

Xmelt-accessories
Transformers for world-wide export

Gluings-Systems
Quality Assurance Systems
Camera Verification Systems

Xmelt Accessories Transformers for world-wide export

Thanks to world-wide export and close links with OEM's, who sell machines almost anywhere, we can adapt our melters to a large range of local electrical power systems. Even small details such as the height of housing roots for U.S. deliveries are implemented. 3-phase autotransformers with up to 7 voltages allow for

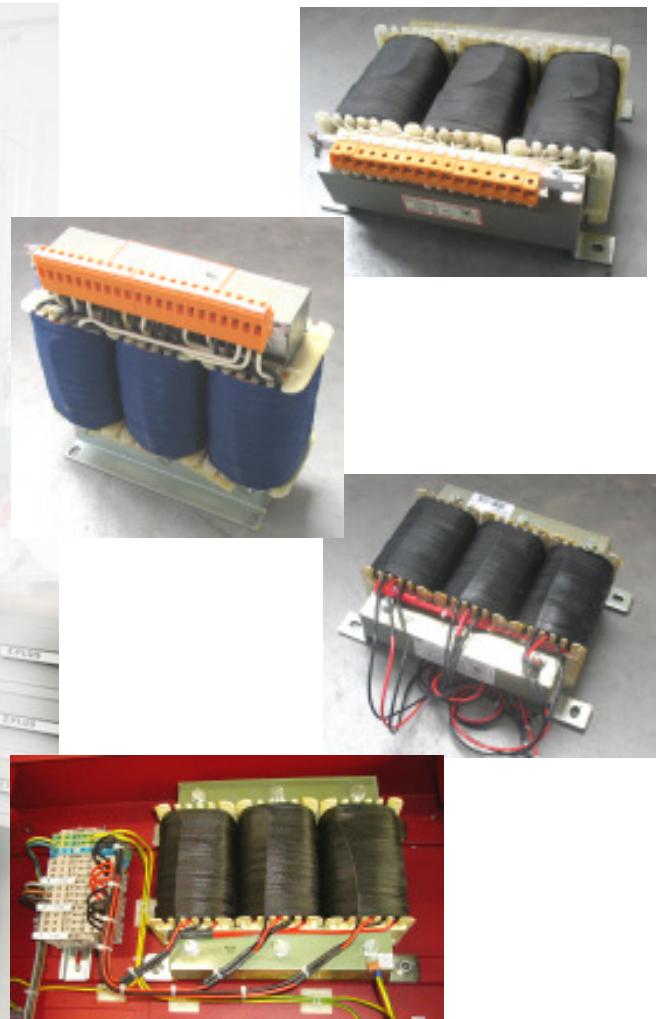
a flexible adaptation to international power supply. Depending on customers we ship transformers separately for assembly into existing switch cabinet, or completely mounted.

If possible the transformer can be found in the bottom section, or there is a bigger switch cabinet, where you can place the melter on top.

If there is a grid without strong neutral line, you can create a strong „N“ by a special isolating transformer on secondary side.

For the following voltages there are transformers off the shelf:

- 3x 400/480V
- 3x 180/200/220/240V
- 3x 380/400/415/440/460/480/500V
- 3x 560/580/600/620/640V



Baumer hhs offers an extensive range of gluing and quality assurance systems. For more information see www.baumerhhs.com

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International Voltages and Frequencies*

West & Eastern Europe	
Country	Grid Voltage
Albania	50Hz 230/400 V
Belgium	50Hz 230/400 – 127-220 V
Bulgaria	50Hz 230/400 V
Denmark	50Hz 230/400 V
Germany	50Hz 230/400 V
Finland	50Hz 230/400-500 ² – 660 ² V
France	50Hz 127/220 – 230/400 – 500 ² – 380/660 ² – 525/910 ² V
former USSR	50Hz 230/400 – 690 ² V
Greece	50Hz 230/400 – 127/220 ³ V
Great Britain	50Hz (230/400 V)
Ireland	50Hz 230/400 V
Iceland	50Hz 127/220 ³ – 230/400 V
Italy	50Hz 127/220 – 230/400 V
Croatia	50Hz 230/400 V
Luxembourg	50Hz 230/400 V
Netherlands	50Hz 230/400 – 660 ² V
Northern Ireland	50Hz 230/400 – Belfast 220/380 V
Norway	50Hz 230-230/400-500 ² – 690 ² V
Austria	50Hz 230/400 – 500 ² – 690 ² V
Poland	50Hz 230/400 V
Portugal	50Hz 230/400 V
Rumania	50Hz 230/400 V
Sweden	50Hz 230/400 V
Switzerland	50Hz 230/400 – 500 ³ V
Serbia	50Hz 230/400 V
Slovakia	50Hz 230/400 – 500 ² – 690 ² V
Slovenia	50Hz 230/400 V
Spain	50Hz 230/400 V
Czech Republic	50Hz 230/400 – 500 ² – 690 ² V
Hungary	50Hz 230/400 V

