



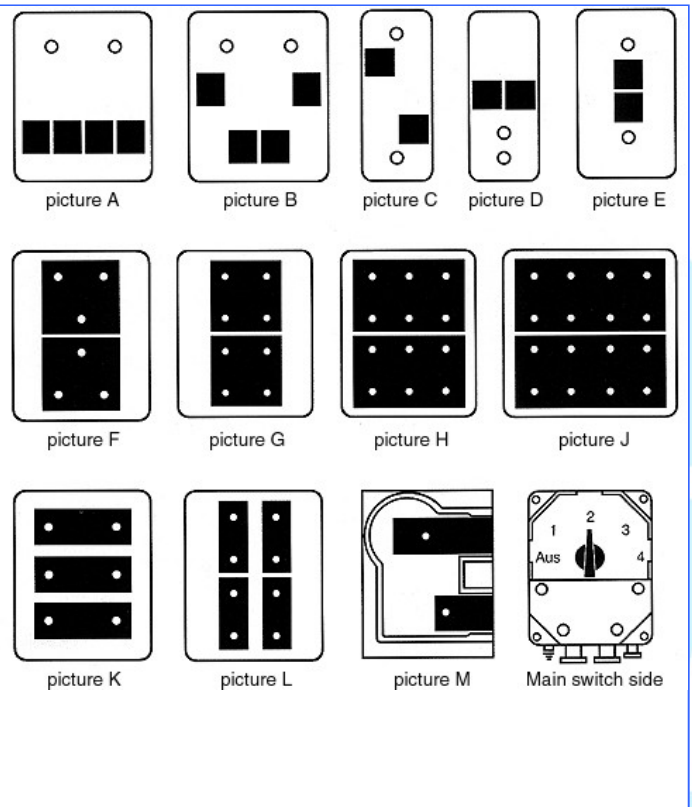
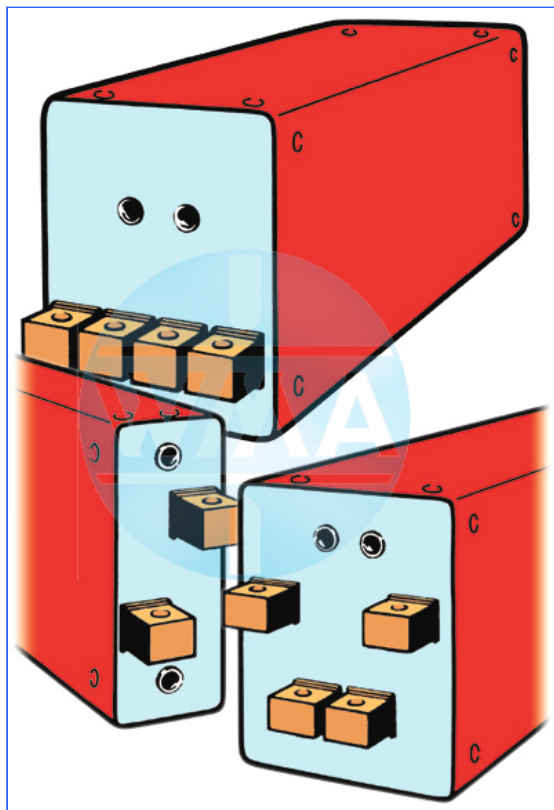
# Welding transformers

Version: 08-2009

## AC, medium frequency and 3-phase DC transformers with various connection variations

We supply impedance welding transformers

- with and without step-switch
- with a capacity of 10 - 800 kVA
- in various designs (in accordance with DIN 44 766)



We reserve the right to make changes which are in the interest of technical progress.

