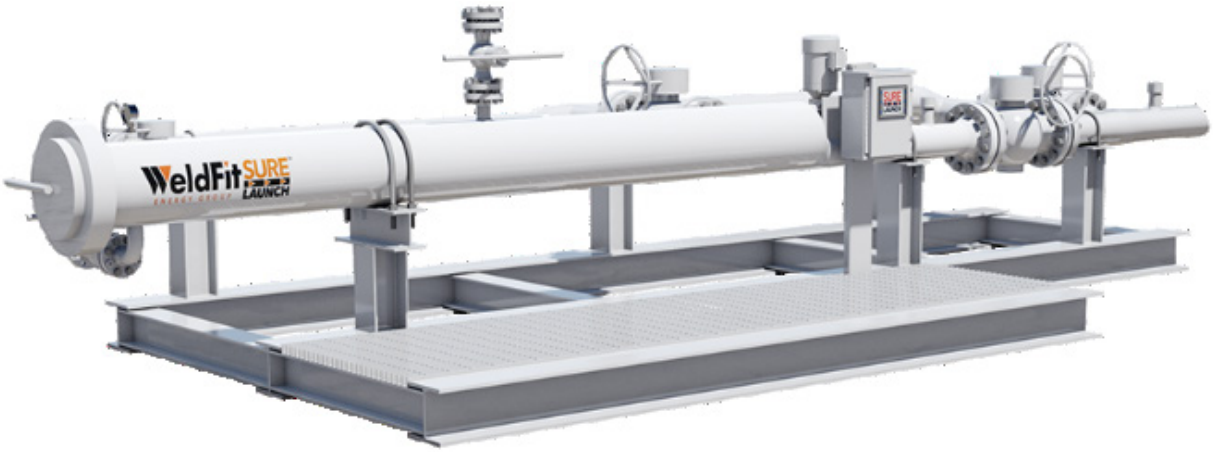
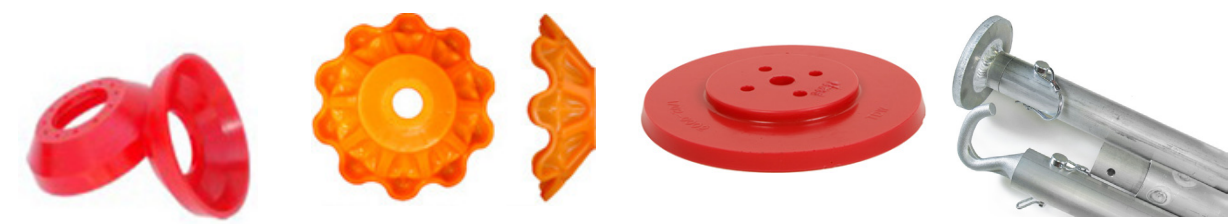
WESTERN PLANT & PIPELINE PRODUCTS

PIPELINE PIGGING PRODUCTS





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WESTERN PLANT & PIPELINE PRODUCTS

FOAM PIGS

FOAM PIGS ARE THE MOST FORGIVING OF THE PIG TYPES. THEY CAN BEND AND FLEX TO MAKE IT THROUGH TIGHT RADIUS BENDS OR THEY CAN BE MADE INTO FOAM DISC PIGS GREAT FOR BATCHING. BY CHANGING THE DENSITY OF THE PIG, WE CAN ACCOMPLISH A NUMBER OF DIFFERENT JOBS FROM BATCHING TO DRYING. CHANGING THE COATING WILL ADD FRICTION SEALING/SCRAPING EDGES TO THE PIPE SURFACE.

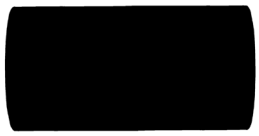
WE OFFER A NUMBER OF DIFFERENT FOAM PIGS FROM MULTIPLE VENDORS. IF IT IS ON THE MARKET, WE HAVE IT AVAILABLE FOR SALE. LOOK THOURGH THE VARIOUS OPTIONS WE HAVE FOR FOAM PIGS. IF YOU DON'T SEE SOMETHING, ASK US AND WE WILL FIND IT.

DENSITIES

1 - 2#	SOFTEST TYPICALLY USED TO DRY
5 -8#	MORE AGGRESSIVE FOR CLEANING
9-10#	MOST AGGRESSIVE FOR BATCHING/CLEANING
SOFT CORE	TIGHT BENDS AND DUAL DIAMETER

SHAPE OPTIONS

BULLET NOSE



DOUBLE DISH

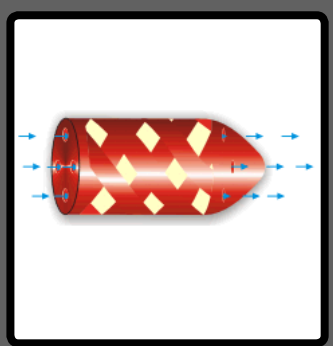
DBL BULLET

ACCESSORIES

NOSE ROPES

PIG TRACKING

EXTENDED LENGTHS



BYPASS PORTS

PHONE: (925)-413-1988

VARIOUS FOAM STYLES

BARE SWAB

CRISS CROSS

FOAM DISC

HAND LAUNCH

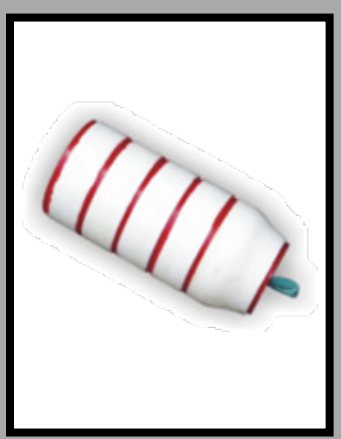
CC WIRE BRUSH

SILICONE CARBIDE

TOTAL WIRE

PLASTIC BRUSH

BLACK BELT



ULTRA SEAL

WHEEL BRUSH

FOAM SPHERES

SOLUBLE PIGS

SOLUBLE PIGS DISAPATE IN THE LINE AFTER A FEW HOURS, DEPENDING ON TEMPERATURE, RESTORING FLOW TO THE PIPELINE.

- **USED TO PROVE LINES BEFOR PIGGING WITH MORE AGRESSIVE PIGS**
- **OIL AND WATER SOLUBLE PIGS AVAILABLE UP TO 12".**

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WESTERN PLANT & PIPELINE PRODUCTS

URETHANE PIGS

SOLID CAST URETHANE PIGS ARE MORE AGRESSIVE THAN FOAM PIGS. THEIR HOLLOW CORE ALLOWS FOR A 20% REDUCTION IN ID. THE REDUCTION IN SIZE ALLOWS THE PIG TO MANEUVER IN TIGHTER RADIUS BENDS THAN A MANDREL PIG. THE CAST URETHANE PIG IS MORE DURABLE THAN A FOAM PIG, BUT THE URETHANE CAN BREAK DOWN IN CERTAIN CHEMICALS.

THERE ARE A NUMBER OF DIFFERENT OPTIONS FOR CAST URETHANE PIGS. WE OFFER DIFFERNT CONFIGURATIONS, DUROMETERS AND LENGTHS TO GET YOUR JOB DONE CORRECTLY. WHEATHER YOU NEED AN OFF THE SHELF PIG OR A COMPLETELY CUSTOMIZABLE CAST URETHANE PIG, WE HAVE YOU COVERED. NEED MORE MILES OUT OF YOUR PIG, NOT A PROBLEM. WE CAN SWITCH TO DIFFERENT TYPES OF URETHANE OR ADD FRICTION REDUCING ADDITIVES WHEN PIGGING DRY NATURAL GAS LINES.

DUROMETERS - SHORE A

60'S	**SOFTEST AND CAN MAKE TIGHT BENDS - GOOD FOR MULTIPLE DIAMETERS**
70'S	**STANDARD - MAKES MOST BENDS- GOOD FOR CLEANING/SEALING**
80'S	**VERY STIFF - GOOD FOR CLEANING PIPE WALLS**
CUSTOM	**- DUROMETER CAN BE SPECIFIED TO ACHIEVE A CERTAIN GOAL - THE COLOR OF URETHANE CAN BE CHANGED, PER DUROMETER, FOR EASY RECOGNITION OF PIGS.**

ACCESSORIES

NOSE ROPES

PIG TRACKING

EXTENDED LENGTHS

HIGH TEMP /FR ADDITIVE

PHONE: (925)-413-1988

VARIOUS URETHANE STYLES

UFCP

UNIFLEX

K DISC

NOVACAST

PROCESS PIG

SUPER CAST

TUFF CAST

OPTIMA CAST

TURBO BRUSH

TUFF CUP

URECAST

SPHERES

TYPES OF URETHANE

MDI	MORE EXPENSIVE BUT MORE DURABLE
TDI	BETTER COMPRESSION AND HANDLES HIGHER TEMPERATURE

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WESTERN PLANT & PIPELINE PRODUCTS

MANDREL PIGS

MANDREL PIGS ARE THE MOST AGGRESIVE PIGS AND THE MOST VERSITILE. THEY HAVE ABILITY TO CHANGE THE PIGS LENGTH AND THE COMPONENTS TO MEET YOUR PIGGING NEEDS. WHEATHER YOU NEED A LONGER PIG TO MAKE IT PAST BRANCH OUTLETS OR YOU NEED TO ADD DISCS AND A GAUGE PLATE FOR A PRE-ILI INSPECTION, THE MANDREL STYLE PIG HAS YOU COVERED.

