Model List

			Stainless	Aluminum	Silicon	Aluminum		Intermediate-	Push	Standard	:	Integrated	S	mmunicatio	n of Rob	Communication of Robot & Special Machine	Machine	-	Welding
MIS/MAG Welding Machine MMA Carbon Steel Steel Alloy	MM	Carbon Steel	Steel	Alloy	Bronze	Bronze	Pulse	drive	Pull	Welding Torch Trolley Water Tank	Trolley	Water Tank	Analog	DeviceNet	CAN	Customized F	RS-485 N	Ether Net/IP	Management System
Ehave CM500H/500/350/250	•	٠								Panasonic	0		0						0
Artsen CM500C	•	•								Eur./ Panasonic	0	0							0
Artsen CM500/400/350	0	•			0	0				Eur./ Panasonic	0	0	0	0	0	0			0
Artsen PM500/400F	0	•			0	0	•			Eur./ Panasonic	0	0	0	0	0	0			0
Artsen PM500/400N	0	•	•		0	0	•			Eur./ Panasonic	0	0	0	0	0	0			0
Artsen PM500/400A	0	•	•	•	0	0	•			Eur./ Panasonic	0	0	0	0	0	0			0
Artsen СМ500/400/350 П	0	•			0	0		0	0	Eur./ Panasonic *	0	0	0	0	0	0	0	0	0
Artsen PM500/400F II	0	•			0	0	•	0	0	Eur./ Panasonic *	0	0	0	0	0	0	0	0	0
Artsen PM500/400N II	0	•	•		0	0	•	0	0	Eur./ Panasonic *	0	0	0	0	0	0	0	0	0
Artsen PM500/400A II	0	•	•	•	0	0	•	0	0	Eur./ Panasonic *	0	0	0	0	0	0	0	0	0
Artsen Plus500/400		•	0	0			0			Eur./ Panasonic	0	0	0	0	0	0	0	0	0
Dex CM3000	•	•	•							Eur.									
Dex PM3000	•	•	•	•			•			Eur.									
:]] .										-

MEGMEET WELDING TECHNOLOGY

Ehave CM500H/500/350/250

Heavy-duty CO₂/MAG/MMA Intelligent Welding Machine



- ■First-choice for harsh heavy-duty working environment
- ■Extensively applied in various carbon steel welding industries: rail transit, automobile, shipbuilding, steel structure, container, machining, metal hardware, etc

Product Feature:

- Stable arc in full current and low spatter, be suitable for different welding processes;
- **Highly concentrated arc and strong penetration**, 20% less than other machines in heat input;
- **Excellent gap-bridging capability** and less sensibility in wire extension;
- **Droplet necking testing and micro-control technology** can improve success rate of arc starting;
- Welding parameter locking and function expansion can be quickly set up on control panel without more configuration outsourcing;
- 10 groups of default parameters and up to 99 groups of customization;
- Communication with robot is available(for option)











Technical Data Sheet

ITEM-MODEL	Ehave CM500H	Ehave CM500	Ehave CM350	Ehave CM250	
Control mode		Full D	Pigital		
Input voltage		3 phase 380Vac±	25%(285 ~ 475V)		
Input frequency		30 ~	80 Hz		
Input capacity	24KVA	22.3KVA	13.5KVA	8kVA	
Rated open-circuit voltage	75V	73.3V	63.7V	63.7V	
Rated output current	30 ~ 500A	30 ~ 500A	30 ~ 400A	30 ~ 300A	
Rated output voltage	12 ~ 45V	12 ~ 45V	12 ~ 38V	12 ~ 30V	
Rated duty cycle	500A@100% @40°C	500A@100% @25℃	350A@100% @40°C	250A@100% @40°C	
Welding method	CO ₂	/MAG/MMA, solid wire	e, flux-cored wire,electr	rode	
Wire diameter	1.0/1.2,	/1.6mm	0.8/1.0,	/1.2mm	
Welding sequence		2T, 4T, special 4	T, spot welding		
Welding parameter channel		10 sets (default)		
Arc dynamic	-9 ~ +9				
Reserved communication interface	CAN				
Cooling mode		Intelligent (Gas Cooling		
wire feed speed		1.4~24	m/min		
Protection class		IP2	23S		
Machine environment		Heavy-duty Indus	try -39°C~ +50°C		
Dimensions		300×480	×620mm		
Weight	55kg	52kg	48kg	48kg	



