PUTZMEISTER AT WORLD-CLASS LNG FACILITY IN AUSTRALIA
DISTRIBUTOR AWARDS 2012

During the World of Concrete, Putzmeister recognized its top distributors at an awards reception held at the Hard Rock Hotel. In addition to the awards below, Rocky Mountain Construction was recognized for 10 years of service, and D&M Equipment for 25 years. Putzmeister also paid tribute to the late Gary Schmidt, a longtime friend and colleague, who passed away in 2012.

- **BAUMA 2013**: At Bauma, the world’s largest trade show held April 15–21 in Munich, Germany, Putzmeister exhibited a global array of products and services in three booths—both indoors and outside. Taking center stage in the indoor booth was the new lightweight and compact 38Z-Meter, adding a new dimension to its boom pump class with a five-section Multi-Z boom, along with the introduction of the new five-section 56Z.

Other Putzmeister innovations on display included new stationary pumps and concrete mixers; mortar and screed machines; and pipelines for industrial materials, concrete placement and excavated material.

- **WOC 2013**: This year’s World of Concrete was an incredibly busy trade show and one of the most successful for Putzmeister. With the largest booth and numerous innovations on display, Putzmeister made a dominant statement. We thank our dedicated employees for their extra efforts to help make our display a highlight at the show.

Showcasing the vast improvements in the design and engineering of our boom pumps i.e. reduced weights, more user-friendly features and increased ease of service, we unveiled our new 36Z-Meter, weighing 5,000 lbs (2,268kg) lighter than the previous model; and our 56Z-Meter, a five-section boom pump at less than 100,000 lbs (45,360kg).

For more details, visit PutzmeisterAmerica.com.

- **METAL TECNICA S.A. | PERU**: Latin American Large Line and Latin American Parts & Pipe Systems Distributor of the Year
- **ADVANCE EQUIPMENT CO. | MINNESOTA**: North American Parts & Pipe Systems Distributor of the Year
- **PIONEER CONCRETE PUMPING, INC. | GEORGIA**: North American Parts & Pipe Systems Distributor of the Year
- **POMPACTION INC. | CANADA**: North American Large Line Distributor of the Year
- **IMOCOM | COLUMBIA**: Thom-Katt® Distributor of the Year
- **WALKER EQUIPMENT | ILLINOIS**: Mortar Machine Distributor of the Year
NEW MIXERS
OUTLAST ORDINARY
At the World of Concrete, Putzmeister unveiled its Pro Series standard and Bridge Maxx Series booster axle ready mix trucks. Feedback about the mixers was very positive regarding the Ergonic® Mix Control system, component durability and the product’s many user-friendly features.

Putzmeister America
President & CEO
Dave Adams

NEW HOSES
STEEL AND FABRIC
Putzmeister Pipe Technology introduced a new line of concrete delivery hoses—steel wire and fabric-reinforced options, now manufactured locally for prompt delivery. The new steel wire hoses are designed to stand up to the most abrasive applications and harshest weather. In diameters from two to six inches (50 to 150mm), they feature up to four-ply layers of high tensile strength steel wire cord. The new line of fabric-reinforced hoses ranges from one-and-a-quarter to five inches (30 to 125mm) and features up to six layers of woven fabric reinforcement, depending on hose size. Size, weight and working pressure are embossed on the side of both hose types, and all sizes are available with either heavy duty or metric ends.

REDESIGNED
TOMMY GUN® UPDATES
Putzmeister redesigned its Tommy Gun® A3 fireproofing models for increased ease of use and durability. Instead of a manual dump, the new Tommy Guns feature a redesigned 13-cubic-foot (368L) hydraulic lift and dump mixer with a load height lowered more than 12 inches (300mm) so the bag breaker is now at hip level rather than shoulder level, reducing the physical strain on the operator. In addition, the hydraulic controls are now conveniently located at the rear of the unit, adjacent to the mixer. The machines now sit on the rugged frame style developed for the Thom-Katts®. Even the previous blue and cream machine colors have changed to yellow and gray to reflect the global Putzmeister brand.

NEW PIPE
MINING & INDUSTRIAL
Putzmeister Pipe Technology launched a new range of pipe ideal for use in mining, tunneling, mills, foundries and power plants. The product range includes non-hardened ST52 mild steel, single-layer induction hardened, and twin-layer hardened pipes, elbows, tees, wyes and reducers. It is best used for in-plant piping, tailing and backfill lines, waste disposal and slurry transport.

