

Mosley TA-31

TRI-BAND ANTENNA FOR 10, 15, and 20 METERS

FOR HAMS WITH:

**LIMITED SPACE
LIMITED BUDGET**

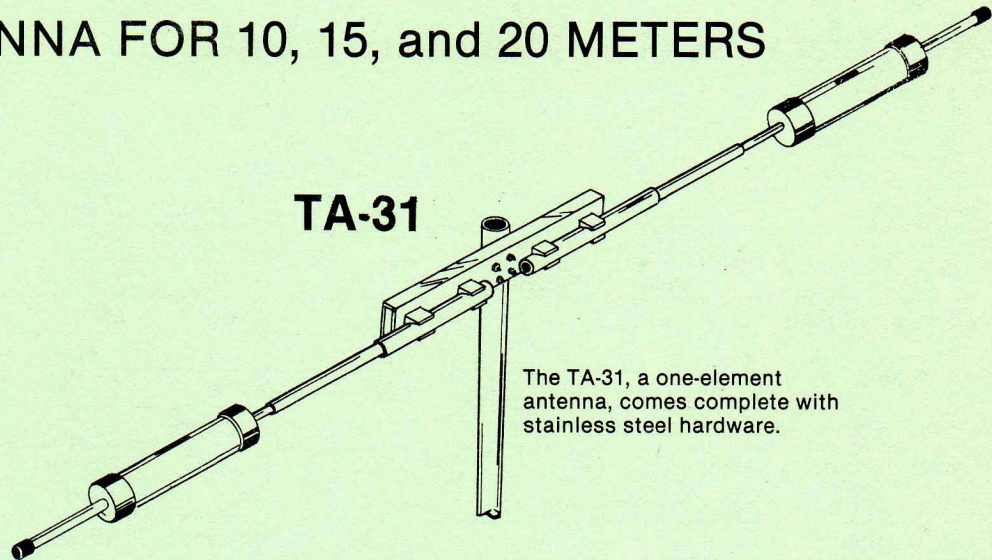
WHO WANT:

OUTSTANDING

**PERFORMANCE ON 10, 15 AND 20 METERS AT
FULL LEGAL POWER**

**ALTERNATE MOUNTING POSSIBILITIES (TOWER, ROOF-TOP,
AND ATTIC; HORIZONTAL OR VERTICAL)**

**EXPANSION CAPABILITIES TO A TWO OR THREE ELEMENT
BEAM. (TA-33)**



CONVERSION KITS AVAILABLE:

TA-31/32

(NOTE: Conversion indicated in black)

TA-32/33

The one-element antenna (above) can easily be converted to a two-element antenna by adding a reflector element, a boom, boom-to-mast plate and necessary hardware.

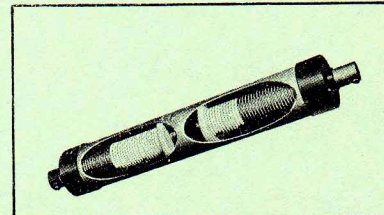
The TA-31/32 two-element beam can easily be converted to three elements (TA-33) by adding a director element, boom splice and necessary hardware.