Artsen CM500C

Heavy-duty CO₂/MAG/MMA Carrier Intelligent Welding Machine



- Designed for ultra-long distance(up to **100 meters**) welding in large structure industries as shipbuilding, offshore, steel structure, etc
- Industry-leading digital bi-directional high-speed carrier communication

Product Feature:

- Carrier technology application effectively replace conventional control cable and overall welding efficiency in jobsite is thereby improved
- 100% @ 500A duty cycle , high deposition rate and high-speed wire feeding (24 m / min)
- Outstanding protective design in wire feeder and PCBA, better suited to the harsh environments with vibration, collision, humidity, salt spray, etc
- Stable vertical-up flux cored welding including 150A small current welding is available even if power cable is more than 50 meters
- Vertical-up pulling welding function for special flux cored wire(E71T-1C) is available, significantly reducing heat input compared with swing welding

- Any peripheral cable short-circuit will not cause damage to main machine and fault codes could be simultaneously indicated on both main machine and wire feeder;
- Over-current protection in wire feeder can enable automatic recovery when motor rotation or wire blockages happen;
- Short circuit over-current and open circuit protection for magnetic valve;
- Visual display of welding parameter on wire feeder. Parameter setting function is available on wire feeder, no need of external debugger and adjustment on main machine display panel;
- High-speed synchronization of wire feeder and main machine, and perfect anti-interference communication;
- Full digital high-frequency test and control can provide more stability in small current welding;
- Lightweight and portable design with less peripheral cables

Comparison of Artsen CM500C and Carrier Machine

	Communication mode	Anti- interference	A/V display on wire feeder	Welding performance	PCB reliability
Artsen CM 500C	Digital bi-directional high-speed carrier	Excellent	Yes	Excellent	Excellent
Conventional Model	One-Way Analog	Pass	No	Pass	Pass





100MTR

Artsen P(C)M500/400F/N/A(R) II

Full Digital Heavy-duty **DC/Pulse** MIG/MAG/CO₂ Welding Machine

Technical Data Sheet for Artsen CM500C

ITEM-MODEL	Artsen CM500C
Control mode	Full Digital
Carrier communication mode	High Speed Bi-directional Carrier Communication
Input voltage	3 phase 380Vac±25%(285 ~ 475V)
Input frequency	30 ~ 80 Hz
Input capacity	24KVA(22.3KW)
Rated open-circuit voltage	75V
Rated output current	50 ~ 500A
Rated output voltage	12 ~ 50V
Rated duty cycle	500A@ 100%
Welding method	CO ₂ /MAG/MMA, solid wire, flux-cored wire, electrode
Wire diameter	φ1.0/1.2/1.4/1.6mm
Welding sequence	2T, 4T, special 4T
Arc dynamic	-9 ~ +9
Reserved communication interface	Yes
Cooling mode	Intelligent Gas Cooling
Wire feeder digital display	Yes, long-distance reading and setting
wire feed speed	1.4 ~ 24m/min
Protection class	IP23S
Machine environment	Heavy-duty Industry −39°C ~ +50°C
Dimensions	300×480×620mm
Weight	52KG



Product Features

- Independent operation display panel on wire feeder, be more convenient to read and regulate welding parameter
- Dual-motor synchronous driving and flexible torch configuration, achieving expansions for middle driving and push-pull torch functions for ultra-long distance and narrow space welding
- Multi-process model be proficient in CS, SS, Al, DC, pulse and dual pulse
- 50 pieces of storage channels and quick switching between multiple parameters; 200 items of fault records for better traceability
- Abundant internal menu and massive parameters (fully-open and adjustable)
- Diversified welding expert systems and special programs for aluminum (alloy) welding
- High-speed and all-digital control to realize "one pulse one drop" and stable welding with minimal spatter
- Huge expert welding database: synergic regulation and parameter auto-correlation
- **Program software upgrade** is available to obtain more welding processes for various special metals(such as high-strength steel Q690, silicon bronze, aluminum bronze, etc.)

