

PROTECTIVE STRUCTURES PIPELAYER ROPS



WELDCO-BEALES MFG.
SPECIALISTS IN ATTACHMENT DESIGN AND MANUFACTURING

PIPELAYER ROLL-OVER PROTECTIVE STRUCTURES

DESIGN & ENGINEERING

Weldco Beales Manufacturing (WBM) designs and manufactures protective structures for Off-Highway machinery and specialty applications. With over twenty-five years experience, we fully understand our customer's applications and are capable of producing a complete turn key unit fully engineered and tested to meet various standards and codes.

WBM works from ideas or initiates the design producing a conceptual model. Our engineering facilities are fully integrated and our capabilities include:

- Computer Aided Design and Drafting (CADD) modeling software ACAD, PRO-E and INVENTOR
- Finite Element Analysis (FEA) stress and deflection software ALGOR
- Specification and functional development

MANUFACTURING

Weldco has manufacturing facilities located in major North American markets. We are fully integrated and are capable of manufacturing and supporting your product. We have the people and tools to manage your project, and ensure on-time deliveries.

OUR PROCESSES INCLUDE:

- Laser, plasma and flame cutting
- Shearing and forming
- Tube bending
- Computer Numerical Control (CNC) machining
- Manual and robotic welding
- Sand blasting and painting
- Completed package, including electrical, HVAC, controls, sound suppression

TESTING



To maintain compliance with rigid standards, our computer analysis determines the stress level of each section of the roll-over protective structure. Prior to release for manufacture, all ROPS prototypes are tested to failure on our Structural Performance Test Stand. Protective structures can be tested to ISO, SAE, OSHA, CSA, ANSI, WCB, BSI, CEN, and various other specific standards.

TEST FACILITY SPECIFICATION

- 300,000 lb (136,000 kg) horizontal and vertical capability
- Computerized instrumentation for data acquisition of applied loads and deflection



REAR SCREEN

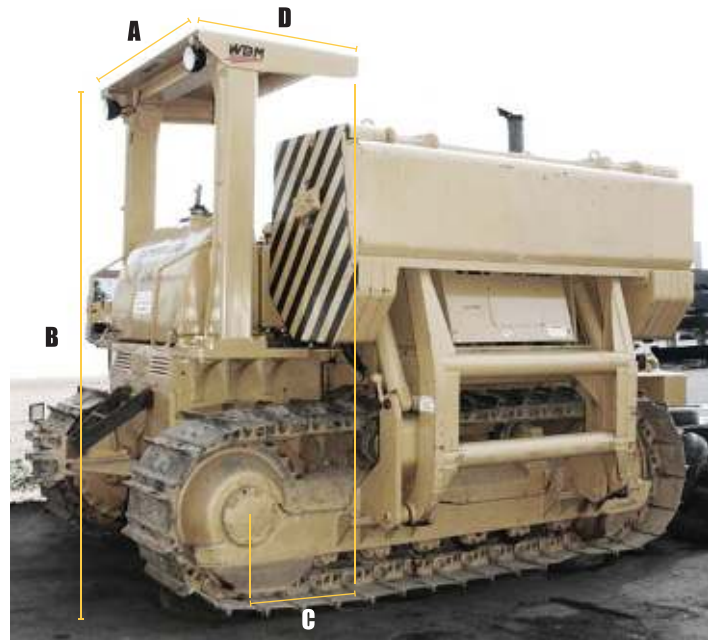
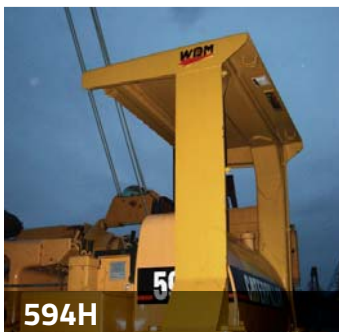
Operator safety has created strong market demand for WBM Roll-Over Protective Structures (ROPS).

ALL WBM ROPS FEATURE:

- Operator and machine protection in the event of a roll-over
- Bolt-on mounts supplied for 561H and 589
- Weld-on mounts supplied for 561D, D6D, 571G, 572G, 583K, and 594H
- Existing mounts utilized for D6T and 583R
- Easy access to operator's platform
- Excellent upward visibility
- No modifications to Pipelayer frame or draw works
- Compatibility to allow for mounting of rear attachments
- ISO 3471 certification (adherence to CE requirements)
- Compatibility to also be installed on select dozer/pipelayer conversions'
- Rear screen bosses, wiring conduit, hand holds and 4 light mounts
- Detailed installation instructions

OPTIONS

- Rear Screens (necessary if winch installed)
- Lights
- Wiring Harness
- Crating for international shipments
- Seatbelts
- Installation at WBM facilities



MODEL	A	B	C	D	MAX. MACHINE MASS (LBS)
589	74"	160"	9"	25"	170,000
594H	77"	144"	35"	47"	155,000
583K	69"	136"	33"	47"	130,900
583R	70"	144"	14"	38"	117,000
D6T	69"	132"	5"	27"	81,000
571G/572G	75"	130"	29"	42"	75,500
D6D	70"	116"	16"	36"	52,000
561D	67"	109"	18"	36"	44,000
561 H	68"	118"	17"	47"	36,800



INSTALLATION

To ensure proper welding procedures and quality control practices during installation, WBM requires one of the following for certification:

- Canadian Welding Bureau (CWB) certified shop
- Registered Professional Engineer Certification
- American Welding Society (AWS) B5.17
- AWS Certified Welding Inspector (CWI)

ROPS are designed for installation on genuine Caterpillar pipelayers, as well as select crawler dozer conversions, including Midwest and Superior.

CERTIFICATION

Registration of certification is required to be returned to WBM, indicating the installation was carried out in accordance with provided instructions.

The ROPS certification is performance based and is tested as per ISO 3471. ROPS are certified to a maximum machine mass that cannot be exceeded.



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