Putzmeister

PARTS CATALOG

Second Edition

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1
INTRODUCTION

1.1 INTRODUCTION

PUTZMEISTER AMERICA

Specializing in concrete and material placing equipment for the construction industry, Putzmeister America, Inc. is the North American division of one of the world's most recognized and respected heavy equipment manufacturers, Putzmeister Concrete Pumps GmbH. We are committed to product quality, innovation, and service excellence — hallmarks of our parent company.

With signature craftsmanship, we manufacture a complete line of truck-mounted concrete boom pumps, separate placing booms, truck-mounted telescopic belt conveyors, concrete transit mixers and trailer-mounted concrete pumps, as well as mortar, grout, shotcrete, plaster and fireproofing pumps and mixers, industrial pumps, tunneling machinery and pipeline systems.

Additionally, Putzmeister provides a vast inventory of quality parts, a wide selection of pre-owned equipment, and a dedicated support network to keep our customers up and running at all times. From project inception to completion, you can count on Putzmeister for superior equipment, affordable solutions, durable parts and dedicated service. It's not just a promise - it's proven.

In 1998, Putzmeister set a new standard in the concrete placing industry with the highest ISO certification awarded in North America. Just eight years later, we were the very first manufacturer to achieve CPMA certification for our entire line of boom pumps and boom placing systems. Today, as members and leaders of various industry organizations, we proudly enjoy an authentic reputation as we continue to lead the way in quality.

At the end of the day, our goal is to put the world's best equipment on your job site, with the industry's most dependable support. It's the kind of commitment that will help you Perform at a Higher Level.

PUTZMEISTER AMERICA, INC.

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UPDATES

To have updates sent to you, please send your mailing address and email address to **pmr@putzam.com.**

1.1 INTRODUCTION

WEST COAST CUSTOMER SUPPORT CENTER

13000 Arctic Circle
Santa Fe Springs, CA 90670 USA

TOLL-FREE (800) 581-3245
FAX (562) 229-1713

The Putzmeister West Coast Customer Support Center is a full service center specializing in parts. The facility also serves as the main Customer Support Center for the West Coast.

PUTZMEISTER HOUSTON

121 Genadena St.
Houston, TX 77034

PHONE (713) 589-8781
TOLL-FREE (866) 297-8965

The Putzmeister Houston facility specializes in mixer assembly, painting, and serves as a parts center for all products. The plant is also a Pro-Tech used equipment center, refurbishing used Boom Pump and Telebelt equipment.

PUTZMEISTER MEXICO

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Putzmeister Mexico, a division of Putzmeister America, Inc., serves as the primary concrete mixer manufacturing facility for the Americas, specializing in the complete manufacturing process from raw materials to finished product.

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Putzmeister Brazil Ltda, a subsidiary of Putzmeister America, provides new equipment, spare parts, after sales support and operator and maintenance training, as well as refurbishment services of customer-owned equipment.

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MACK TRUCK SUPPORT
(877) 893-3007

1.3 PUTZMEISTER ADVANTAGE REWARDS

Putzmeister has always appreciated repeat business. Since no one is more deserving of a break than our loyal customers, we're pleased to offer the Putzmeister Advantage Rewards program.

Here's how it works: As a member, you'll not only enjoy substantial savings on genuine Putzmeister parts, but with every qualifying purchase of parts, accessories and pipe systems you'll earn rewards points that can be used for savings on future purchases.

Both customers and distributors can earn points, and there are two levels of membership - Select and Premier. Check the overview below to see which program works best with your purchasing budget. You can also contact the factory for more information on the program.

You can join at any point in the year, but you must re-up in the first quarter of the following year to maintain membership. Regardless of which membership you choose, the Putzmeister Advantage Rewards program will help you get the savings you deserve for being a loyal customer.

Weldment orders not eligible.

SELECT ADVANTAGE REWARDS MEMBERSHIP

A single minimum $5,000 order of Putzmeister genuine parts, Pipe Technology delivery systems or accessories for delivery and invoicing in the current year qualifies for membership at the Select Advantage Rewards level.

SELECT ADVANTAGE REWARDS BENEFITS

- Rewards points for every dollar spent, which can be used toward the purchase price of any future parts order
- Eligibility for special members-only promotions
- Free paint, when applicable

* **Annual renewal requires parts orders totaling $5,000 or more the first quarter of each year.**

PREMIER ADVANTAGE REWARDS MEMBERSHIP

A single minimum $20,000 order of Putzmeister genuine parts, Pipe Technology delivery systems or accessories for delivery and invoicing in the current year qualifies for membership at the Premier Advantage Rewards level.

PREMIER ADVANTAGE REWARDS BENEFITS

- Rewards points for every dollar spent, which can be used toward the purchase price of any future parts order
- Priority attention on parts orders
- Eligibility for special members-only promotions
- Free domestic ground shipping or discounts on international economy shipping on stock pipe orders. *Some exclusions apply.*
- Free paint, when applicable

* **Annual renewal requires one single order totaling $20,000 or more the first quarter of each year.**

