

Dex Series
(Compact)



Dex Series
(Decompact)

Compact but
Powerful and
Professional.

Dex Series

Born for sheet metal

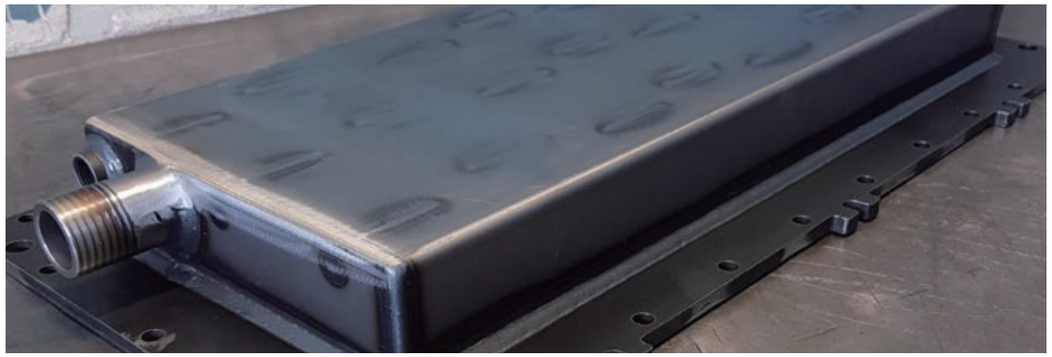
SYNERGY

iOT

Class D

Features

- Low spatter arc for carbon steel at synergic MAG mode
- Better performance for SUS at synergic mode
- Short-arc pulse MIG/MAG (QPT) with superb performance for SUS
- Highly easy to use with wide expert database and synergic control
- Power-saving with up to 90% efficiency
- Waveform control at a new level with 180K HZ output frequency
- Better tolerance for minor changes of welding voltage
- Standard Job saving features (up to 50 Job)
- Up to 15m inter-connection cable for more flexibility
- Highly adaptive for automation with precise control of wire-feeding
- Longer service life and lower defective rate thanks to better mechanical design



*: CE and RCM only applicable to Dex DM3000 and Dex PM3000 and Dex PM3000 Q.

Dex Series

☑ Standard
☒ Optional with extra costs
☐ Not Applicable

Dex PM3000 (Compact)
Dex PM3000S (Separate)

- Spatter-Free Synergic, Pulse and Double Pulse MAG for Carbon Steel and Stainless Steel
- Pulse & Double Pulse MIG for Aluminum and alloy

☑ LSA(Low.spatter Arc for MAG / CO_2)
☑ Pulse MIG / MAG ☑ MMA
☒ QPT (Short-arc pulse MIG / MAG)
☐ Synergic MAG for Metal-cored wire
☐ Pulse MAG for Metal-cored wire
☑ Steel ☑ Stainless Steel ☑ Aluminum

Dex DM3000 (Compact)
Dex DM3000S (Separate)

- Spatter-Free Synergic MAG for Carbon Steel and Stainless Steel

☑ LSA(Low.spatter Arc for MAG / CO_2)
☐ Pulse MIG / MAG ☑ MMA
☒ QPT (Short-arc pulse MIG / MAG)
☐ Synergic MAG for Metal-cored wire
☐ Pulse MAG for Metal-cored wire
☑ Steel ☑ Stainless Steel ☐ Aluminum



Decompact



Compact

Dex PM3000Q (Compact)
Dex PM3000QS (Separate)

- Spatter-Free Synergic, Pulse and Double Short-arc Pulse MAG for Carbon Steel and Stainless Steel
- Short-arc Pulse & Double Pulse MIG for Aluminum and alloy

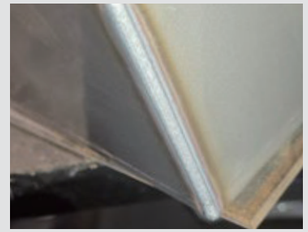
☑ LSA(Low.spatter Arc for MAG / CO_2)
☑ Pulse MIG / MAG ☑ MMA
☑ *QPT (Short-arc pulse MIG / MAG)
☑ Synergic MAG for Metal-cored wire
☑ Pulse MAG for Metal-cored wire
☑ Steel ☑ Stainless Steel ☑ Aluminum

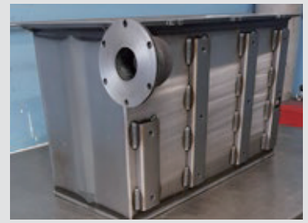
LSA (Low-spatter Arc for MAG / CO_2)

Optimized and upgraded on the basis of standard synergic MIG/MAG, through software-based precise control, the molten droplet of short-circuit transfer is softly disconnected, so that the spatter caused by the traditional liquid bridge explosion and electromagnetic repulsion is reduced. The molten pool is calmer, and the weld formation is more beautiful.