North America	
Country	Grid Voltage
Canada	60Hz 600 – 120/240 – 460 – 575 V
USA	60Hz 120/208 – 120/240 – 277/480 – 600 ² V

Central and South America	
Country	Grid Voltage
Argentina	50Hz 220/380 V
Bahamas	60Hz 115/200 – 120/208 V
Barbados	50Hz 110/190 – 120/208 V
Belize	60Hz 110/220 – 220/440 V
Bolivia	60Hz 220/380 – 480 V, 50Hz 110/220 – 220/380 V (exception)
Brazil	60Hz 110/220 – 220/440 – 127/220 – 220/380 V
Chile	50Hz 220/380 V
Costa Rica	60Hz 120/208 ³ – 120/240 – 127/220 – 254/440 ³ – 227/480 ² V
Dominican Republic	60Hz 120/208 – 120/240 – 480 ² V
Ecuador	60Hz 120/208 – 127/220 V
Guyana	50Hz 110/220 V (Georgetown), 60Hz 110/220 – 240/480 V
Guatemala	60Hz 120/208 – 120/240 – 127/220 – 277/480 ² – 480 ² – 550 ² V
Haiti	50Hz 220/380 V (Jacmel), 60Hz 110/220 V
Honduras	60Hz 110/220 – 127/220 – 277/480 V
Jamaica	50Hz 110/220 – 440 ² V
Columbia	60Hz 110/220 – 150/260 – 440 V

Central and South America	
Country	Grid Voltage
Cuba	60Hz 120/240 – 220/380 – 277/480 ² – 440 ² V
Mexico	60Hz 127/220 – 440 ² V

Nicaragua	60Hz 110/220 – 120/240 – 127/220 – 220/440 – 254/40 ² V
Panama	60Hz 120/208 ² – 120/240 – 254/440 ² – 277/480 ² V
Paraguay	60Hz 220/380 – 220/440 V
Peru	60Hz 220 – 220/380/440 V
Puerto Rico	60Hz 120/208 – 480 V
El Salvador	60Hz 110/220 – 120/208 – 127/220 – 220/440 – 240/480 ² – 254/440 ² V
Surinam	60Hz 115/230 – 127/220 V
Trinidad	60Hz 110/220 – 120/240 – 230/400 V
Uruguay	50Hz 220 V
Venezuela	60Hz 120/208 – 120/240 – 208/416 – 240/480 V

Africa	
Country	Grid Voltage
Egypt	50Hz 110/220 – 220/380 V
Ethiopia	50Hz 220/380 V
Algeria	50Hz 127/220 – 220/380 V
Angola	50Hz 220/380 V
Benin	50Hz 220/380 V
Ivory Coast	50Hz 220/380 V
Gabon	50Hz 220/380 V
Ghana	50Hz 127/220 – 220/380 V
Guinea	50Hz 220/380 V
Kenya	50Hz 220/380 V
Cameroon	50Hz 127/220 – 220/380 V
Congo	50Hz 220/380 V
Liberia	60Hz 120/208 – 120/240 V
Libya	50Hz 127/220 ³ – 220/380 V
Madagascar	50Hz 127/220 – 220/380 V
Malawi	50Hz 220/380 V
Mali 50	50Hz 220/380 V
Morocco	50Hz 115/200 – 127/220 – 220/380 – 500 ² V
Mauritius	50Hz 240/415 V
Mozambique	50Hz 220/380 V
Namibia	50Hz 220/380 V
Niger	50Hz 220/380 V
Nigeria	50Hz 220/415 V
Rwanda	50Hz 220/380 V
Zambia	50Hz 220/380 V – 415 – 550 ² V
Senegal	50Hz 127/220 – 220/380 V
Sierra Leone	50Hz 220/380 V
Somalia	50Hz 220-220/440 V
Sudan	50Hz 240/415 V
South Africa	50Hz 220/380 – 500 ² – 550/950 ² V
Swaziland	50Hz 220/380 V
Tanzania	50Hz 230/400 V
Togo	50Hz 127/220 – 220/380 V
Tunisia	50Hz 115/200 – 220/380 V
Uganda	50Hz 240/415 V
Zaire	50Hz 220/380 V
Zimbabwe	50Hz 220/380 V