- INITIAL COSTS ARE HIGHER WHEN FIRST PRUCHASING THE PIG. AFTER A FEW RUNS AND REPLACEMENT PARTS, MANDREL PIGS HAVE A LOWER TOTAL COST OF OWNERSHIP.

WE CAN GET YOU FULL PIGS OR REPLACEMENT COMPONENTS FROM ANY MANUFACTURE. JUST GIVE US YOUR LINE SPECIFICS AND WHAT YOU WANT TO ACCOMPLISH. WE WILL PROVIDE YOU WITH A NUMBER OF OPTIONS TO CHOOSE FROM.

ACCESSORIES

BUMPER NOSE

PIG TRACKING

GAUGE PLATES

BYPASS PORTS

BODIES

STEEL

URETHANE

PLASTIC

ARTICULATED

PHONE: (925)-413-1988

MANDREL COMPONENTS

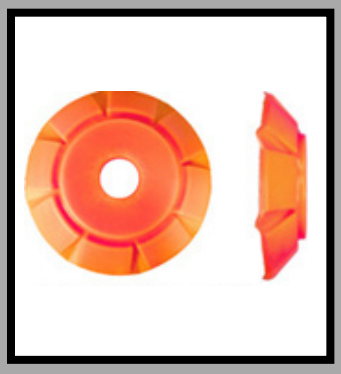
CUPS

CONICAL

DC CUP

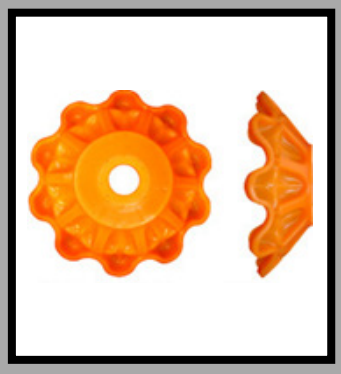
REAL SEAL

SPECIALTY



MULTI-SIZE 1

MULTI-SIZE 2



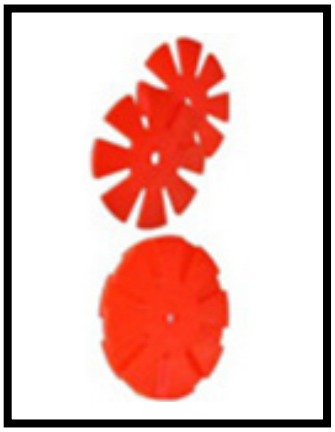
MULTI-SIZE 3

PARAFFIN

DISCS

SEAL

SCRAPER



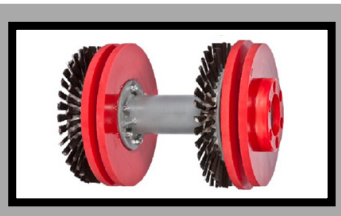
SPLIT/SLOTTED

CUTTER

BRUSHES / SCRAPERS

RING

SPRING LOADED



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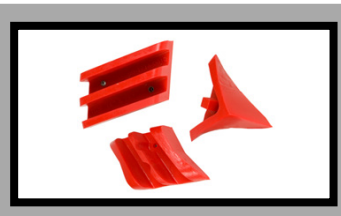

BLADE OPTIONS

BLADES

PIT BOSS

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WESTERN PLANT & PIPELINE PRODUCTS

PIGGING EQUIPMENT

CLOSURES

WE OFFER A NUMBER OF DIFFERENT CLOSURES TO FIT YOUR NEEDS. IF YOU NEED A QUICK ACCESS CLOSURE FOR FREQUENT PIGGING OR A LESS EXPENSIVE THREADED CLOSURE FOR INFREQUENT PIGGING WE CAN TAKE CARE OF YOU . WE OFFER STANDARD CLOSURES FROM 150# TO 900# AND HIGHER PRESSURES UPON REQUEST. LET US KNOW WHAT YOU NEED AND WE CAN GET IT COVERED FROM SPECIAL METALS TO THE FINAL CODE STAMP.

THREADED

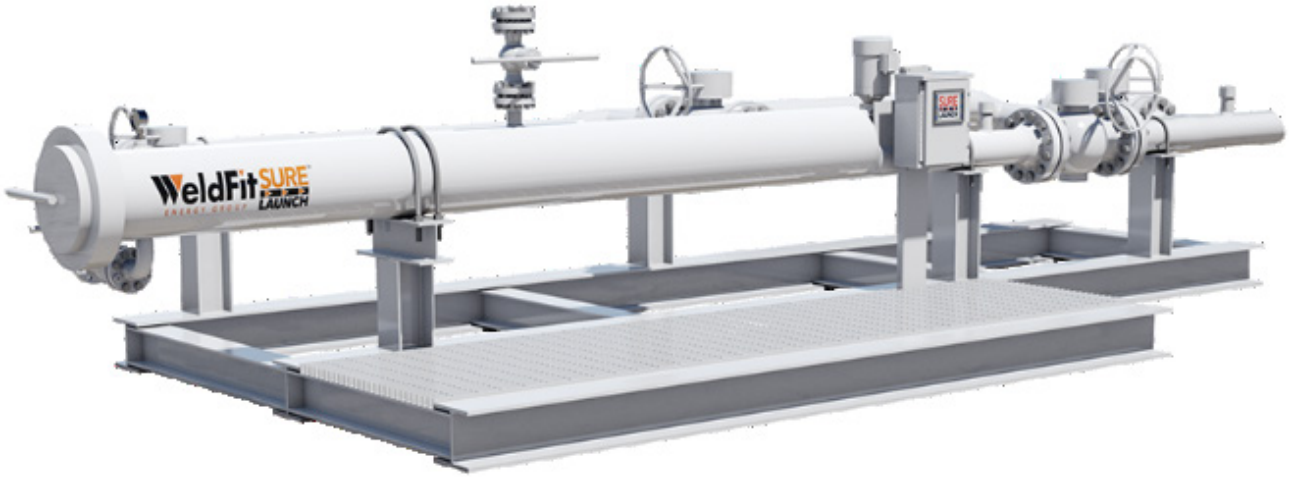
T-BOLT

DBOLT

QUICK OPENING

LAUNCHER / RECEIVER

PIG LAUNCHER/RECEIVERS OFFERED ARE A CUSTOM ENGINEERED DESIGN PRODUCTS THAT MEETS CUSTOMER, ENVIRONMENTAL AND INDUSTRY STANDARDS. THE PIG LAUNCHER/ RECEIVER IS BUILT FOR EASE OF OPERATION AND LONGEVITY OF SERVICE. WITH MULTIPLE OPTIONS AVAILABLE, WE WILL SUPPLY THE ULTIMATE DESIGN THAT READILY MEETS YOUR TECHNICAL AND COMMERCIAL REQUIREMENTS.



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WESTERN PLANT & PIPELINE PRODUCTS

PIGGING EQUIPMENT

PIGGING POLE

PIGGINPOLES (STANDARD SET) CONSIST OF THREE SECTIONS PINNED TOGETHER FOR A TOTAL LENGTH OF 18'. ONE END OF THE POLE HAS A FOUR-INCH ROUND RAM, MAKING IT EASY TO SEAT THE PIG, AND THE OTHER END HAS A HOOK FOR EASY PIG RETRIEVAL. OPTIONAL HANDLE MAKES HANDLING THE PIGS EVEN EASIER.

THIS IS THE SAFEST WAY TO RETRIEVE PIGS FROM PIPE-LINES. RATHER THAN HAVING STEEL HOOKS LIKE SOME POLES, OUR POLES ARE MADE OF ALL ALUMINUM, SO THEY NEVER CREATE SPARKS. THE RAMS, HOOKS, AND POLES ARE ALL ATTACHED USING PINS. THEY CAN BE SEPARATED INTO 6 FOOT LENGTHS FOR EASY TRANSPORTATION.

SAFEWAY PIG LOADER

THE SAFEWAY PIG LOADER USES HYDRAULIC PRESSURE TO PUSH THE PIG INTO ITS REDUCER AND FINALLY INTO THE PIPE. DEPENDING ON THE SIZE OF THE PIG TO BE LAUNCHED, THE SAFEWAY PIG LOADER IS POWERED BY AN ELECTRICAL PLUG OR GAS POWERED MOTOR.