HERE'S HOW PUTZPOINTS REWARDS ADD UP

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

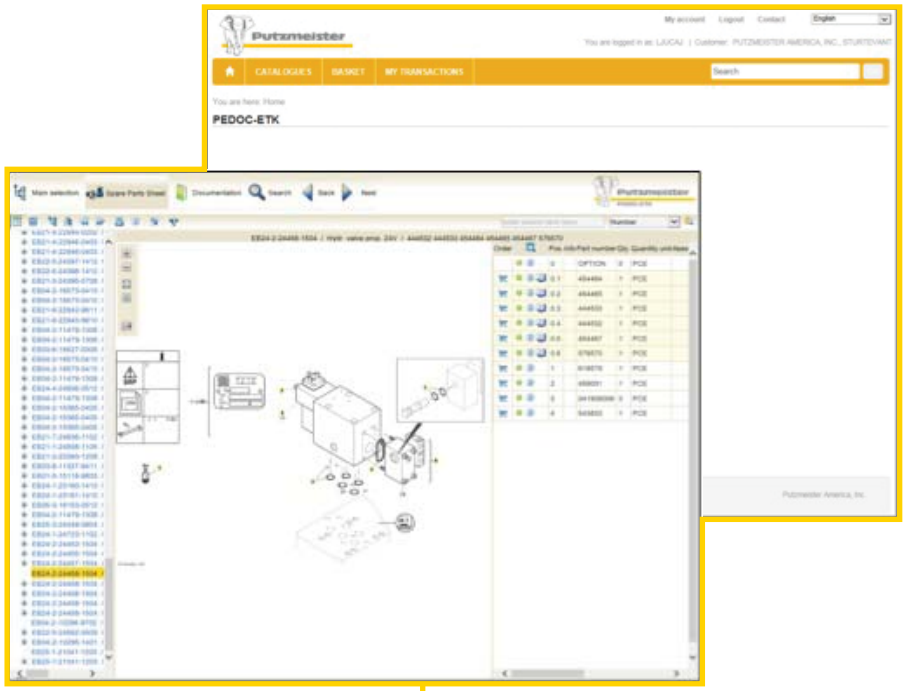
SELECT POINTS LEVELS

Dollars Spent	Points Earned	Dollars Earned
$1,000	150	$15
$5,000	750	$75
$10,000	1500	$150
$15,000	2250	$225

PREMIER POINTS LEVELS

Dollars Spent	Points Earned	Dollars Earned
$20,000	6,000	$600
$25,000	7,500	$750
$30,000	9,000	$900
$35,000	10,500	$1,050
$40,000	12,000	$1,200
$45,000	13,500	$1,350
$50,000	15,000	$1,500

1.4 WEBSHOP & MERCHANDISE



WEBSHOP IS AN EXCLUSIVE SERVICE FOR PUTZMEISTER CUSTOMERS.

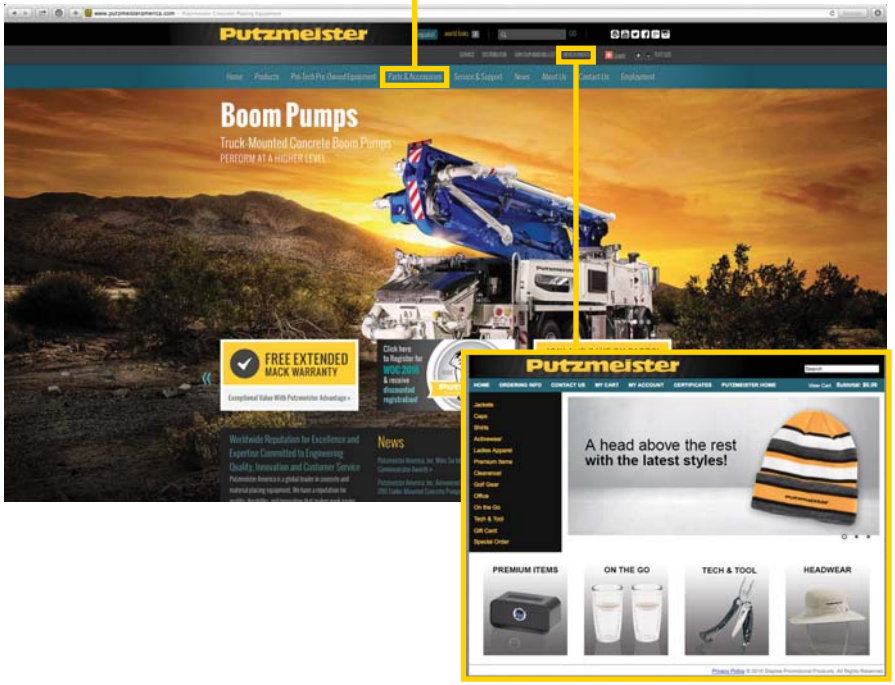
Order Genuine Putzmeister Parts on the Internet

Parts Online Means Parts on Time. Putzmeister offers longer-lasting, better performing parts made for the tough conditions you find on your jobs.

On-time parts delivery means greater savings and less downtime for you.

All supplies of spare parts are made on the basis of our conditions of sale and supply.