Middle East & Far East	
Country	Grid Voltage
Afghanistan	50Hz 220/380 V
Bahrain	50Hz 230/400 V
Bangladesh	50Hz 230/400 V
Burma	50Hz 230/400 V
China VR	VR 50Hz 127/220 – 220/380 V (in mining: 1140 V)
Cyprus	50Hz 240/415 V
Hong Kong	50Hz 200/346 V
India	50Hz 220/380 – 230/400 – 240/415 V
Indonesia	50Hz 127/220 – 220/380 – 400 ² V
Iraq	50Hz 220/380 V
Israel	50Hz 230/400 V
Japan	50Hz 100/200 – 400 ² V

Southern Honshu, Shikoku, Kyushu, Hokkaido, Northern Honshu	60Hz 110/220 – 440 ² V
Jordan	50Hz 220/380 V
Cambodia	50Hz 120/208 V – Phnom Penh 220/238 V
Korea (North) 60	60Hz 220/380 V
Korea (South)	60Hz 100/200 ³ – 220/380 – 440 ² V
Kuwait	50Hz 240/415 V
Lebanon	50Hz 110/190 – 220/380 V
Malaysia	50Hz 240/415 V
Mongolia	50Hz 220/380 V
Oman	50Hz 220/380 – 240/415 V
Pakistan	50Hz 230/400 V
Philippines	60Hz 110/220 – 440 V
Qatar	50Hz 240/415 V

² Only Industry

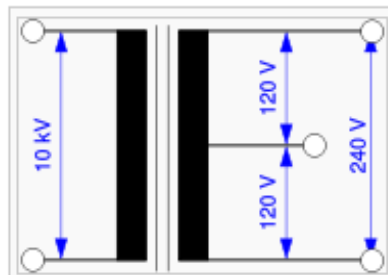
³ No further extension

Saudi Arabia	60Hz 127/220 – 220/380 – 480 ² V (220/380 – 240/415 V 50Hz: only randomly)
Singapore	50Hz 240/415 V
Sri Lanka	50Hz 230/400 V
Syria	50Hz 115/200 – 220/380 – 400 ² V
Taiwan	60Hz 110/220 – 220 – 440 V
Thailand	50Hz 220/380 V
Turkey	50Hz 220/380 V (parts of Istanbul: 110/190 V)
Arab Emirates (Abu Dhabi; Ajman; Dubai; Fujairah; Ras al-Khaimah; Sharjah; Umm al-Gaiwain)	50Hz 220/380 – 240/415 V
Vietnam	50Hz 220/380 V
Yemen (North)	50Hz 220/380 V
Yemen (South)	50Hz 230/400 V

taken from Siemens KT 10.1 · 2008

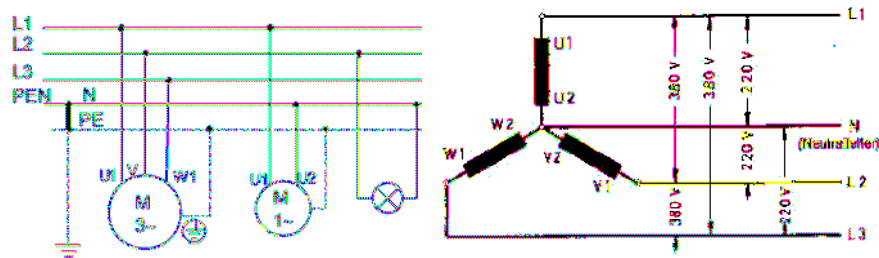
When the second voltage value is twice as high as the first, you have a 1-phase 3-line-system with 2 outer and 1 inner line.

Example: 120/240V



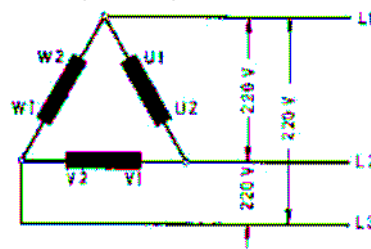
When the second voltage value is by factor 1,73 as high as the first, you have a 3-phase-system with 3 outer and 1 neutral line (4 wires).

Example: 230/400V



When there is only 1 voltage value, you have a 3-phase-system with 3 outer lines (3 wires).

Example: 220V



- All details given are for information only and without responsibility

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