Artsen P(C)M500/400F/N/A(R) II

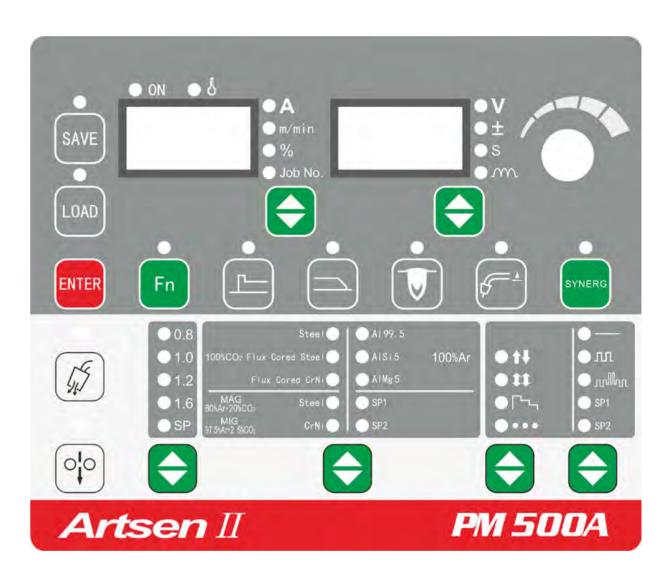
Technical Data Sheet

Machine Model	Artsen PM500F/N/A II Artsen PM500F/N/A R II	Artsen CM500 II	Artsen PM400F/N/A II Artsen PM400F/N/A R II		
Control Mode	AI (Sell FW)300F/N/A K II		Digital	Altsell Civi400/330 K II	
Wire Feeding Drive	Photoelect		eparate Chip high-speed loo	p control.	
Control Mode			onous control is for option		
Input Voltage		3 phases 380)Vac±(285~475V)		
Input Efficiency		30	~ 80 Hz		
Input Capacity		24KV/	A(22.3KW)		
Power Factor Meter			0.93		
Efficiency			87%		
Rated Output Voltage		-	73.3V		
Rated Output Current	500A	500A	400A	400A/350A	
Given Current and		12~45V(A	ccuracy is 0.1V)		
Voltage Range	30 ~ 500A	30 ~ 500A	30 ~ 400A	30 ~ 400A	
Rated Duty Cycle	60%@500A	√@40°C	100%@40	0A@40°C	
Wire Diameter	φ0.8/1.0/1.2/1	6/SP mm	φ0.8/1.0/1	.2/SP mm	
	F:CS		F :CS		
Welding Material Type	N: CS/SS	CS	N: CS/SS	CS	
	S: CS/SS/AI		S: CS/SS/AI		
Welding Process	MIG/MAG/CO ₂	MAG/CO ₂	MIG/MAG/CO ₂	MAG/CO ₂	
	Dual-pulse/Pulse/DC DC Dual-pulse/Pulse/DC DC				
Welding sequence	2 steps, 4 steps, special 4 steps and dot welding				
Arc characteristic	-9 ~ +9				
Parameter Display of Wire Feeder	Available				
Robot Communication	Analog/Device Net/CAN Open/Megmeet CAN/RS-485/Ethernet/IP*				
Insulation Class			Н		
Protection Class		1	IP23S		
Main Machine		heavy-duty, -39°C ~	+50°C , humidity ≤ 95%		
Environment					
Dimension			80×620mm		
Weight		!	52KG		
Circulating Cooling Syste	em (Option Configuration)				

Circulating Cooling Syste	m (Option Configuration)
Rated Power	260W
Rated Voltage	400Vac
Cooling Water Volume	6.5L
Cooling Water Flow	3.5L/min
Cooling Water Max. Pump Head	30m
Flow Alarm	Available
Water Temperature Alarm	Available

^{* :} Ethernet/IP is for Optional.