Process Characteristics:

- Accurate in software control for high-frequency short-circuit transfer. Lower in spatter. Lower in heat input. Highly suitable for sheet metal welding
- Soft in welding arc and fine with spatter particles. Less spatter to remain on the workpiece. Lower with rework like grinding after welding. Higher in total working efficiency
- Higher in welding speed. Better in deformation control. More helpful in welding quality





QPT (Short-arc pulse)

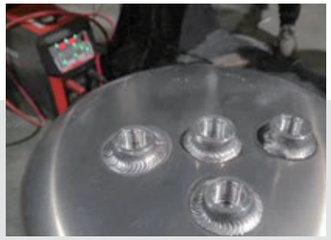
The industry-leading 180 K HZ inverter frequency brings advantages of high-speed sampling and control. Dex can find critical control and balance between short-circuit and spray transfer, and achieve higher transfer speed.

Process Characteristics:

- Low spatter, low heat-input, suitable for high speed sheet metal welding
- 50%~100% faster than standard pulse MIG/MAG process
- Less sensitive to shield gas composition. Capable of welding SUS solid wire with mixed gas of 80% argon / 20% CO_2



Stainless steel



Aluminum alloy



Specification

● Standard ○ Optional

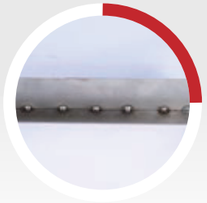
Manual - Compact	Dex DM3000	Dex PM3000	Dex PM3000Q	-	-	-
Manual - Decompact	-	-	-	Dex DM3000S	Dex PM3000S	Dex PM3000QS
Robotic	-	-	-	Dex DM3000R	Dex PM3000R	Dex PM3000QR
Process						
Synergic MAG / CO_2	●	●	●	●	●	●
LSA	●	●	●	●	●	●
Pulse MIG / MAG	-	●	●	-	●	●
QPT	-	○	●	-	○	●
MMA	●	●	●	●	●	●
Material						
Steel	●	●	●	●	●	●
Stainless Steel	●	●	●	●	●	●
Aluminum & Alloy	-	●	●	-	●	●
Metal-cored Wire	-	-	●	-	-	●

Specification			
Control mode	Fully Digital-control		
Rated Input Voltage	AC 3PH 380V -15% ~ 400 V +15% (3PH 323V ~ 3PH 460V)		
Input Frequency	45 ～ 65Hz		
Rated Input Power	9.2KVA / 8.7KW		
Power Factor	0.94		
Efficiency	91%		
Rated OCV	54.2V		
Rated Output Current	30A~300A		
Rated Output Voltage	12V~30V		
Parameter channel	50		
Duty Cycle (40˚C / 10 min)	100%@207A / 24.9V 60%@250A / 28V		100%@217A / 24.9V 60%280A / 28V
Wire feeding speed	1.4 ～ 28m/min		
Insulation Grade	H		
Ingress Protection	IP23 S		
Protection Against Lightening	Class D (6000V/3000A)		
Certification	EN60974-10:2014 EN60974-1:2012 GB/T15579.1-2013		GB/T15579.1-2013
Working Temperature	-10˚C～ +40˚C		
Dimension (L / W / H)	610mm×260mm×398mm		
Gross Weight	25.4kg		23.7kg
Manual wire-feeder	Built-in wire-feeder	Light-weight wire-feeder	Enclosed-type wire-feeder





Multiple welding processes



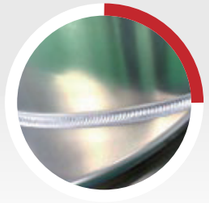
High-speed spot welding

Higher arc-striking success rate. Easier to control. Completing a round and full-sized welding spot in 0.3 seconds.



Stainless steel

Special control program for stainless steel welding. Reduce the sensitivity to pulses welding arc. No complicated parameter matching is required. Applicable with multiple types of shield gas to weld SUS only by adjusting the welding voltage.



Aluminum alloy

Various expert and special programs for aluminum welding. Brand new pulse welding control scheme. The contrast of peak and base current can reach 90%, and therefore enables welders to achieve clear fish-scale welding of aluminum.

MEGMEET
WELDING TECHNOLOGY
Stock Code
002851

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MEGMEET
Welding Technology

MEGMEET's strong technical strength, extensive industry application experience, relentless attention to customer needs, and the spirit of continuous innovation enable us to bring tailor-made products and solutions to help customers achieve greater success.

*MEGMEET Welding Technology Co., Ltd is continuously striving to develop and innovate for new product. We reserves the right of changing the technical specifications and designs without notices in advance.

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2026-08