WESTERN PLANT & PIPELINE PRODUCTS

PIG TRACKING

WE OFFER PIG TRACKING RENTALS AND SYSTEM PURCHASES. FROM NON-INTRUSIVE TEMPORARY PIG SIGNALS PICKING UP NEODIDIUM MAGNETS TO ELECTROMAGNETIC PIG TRANSMITTERS WITH GOOGLE EARTH LINKED RECEIVER, WE CAN GET YOU THE RIGHT EQUIPMENT FOR YOUR NEXT PIG RUN.

- RENTAL EQUIPMENT SHIPS OUT, OVERNIGHT, THE DAY BEFORE PIGGING. RENTALS ARE PORTAL TO PORTAL WITH A FOUR DAY MINIMUM, CHARGED PER DAY.

MAGNETS

WE OFFER A NUMBER OF DIFFERENT MAGNETS FOR ANY STYLE OF PIG.

THE HIGH STRENGHT MAGNETS ARE USED TO PICK UP DEBRIS IN THE LINE AND/OR FOR TRIPPING A NON-INTRUSIVE PIG SIGNAL.

PIG SWITCHES

NON-INTRUSIVE

INTRUSIVE

PHONE: (925)-413-1988

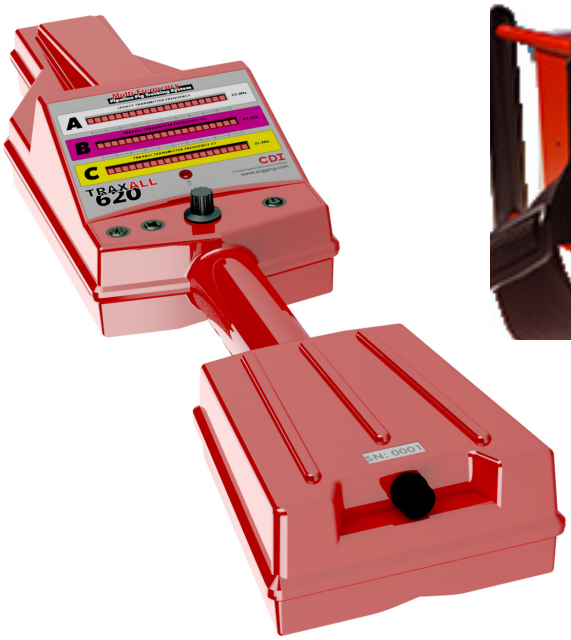
TRANSMITTERS

NO MATTER THE SIZE OF THE PIG, THE PIPELINE BENDS OR THE LENGTH OF THE PIG RUN, WE WILL HAVE A TRANSMITTER TO FIT YOUR NEEDS. ALL TRANSMITTERS CAN BE PICKED UP BY ANY RECEIVER.

- FREQUENCIES CAN BE SET DIFFERENT FOR RUNS WITH MULTIPLE PIGS.

- CHANGING THE PULSE PATTERN CAN SAVE BATTERIES FOR LONGER RUNS.

RECEIVERS



GEOPHONES

LISTEN TO PIPELINE PIGS PASS YOUR LOCATIONS WITH A GEOPHONE. WE OFFER A COUPLE OF DIFFERENT MODELS TO CHOOSE FROM. LISTEN ON YOUR HEADPHONES OR PLUG INTO YOUR TRUCKS STEREO SYSTEM.

- PIG SPEED CAN BE DETERMINED BY TIMING THE WELD JOINT HITS. IF YOUR JOINTS ARE A STANDARD 40' YOU CAN EASILY WORK OUT THE PIGS SPEED.
SPEED = DISTANCE/TIME

EMAIL: SALES@WESTERNPLANT.NE

ORDERING PROCESS

CONTACT US

CALL (925)-413-1988 OR EMAIL SALES@WESTERNPLANT.NET

WE CAN HELP ONE OF THREE WAYS

1

I KNOW WHAT I WANT AND DELIVERY IS CRITICAL.

2

OPEN TO NEW PIG DESIGNS TO GET MORE OUT OF MY RUNS. DELIVERY IS NOT A HUGE PROBLEM.

3

STARTING TO PIG A LINE THAT HAS NEVER BEEN PIGGED BEFORE. WE DON'T KNOW WHERE TO START.

GIVE US INFORMATION

WE NEED THE PIG SIZE, TYPE AND THE DAY IT NEEDS TO BE ONSITE. PART NUMBERS HELP IF YOU REQUIRE A SPECIFIC VENDOR.

LET US KNOW WHAT YOU ARE CURRENTLY USING , HOW OFTEN YOU PIG AND LINE CONSIDERATIONS.

FILLING OUT THE PIGGING SYSTEM REVIEW WILL GIVE US A COMPLETE LOOK AT YOUR SYSTEM.

WHAT WE DO FOR

WE FIND THE EXACT PIG IN THE TIME REQUIRED. THE VENDOR WITH THE LOWEST PRICE GETS THE ORDER.

WE PROVIDE DIFFERENT PIG OPTIONS THAT WILL HELP ACHEIVE YOUR PIGGING GOAL. IF YOU ARE USING THE BEST OPTION, WE WILL SHOP AROUND TO SAVE YOU MONEY.

WE CONTACT MULTIPLE PIG EXPERTS AND VENDORS TO GET YOU THE CORRECT PIGS BASED ON YOUR LINE PARAMETERS.

WE ARE HERE TO HELP MAKE ORDERING PIGS

EASY AND HASSLE FREE!

YOU CALL US ONCE AND WE WILL CONTACT THE MANUFACTURES TO MEET YOUR PRICE AND/OR DELIVERY REQUIREMENTS.

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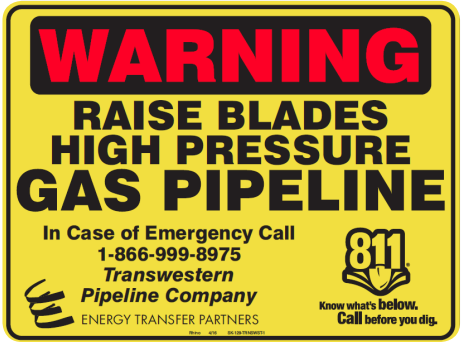
WESTERN PLANT & PIPELINE PRODUCTS

LINE MARKING PRODUCTS



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WESTERN PLANT & PIPELINE PRODUCTS

TRIVIEW SYSTEM

THE TRIVIEW LINE MARKING SYSTEM IS DESIGNED FOR 360 DEGREE VISIBILITY. MULTIPLE OPTIONS MAKE THE TRIVIEW THE BEST COMPLETE SYSTEM FOR YOUR LINE MARKING NEEDS.

- **EXTENDED LENGTHS TO EXTEND YOU LINE OF SIGHT IN ROLLING HILLS AND FARM AREAS.**
- **CATTLE PROOF MARKERS TO STOP THE BREAKING OF LINE MARKERS BY LIVESTOCK.**
- **TRIVIEW TEST STATIONS AND VENT GUARDS TO KEEP YOUR MESSAGE CLEAR AND CONSISTENT TO THE PUBLIC.**
  - **USING TOO MANY TYPES OF LINE MARKERS CAN BE CONFUSING TO THE PUBLIC.**

EXTENDED

UP TO 14' TALL

TEST STATIONS

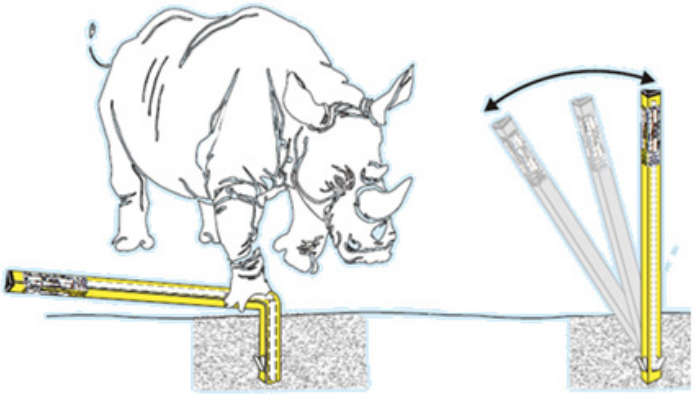
2 TO 11 TERMINALS
LOCKING LIDS

VENT GUARD

KEEP INSECTS AND RAIN OUT

COLOR OPTIONS

BY CHANGING THE CAP COLOR, YOU CAN EASILY IDENTIFY ROAD CROSSINGS, WATER CROSSING AND TEST STATIONS.