One-Model, But Multi-Use





Optional Functions in Artsen P(C)M500/400F/N/A Ⅱ



Push Pull Welding Torch Excellent Stability and Desirable Operation

- Integration with motor parameters of mainstream push-pull welding torches, quick selection and matching with welding torch brand;
- Motor parameters in push-pull welding torch are opened for regulation, to match with all types of push-pull torches;
- Welding torch parameter regulating knob is convenient to regulate current/voltage;
- Max working radius can reach 40 meters: 30 meters for wire feeder distance and 10 meters for push-pull torch;
- Wire feeding through welding torch tip brings more stability;
- Wide applications in various soft-wire welding conditions.

Intermediate-Drive Wire Feeder
Steady Control in Ultra-length Wire Feeding

- Optimal Structure: portable weight, metal enclosure, durable material, streamlined shape and draggable designing;
- Operation display panel on Intermediate-Drive wire feeder is convenient to read and regulate welding parameters;
- Max working radius up to 58 meters: 30meters for wire feeder distance, 25 meters for Intermediate-Drive wire feeder and 3 meters for welding torch;
- Economical consumable cost by using normal welding torch;
- Extensive applications in long-distance and narrow-space welding jobsites as large tank, shipyard, large steel structure, etc.



Intermediate-Drive Wire Feeder	Parameter List	
Component	Power cable+ 10 cores control cable+ gas tube+ water tube+ wire-guide pipe	
Power Cable Specification	50mm ² (Standard) \ 70mm ² (Customized) \ 95mm ² (Customized)	
50mm ² Cable Welding Current	60%@380A, 100%@300A	
Motor Voltage	DC24V	
Wire Feeding Speed	1.5 ~ 24M/min	
Intermediate-Drive Wire Feeder Weight	4.3 Kg	
Parameter Display	Available	
Parameter Regulation	Available	
Parameter Locking	Available	



Artsen Plus500/400

Intelligent Welding Machine With Extendable Process Platform

Continuous Realization Your Process Imagination

Intelligent Platform for Unceasing Renewed Process Mode

Product Feature:

- Full digital intelligent control and 100KHz ultra-high inverting frequency, "zero delay" [1] sampling circuit, accurate power response for each phase of droplet transition;
- Unique power supply energy releasing design, up to 10,000 amps / ms of current descending slope, realizing "zero impact" [2] on fusion pool;
- High-torque and low-inertia worm gear motor, supplemented by 120 lines of high-precision encoder and high-frequency motor control system, brings accurate control of arc start withdrawal and arc end withdrawal:
- Dual-remote sampling compensation of output positive and negative terminals, be able to correctly determine process status of droplet transition and obtain precise control of droplet transition;
- Stable and comprehensive high-speed hardware platform, and opened software system, enables constant expansions of process control procedure and accumulation of welding expert database based on different welding conditions.



New JOB Mode Brings Free Collocation of Welding Process

Dual Pulse? Dual DC? DC+Pulse? All up to you!

- Each JOB can individually set up characteristic quantity as duration, control mode, control parameter, collaboration parameter, gradient slope, etc;
- Single JOB can achieve double-process collaboration and no need of complex external JOB switching command;
- Tranquil transition between different characteristics of JOB, greatly reducing arc distortion and welding spatter. Transition characteristics can be freely set in all JOB.

Innovative Process Mode

Tranquil Fusion [3]

- Soft arc, tranquil fusion pool, minimal spatter
- Stable arc and substantial increase in welding speed
- Better welding fusion and less welding defects

Applications:

■ Thin plate and ultra-thin plate welding of CS, SS, galvanized sheet, dissimilar metals, especially for backing welding and all-position welding

Clean Fusion [5]

- Faster welding rhythm, obvious energy intensity and clear "Stacked Dimes" welding appearance
- Low heat input, deeper fusion depth, minimal spatter and higher tolerance for welding gap

Applications:

■ Thin plate and ultra-thin plate welding of CS, SS, galvanized sheet, Al & Al alloy, especially for verticalup welding

Thunder Fusion [4]

- Adjustable arc energy effectively reduce welding heat Short arc length, high stiffness, strong directivity, substantial increase in welding speed;
 - Low heat input and minimal spatter;
 - Better welding fusion and less welding defects.