The pipe’s diameter ranges from DN80 (3 inches) to DN250 (10 inches), with larger diameters up to DN610 (24 inches) available upon request. Wall thickness ranges from 4mm (0.16 inches) up to 12.5mm (0.50 inches). The single-wall pipe is hardened to 54 HRC for a service life two to three times longer than ST52. With an even longer wear life of five to 10 times that of ST52, the twin-layer pipe is hardened to 67 HRC.

The coupling connections can be fitted with smooth or centered weld ends. Centered connections can withstand pressures up to 200 bar (2900 psi).

Offering a wide variety of pipe quality, sizes and ends, the new pipe range allows users to customize their own unique system. The pipe is available for immediate order. Call (866) 734-0296.

In a bold move, Putzmeister America expanded into the ready mix market by engineering and manufacturing a line of concrete mixers that offers specific attributes customers value most. Plus, we hired key people to ensure this product line advances in the right direction.

In addition, we improved our existing products. Even when construction market conditions were unfavorable, we never stopped developing ideas for placing concrete and materials with greater efficiency. The fruits of our labor are evident today, from our completely redesigned boom pumps focused on operational ease and service functionality, to the new Telebelt® TB 200, the largest truck-mounted conveyor on the market for high volume concrete placement. Plus, our small line and pipe technology products were enhanced, from the revamped Tommy Gun® machines with more user-friendly features, to newly engineered pipe for mining and industrial applications, along with innovative delivery hose options now produced in Wisconsin.

We even changed our look. The blue and cream colors on specific product lines are now yellow and gray for more prominent and consistent brand recognition worldwide.

We’ve been busy in our efforts to deliver cutting-edge technology along with dedicated service and support, and there’s no plans to rest.
Most work for the marine facilities has been performed from barges in the water due to a congested work site and most of the marine areas not accessible by land.

Upon completion in 2014, Queensland Curtis LNG (QCLNG) will convert coal seam gas into liquefied natural gas (LNG), providing cleaner hydrocarbon energy for export markets, along with creating thousands of jobs and boosting the local economy. The project is being developed by QGC Pty Ltd, a division of the BG Group, a leading player in the global energy market with operations in more than 25 countries across five continents. Equipment from Putzmeister has been working to place concrete at the site since last fall.

QCLNG, located on Curtis Island in Gladstone Harbour, Australia, consists of the construction of a world-class LNG plant. Upon completion, the plant will comprise two LNG production units, known as trains, each able to produce nearly 4.5 million tons (more than four million tonnes) of LNG per year; two storage tanks each able to hold nearly 37 million gallons (140,000m³) of LNG; a marine facility for passenger and equipment transportation between the mainland and Curtis Island; and marine loading facilities for LNG cargoes.

Most of the 157,000 yds³ (120,000m³) of concrete needed for the plant and accompanying structures for the project is being placed by Putzmeister equipment, including two 47Z-Meter and two 36Z-Meter truck-mounted concrete boom pumps along with six MX 43/47Z-Meter placing booms.

Project Details
Occupying less than two percent of the island, the plant facility is surrounded by an environmental protection zone. The site can accommodate an expansion to more than 13 million tons (12 million tonnes) per year of LNG, a colorless, odorless, non-toxic and non-corrosive liquid. For the project, Bechtel Australia PTY LTD was chosen as the general contractor and purchased the Putzmeister placing systems. Meales Concrete Pumping is supplying the Putzmeister truck-mounted concrete pumps and high pressure trailer pumps.

Secluded Location
One of the more challenging aspects of the QCLNG project is that it is located on an island, which means all equipment, supplies and workers need to be transported across the harbor from Gladstone, Queensland. As a result of the approximately 3,000 workers needed for the job, a temporary construction camp, which houses up to 1,700 workers, has been established on the island. This has helped to reduce road traffic and relieves pressure on the Gladstone housing market. Additional local workers ferry across from the mainland to the island each day.

All aggregate materials for the site’s concrete are shipped across to the island on bulker barges, then transferred into six-wheel dump trucks and transported to the two 157 yd³/hr (120m³/hr) batch plants set up by the project’s concrete supplier, Boral Concrete. All other construction materials and equipment, including the Putzmeister boom pumps and placing booms, also arrived via water transport.