CATTLE PROOF

AN INTERNAL FIBERGLASS ROD WILL RETURN THE MARKER TO UPRIGHT ONCE THE PRESSURE IS RELEASED

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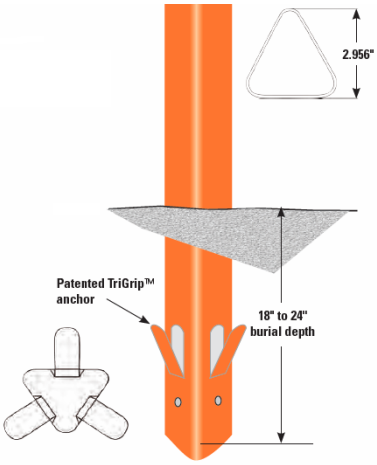
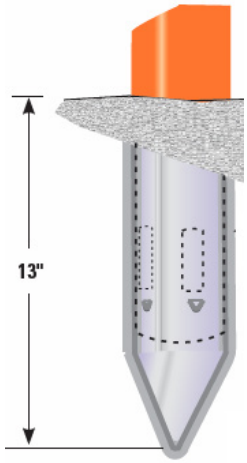
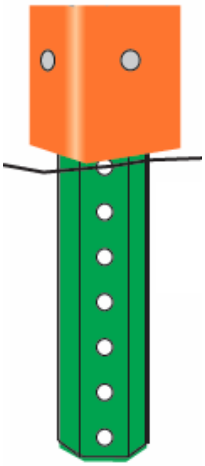
INSTALLATION OPTIONS



DIRECT BURY



SOIL ANCHOR



U-CHANNEL

THE TRIVIEW MARKER CAN BE DIRECTLY BURIED WITH THE BARBS PULLED OUT, LOCKED INTO A SOIL ANCHOR OR LOCKED INTO A U-CHANNEL POST.

NO MATTER THE SOIL TYPE, WE HAVE A WAY TO GET IT IN THE GROUND.

RETROFIT OLD MARKERS

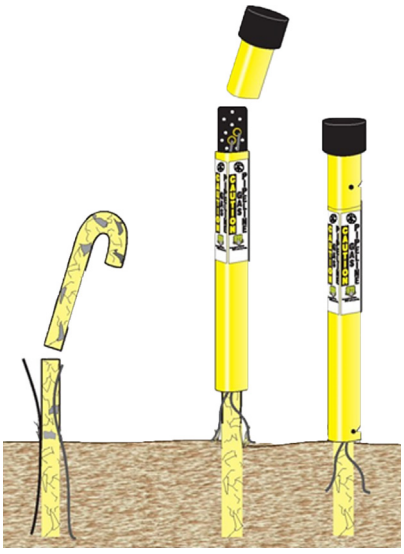
Before After

TRIVIEW 400

TRIVIEW 400 LINE MARKERS CAN EASILY SLIP OVER YOUR WORN OUT AND FADED FLAT POSTS. THEY SECURE WITH A SET SCREW INTO THE OLD MARKER. ONCE THE TRIVIEW IS COVERING THE MARKER, THE OLD FIBERGLASS MARKER WILL NO LONGER DEGRADE IN THE UV LIGHT, MAKING A GREAT SUPPORTING BASE FOR THE NEW TRIVIEW.

TRIVIEW TEST STATION VENT POST

TRIVIEW TEST STATION VENT POSTS CAN BE USED TO CLEAN UP OLD MARKERS AT STREET AND WATER CROSSINGS. INSTEAD OF A LINE MARKER, A TEST STATION AND A VENT POST...USE ONE TRIVIEW POST TO COVER ALL THREE. THIS WILL GIVE YOU ONE MARKER TO MAINTAIN INSTEAD OF THREE.



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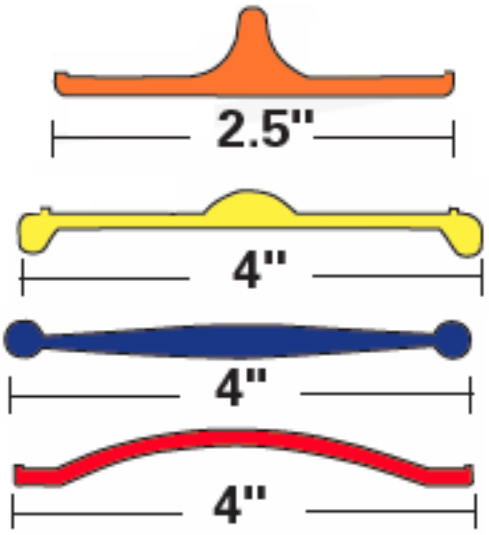
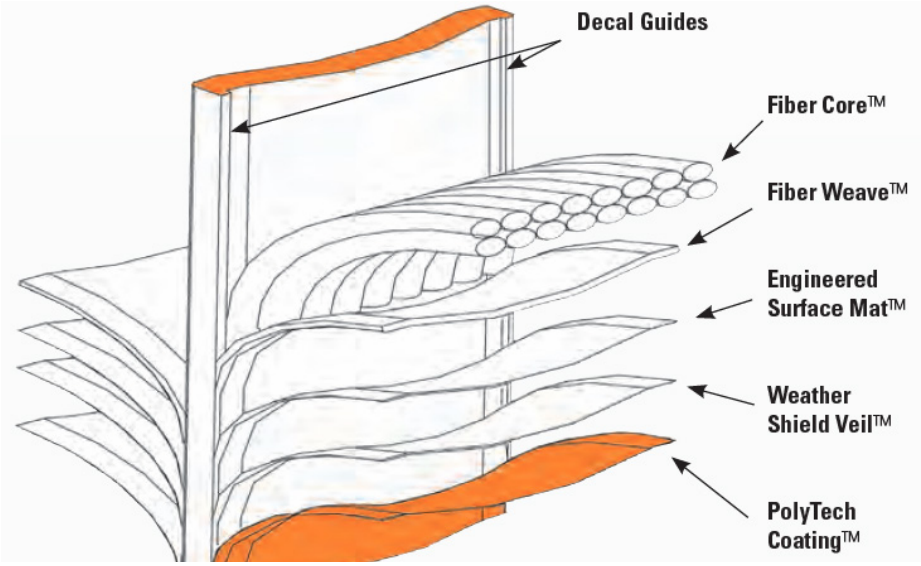
WESTERN PLANT & PIPELINE PRODUCTS

MARKING POSTS

POLYTECH FIBERGLASS

RHINO'S FIBERGLASS POSTS COME STANDARD WITH SUNCOAT™, CLEAR UV INHIBITORS. ADDING POLYTECH COATING WILL GREATLY EXTEND THE LIFE OF THE POST AND DRAMATICALLY REDUCE FADING. POLYTECH COATING TOTALLY BLOCKS UV LIGHT FROM REACHING THE FIBERGLASS CORE OF THE POST FOR AT LEAST 10 YEARS.

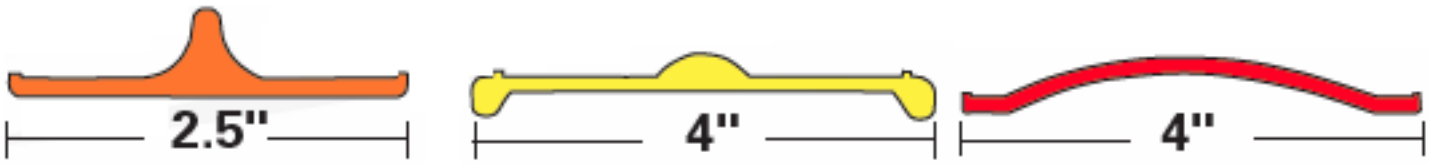




HYBRID

THE WORLD'S MOST DURABLE FLAT POST, THE RHINO HYBRID, IS A SPECIAL BLEND OF PLASTIC AND FIBERGLASS.

THE RHINO HYBRID OFFERS MANY BENEFITS OF THE TRADITIONAL FIBERGLASS POST WITHOUT SEVERAL OF THE SAME PROBLEMS. THE HYBRID WILL NEVER SUFFER FROM FIBERBLOOM AND CAN WITHSTAND IMPACTS THAT WOULD LEAVE STANDARD FIBERGLASS POSTS CRACKED OR BROKEN.



PHONE: (925)-413-1988

DOME MARKERS

THE ROUND DESIGN OF THE RHINODOME MAKES IT VISIBLE FROM ANY DIRECTION. IT CONSISTS OF A SPECIALLY FORMULATED PLASTIC POST, WITH A 21” DOME AND A 10” ANCHOR TUBE. THE RHINODOME HAS A 3.5” OUTSIDE DIAMETER AND INCLUDES A STANDARD ONE-COLOR BLACK GRAPHIC HOT-STAMPED ON 2 SIDES.

THE RHINODOME IS CAPABLE OF WITHSTANDING A VEHICLE IMPACT AND WILL RETURN TO ITS ORIGINAL UPRIGHT POSITION.

DOME TEST STATIONS HAVE A TERMINAL ENCLOSURE FOR CATHODIC PROTECTION, TELECOMMUNICATIONS BONDING & GROUNDING, AND OTHER UTILITY LINE APPLICATIONS.

EACH UNIT COMES STANDARD WITH 5 TERMINALS.

THE RHINO DOME IS CAPABLE OF WITH-STANDING A MINIMUM OF ONE VEHICLE IMPACT AT 45 MPH. THE RHINODOME WILL RETURN UPRIGHT WITHIN 10° OF VERTICAL WITHIN 60 SECONDS. IT CONSISTS OF A LEXAN POLYCARBON-ATE HIGH IMPACT PLASTIC.