24 Hour Toll Free Emergency Parts and Service Hotline (800) 890-0269

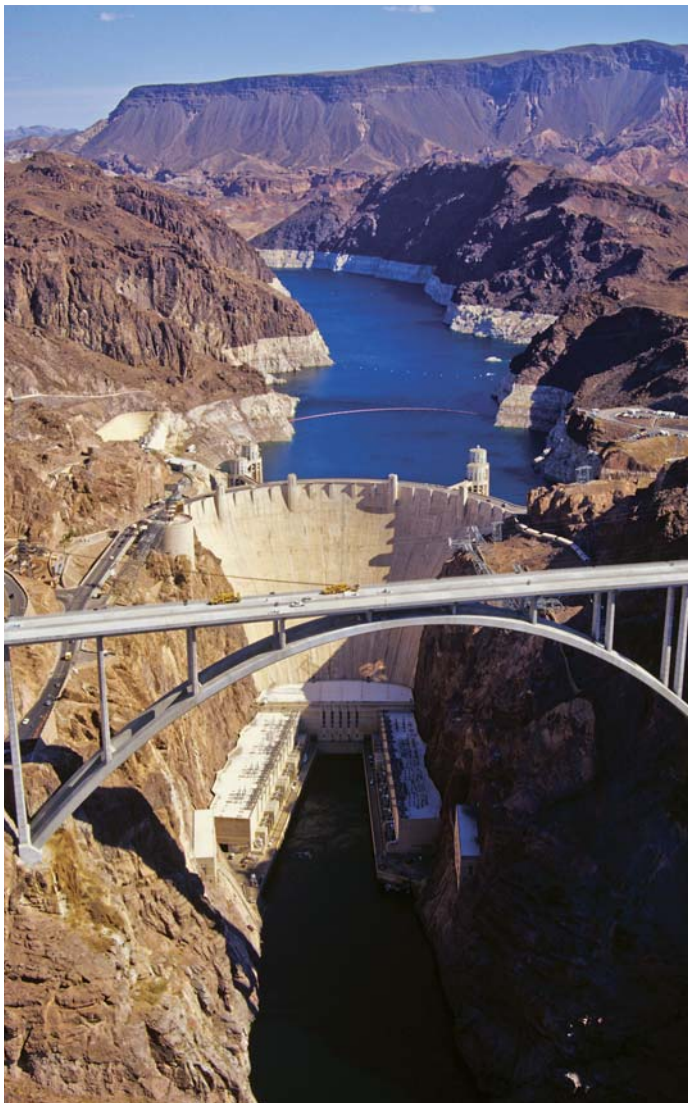


WELCOME TO THE PUTZMEISTER MERCHANDISE WEBSHOP

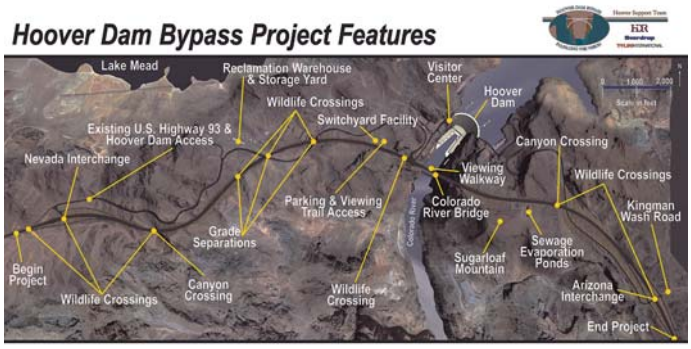
Clothing and other articles available under **www.PutzmeisterAmerica.com**

1.5 HOOVER DAM BYPASS

A HISTORICAL CONSTRUCTION FEAT



An amazing construction feat during the Hoover Dam Bypass project, the new Colorado River Bridge spans the Black Canyon south of the Hoover Dam.



The complex endeavor comprises 3.5 miles (6km) of roadway, eight bridges, wildlife crossings, a bridge over the Colorado River as well as various pedestrian and visitor improvements.

AS WAS DONE 76 YEARS AGO, THE HOOVER DAM AGAIN MADE ITS MARK IN HISTORY BOOKS. CREWS CONQUERED AN ENGINEERING FEAT BY CONSTRUCTING THE MOST TECHNICALLY CHALLENGING BRIDGE EVER BUILT IN NORTH AMERICA, THE COLORADO RIVER BRIDGE,NOW OFFICIALLY NAMED THE MIKE O'CALLAGHAN – PAT TILLMAN MEMORIAL BRIDGE.

To expertly place concrete for this one-of-a-kind endeavor, Putzmeister truck- and semi-trailer-mounted concrete boom pumps, separate placing booms and BSA high pressure trailer pumps overcame the unique challenges presented by the Hoover Dam surroundings.

The $240 million Hoover Dam Bypass project was built to alleviate traffic on U.S. Highway 93, which crosses the Hoover Dam to pass over the Colorado River. As this highway was the major commercial corridor between Arizona, Nevada and Utah as well as on the North American Free Trade Agreement (NAFTA) route between Mexico and Canada, traffic congestion was a serious economic burden. The heavy traffic combined with the sharp highway curves also created a potentially dangerous situation for Hoover Dam visitors and dam facilities.

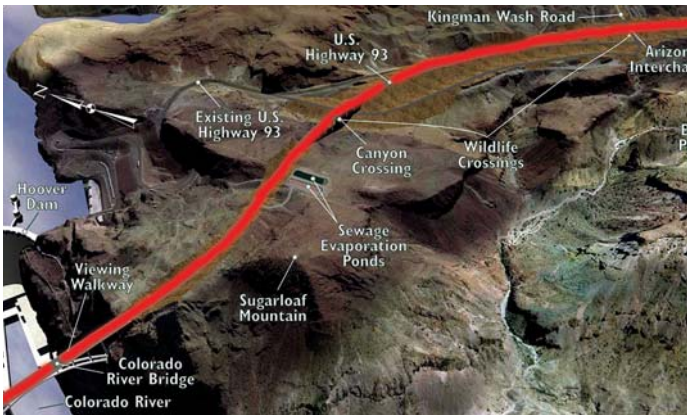
To combat this situation, the Hoover Dam Bypass, a five-year construction project completed in October 2010, now provides an alternate crossing of the river near the dam. It comprises 3.5 miles (6km) of roadway, eight bridges, wildlife crossings, a 1,900-foot (579m) long bridge over the Colorado River as well as pedestrian and visitor improvements.

Six Construction Phases

Due to the project's magnitude, it was divided into six phases. Putzmeister equipment arrived on site in the early stages of the Arizona Approach phase, which included constructing a highway that worked toward the east, while the Nevada Approach highway phase headed west. They connected in the middle at the new Colorado River Bridge, which spans the Black Canyon about 1,500 feet (457m) south of the Hoover Dam.

EQUIPMENT

32- to 58-meter truck-mounted concrete boom pumps



Overview of the Arizona Approach phase.

On this portion of the project, the 52Z- and 58-Meter did the lion's share of the work.

One-third of the concrete work in the Arizona Approach was devoted to building the Sugarloaf Mountain Bridge.

A CLEVER APPROACH

THE ARIZONA APPROACH

CONSTRUCTION OF THE $21.5 MILLION ARIZONA APPROACH BEGAN IN EARLY 2003. THIS PHASE ENCOMPASSES 1.8 MILES (2.9KM) OF FOUR-LANE ROADWAY THAT LEADS FROM ARIZONA U.S. 93 TO THE NEW COLORADO RIVER BRIDGE CROSSING.

Mountains were literally moved to make way for the roadway and bridge; however, the terrain left behind was extremely steep and rocky. Often, a trail built one day for special access was moved the next. Obviously, these were less than ideal conditions for concrete placing equipment to traverse and set up.

However, the Putzmeister concrete boom pumps used on the job never succumbed to the obstinate terrain and were on-site working about four days a week over a 14-month period. The pumps, ranging from 32 to 58 meters, were supplied by Quinn Concrete Pumping, Inc. (Quinn) of Las Vegas, Nevada – the exclusive concrete pumping sub-contractor for the Arizona Approach.