Applications:

■ Pulse welding of CS, SS, galvanized sheet and highstrength steel, etc.

Leaping Fusion [6]

- Shorter arc starting time and quick arc ending, be able to further reduce welding heat input and thermal
- Clear "Stacked Dimes" welding appearance and faster welding rhythm [7]
- Deeper fusion depth, higher tolerance for welding gap

Applications:

■ Thin plate and ultra-thin plate welding of CS, SS, galvanized sheet, Al & Al alloy, etc

Consistant Fusion [3]

■ Welding fusion depth keep consistent and will not be affected by wire extension change

Applications:

■ Automatic welding of robot, special machine, etc



- [1]: Compared with Artsen series, sampling speed of Artsen Plus is increased by about 13 times.
- [2]: Power supply release arc energy in droplet transition moment to avoid impulsive oscillation of current force on fusion pool.
- [3]: Standard configuration is Tranquil Fusion carbon steel, and other processes are for optional selection according to specific working conditions.

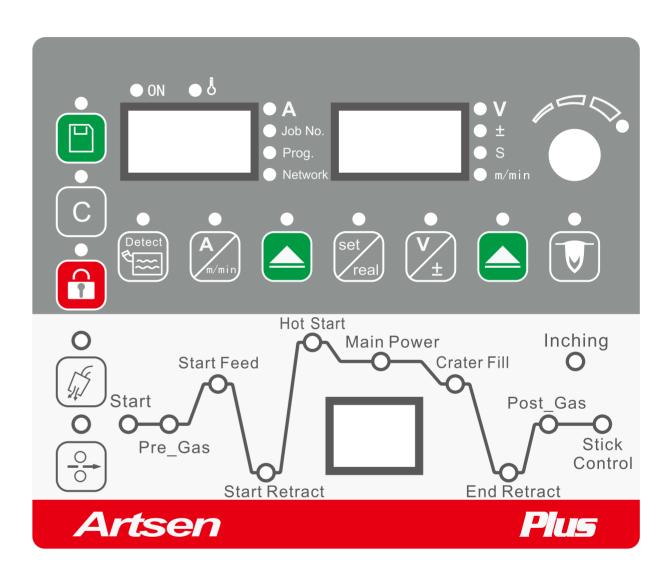
^{[6]:} Standard configuration is Leaping Fusion carbon steel, and other processes are for optional selection according to specific working conditions. [7]: Welding rhythm is lower than Clean Fusion Process.

Artsen Plus500/400

Technical Data Sheet

Machine Model	Artsen Plus500 Artsen Plus500R	Artsen Plus400 Artsen Plus400R		
Control Mode	Ful	l Digital		
Wire Feeding Drive Control Mode	Photoelectric coder feedback+ Ind	ependent Chip high-speed loop control		
Input Voltage	3 Phases 380Vac(-25%	,+15%),(285 ~ 437V)		
Input Efficiency	45	~ 65 Hz		
Input Capacity	24KV	A(22.3KW)		
Power Factor Meter		0.93		
Efficiency		85%		
Rated Output Voltage		85V		
Rated Output Current	500A	400A		
Civon Current and Voltage Bases	12 ~ 45V (Accuracy 0.1V)		
Given Current and Voltage Range	30 ~ 500A	30 ~ 400A		
Rated Duty Cycle	60%@500A@40°C	100%@400A@40°C		
Wire Diameter	φ0.8/1.0/	1.2/1.6/SP mm		
Welding Process*	Tranquil Fusion Thunder Fusion Clean Fusion Leaping Fusion Consistant Fusion			
Welding sequence	2 steps, 4 steps, special 4 steps , spot welding and intermittent welding			
Arc characteristic	-7 ~ +7			
Robot Communication	Analog \ DeviceNet \ CAN Open \ MEGMEET CAN \ RS-485 \ EtherNet/IP**			
Insulation Class	Н			
Protection Class	IP23S			
Main Machine Environment	Industrial Heavy Duty, -39°C ~ +50°C , Humidity ≤ 95%			
Dimension	300×480×620mm			
Weight	52KG			
Circulating Cooling System (Option	Configuration)			
Rated Power	2	260W		
Rated Voltage	4	00Vac		
Cooling Water Volume		6.5L		
Cooling Water Flow	3.	5L/min		
Cooling Water Max. Pump Head		30m		
Flow Alarm	Av	vailable		
Water Temperature Alarm	Av	vailable		

Megmeet Platform-Type Machine Specially For Continuous Mode Extension & Process Interaction



MEGMEET WELDING TECHNOLOGY

^{* :} Some Process is for Optional.