EASILY REMARK OLD AND WORN OUT DOME MARKERS. NO NEED TO DIG OUT OLD POSTS AND PUT IN THE NEW ONES. SIMPLY STICK ON AND SET SCREW TO THE OLD POST.

THE DOME WRAP IS FLEXIBLE AND UV STABLE LEXANE THAT WILL NOT SCRATCH OR PEEL.

EMAIL: SALES@WESTERNPLANT.NET

WESTERN PLANT & PIPELINE PRODUCTS

DECALS

WE OFFER A NUMBER OF DIFFERENT DECAL OPTIONS DEPENDING ON WHAT YOU ARE TRYING TO ACCOMPLISH. WE HAVE DECALS TO STICKER YOUR MARKER POSTS, HALF MOON DECALS FOR OLD API SIGNS, OFFSET DECALS FOR EASY IDENTIFICATION, CONFINED SPACE DECALS AND ANY CUSTOM DECAL YOU CAN THINK OF.

GIVE US AN IDEA OF WHAT YOU ARE LOOKING FOR AND WE WILL GET YOU PROOFS MADE UP FREE OF CHARGE.

FROM STRIPING TO REFLECTIVE DECALS, WE WILL MAKE SURE YOUR MESSAGE IS LEGIBLE AND VISIBLE.

WE HAVE A NUMBER OF DIFFERENT WAYS TO DISTINGUISH YOUR LINE MARKER FROM THE OTHER PIPELINES IN THE SAME RIGHT OF WAY.

PHONE: (925)-413-1988

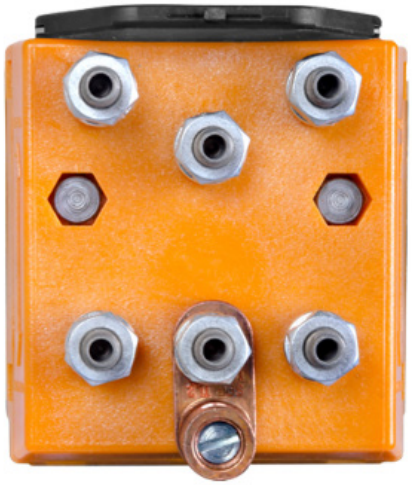
TEST STATIONS

THE TRIVIEW TEST STATION IS THE MOST DURABLE AND FLEXIBLE TEST STATION ON THE MARKET TODAY.

MADE FROM RHINOPOLY, THE TRIVIEW TEST STATION WILL HELP CUT COSTS BY SERVING AS A PIPELINE MARKER AND BY OUTLASTING THE COMPETITION.

THE TRIVIEW TEST STATION'S REMOVABLE CAP PROTECTS TERMINALS FROM THE ELEMENTS. ADDING AN OPTIONAL LOCKING CAP PREVENTS VANDALS FROM ACCESSING WIRES AND HARDWARE LOCATED INSIDE.

UP TO 3 EXTERNAL TEST POINTS

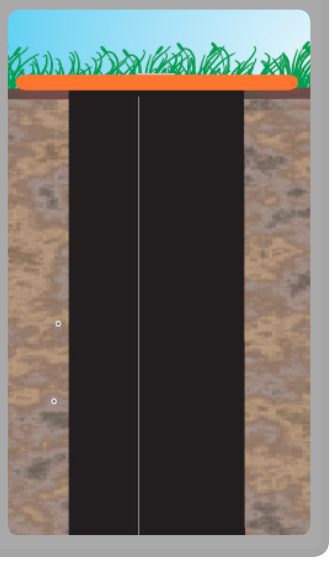


ISOLATION LEVER

LOCKNG OPTIONS

BRASS & SS HARDWARE

BURIED TERMINAL



DOME TEST STATION

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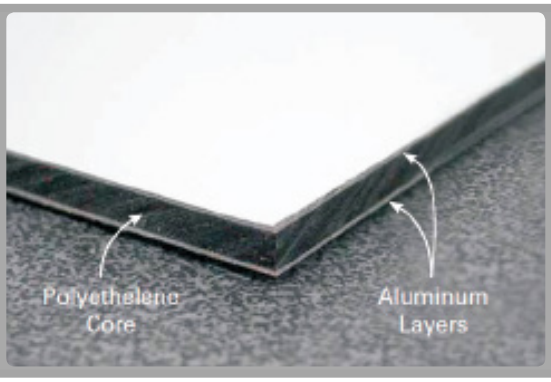
WESTERN PLANT & PIPELINE PRODUCTS

CUSTOM SIGNS

DIBOND

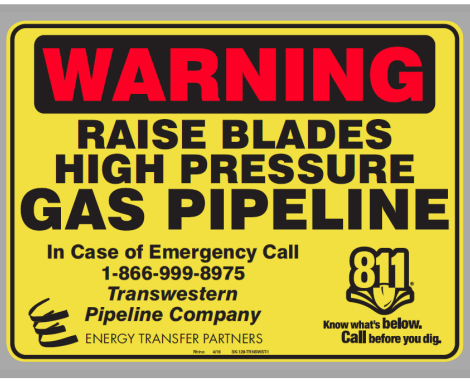


DIBOND® IS COMPRISED OF TWO THIN SHEETS OF ALUMINUM, THERMO-BONDED TO A POLYETHYLENE CORE. THE RESULT IS A MATERIAL THAT IS MORE RIGID THAN SOLID ALUMINUM WHILE WEIGHING ALMOST 50% LESS! THE SIGNS REQUIRE LESS BRACING AND FASTENERS, SAVING BOTH TIME AND MONEY ON INSTALLATION. DIBOND HAS NO SCRAP VALUE.

HDPE

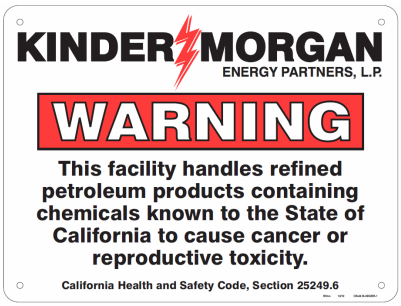
THESE BRIGHTLY COLORED SIGNS ARE MADE WITH A UV STABLE PROPRIETARY BLEND OF THERMOPLASTICS, AND ARE SPECIFICALLY DESIGNED FOR OUTDOOR USAGE. BULLETS PASS CLEANLY THROUGH SCREEN PRINTED POLY SIGNS LEAVING THEM LEGIBLE. GUNSHOTS DO NOT CAUSE CHIPPING OR RUSTING, AND UNLIKE ALUMINUM, POLYETHYLENE HAS NO SCRAP VALUE.

ALUMINUM



DESIGNED SPECIFICALLY FOR OUTDOOR USAGE. THE ALUMINUM SHEET IS PRE-PAINTED ON BOTH SIDES TO PROTECT AGAINST THE ELEMENTS. MADE FROM A NON-HEAT-TREATABLE ALUMINUM ALLOY: .050 ROUND API; .063 OR .080 SQUARE OR RECTANGLE. CUSTOM SIZES, LEGENDS AND DOUBLE-SIDED SIGNS ALSO AVAILABLE.

WE OFFER COMPLETELY CUSTOM SIGNS. SEND US A PICTURE OF WHAT YOU ARE LOOKING FOR AND WE CAN GET A FREE PROOF MADE UP FOR YOU.



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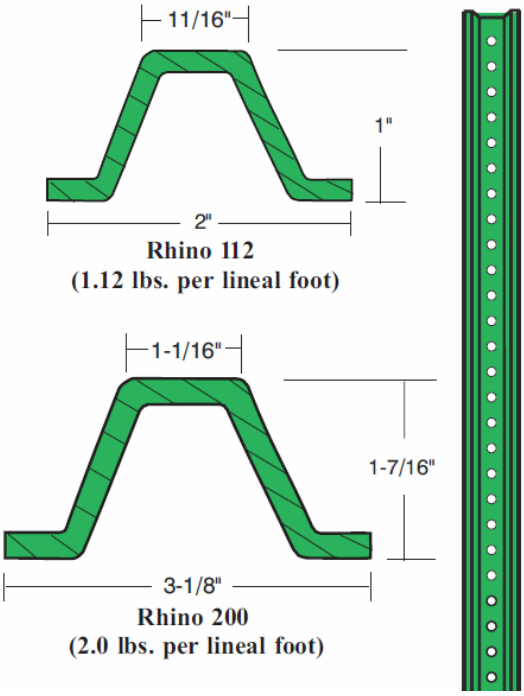
UCHANNELS



RHINO 112 : 1.12 POUND PER LINEAL FOOT POST IS IDEAL FOR MOUNTING UTILITY SIGNS.

RHINO 200 : 2.00 POUND PER LINEAL FOOT POST IS DESIGNED TO SUPPORT AERIAL MARKER FRAMES AND LARGER SIGNS.