Two-thirds of the concrete placement was devoted to the grid structure, which included underground diversion channels for water drainage. However, the more visually apparent concrete work could be seen on the Sugarloaf Mountain Bridge, a 900-foot (274m) long bridge spanning a canyon on the east side of Sugarloaf Mountain. The bridge required eight sets of columns, wide at the base and tapered toward the top. Constructed in a hopscotch manner, the specially-beveled formwork jumped from one to the next.

Critical Bridge Deck Pour

Although all concrete pours were important, the final bridge deck pour was by far the most critical. To the casual observer, nothing unusual was evident. To experienced construction crews, great care was taken to ensure the concrete placing equipment did not break through the new bridge situated 140 feet (43m) above ground."The concrete on the bridge was fresh," notes Steve Heimark, operations manager at Quinn. "Therefore, instead of nosing up to the edge of the last deck pour and using a smaller boom pump to finish the last 60 foot by 100 foot (18.3m by 30.5m) section, we felt we had to take all danger out of the equation.

EQUIPMENT

52Z-Meter and 58-Meter truck-mounted concrete boom pumps

Great care was taken during the final deck pour to ensure concrete placing equipment did not break through the 'fresh' new bridge 140 feet (43m) above ground.

Heimark continues, "As a result, we alerted the general contractor's engineers to help calculate the structural integrity of one of the bridge's column. If structurally sound, this would be a safer alternative for positioning concrete placing equipment over the top of it."

The column was deemed worthy of withstanding the pressure exerted when pumping concrete along with the combined 260,000 lb. (118,000kg) weight of two ready mix trucks and a 52Z-Meter boom pump. With the revised setup spot over the top of the bridge's column, the larger 52Z-Meter was now needed for more reach.

Although the new setup equation meant a larger sized boom pump, two ready mix trucks could now simultaneously discharge into the pump's hopper. This was in contrast to accommodating only one mixer at a time with the original plan.

Being exceptionally safety-conscious, Quinn also positioned five-foot by eight-foot (1.5m x 2.4m) steel trench plates under the boom pump's front outriggers for added insurance in spreading the load over a wider area.

Quinn Isley, Quinn Concrete Pumping owner, says, "Even the best Vegas mix is the worst mix almost anywhere else in the country, and the mix specs for this project were no exception. A brutal combination of coarse aggregate and coarse sand proved unpumpable for competitive pumps originally sent out on the job. However, when our Putzmeister pump with its Big Mouth S-Valve arrived, it gulped down the harsh mix without a problem."

The bridge had eight sets of columns, wide at the base and tapered toward the top.

A brutal mix of coarse aggregate and coarse sand proved unpumpable for competitive pumps, but the Big Mouth S-Valve gulped down the tough mix without a problem.

1.5 HOOVER DAM BYPASS

A HISTORICAL CONSTRUCTION FEAT

EQUIPMENT

42-Meter and 58-Meter truck-mounted concrete boom pumps

POSITIONED MERE INCHES FROM THE EDGE OF A MOUNTAINOUS CLIFF NEAR THE HOOVER DAM, A PUTZMEISTER 58-METER BOOM PUMP STRETCHED ITS LONG 188 FOOT (57M) BOOM TO ITS FULLEST EXTENSION TO PUMP CONCRETE INTO THE HOPPER OF ANOTHER BOOM PUMP SITUATED IN A GORGE BELOW.

Ironically, the unit underneath – a Putzmeister 42-Meter – was also set up on the edge of yet another cliff, overlooking a river 900 feet (274m) below. Its boom was also extended to its longest reach at 138 feet (42m) to pump concrete to its final destination.

Together, these "pumps on the edge" were deemed the only way to effectively place concrete for construction of a large bridge pier. Not just any bridge pier. This one will provide the foundation for vertical columns needed to support the special arch of the new Colorado River Bridge, a vital link of the Hoover Dam Bypass project.

Quinn was once again selected as the concrete pumping sub-contractor for the Colorado River Bridge phase. Quinn, with established pumping services since 1998, supplied the Putzmeister equipment and pump operators. In addition, they provided the expertise and creativity to mastermind this challenging concrete placement feat, as well as many others that would follow.

Concrete Boom Pump Conquers Terrain

Before the 'pump to pump' pour could commence, a temporary road was specially built for the 42 so it could travel down the steep and rocky slope.

In addition, a 35-foot by 50-foot (10.7m x 15.2m) platform was specially graded flat to ensure a structurally sound base for unit setup below.

Steve Heimark of Quinn notes, "Originally, we considered a 36-Meter for its lighter weight. However, we had to upsize to a 42-Meter for greater reach.""It was nerve racking," adds Heimark, "when this larger boom pump had to travel down an almost 45-degree slope while connected to the cable of a track-hoe excavator.

EQUIPMENT

42-Meter and 58-Meter truck-mounted concrete boom pumps

The rugged terrain is clearly apparent, while the illustrative arrows indicate how the boom pump setup locations were planned before the 'pump to pump' pour commenced.

"ALL THE TIME, WE WERE RELYING ON THE CABLE'S STRENGTH NOT TO LET THE PUMP ESCAPE, WHICH WOULD HAVE SENT IT PLUMMETING OVER THE EDGE AND ALMOST A QUARTER MILE DOWN BEFORE CRASHING INTO THE WATERS BELOW. FORTUNATELY, THE UNIT STAYED ITS COURSE."