^{** :} Ethernet/IP is for Optional.

Dex P(C)M 3000

Intelligent Compact & Lightweight Welding Machine

Innovative Hardware Platform

- Industry-leading three-level main power topology, up to 180KHz of output frequency and full softswitching power switch. Machine power density is raised, while overall heat value ,radiating component volume and total weight is reduced
- Leading power conversion solution provides up to 90% of power conversion efficiency. Power efficiency is 20% higher than traditional taped machine and about 8% higher than conventional inverter welding machine
- Unique dual-loop motor-drive control program: inner-loop current control for more powerful wire feeding and outer-loop speed control for more stable wire feeding
- Encoder sampling for speed provides higher accuracy of wire feeding speed
- Multi-clean cabin design ensures complete isolation of strong and weak electricity. Protection level reaches IP23S(industry-leading)
- Full-enclosure intensive integrated air duct with DC fan of stepless speed, greatly improving cooling efficiency and fan life

Overall New Control Solution

- Dual-control loop power, ultra-high control frequency and full software adjustment, be able to accurately control transition state of each droplet and easily response to each welding process
- Up to 1500 amps / millisecond of current gradient and wire fusion concentrated in high-current zone, effectively ensures stable arc, strong anti-interference and guick-recovery arc in abnormal conditions
- Wide-range matching of voltage can ideally adapt to various changes of wire extensions
- Both "standard mode" (default) and "fast mode" are available. Two completely different welding processes can be used in a model





Dex CM3000

More Functions and Better Performances Than Traditional Welding Machines*



- High duty-cycle, high deposition rate and high wire feeding rate (max. 28 m / min). Maximum welding speed can be more than 2 m / min
- **Soft art start and high success rate** enables rapid formation of fusion pool and perfect welding spot in 0.3 second
- **Soft welding arc and strong gap-bridging**, effectively solves the rough welding gaps due to cutting
- Concentrated arc, clear directivity and strong penetration
- Intelligent control of welding energy ensures energy to be concentrated in the wire fusion zone with high deposition rate. Better wire feeding rate is realized in the same welding current
- Lower pilot arc current and more reasonable current waveform control can reduce spatter.

Dex PM3000

New Pulse Process Brings Superior Welding Experience and Easier Pulse Welding

- Multi-process model and excellent compatible with Dex CM3000 welding process. All proficient in CS, SS, Al alloy, DC, Pulse, dual-pulse
- Huge expert welding database: synergic regulation and parameter auto-correlation
- New pulse welding control solution brings softer arc starting and less spatter
- Strict energy allocation in welding solution enables clearer dual-pulse forming
- Diversified welding expert systems and special programs for Al welding to obtain optimal Al (alloy) welding quality;
- Pulse welding parameter in each phase is opened for fine tuning and better welding quality is achieved



^{*:} Traditional welding machine refers specifically to the wide-use tapped welding machines, thyristor machines, analog inverter machines in thin-plate industry.



Dex P(C)M 3000

Technical Data Sheet

Machine Model	Dex CM3000	Dex PM3000				
Control Modede	Full digital					
Input Voltage	3P 380V(-15%~+21%) , 323Vac ~ 460Vac					
Input Power Frequency	45 ~ 65Hz					
Input Volume	9.2KVA/8.7KW					
Power Factor	0.94					
Efficiency	90%					
Open Circuit Voltage	54.2V					
Output Current Range	30A~300A					
Output Voltage Range	12V~30V					
Rated Duty Cycle	60%@280A@40°C					
Welding Modes	CO ₂ /MAG/MMA, DC	CO ₂ /MAG/MIG , DC /Pulse/Dual pulse				
Welding Steps	2T	2T \4T \ SP4T				
Filler Wire Diameter	φ0.8/1.0/SPmm	φ0.8/1.0/1.2/SPmm				
Welding Materials	Carbon Steel/Electrode	Carbon Steel/Stainless Steel/ Alloy Aluminum /Electrode				
Wire feeding Speed Adjustment range	1.4~28m/m					
Arc Characteristic	-9 ~ +9					
Degree Protection	IP23S					
Dimension	610mm×260mm×398mm					
Weight	25.4Kg					