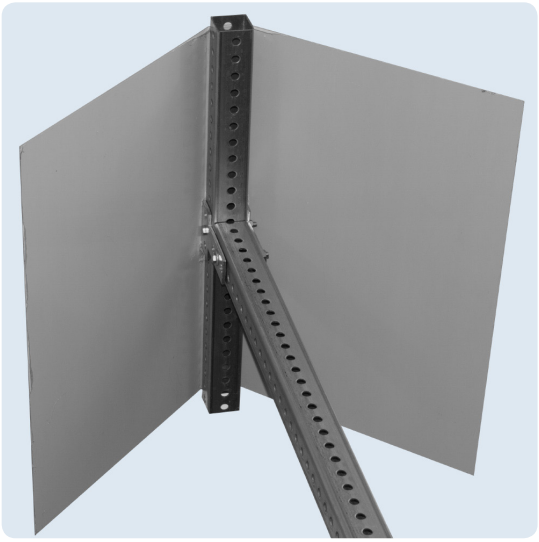
COATING OPTIONS
GALVANIZED, OR PAINTED GREEN POSTS ARE STANDARD. POWDER COATED POSTS ARE AVAILABLE IN CUSTOM COLORS. CALL FOR DETAILS.

LENGTHS
6' (72") IS THE STANDARD LENGTH. OTHER LENGTHS ARE AVAILABLE BUT MAY REQUIRE A MINIMUM ORDER.

AERIALS

RHINO'S RUGGED AERIAL "A FRAME" MARKERS AND BRACKETLESS AERIAL MARKERS ARE SIMPLE AND EASY TO INSTALL. THE A FRAMES SLIDE OVER AND BOLT TO THE POST OF YOUR CHOOSING. EACH FRAME IS CUSTOM FABRICATED TO MEET YOUR SPECIFICATIONS. THE BRACKETLESS AERIAL POSTS BOLT TOGETHER AND RIVETS SECURE THE SIGN TO THE TOP OF THE HORIZONTAL POST.

GIVE US A CALL AND WE CAN MATCH THE SIZE AND NUMBER OF PANELS TO YOUR EXISTING AERIALS.



LIGHTWEIGHT, STURDY PANELS (AVAILABLE IN POLYETHYLENE, ALUMINUM, OR 4MM DIBOND.) SECURED TO FRAMES FABRICATED FROM 1" X 1" ALUMINUM CHANNEL.

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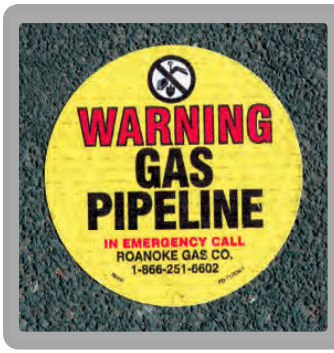
WESTERN PLANT & PIPELINE PRODUCTS

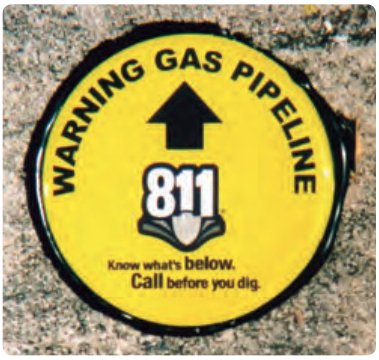
SURFACE MARKERS

PAVEMENT MARKERS



PAVEMENT DECALS ARE DESIGNED FOR USE ON CONCRETE AND ASPHALT. THEY HAVE A SKID RESISTANT SURFACE AND ARE ENVIRONMENTALLY FRIENDLY. THEY ARE EASY TO INSTALL WITH NO ADHESIVE REQUIRED. THEY CAN BE APPLIED DIRECTLY TO ASPHALT OR CONCRETE STREETS, SIDEWALKS OR PATHWAYS.

THE DAS CURB MARKER MEETS DOT SPECS FOR LETTER SIZE AND STROKE TO BE USED ON LINE MARKERS. THE MARKER REPLACES UNSIGHTLY SPRAY PAINT FOR PERMANENT MARKING, IMPROVING YOUR COMPANY'S PUBLIC IMAGE. THE STANDARD DAS ADHESIVE REQUIRES NO MIXING. JUST APPLY SOME TO THE BACK OF THE MARKER AND STICK IT.



A-TAG MARKERS ARE EMBEDDED INTO CONCRETE OR ASPHALT. THESE BRIGHTLY COLORED UV STABLE POLYPROPYLENE MARKERS ARE SLIGHTLY RECESSED. A-TAG MARKERS CAN BE INSTALLED IN ADDITION TO PAINT, NEXT TIME YOU HAVE TO LOCATE IN THAT AREA THE LOCATOR WILL KNOW RIGHT WHERE TO START, SAVING TIME AND MONEY.

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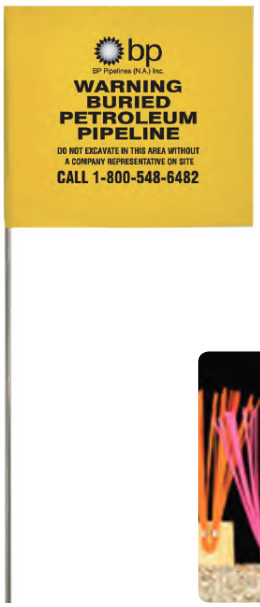
SOIL MARKERS

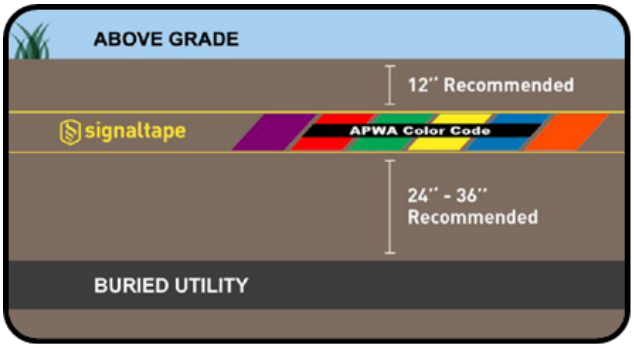


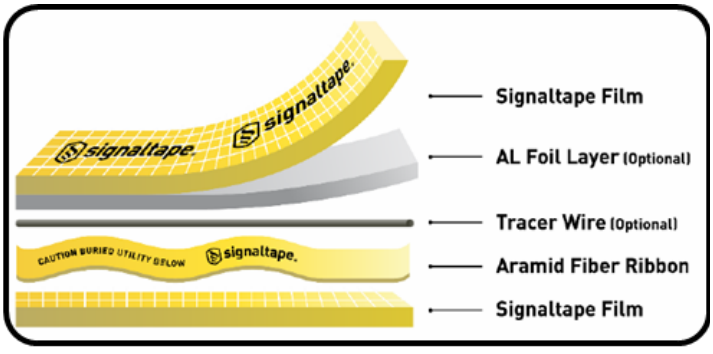
SHOOT YOUR FLAGS INTO THE SOIL WITHOUT HAVING TO BEND DOWN FOR EVERY SINGLE FLAG!

SIGNALTAPE

SIGNALTAPE IS A PROPRIETARY, LOW-COST SOLUTION DEVELOPED TO PREVENT EXCAVATION DAMAGE TO BURIED UTILITIES BY PROVIDING A VISIBLE ALERT TO THE PRESENCE OF A BURIED UTILITY DIRECTLY TO THE EQUIPMENT OPERATOR.

CUSTOM PRINTING AND MULTIPLE COLOR OPTIONS AVAILABILE.





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WESTERN PLANT & PIPELINE PRODUCTS

BEST PRACTICES

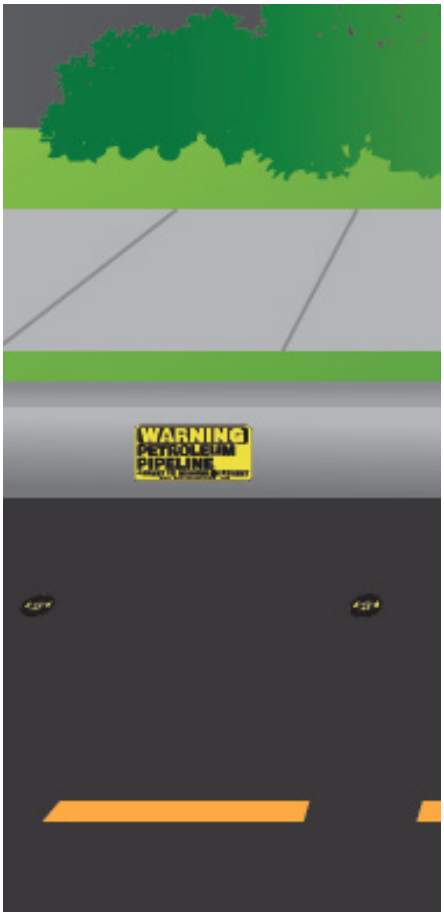
THE TRIVIEW SYSTEM HAS THE VERSATITLITY THAT OTHER LINE MARKERS DONT. NOT ONLY DO YOU GET 360 DEGREE VISIBILITY, BUT YOU GET A NUMBER OF MOUNTING OPTIONS BASED ON THE SOIL TYPE.

