

**SIEMENS**

**Modern Broadcast Transmitters  
for Medium and Short Wave  
Product Information**



Founded in 1847, Siemens, whose employees number over 320 000, 98 000 of them outside the Federal Republic of Germany alone and whose yearly sales amounted to 29 thousand million DM, is one of the biggest electronics firms in the world.

The first transmitters for telecommunication went into service in 1920. The required amplifier tubes and components are largely manufactured in our own works. The Siemens Components Group alone, has 27 000 employees.

This delivery program presents a survey of our new radio broadcasting transmitters for short wave and medium wave with an output power of 5 to 100 kW, all of them functioning according to of pulse duration modulation.



# Medium Wave Broadcast Transmitters

## Features of Broadcast Transmitters

- Fault memory
- Power reduction
- Automatic recycling
- High efficiency
- No modulation transformer
- Easy installation
- High reliability
- In accordance with CCIR and IEC recommendation

	Type	Carrier power	Frequency range
	WR Send 5M-03	5 kW	525 to 1605 kHz
	WR Send 10M-03	10 kW	525 to 1605 kHz
	WR Send 50M-03 <sup>1)</sup>	50 kW	525 to 1605 kHz
	WR Send 100M-03 <sup>1)</sup>	100 kW	525 to 1605 kHz

<sup>1)</sup> Dimensions and weight do not include HV transformer contained in the delivery package.





10 kW Broadcast Transmitter

Power supply

Dimensions  
width/  
depth/  
height

Approx.  
weight

Tubes

Cooling

380/220 V  
50/60 Hz  
16 kVA

1260/  
840/  
1830 mm

700 kg

1 x RS2015CL  
1 x RS2014CL

forced air

380/220 V  
50/60 Hz  
31 kVA

1260/  
840/  
1830 mm

780 kg

1 x RS2015CL  
1 x RS2014CL

forced air

380/220 V  
50/60 Hz  
50 kVA

1800/  
840/  
1830 mm

950 kg

2 x YL1500

forced air

380/220 V  
50/60 Hz  
130 kVA

4000/  
1800/  
2040 mm

3500 kg<sup>1)</sup>

2 x RS1084CJ

vapor cooling  
and forced air

380/220 V  
50/60 Hz  
230 kVA

4000/  
1800/  
2040 mm

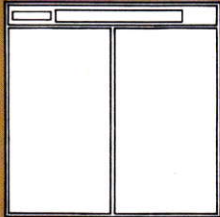
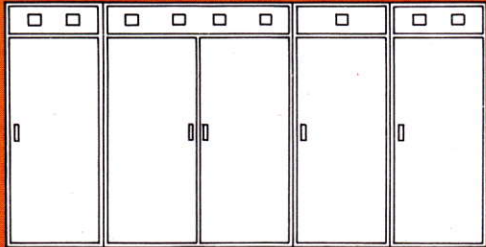
3600 kg<sup>1)</sup>

2 x RS2054SK  
1 x RS1072C

vapor condensation  
cooling and  
forced air



# Short Wave Broadcast Transmitters

	Type	Carrier power	Frequency range
	WR Send 20/10K-03	20/10 kW	3.2 to 9.7 MHz (two frequencies)
	WR Send 50K-04 <sup>1)</sup>	50 kW	4.75 to 26.1 MHz or 3.2 to 17.9 MHz (automatic)
	WR Send 100K-04 <sup>1)</sup>	100 kW	4.75 to 26.1 MHz or 3.2 to 17.9 MHz (automatic)

<sup>1)</sup> Dimensions and weight do not include HV transformer contained in the delivery package.