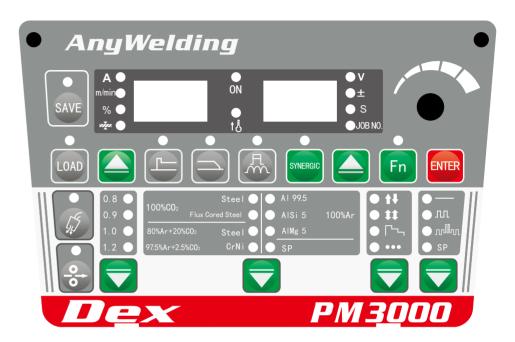
Dex CM3000 Order information

Accessories details	Remarks				
Welding power source	Dex CM3000 Power source				
Group cable	25mm², 1.8m, fast coupling, earth clamp				
Torch A	150A Torch (Panasonic type neck, euro connectors)				
Torch B (Optional)	200A Torch (Panasonic type neck, euro connectors)				
Trundle	4pcs In a set				
CO ₂ Heating Relief Valve	AC36V, 25L/min				
Wire Feeder	0.8/1.0				
Wire Feeder Driving Kits	Feeder Driving Kits Motor, Driving Units, Fast Coupling, Feeding Rollers				

Dex PM3000 Order information

Accessories details	Remarks				
Welding Power Source	Dex PM3000Power source				
Group Cable	35mm², 1.8m, fast coupling, earth clamp				
Torch	300A Euro Type Torch				
Trundle	4pcs In a set				
CO ₂ Heating Relief Valve	AC36V, 25L/min				
Wire Feeder Driving Kits	Motor, Driving Units, FastCoupling, Feeding Rollers				