BY VARYING THE COLORS ON THE TOP OF THE POST, IT CAN BE EASILY IDENTIFIED FOR FUTURE USE. BLUE CAPS FOR WATER CROSSINGS, BLACK CAPS FOR ROAD CROSSINGS, RED CAPS FOR TEST STATIONS AND YELLOW IN BETWEEN THEM ALL.

WE MAKE THE TRIVIEWS UP TO 14' TALL. THIS WILL INCREASE YOUR LINE OF SIGHT IN FARM FIELDS AND HILLY LOCATION, AND HELP REDUCE THE MARKERS PER MILE NEEDED.

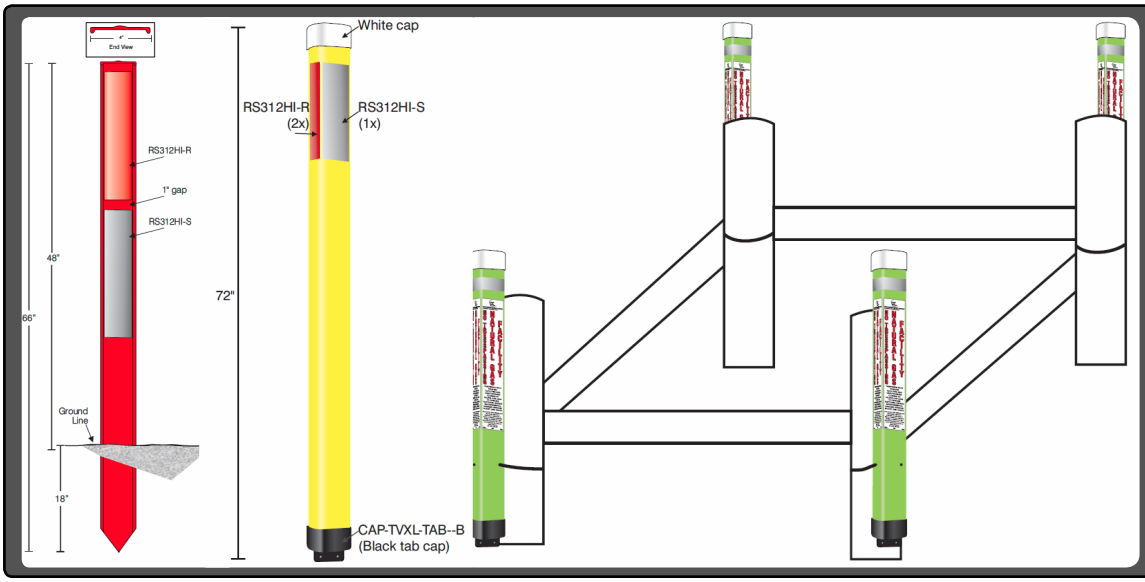
CATTLE PROOF MARKERS ARE ALSO AVAILABLE TO HELP WITH LINE MARKERS THAT ARE CONTINUOUSLY RUN OVER OR KNOCKED DOWN.

BEST PRACTICES



CLEAR CONSISTENT MESSAGING THROUGH BUSY STREETS WILL HELP LOCATE AN UNDERGROUND FACILITY PRIOR TO EXCAVATION. IF MARKED PROPERLY WITH A COMBINATION ON DAS CURB MARKERS AND VARIOUS PAVEMENT MARKERS, A RELOCATE CAN BE AS EASY AS CONNECTING THE DOTS WITH PAINT.

ABOVE GROUND FACILITIES



PROTECT YOUR ABOVE GROUND FACILITIES FROM DAMAGE DUE TO OVERGROWTH. WE HAVE A NUMBER OF MOUNTING OPTIONS.

TYPICALLY WE SUPPLY THESE WITH REFLECTIVE MARKERS.

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WESTERN PLANT & PIPELINE PRODUCTS

HIT KITS
DAMAGE INVESTIGATION

THE RHINO HIT KIT™ IS USED TO RECORD DAMAGE TO BURIED FACILITIES SUCH AS FIBER CABLES, PIPELINES, ELECTRICAL LINES AND MORE. THE HIT KIT HELPS STANDARDIZE THE PROCEDURE FOR DOCUMENTING AN UNDERGROUND FACILITY STRIKE. THE RULER HAS THE DOCUMENTATION PROCEDURES, PRINTED ON THE BACK, TO ENSURE ALL INFORMATION IS COLLECTED FROM THE SITE.
THE RULERS ARE CERTIFIED TO ACCURATE AND WILL MAKE THE PHOTOS TAKEN, WITH THE PROPER SET UP, CREDIBLE.

INSTALLATION TOOLS

EZ AUGER

TV ANCHOR

FLAT POST

PILOT HOLE

U-CHANNEL

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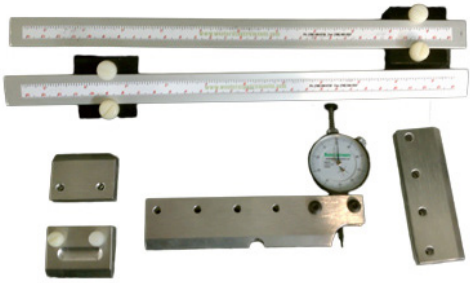
WESTERN PLANT & PIPELINE PRODUCTS

NDE / NDT EQUIPMENT



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WESTERN PLANT & PIPELINE PRODUCTS

CYGNUS UT GAUGES

CYGNUS INSTRUMENTS

All Cygnus Thickness Gauges use the Multiple Echo Measuring Technique with a single crystal probe. This provides, accurate, error-checked thickness measurements, ignoring coatings.

ADVANTAGES

1) **Coatings and paints do not have to be removed and will not be included in the measurement displayed.**

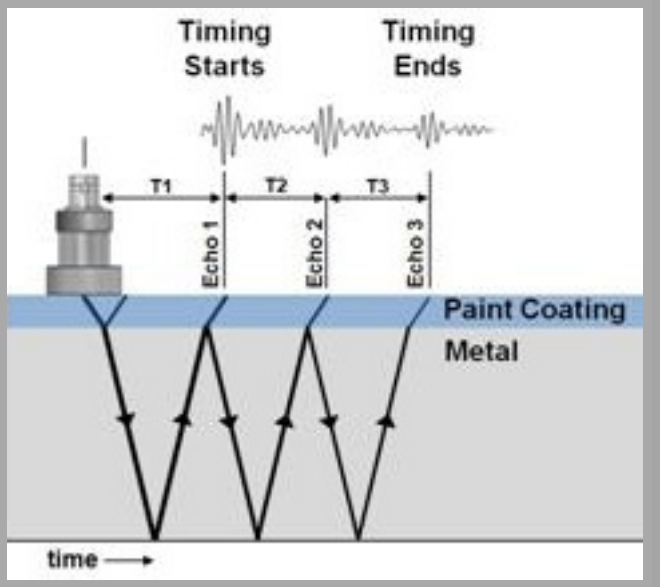
2) **Using Multiple Echo, Cygnus gauges can read through coatings up to approximately 0.24 inch (6 mm) thick. With the deep coat function this can be increased to 0.787 inch (20 mm) of coating.**

3) **As the timings between the second and third echoes have to match this ensures accurate, verified measurements.**

HOW IT WORKS

A short pulse of ultrasound is generated into the material from the probe. The instrument listens for back-wall echoes to return to the probe. When the gauge detects three consecutive echo signals of equal spacing it proceeds to measure the time between these echoes and calculates the material thickness.

As three consecutive echoes are used, any coating will be automatically ignored. Since the spacing between the three consecutive echoes must be equal, measurements are checked and far more reliable than single-echo or echo-echo modes of ultrasonic thickness measurement.



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CYGNUS 4+

The Cygnus 4+ is a small and tough multi-mode ultrasonic thickness gauge which features an A-scan display, simple to use sequential data logging and manual and automatic gain control.

MULTIPLE-ECHO: uses three back wall echoes and measures remaining metal thickness while ignoring coatings.

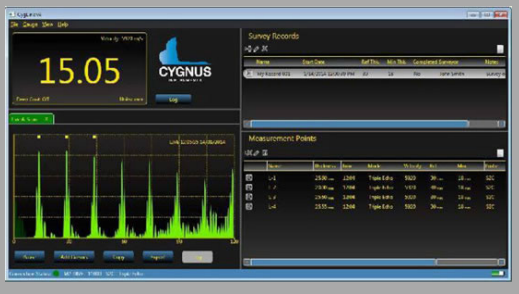
ECHO-ECHO: uses two back wall echoes and measures remaining metal thickness while ignoring coatings up to 1 mm (0.04”) thick using twin crystal probes for improved detection of back wall corrosion and pitting.

