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## *First 240KW TV System in Asia*

**J**AMPRO recently commissioned the first and only 240 kW dual-channel UHF antenna system in Jakarta, Indonesia as well as all of Asia.

The ability to provide all RF equipment "after the transmitter" was a valuable asset in selecting JAMPRO to design, engineer, manufacture and install this TV broadcasting system.

A UHF broadband panel was utilized with a high power dual-channel channel combiner so that 2 semi-adjacent channels could be combined. The system is fed with a WR 1500 rectangular waveguide. The high power handling and versatility to produce custom directional patterns made the UHF broadband panel ideal. Since JAMPRO is the only U.S. manufacturer to completely design, test and build a UHF broadband panel in the United States, we can custom design the panel for higher power handling.

The two-channel combiner was provided because the necessity of combining two semi-adjacent 120 kW UHF frequencies. The power handling of rectangular waveguide and its efficiency made it a good match for these two channels.

## *JAMPRO Awarded Tallest TV Turnkey in Manila*

**J**AMPRO has been awarded a contract to design, engineer, manufacture, and install the complete installation of a TV broadcasting system in Manila, Philippines for Eagle Broadcasting.

JAMPRO was selected because of its ability to provide all RF equipment "after the transmitters." Also, our engineering department conducted extensive studies of the market to recommend custom design configurations to enhance coverage.

The TV antenna consists of a UHF broadband panel system optimized for the Metro Manila market and is capable of handling 120kW input. The versatility of the UHF panel can be modularly configured to produce directional patterns. Since JAMPRO completely designs its own panel and feed system, high input power levels will be designed to handle 120 kW. Feeding the panels will be dual-runs of rigid transmission line to feed the upper and lower half of the antenna.

A 700-ft. self-supporting tower will be designed, constructed and installed to support the entire UHF panel and feeder systems.

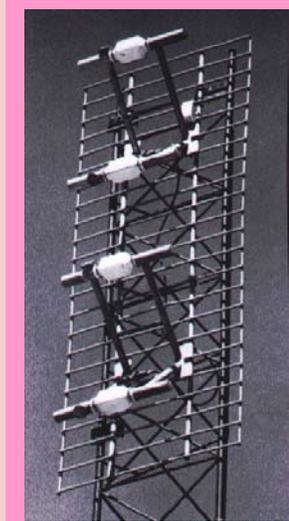
## *Multi Channel VHF System in Colombia*

**J**AMPRO installed and commissioned a multi-channel VHF system in Bogota, Colombia.

The TV antenna system includes VHF panels and a three-channel balanced bandpass combiner for Band III frequencies. The antenna system was sold through Istronyc - JAMPRO's leading Colombian representative.

The JHD-HV4 is comprised of two sets of dual-dipoles onto a flat panel. These were modularly configured around the tower to produce an omnidirectional pattern. The Band III panels were utilized because of their broad banding characteristics of combining channels more than 6 MHz apart, low VSWR over the channels and high panels gain.

The JBPC Bandpass Combiner is designed to combine two or more frequencies/channels into a single output. The unique design of the combiner cavities provides outstanding group delay performance without compromising frequency response. The combiner is constructed of durable high quality aluminum and interconnectors between the cavities are made with milled 1/2" thick flanges.



## *New FM Sidemount Displayed at NAB 98*

**J**AMPRO displays its new FM broadband sidemount antenna during NAB 98.

The JCBP sidemount is designed for either multi-channel applications requiring a broadband antenna or for where changes in frequency may be needed.

Users can anticipate transmitting multiple frequencies into this antenna and having a VSWR of 1.25:1 in the FM band-88-108 MHz. The antenna is capable of an input power of up to 5kW per bay.

The attributes of this product make it very useful for packing a complete system. This antenna combined with transmission line and a JAMPRO RF SYSTEMS branch or bandpass combiner makes for an ideal FM package system.

For more information on the JCPB broadcast antenna, contact JAMPRO's main sales office in California or one of our four regional offices.

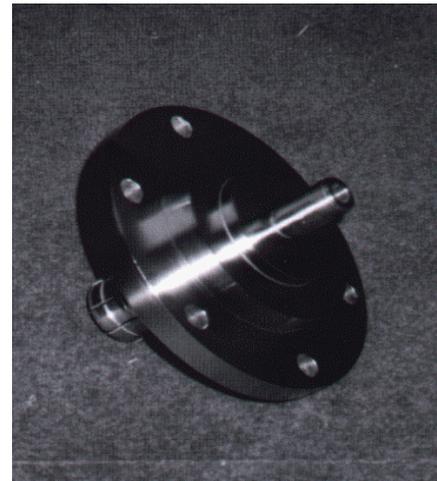
## Quick Step Reducers

**J**AMPRO RF SYSTEMS manufactures a unique and innovative product that is very useful for testing an antenna system or RF components.

Through the use of a Quick Step Reducer field technicians and engineers now have a better product that is more useful than the normal reducer. Ranging in size from 7/8" to 6-1/8" on one end and Type "N" on the other, the step reducer is very useful when sweeping a system.

Some advantages of the quick step are its mechanical specifications. The quick step is thinner than a normal reducer that is either cone or block shaped. Since it is made out of aluminum it is lighter in weight.

The performance of the step reducer is 1.05:1 with dB insertion loss. A Type "N" connector on one end make connecting to testing equipment that much easier.



## Electronic Product Catalog Released at NAB 98

**J**AMPRO introduces its first electronic catalog on. The catalog was developed to better support domestic and international representatives and customers so that more product information is readily available. "We're making strides to meet the technology demands of tomorrow," said Greg Montano, Marketing Coordinator. "There is just so much information that we want to place in the hands of our customers and representatives."

The catalog is broken into several categories. The Company Profile gives a background of JAMPRO - ANTENNAS & RF SYSTEMS, INC. Services provide details on engineering, field technicians and our full-scale test range. TV and FM categories give detail on a full-line of antenna products.

RF Systems details critical components that can really affect the performance of an antenna. From multi-channel combiners and filters to patch panels and waveguide, RF Systems can provide the necessary equipment to ensure that you receive optimum performance from your system.

The Rigid Components category provides information on our full-line of rigid lines and accessories ranging in sizes from 7/8" to 6-1/8". JAMPRO can provide a variety of rigid components ranging from 45° and 90° elbows to tapers and reducers.

To request copies of the catalog, please contact our main sales office in Sacramento, California or one of our four regional sales offices.