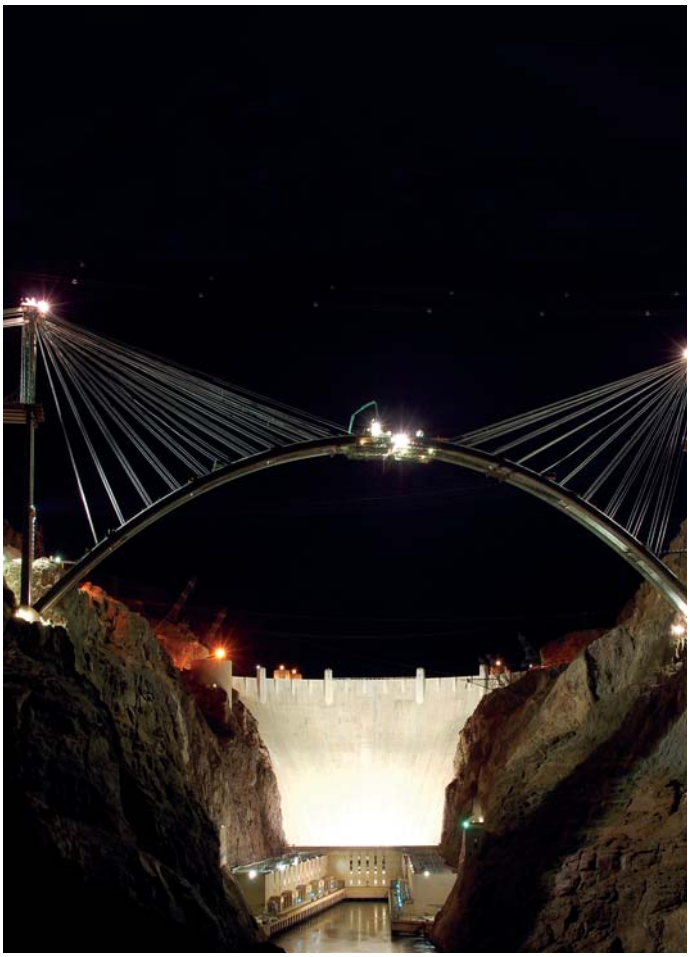
The crew worked at night to take advantage of lower summer temperatures and less traffic congestion. However, due to the nature of the pour itself, it still took seven hours to place 380 cubic yards (290m³) of concrete.

Big Mouth S-Valve Gulps Down Harsh Mix

Casino Ready Mix, Inc. supplied the harsh Vegas mix from a batch plant set up near the project. As ready mix trucks could not traverse down the extreme slope, they would discharge into the hopper of the BSF 58.20H pump situated atop the upper edge, which in turn, pumped to the other boom pump's hopper below.

Heimark says, "On other jobs related to the Hoover Dam project, the general contractor had witnessed our Big Mouth S-Valve handle extremely harsh mixes that others just couldn't pump. As a result, our equipment's performance was a major factor in being selected."

Although this was a challenging pour on the bridge's structure, it was not the most difficult or most unique. Owner Quinn says, "We would handle some of the most unusual and innovative concrete placement techniques ever imagined throughout the various stages of this high-profile project."



The 1,060-foot (323m) spans of the twin concrete arches are the longest in North America, fourth longest in the world.

Most concrete placements occurred at night to avoid pumping in the heat and traffic congestion.

MAKING A MODERN MARVEL

THE COLORADO RIVER BRIDGE

CONSTRUCTION OF THE $114 MILLION COLORADO RIVER BRIDGE, THE HEART OF THE HOOVER DAM BYPASS PROJECT, FEATURES A 1,900-FOOT (579M) LONG OPEN SPANDREL DECK ARCH BRIDGE, WHICH ARCHES 900 FEET (274M) ABOVE THE COLORADO RIVER. THE 1,060-FOOT (323M) SPANS OF THE TWIN CONCRETE ARCHES ARE THE LONGEST IN NORTH AMERICA, FOURTH LONGEST IN THE WORLD, AND REACH ABOUT 900 FEET (274M) HIGH AT THE APEX.

General contractor for this portion of the project, Obayashi/PSM JV had its work cut out for them. The project included the precasting and erection of pier columns up to 300 feet (91m) tall; construction of the twin, cast-in-place segmental concrete arch spans; and the installation of temporary twin cable stays that have a 2,500-foot (762m) span and are 330 feet (101m) tall to support the arches during construction.

Complete Systems Approach

"We called Putzmeister right away to discuss the complicated project and what our possible concrete placing solutions would be," says Wes Pollnow, construction manager of Obayashi/PSM JV. "We felt more confident preparing for this project by utilizing Putzmeister's complete systems approach."

Detailed input was necessary to make precise calculations that would allow the job to be carried out with the utmost safety and efficiency. Pollnow notes, "The placing system chosen to maximize concrete placement for the arch was the MX 32/36Z and MX 36/38Z placing booms and BSA 2107 HP-E and BSA 2109 H-E trailer pumps."

Overcoming the Extreme

Jeff St. John, project manager of Obayashi/PSM JV, says Putzmeister also helped their team determine how and where to strategically mount the placing booms and position the trailer pumps for all portions of the complex project.

1.5 HOOVER DAM BYPASS

A HISTORICAL CONSTRUCTION FEAT

"For construction of the twin arches, we positioned one trailer pump near the base of the Nevada arches and one on top of the arch footing in Arizona," comments St. John. "A placing boom was also positioned on each the Nevada and Arizona side of the twin arches."

The separate placing booms and their pedestals were flown via crane to each of the twin arches for mounting on their specially-designed platforms.

Once the placing booms and trailer pumps were in position, they were ready to step up to overcome the still problematic heat and place the harsh Nevada concrete mix up 280 feet (85m) and out 530 feet (162m).

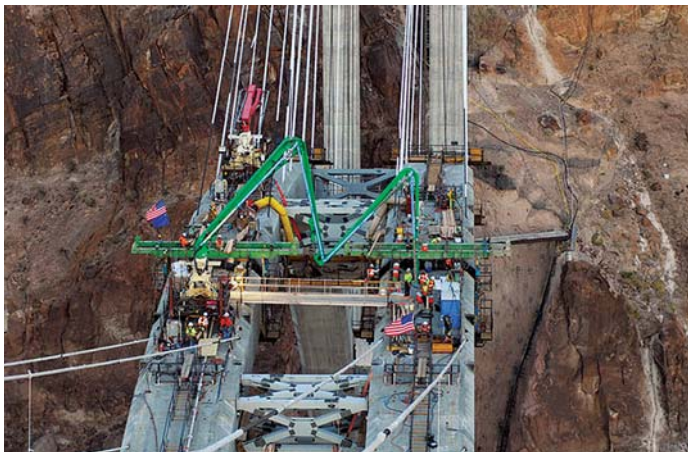
"All of the concrete mixes used for the arch were advanced concrete mix designs using harsh aggregates," says St. John. "Liquid nitrogen was used extensively for pre-cooling of the concrete in order to reduce the temperature the concrete reaches during curing."