SEE OTHER SIDE FOR SPECIFICATIONS

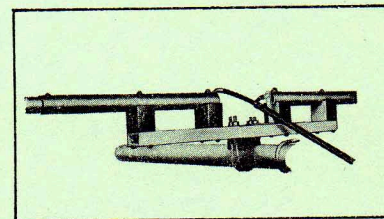
Specifications & Performance Data

| MODEL | TA-31 | | | |
|-------------------------------------|-------------------------------|--------------|----------------------|--------------|
| | TA-31 | TA-31/32 | TA-31/32 TA-32/33 | |
| Forward Gain on 15 mtr. | reference dipole | — | 5 db | 8 db |
| | isotropic source | — | 7.1 db | 10.1 db |
| Front-to-back Ratio | — | 20 db | 20 db | 20 db |
| Power Rating | AM/CW | 1 KW | 1 KW | 1 KW |
| | P.E.P. SSB input to the final | 2 KW | 2 KW | 2 KW |
| Feed Point impedance | 52 Ohms | 52 Ohms | 52 Ohms | 52 Ohms |
| Recommended Transmission Line | RG-8/U | RG-8/U | RG-8/U | RG-8/U |
| VSWR at Resonance (1.5/1 or better) | 1.5/1 | 1.5/1 | 1.5/1 | 1.5/1 |
| Matching System | Mosley | Mosley | Mosley | Mosley |
| Number of Elements | 1 | 2 | 3 | 3 |
| Maximum Element Length | 23 ft. 11 in. | 28 ft. | 28 ft. | 28 ft. |
| Boom Length | — | 7 ft. | 14 ft. | 14 ft. |
| Recommended Mast Size | 1½ in. OD | 1½ in. OD | 1½ in. OD | 1½ in. OD |
| Turning Radius | 12 ft. | 14 ft. 6 in. | 15 ft. 6 in. | 15 ft. 6 in. |
| Wind Surface Area (in sq. ft.) | 2.0 sq. ft. | 3.7 sq. ft. | 5.7 sq. ft. | 5.7 sq. ft. |
| Wind Load (EIA standard 80 MPH) | 40 lbs. | 74 lbs. | 114 lbs. | 114 lbs. |
| Assembled Weight (approximately) | 11 lbs. | 15 lbs.* | 11 lbs.* | 11 lbs.* |
| Shipping Weight (approximately) | 14 lbs. | 18 lbs.* | 14 lbs.* | 14 lbs.* |

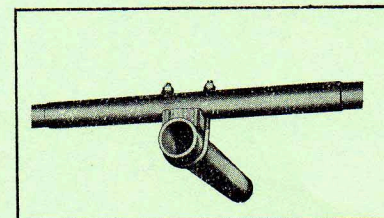
*WEIGHT OF CONVERSION KIT



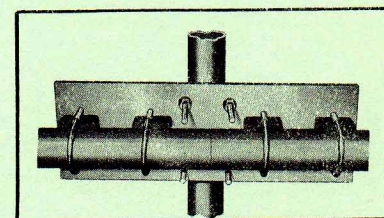
Famous Mosley All-metal enclosed traps were developed for use in World-Famous Trapmaster beams such as the TA-33.



Beam is fed by connecting the line directly to the open center of the radiator.

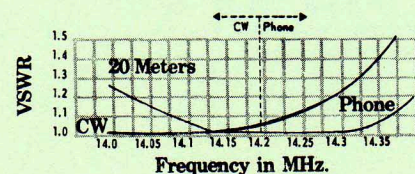
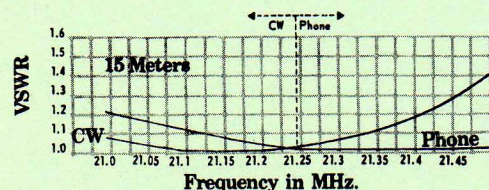
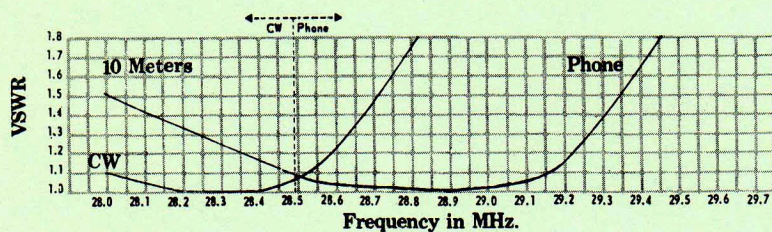


MOSLEY quality antennas incorporate stainless steel hardware known to survive the rigors of climate, long use.



Mosley U bolts hold antenna mast securely.

SWR/Frequency Curves



Mosley Electronics, Inc.