20 kW Broadcast Transmitter

Power supply

Dimensions  
width/  
depth/  
height

Approx.  
weight

Tubes

Cooling

380/220 V  
50/60 Hz  
50 kVA

1800/  
840/  
1830 mm

950 kg

2 x YL1500

forced air

380/220 V  
50/60 Hz  
130 kVA

4000/  
1800/  
2040 mm

3500 kg<sup>1)</sup>

2 x RS1084CJ  
1 x RS1072C

vapor cooling  
and forced air

380/220 V  
50/60 Hz  
250 kVA

4000/  
1800/  
2040 mm

3600 kg<sup>1)</sup>

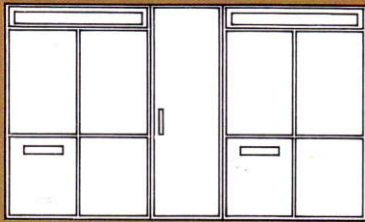
2 x RS2054SK  
2 x RS1072C

vapor condensation  
cooling and  
forced air



# Medium Wave Broadcast Transmitters with Combining Unit

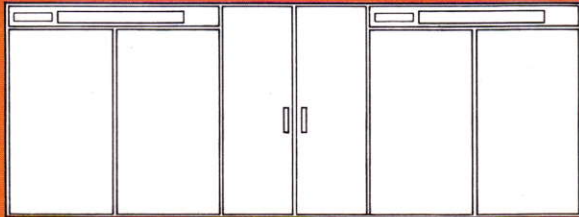
Type



WR Send 2 x 5M-03

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WR Send 2 x 10M-03

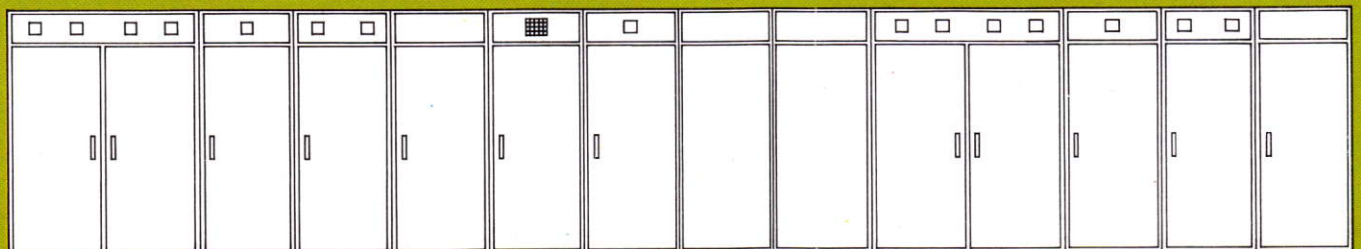


WR Send 2 x 20M-03

WR Send 2 x 50M-03

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WR Send 2 x 100M-03







100/50 kW Broadcast Transmitter

Carrier power	Dimensions width/ depth/ height	Tubes	Cooling
10/5 kW	3000/ 840/ 1830 mm	2 x RS2015CL 2 x RS2014CL	forced air
20/10 kW	3000/ 840/ 1830 mm	2 x RS2015CL 2 x RS2014CL	forced air
40/20 kW	4800/ 840/ 1830 mm	4 x YL1500	forced air
100/50 kW	11200/ 1800/ 2040 mm	4 x RS1084CJ	vapor cooling and forced air
200/100 kW	11200/ 1800/ 2040 mm	4 x RS2054SK 2 x RS1072C	vapor condensation cooling and forced air



# Siemens Transmitters throughout the World

## Sales Program

### AM Broadcast Transmitters

Medium wave and short wave

### Parallel Coupling Network

for parallel connection of two AM transmitters to double the power output or to operate the second transmitter in "stand-by".

Automatic change-over equipment.