For the arches, a high-strength 10,000-psi concrete mix was used, and for the columns and pier caps, a high-strength 6,000-psi mix.

"Even with the combination of the heat and the harsh mix, the trailer pumps were able to easily maintain a continuous concrete flow, at a timely pace, up to the placing booms so it would not clog the pipe system in the extreme conditions," comments Pollnow. "In addition, the S-Valves on the pumps had no problem gulping down the tough concrete mixes."

The trailer pumps are able to provide a smooth, more controllable output of concrete because of each pump's free flow hydraulic technology. Both pumps have a fully adjustable volume control to allow very slow pumping while retaining full concrete pressure.

Obayashi/PSM JV selected placing booms from Putzmeister that were flown via crane to each of the twin arches for mounting on specially-designed platforms.



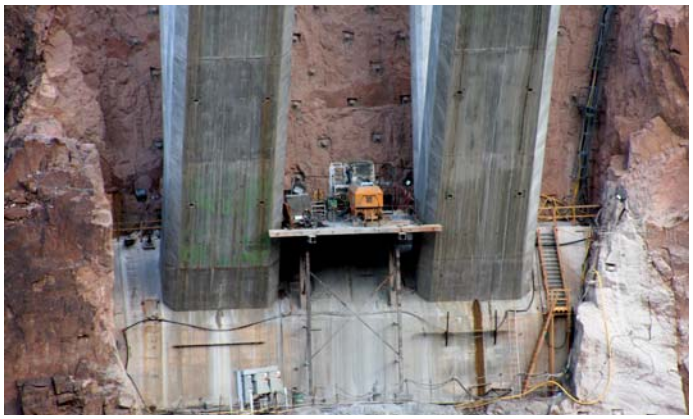
The placing booms helped reach the exact point of concrete placement for each segment of the twin arches.

Putzmeister helped the general contractor determine how and where to mount the placing booms and position the trailer pumps.

The pumps outputs ranged around 16 cubic yards per hour (12m^3/hr) due to the site's extraordinary environment conditions. As done before, most concrete was placed at night to avoid the intense heat and avoid traffic congestion.

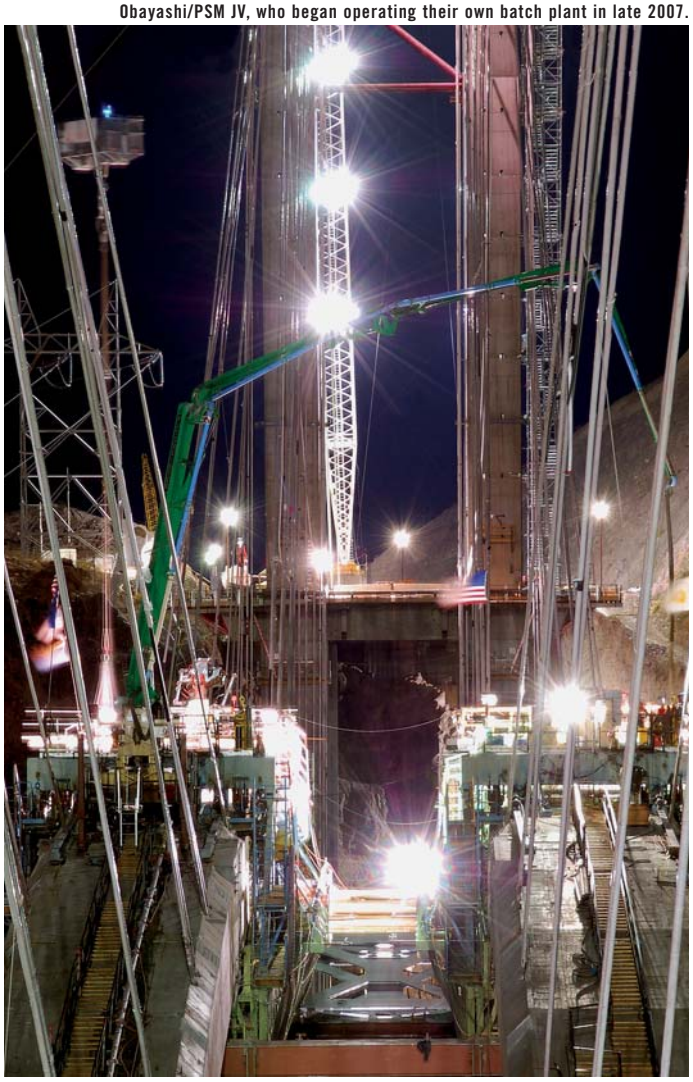
Pollnow adds, "The Putzmeister pumps really provided that extra muscle we needed to push the concrete up and out to its final destination; and in fact, both trailer pumps have the capability to pump concrete up to 800 feet (244m) high.

"Also, the capabilities of the placing booms helped immensely to reach the exact point of concrete placement for each segment of the twin arches. Again, because of the unconventional setup, we really needed dependable booms, and they did not disappoint."



The BSA 2107 HP-E and BSA 2109 H-E trailer pumps pumped the concrete supplied by Obayashi/PSM JV, who began operating their own batch plant in late 2007.

MX 32/36Z and MX 36/38Z placing booms work 900 feet (274m) above water for placing concrete on site.



Putzmeister offered a complete systems approach in helping Obayashi/PSM JV develop a strategic plan for concrete placement on such an unusual endeavor.

EQUIPMENT

52Z-Meter semi-trailer-mounted concrete boom pump | BSA 14000 trailer-mounted concrete pump

A 52Z-Meter boom pump was flown above the Colorado River using a cableway system developed for the project.

The bridge deck spans nearly 2,000 feet (610m), connecting the Arizona and Nevada Approaches over the Black Canyon near Hoover Dam.

FLYING HIGH

THE COLORADO RIVER BRIDGE

SIGHTSEEING VISITORS AT THE HOOVER DAM WITNESSED AN UNUSUAL SIGHT IN APRIL 2010 WHEN A PUTZMEISTER 52Z-METER SEMI-TRAILER-MOUNTED CONCRETE BOOM PUMP WAS FLOWN ABOVE THE COLORADO RIVER DURING THE FINAL STAGES OF THE HISTORICAL COLORADO RIVER BRIDGE PROJECT.