SINGLE-ECHO: uses one back wall echo, measures remaining metal thickness on uncoated surfaces with extreme front face or back wall corrosion and pitting. Effective on highly attenuative materials such as cast metals, plastics and composites.

By simply changing the probe face and connecting cable, you can switch a single gauge between the various measurment modes.

DATA LOGGING

- **5,000 measurement points (including A-scan) per record**
- **Records are saved to removable micro-SD card or transfered by USB**
- **Cyglink Software to transfer reports to the computer for data analysis.**



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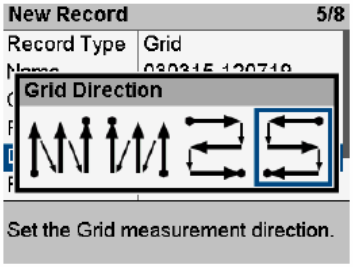
CYGNUS 6+ PRO

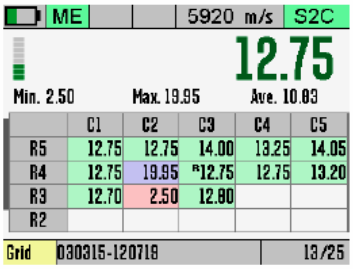
The Cygnus 6+ PRO has a range of features for the professional user including, multi-mode measuring capabilities, A-scan, real-time B scan, manual and automatic gain control and comprehensive data logging.

COMPREHENSIVE DATA LOGGING

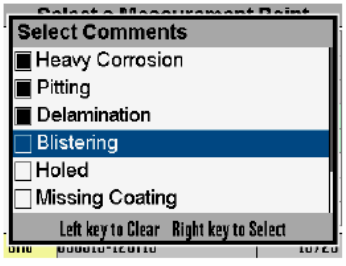
- **5,000 measurement points (including A-scan) per record**
- **Logging Options : Linear, Grid and Templates (created to by the user)**
- **Add Text Comments to Measurement Point : 8 user defined text comments**
- **Add up to 12 'radial' measurement points around the last logged measurement**
- **Records are easily transferred to a computer via USB lead or Bluetooth**
- **The data is uploaded into CygLink software**



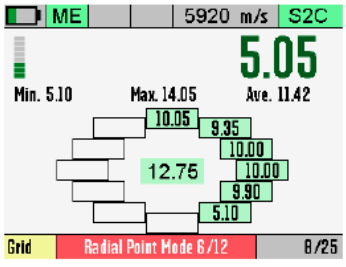
Set-up of Grid Direction



Measurement Grid



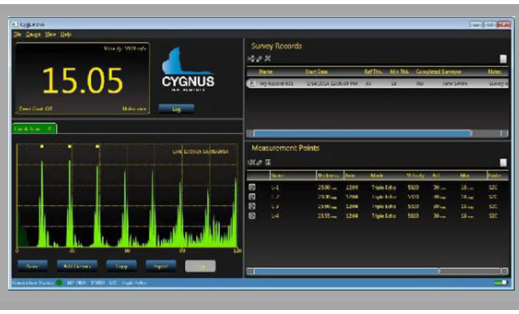
Measurement Point Comments



Radial Measurement Points

CYGLINK SOFTWARE

CygLink is a Windows® application which is used to transfer information from the Cygnus 6+ to a computer. The information can then be analyzed, stored, reports can be created and the data can be exported as a .csv file.



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CYGNUS FAMILY OF GAUGES

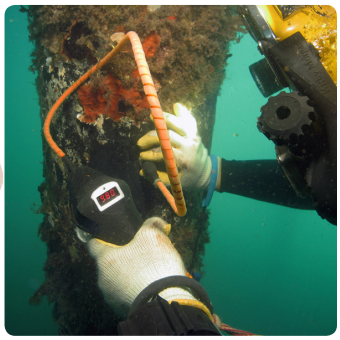
The Cygnus 1 Intrinsically Safe is a rugged, shock-proof multiple echo ultrasonic surface thickness gage designed for safely measuring metal thickness to determine wastage or corrosion in potentially explosive environments.

The latest range of ultrasonic thickness gauges includes the standard models employing the Multiple-Echo technique to give accurate through coating thickness measurements.

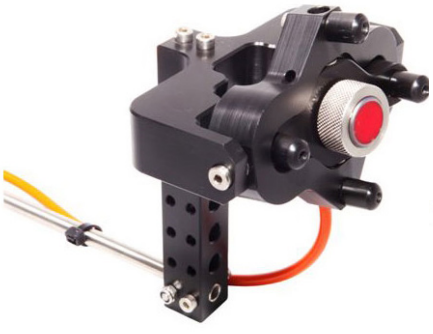
The PLUS+ models feature Multiple-Echo, Echo-Echo and Single-Echo measuring modes – a true 3-in-1 thickness gauging equipment providing versatility for a wider spectrum of applications.

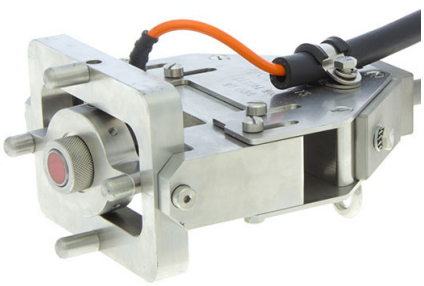
UNDERWATER UT GAUGES

Cygnus have created a range of versatile underwater and subsea thickness gauges for use by divers and engineers. These measuring devices provide a simple and time-saving method of obtaining ultrasonic thickness measurements in underwater conditions.



ROV MOUNTABLE UT GAUGES





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WESTERN PLANT & PIPELINE PRODUCTS

WESTERN INSTRUMENTS
PIT GAUGES

Western Instruments' line of Corrosion Pit Depth Gauges was introduced in the early 1990s, resulting from our involvement with Pipelines and Pressure Equipment.

The success of the Pit Gauge Product Series is based on our exclusive line of custom designed and manufactured Push to Read Dial Indicators, which are completely interchangeable between all models of our Pit Gauge Blades.

Our Dial Indicators were developed specifically for Corrosion Depth measurement, to permit Scanning through areas of corrosion.

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TRI-WELD GAUGE

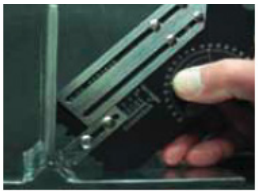
Easy to read measurements of the following welding and fit-up parameters:

Internal Hi-Lo, Gap, Filet Height and Leg Length, Weld Height, Undercut Depth, Misalignment, and Angle of Preparation.

FILET WELD HEIGHT

FILET WELD LEG LENGTH

FILET WELD THROAT



WELD UNDERCUT

WELD REINFORCEMENT

WELD OFF-SET

The Tri-Weld Gauge is equipped with 3 separate scales for all measurements. The Tri-Weld Gauge is also equipped with 7 unique diameter comparators which are half circles in 1/16” to 1/2” in 1/16” increments for convenient diameter estimates.

W-FI MAGNETOMETERS

Western Instruments manufactures 3 models of Disposable Field Indicators, which provide readings in Gauss.

1. W-FI-10 : Demagnetization (Helmholtz Coil +/- 10 Gauss)
2. W-FI-20 : Residual fields on small parts (Helmholtz Coil +/- 20 Gauss)
3. W-FI-50 : Residual fields on heavy parts (Helmholtz Coil +/- 50 Gauss)

WDV DEMAG COILS

Reduce weld defects by 75%, by eliminating arc blow, with Western Instruments demagnetization coils. There is no trial and error. Pipe stays demagnetized so there is no delay during line up and welding.

The WDV-PD Series of Coils are specifically configured for Demagnetization of Pipe ends. These Demagnetization Coils are built with Western’s exclusive PD Centralizer, to position the Coil in the Centroid and at the End of the pipe.

Without the PD Centralizer, the powerful Coil would jump towards the center of the pipe and would unevenly demagnetize the end of the pipe.

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WESTERN PLANT & PIPELINE PRODUCTS

PHASE II+

COATING THICKNESS GAUGES

Non-Metalic Coatings and Insulating Coatings

Options:

- **Integrated Probe**
- **External Probe**
- **Flip Face – Upside Down Readings**

*** BASIC MODELS AVAILABLE TOO**

PORTABLE HARDNESS TESTERS

The PHASE II ultrasonic/dynamic portable hardness testers are capable of measuring the surface hardness of a broad variety of metals on flat, round, thin or large surfaces.

These portable hardness testers incorporate "Ultrasonic UCI" technology, which enables the hardness testing of very thin and small workpieces, which otherwise could not be tested accurately using a portable device.

DIGITAL VIBRATION TESTER

The multi-fucntional vibration meter will measure Velocity, Acceleration, Displacement, and RPM. Full frequency ranges are utilized for broad detection abilities.

Feature laden, the DVM-1000 Vibration Meter doesn't pull any punches, offering statistics, inch/metric conversion, hold function, and more!!

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