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# Welding transformers

Version: 08-2009

## ISO-AC-Transformers



### Type RT32

32 kVA 400 V 50 Hz ISO with KSR

**XT4.016.C00**

### Type RT36

36 kVA 400 V 50 Hz ISO with KSR

**XT4.018.C00**

### Type RT48

48 kVA 400 V 50 Hz ISO with KSR

**XT4.021.C00**

### Type RT54

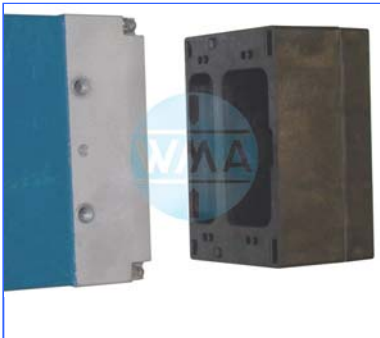
54 kVA 400 V 50 Hz ISO with KSR

**XT4.023.001**

### Type RT61

61 kVA 400 V 50 Hz ISO with KSR

**XT4.048.001**



### Type RT76

76 kVA 400 V 50 Hz ISO with KSR

**XT4.038.000**

### Type RT103

103 kVA 400 V 50 Hz ISO with KSR

**XT4.047.C00**

*Transformer with rear-casing*



**Rear-casing, complete with gaskets**

**XK3.1-3001-419**

*The Transformers are selected itemized. The transformers are available in all shown pictures and in various designs! For any inquiry, please contact our Consulting engineer.*

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**Transformers-2**



# Welding transformers

Version: 08-2009

## HT-AC-Transformers



### Type HT100.0.S

100 kVA 400 V 50 Hz without step-switch **XT0.030.A00**

## ET-AC-Transformers



### Type ET250.0.M

250 kVA 400 V 50 Hz  
10.0-12.5 V plate-connections **XT0.036.C02**

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**Transformers-3**



# Welding transformers

Version: 08-2009

## Medium frequency welding transformer

- new medium frequency transformer generation
- approx. 40% lighter and 30% smaller than conventional medium frequency transformers
- performance level at 20% ED: 90, 120, 180, 240, 480 kVA
- for use in robot applications and hand-held welding guns
- standard connection dimensions
- very economical due to consistently reducing performance loss



Example: MF-Transformer



Rear view: step-connections

<b>MF100</b>	ca. 10 kA	7-10.0 V	<b>XT3.030.N02</b>
<b>MF130</b>	ca. 27 kA	9-12.7 V	<b>XT3.032.N01</b>
<b>MF150</b>	ca. 30 kA	10-13.0 V	<b>XT3.033.N02</b>
<b>MF180</b>	ca. 35 kA	11-13.7 V	<b>XT3.052.N02</b>
<b>MF250</b>	ca. 40 kA	16.5 V	<b>XT3.036.N01</b>
<b>MF300</b>	ca. 50 kA	13-16.5 V	<b>XT3.036.N02</b>



**! 2 x 180 kVA = ca. 70 kA  
! 4 x 130 kVA = ca. 120 kA**

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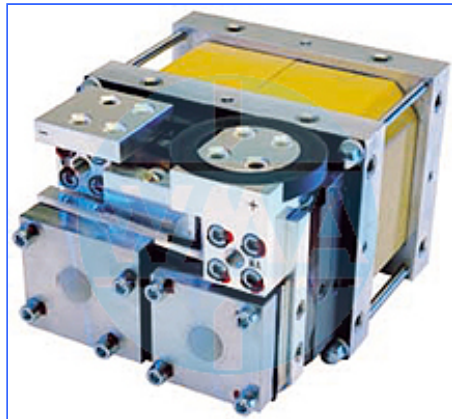
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Transformers-4



# Welding transformers

Version: 08-2009



## Medium frequency welding transformer NMFT-Series

	NMFT 1120.090	NMFT 1140.090	NMFT 1180.090	NMFT 1260.132
Nominal primary voltage	500 V	500 V	500 V	500 V
Frequency	1000 Hz	1000-1200 Hz	1000-1200 Hz	1000-1200 Hz
Nominal capacity at 20% ED	120 kVA	140 kVA	180 kVA	260 kVA
Constant power at 100% ED	53.7 kVA	62.6 kVA	80.5 kVA	116.3 kVA
Primary continuous current		125 A	161 A	233 A
Secondary continuous current		7000 A	9000 A	8800 A
Secondary open-circuit voltage	9.0 V	9.0 V	9.0 V	13.2 V
Temperature sensor	1x primary 150° C, 1x secondary 80° C			
Insulation class	F	F	F	F
Protection type	Transformer IP 54, primary and secondary connections IP 00			
Cooling water requirement	at least 8 l/min., max. 30° C			
Water pressure	max. 6 bar			
Current inductor	150 mV / kA + - 3%			
Electrical Connection	primary	M8	M8	M8
	secondary	4 x M8	4 x M8	4 x M8
Weight	15.5 kg	19 kg	20 kg	28 kg
Dimensions (BxHxD)	160x127x310 mm	160x127x310 mm	160x127x310 mm	160x127x370 mm

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