SPECs

OWNER/DEVELOPER: BG Group—Reading, England
GENERAL CONTRACTOR: Bechtel Australia PTY LTD—Brisbane, Australia
EQUIPMENT OWNER: Meales Concrete Pumping—Queensland, Australia
READY MIX CONCRETE PROVIDER: Boral Concrete—Sydney, Australia
PUTZMEISTER EQUIPMENT: Two 47Z-Meter and two 36Z-Meter truck-mounted concrete boom pumps, six MX 43/47Z-Meter placing booms and three BSA 2109 HD stationary concrete pumps
Creating Marine Access

Being based on an island, adequate marine facilities are an essential part of the QCLNG project. Thus, the first phase of the construction process involved building a material offloading facility that ships can pull up against during construction to unload their cargo.

The construction team has been using a 36Z-Meter to place the 10,000-13,000 yd$^3$ (8,000-10,000m$^3$) of concrete required for all marine facilities.

Because of a congested work site and since most of these areas are not accessible by land, building the marine facilities has been a challenge. As a result, much of the work has been performed from barges located in the water.

The work site near the marine facilities is congested with barges, piling rigs, drill rigs and cranes,” says Peter Lethbridge, General Manager of Meales. “The 36Z was especially useful for this part of the project due to its small footprint.”

Additional marine facilities consist of ferry terminals for passenger ferries, along with docks and ramps for the barges that transport all the equipment and supplies are shipped to the site on bulker barges.

Circling the Tanks

After the gas is liquefied in the processing plant, it will be transferred to one of two massive storage tanks before exportation. To build the nearly 300-foot wide by 130-foot (90m by 40m) high tanks, both placing booms and truck-mounted boom pumps are being used. Approximately 16,400 yd$^3$ (19,600m$^3$) of concrete will be placed for each tank.

Six MX 43/47Z-Meter placing booms, three surrounding each tank structure, are mounted on 130-foot (40m) high freestanding lattice tower sections. Each has two ties back to the tank to help support the free stand height. The systems utilize three BSA 2109 HD stationary concrete pumps. Since the MX 43/47Z is the industry’s largest placing boom that does not require a counterweight, it has helped to significantly reduce congestion on the work site. The crew also is using the 47Zs to support the placing boom systems on larger tank wall pours.

Each tank will require 10 wall pours at about 13 feet (4m) high, each of which are poured in a complete ring. The base of each tank will be poured in four sections that include two outer ring pours and two inner floor pours with each pour consisting of about 1,300 yd$^3$ (1,000m$^3$) of concrete.

“The tanks are about 300 feet (90m) in diameter, which gives you a fairly significant circumference,” explained Lethbridge. “The placing booms were chosen because they gave the crew complete coverage of the walls, and offer enough reach to access the top of the tanks to pour the roof.”

The placing booms are primarily responsible for placing concrete for the walls, and roof of the tank structures. On the lower sections of the tank walls, which are thicker than the top portions, and therefore require more concrete placement, the 47Zs are being used to help supplement the pours.

“The truck-mounted pumps allow the pours to be finished in a shorter period of time than if just the three placing booms were being used,” explained Lethbridge. “This helps the crew to better meet its deadlines, which is vital to any construction project.”

Placing the “Trains”

The two LNG production units, or “trains,” are where the coal seam gas travels through the various processing stations to eventually be converted to LNG. To build the massive trains, two Putzmeister 47Z-Meter truck-mounted concrete boom pumps are working to place the majority of the 117,700 yd$^3$ (90,000m$^3$) of concrete for the footings, mat pours, pedestals and columns.

On occasion, to supplement the 47Zs, a 36Z-Meter assists in the placement of concrete. The 36Z is used in addition to the 47Zs on mat pours greater than 1,570 yd$^3$ (1,200m$^3$), and for smaller miscellaneous pours, such as many of the pedestals that will support the plant upon completion.

The Putzmeister truck-mounted concrete boom pumps were selected because they not only allow us to reach the designed heights and complete the large pours efficiently, but they also allow us to move the machines around the site easily with fast setup and teardown times,” explained Lethbridge. “On any given day the machines could be set up in three or four different locations for the placing of concrete.”
TELEBELTS®

BELT(S) WON’T RUN? BET IT’S NOT THE PUMP’S FAULT.

This is the second of three articles about Telebelt® belt-related issues. The first article, “Belt(s) Won’t Run? I’ll Bet it’s Not the Pump—1 of 3 Mechanical”, is posted on our blog at PutzmeisterTricks.com.