Compact Model For High-Efficiency Welding

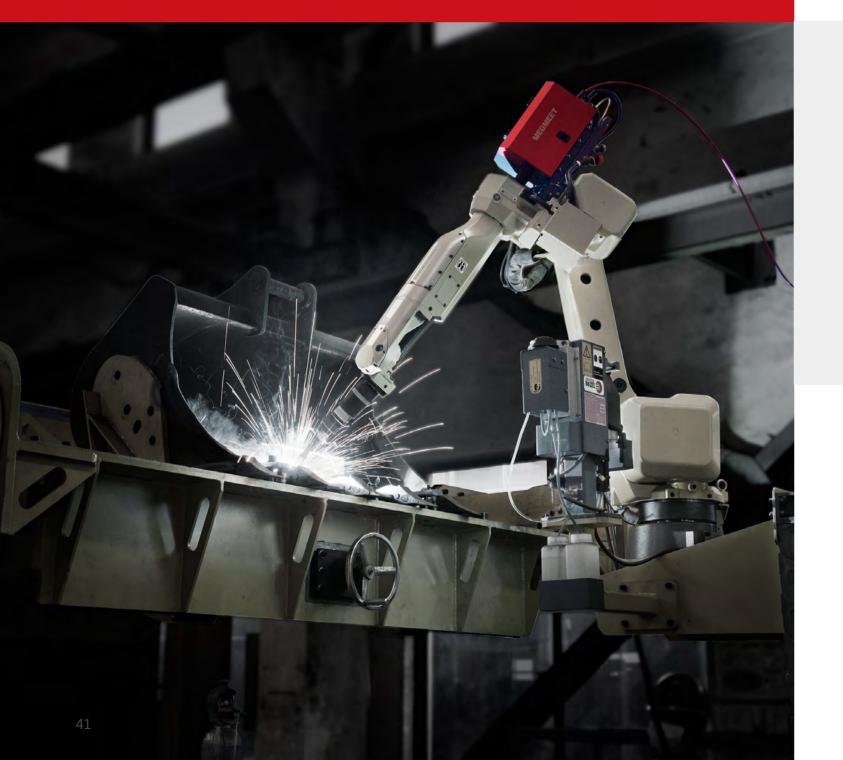






SUPERIOR ADAPTABILITY

With Robot and Special Device



Superior Adaptability

Abundant Communication Interface, Specialized Robot Software & Hardware Module

- Stable arc, high consistency in parameter and high reliability in power source, to be effective supporting in bulk copy operation and long stable welding of robot;
- Both Euro-type(defaulted) and Panasonic-type(optional) welding torch for robot-model wire feeder are available:
- Flexible communication interface: Analog\Devicenet\CAN Open\MEGMEET CAN\RS-485 \EtherNet/IP (6 selections);
- "One Key" selection of robot brand in internal menu can simplify complicated parameter configuration;
- Be Compatible with welding mode classification of mainstream robot brands, and optional Megmeet unique 4 modes are available: Normal/Monitoring/JOB/Free;
- **Double touch sensor power supply*:** defaulted high-pressure touch sensor power supply and optional low-pressure touch sensor. No additional touch sensor power source is needed for robot;
- DC54V high-pressure touch sensor power supply brings stronger penetration through oil stain and painting of plates and less cost for working station integration of robot;
- Accurate real-time feedback of welding current and voltage to support effective robot arc tracking;
- Push-pull welding torch for robot is available: welding power source directly drive push-pull welding torch motor and maintain synchronization with wire feeder torque and speed.

Communication Mode List

Machine Model An	Communication Mode					Touch Sensor		Arc Track	
	Analog	DeviceNet	CAN Open	MEGMEET CAN	RS-485	EtherNet/ IP	High Pressure	Low Pressure	Support
Ehave	•							•	•
Artsen	•	•	•	•			•	•	•
Artsen II	•	•	•	•	•	0	•	•	•
Artsen Plus	•	•	•	•	•	0	•	•	•

^{*:} Ehave series only have low-pressure touch sensor power source

Standard

Optional

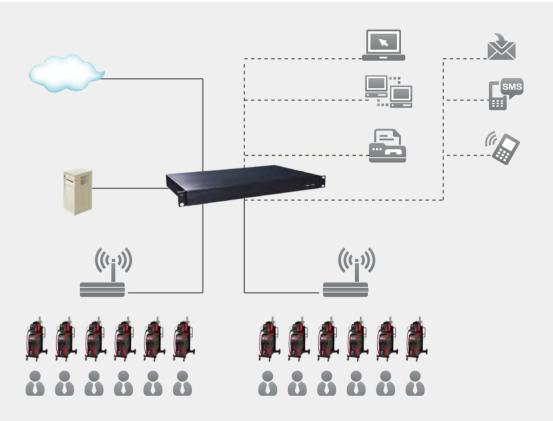


SMARC Megmeet Welding Information Management System The Party of the least of the l ction of Industry & Internet **Integration and Intera**

What SMARC Can Do?

- ■Overall real-time monitoring and fault alarming
- ■Accurate data acquisition and management
- ■Effective networking of machine, welder and document
- ■Easier process traceability and massive cloud storage
- ■Flexible Interaction with other software and digital facility

SMARC System Architecture



- Each Megmeet welding machine has access to Smarc system
- Welding machine is able to connect with Smarc through both wired network(Ethernet) and wireless network(Wi-Fi)
- Unique "Tri-Mode System" function design can be extensively adaptive to various welding jobsites
- Superb "Four Principles of Control" designing effectively enables minimal interference to operation habit of welder while welding quality is well guaranteed
- All welding parameters can be opened to Smarc system and more transparency for welding process is available





MEGMEET

Shenzhen Megmeet Electrical Co.,Ltd

5F, Ziguang information Harbor, Langshan Road, Nanshan district, Shenzhen.

www.megmeet.com

weld4s@megmeet.com

Tel: +86-755-86600500

Fax: +86-755-86600840

Postcode: 518057

Hot line:

400-666-2163