The boom pump, owned by Quinn, was carefully placed atop the partially constructed Colorado River Bridge using a cableway system developed specifically for the bridge project. The boom pump was used to place concrete on the bridge deck spanning nearly 2,000 feet (610m) and connecting the Arizona and Nevada Approaches over the Black Canyon.

Each phase of construction presented unique challenges – with the final stage proving no different.

By April 2010, most of the bridge was finished: the precast foundation columns had been set, the concrete twin arches were joined together, the steel girders were erected and the outer bridge deck and barriers were already cast. It was time to start work on the 11 separate deck pours; each pour would be 84 feet (26m) wide and approximately 120 feet (36m) long. It would be no easy task, but the Putzmeister equipment was up for the challenge.

Complete Systems Approach

Since early 2005, the general contractor had utilized Putzmeister's complete systems approach for assistance in the selection and positioning of equipment. For the next feat, they would again rely on the manufacturer's expertise.

Alan Woods, Putzmeister field service technician says, "The general contractor worked diligently with us and the pumping contractor to determine the exact calculations, balances, picking points and appropriate counterweights to ensure that everything went off smoothly and safely."

Because of the large area each deck pour covered, which had to be poured symmetrically on both sides, the decision was made to use Quinn's 52Z-Meter semi-trailer-mounted concrete boom pump.

1.5 HOOVER DAM BYPASS

A HISTORICAL CONSTRUCTION FEAT

EQUIPMENT

52Z-Meter semi-trailer-mounted concrete boom pump | BSA 14000 trailer-mounted concrete pump

To save on flyweight and reduce the 52Z-Meter's footprint, the boom pump was detached from the tractor.

With the 52Z-Meter's impressive 170-foot (52m) vertical and 158-foot (48m) horizontal reach, handling the 120-foot (37m) deck pours would be no problem. Instead the challenges lay elsewhere: flying the boom pump up to the deck, pumping in tight quarters, balancing deck pours on the bridge, and pumping concrete to the 52Z.

Transporting the boom pump up to the deck was handled with precision via the cableway system that had been used successfully throughout the project to deliver materials and equipment. However, before the boom pump could be flown to the deck, the crew had to address space requirements on the bridge.

Putzmeister took a highly innovative approach to solving this issue. To save on flyweight and reduce the unit's footprint, the boom pump was detached from the tractor. The boom pump's versatile semi-trailer design, with a separate diesel engine, allowed it to be easily detached, flown to the bridge deck, and then attached to a specially-designed concrete counterweight that simulated the weight of the tractor and took up less space.

"The 52Z was basically being used like a placing boom," says Woods.

Because the arch of the bridge had to be loaded symmetrically, the boom pump and counterweight were set up in the middle of the bridge. Then, to ensure everything stayed balanced, one deck section was poured on one side of the boom pump, and another deck section was poured on the other side of the boom pump. The boom was then lifted and turned to continue the pour in this manner, going back and forth during the entire deck pour.

For the deck pours, a harsh 4,500-psi mix with fibers in it was used to help control cracking on the deck. Because this was such a tough dry mix, using the right trailer pump was crucial.

The boom pump trailer was attached to a concrete counterweight that simulated the weight of the tractor and took up less space.

Night pours were common to avoid pumping in the heat and traffic congestion.

EQUIPMENT

52Z-Meter semi-trailer-mounted concrete boom pump | BSA 14000 trailer-mounted concrete pump

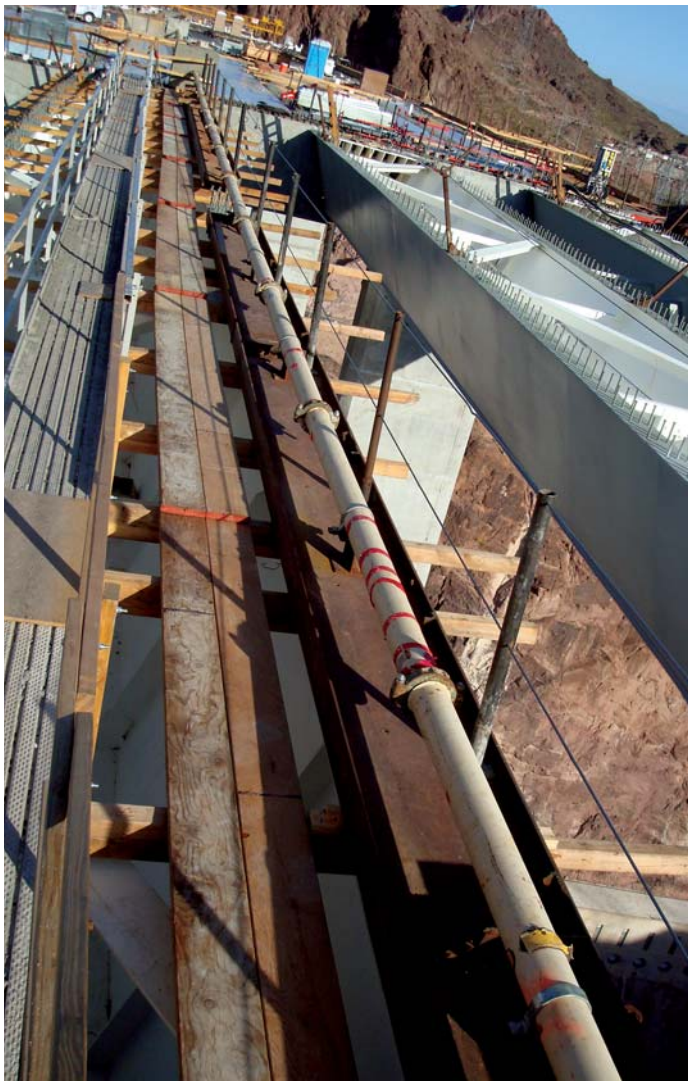
Another challenge was how far up the concrete would need to be pumped. The crew decided to use Quinn's BSA 14000 to pump up through 700 feet (213m) of pipeline. With the highest pressures and outputs available, the high-performance trailer pump easily maintained a continuous flow of the harsh mix and facilitated the long-distance concrete pumping.