From time to time, we get calls involving a belt that won’t run or runs very slowly. The call we like least is, “My feeder (or main) belt quit running. I replaced the pump, but it still won’t run.”

With over 800 Telebelts in the field, there are more than 2,100 piston pumps; however, we don’t hear of pump failures very often.

RULE #1: Check to see if the belt will run with manual control. If it will, the problem is probably electrical or in the radio remote. If not, it’s mechanical or hydraulic.

Things that stop belts are as follows:
► Mechanical problems
► Electrical problems
► Hydraulic problems
► Truck or engine failure (This topic is beyond the scope of this series.)

Let’s deal with hydraulic problems. By now you should have observed Rule #1 and know the problem is not electrical and you cannot run manually.

IS THERE ANY PRESSURE ON THE BELT CIRCUIT, MAIN OR FEEDER?

► If one belt is working, but one is not, connect a 400 bar gauge to the “M” test port for the belt that is not working. This is explained in the maintenance section of the Telebelt manuals.
► Always hook up the 400 bar gauge first. If there is over 60 bar, you will blow your 60 bar gauge.
► If neither belt is working, double check that the driver-side PTO shaft is turning. This is just about the only thing that could cause both belt pumps to quit together.
► If the belt works under normal load, but it stalls under very heavy load, a larger displacement motor might be required. Example: Feeders have motors that deliver optimum output under normal conditions. Extreme loads, i.e. paving, might require larger motors with more torque. Use a pressure gauge to see if the belt stalls at full pressure (280 bar) or if it has no pressure when it quits.

IS THERE PRESSURE BELOW 60 BAR? SEE PHOTOS

► If it is below 60 bar, connect your 60 bar gauge.
► Disconnect the square plug on the motor control valve for the pump you are working. Another way would be to pull the belt card or belt card fuse for the pump you are working on. This will ensure you are not getting a false reading from belt card zero.
► You now can read standby (low) pressure.

IS THERE PRESSURE ABOVE 60 BAR? SEE PHOTOS

► Disconnect the square plug on the motor control valve for the pump you are working. Another way would be to pull the belt card or belt card fuse for the pump you are working on. This will ensure you are not getting a false reading from belt card zero.
► When the pressure drops below 60 bar, connect your 60 bar gauge.
► You now can read standby (low) pressure.

IS THE PRESSURE BELOW 20 BAR?

Using the pressure setting procedure in the manual, set standby to:
► All feeder belts – 20 bar
► Main belts (except TB and TBS 130/600) – 20 bar
► Main belts TB and TBS 130/600 – 25 bar
► Boom/outrigger pumps – 22 bar

ARE THE STANDBY PRESSURES LOW OR ERRATIC?

► This could indicate broken springs or a stuck standby spool. Lightly tap the control valve (compensator) with a hammer. This often frees stuck spools.
► Screw the pressure adjusting screw all the way in. This will override broken springs.
► If these steps don’t work, shut the machine off. Release air pressure on pressurized tank units. Remove the low pressure spool, and check for contamination or scoring.
► If you think you have a bad compensator, swap it with the other belt pump and see if the problem changes to the other circuit. (This cannot be done with the 140CC main belt pumps on a TB 130.)

NOTE: Compensator (control valve) problems are often the cause of pump “failures”. A pump with low, or no, standby pressure will not come on stroke. Repairing or replacing the compensator often does the trick.

IF THE STANDBY PRESSURE CAN BE SET:

► Using the procedure in the manuals, check and set high pressure, which all pumps set to 280 bar.
► If high pressure cannot be reached, eliminate problems that can cause this:
► Motor leakage
► Piston packing leaks
► Valve spool leakage
► Counterbalance or relief valve leakage

IF YOU GET THIS FAR, IT JUST MIGHT BE THE PUMP.

► The only way to truly test a pump is with a flow meter. Even a bad pump delivers flow until back pressure is applied.
► You can also get a rough idea of pump condition by checking function times.
► Compare this to the times recorded on the pump test page in the front of your manual.
► Rule of Thumb: Main belts usually run 900 ft/min when delivered. Feeders usually run 1,000 ft/min. If you get a low reading, check the motor(s) to make sure they haven’t been changed to a higher displacement.
► You can also use function times to determine changes in the boom/outrigger pump.
► A flow meter can also be used to check leakage rates from the pump case drain.

CONCRETE BOOM PUMPS

Visit PutzmeisterTricks.com to follow our tricks of the Trade blog for truck-mounted concrete boom pumps.
PUTZMEISTER PEOPLE

Putzmeister added three new faces to its concrete mixer line and a key account manager to the Pipe Technology division.