### Monitoring Systems

for supervision and measuring

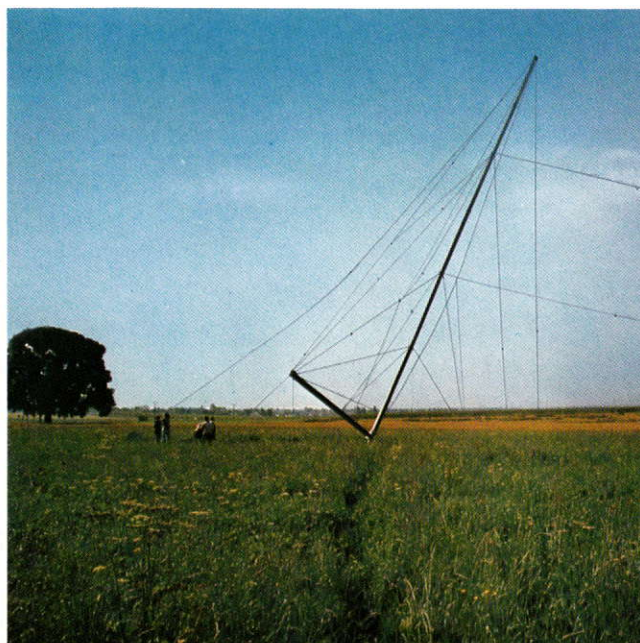
### Dummy Loads

Power range from 5 kW to 100 kW

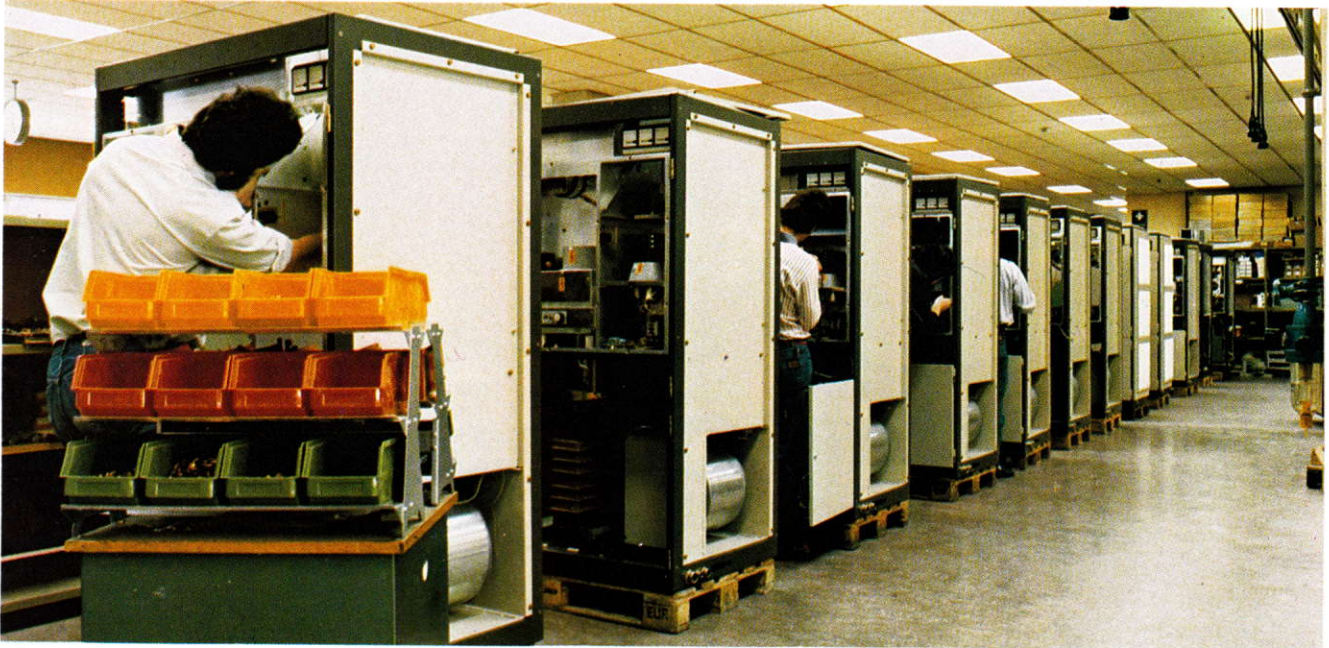
Mobile station



Antenna for mobile station







Series production of broadcast transmitters

**Antenna Systems**

Omnidirectional and directional antenna systems as well as matching units, RF-power cables, open wire feeders, baluns and antenna switching devices.

**Measuring Instruments**

Complete measuring set-ups.

**Power Plants**

Power supplies and distribution boards as well as emergency power plants.

**Radio Links VHF and UHF (FM)**

for the Transmission of radio program and telecommunication channels.

**Studio Equipment**

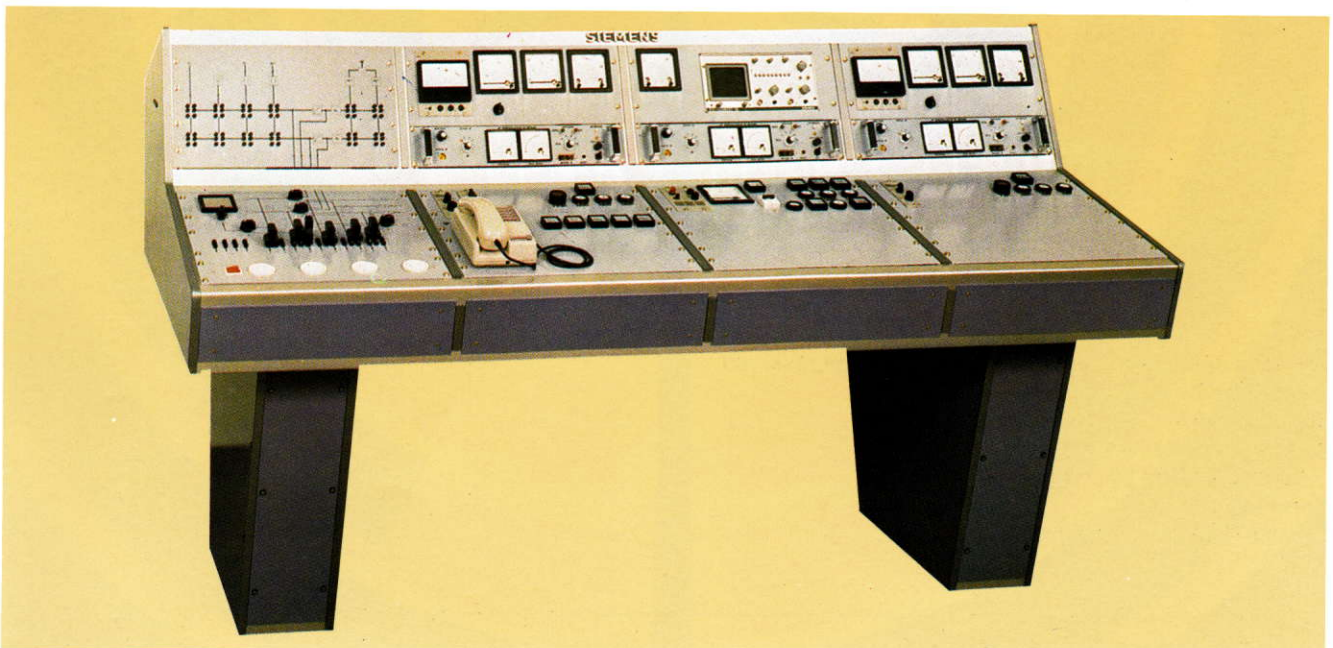
**Mobile Broadcast Stations**

Installation of transmitters, antennas, generator sets, studio equipment, program and communication link on trailers and vehicles.

**Planning of complete Radio Broadcast Stations**

**Installation, Commissioning and Maintenance**

Control desk





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