ROGER ANDERSON is the new concrete mixer line’s Sales and Marketing Manager, responsible for direct sales of concrete mixers, as well as establishing a regional sales force in North and Latin America and coordinating marketing activities. With nearly 35 years of experience selling construction machinery, Anderson previously worked for SANY America. He can be reached at andersonr@putzam.com or (262) 902-6537.

KEVIN SHABER is Product Manager for concrete mixers, handling the overall strategy and engineering of our concrete mixers in North and Latin America. With nearly 15 years of associate, design and project engineering experience, Shaber has worked for SANY America and McNeilus Truck. He has a bachelor’s degree in mechanical engineering and a master’s in business. Contact him at shaberk@putzam.com or (678) 800-9377.

DREW WILLIAMS, as the concrete mixer line’s new Regional Sales Manager, will be demonstrating and selling the mixer line in his designated territory. Prior to this role, Williams was Inside Sales and Customer Service Manager for Putzmeister Shotcrete Technology. He reports to Roger Anderson, the product line’s Sales and Marketing Manager, and Drew can be reached at williampd@putzam.com or (262) 770-0797.

TIM HARMANN is Key Account Manager for the Putzmeister Pipe Technology division, helping to manage the division’s key customers and accounts, while assisting in strategic planning and business development opportunities. Harmann, a Putzmeister employee since 1995, was previously a Customer Support Representative in our Customer Support Group. Reach him at harmannt@putzam.com or (262) 884-6388.

PMA WINS TELLY AWARDS

Putzmeister received Telly awards for our 2011 and 2012 holiday videos in the Annual Telly Awards contest, which receives more than 13,000 entries worldwide. Created with a unique Putzmeister twist and starring Don (Santa) Matthews, the 2011 video was a play off of ‘Twas the Night Before Christmas, and our 2012 video portrayed an ole’ fashioned holiday theme. Both were filmed by ZZ Marketing. A great honor to achieve such a premier award, each video won a bronze award in the art direction category.

EMPLOYEE AWARDS

Congratulations to the following Putzmeister America employees who won the 2012 Sensational Six awards:

TOM CLAUS  JOHN LUX
MARK SKUHRA  KEVIN STICH
LEE STRASSER  JESSICA ZELLNER

HOLIDAY SCHEDULE

Putzmeister America offices are closed in observance of the upcoming summer holidays:

► MEMORIAL DAY  |  MONDAY, MAY 27
► INDEPENDENCE DAY  |  THURSDAY, JULY 4
► LABOR DAY  |  MONDAY, SEPTEMBER 2

During these closings, we offer limited and emergency service by calling (800) 890-0269.

WANTED: JOB PHOTOS

If you have any high quality application photos of Putzmeister products that you could provide for use in our calendar, website, literature and various other marketing materials, please e-mail them to Kelly Blickle at blicklek@putzam.com. We need them and appreciate them!

A UNIQUE APPLICATION?

If you have a unique project or unusual application job—whether a challenging equipment setup, a special concrete mix, a complex placement technique, a high-profile project, etc., please contact Kelly Blickle at blicklek@putzam.com. If you provide the information, we will write the article and distribute it for publication.
We introduced our Putzmeister Advantage Rewards program in January 2013, and it’s not too late to join and benefit from the savings.

As a member, you’ll enjoy substantial savings on genuine Putzmeister parts along with Pipe Technology delivery systems and accessories. Plus every qualifying purchase earns you rewards points (Putz Points) that translate into savings on future purchases.

There are two levels of membership—Select and Premier. Check the overview on our website to see which program works best with your purchasing budget. You can also contact Putzmeister America for more information.

Regardless of the membership you choose, the Putzmeister Advantage Rewards program will help you get the savings you deserve for being a loyal customer. Hurry, sign up today.

Automatically every quarter, points will be totaled and the corresponding dollar value coupon card will be sent out. These cards will be valid for 90 days.

**HERE’S HOW PUTZ POINTS REWARDS CAN ADD UP FOR YOU**

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**SAVE 40% OR MORE ON SELECT PARTS.**

**WATCH YOUR E-MAIL FOR MORE PARTS SPECIALS DURING THIS SUMMER.**

Sign up your e-mail address today at pmr@putzam.com I Subject: Rewards

**For more specific details, visit our website:** PutzmeisterAmerica.com