"First, we pumped up the pipeline and into the hopper of the Putzmeister 52Z-Meter, which then pumped the rest of the way," explains Pollnow. "The trailer pump really provided the power we needed to push the concrete up and out to its final destination. It averaged 70 cubic yards per hour (54m^3/hr) and at one point reached 100 cubic yards per hour (76m^3/hr). The trailer pump provided a smooth, controllable output of concrete because of its free flow hydraulic technology.

"Throughout the highly technical job, the crew never encountered even one minor problem with the high pressure trailer pumps or separate placing booms; and beyond the equipment's reliable performance, kudos went to Quinn also. "Quinn was on site early on in the project placing concrete in difficult situations," notes St. John. "They are a great team to work with, very dependable."

A Job Well Done

Successful completion of the Hoover Dam Bypass project, a truly impressive feat of engineering, highlighted the expertise of personnel to design an unusual yet efficient concrete placing plan; as well as the equipment's versatility and reliability to accomplish numerous concrete placement tasks never attempted before. A celebration and dedication ceremony applauded the project's success, and traffic began using the bypass on October 19, 2010.



The BSA 14000 pumped concrete up 700 feet (213m) of pipeline into the hopper of the 52Z-Meter, which pumped the rest of the way.

With the 52Z-Meter's impressive 170-foot (52m) vertical and 158-foot (48m) horizontal reach, handling the 120-foot (37m) deck pours was no problem.

1.5 HOOVER DAM BYPASS

A HISTORICAL CONSTRUCTION FEAT

The project site, with its challenging terrain, is shown prior to its six-phase construction, totalling $240 million.

The completion of the Hoover Dam Bypass project successfully alleviates traffic congestion on U.S. 93.

Specs

Owner/Developer

Federal Highway Administration – Washington, D.C.; Arizona Department of Transportation – Phoenix, Arizona; Nevada Department of Transportation – Carson City, Nevada; U.S. Bureau of Reclamation; National Park Service; Western Area Power Administration – Lakewood, Colorado

Design Team

T.Y. Lin International – San Francisco, California; HDR Engineering – Las Vegas, Nevada with corporate headquarters in Omaha, Nebraska; Sverdrup Civil, Inc.

Colorado River Bridge – General Contractor, Concrete Pump Supplier, Ready Mix Supplier

Obayashi/ PSM JV, a joint venture of Obayashi Corporation and PSM Construction USA, Inc. – Boulder City, Nevada

Arizona Approach – General Contractor

Joint venture of R.E. Monks Construction and Vastco Inc. – Fountain Hills, Arizona

Ready Mix Suppliers until 2007

Casino Ready Mix, Inc. – Las Vegas, Nevada; and Silver State Materials (now a part of the CalPortland Company) – Las Vegas, Nevada

Concrete Pumping Sub-Contractor

Quinn Concrete Pumping, Inc. – Las Vegas, Nevada

Putzmeister Equipment

- Truck-mounted concrete boom pumps from 32 to 58 meters
- 52Z-Meter semi-trailer-mounted boom pump
- MX 32/36Z and MX 36/38Z placing booms
- BSA 2107 HP-E trailer-mounted pump
- BSA 2109 H-E trailer-mounted pump
- BSA 14000 trailer-mounted pump

Photos #1, 2, 3, 7, 10, 26 and 27 are courtesy of the Federal Highway Administration, Central Federal Lands Highway Division (FHWA/CFLHD)

1.6 PANAMA CANAL

PROJECT OF THE CENTURY

PUTZMEISTER AMERICA, INC. AND ITS SPECIAL APPLICATIONS BUSINESS (SAB) GROUP ARE PROVIDING THEIR COMPLETE GLOBAL SYSTEMS APPROACH, INCLUDING THEIR PUMPING AND MATERIAL PLACING EQUIPMENT, TO THE HISTORIC PANAMA CANAL THIRD SET OF LOCKS PROJECT (THIRD SET OF LOCKS). THE THIRD SET OF LOCKS WILL CREATE A NEW THIRD LANE OF TRAFFIC ALONG THE CANAL, DOUBLING ITS CAPACITY AND ALLOWING MORE TRAFFIC AND LONGER, WIDER SHIPS TO PASS THROUGH.

EQUIPMENT FOR THE PROJECT INCLUDES TWELVE TELEBELT® TB 130'S, ONE TELEBELT TB 200, THREE 58-METER BOOM PUMPS, ONE 52-METER BOOM PUMP, AND FOUR THOM-KATT® TK 40 TRAILER PUMPS.

Equipment from Putzmeister has been on site at the Panama Canal since August 2010. In addition to the six Telebelts® that have been working at Third Set of Locks since the beginning of the project, in fall 2012 Putzmeister sent one of its newest, large-scale Telebelts to the site. The Telebelt TB 200 offers a multitude of advantages that make it a better conveying system for high volume projects than what is currently available in the market. It offers an increased working range and superior jobsite maneuverability, with a 200-foot (61m) horizontal reach with its four-section boom arm.

Putzmeister has also sent six additional Telebelt TB 130s, which is the model that is currently being used at Third Set of Locks. In addition, four Thom-Katt® TK 40s, three 58-Meter and one 52-Meter Truck-Mounted Concrete Boom Pumps will be on the project.

The combination of the new group of equipment will be used to place the 1,400-foot (427m) long by 108-foot (55m) wide by 60-foot (18m) deep floor and walls of the canal, as well as in the construction of on-site batch plants and living quarters for construction workers.

"We're working closely with the Panama Canal Authority and the Third Set of Locks team to meet its date for completion on Aug. 15, 2014, which is 100 years to the day the initial locks on the Canal were opened," says Dave Adams, Putzmeister America's President and CEO. "Our equipment currently on site is performing impeccably and we're happy to be sending additional machines to continue work on the project."

1.6 PANAMA CANAL

PROJECT OF THE CENTURY

The Canal's History

It was first determined in the 1930s that the most effective and efficient way to increase the Canal's capacity was to construct a third set of locks with larger dimensions than those of the locks built in 1914. The United States initiated the construction of the Third Set of Locks in 1939 to allow the transit of commercial and war ships that exceeded the size of the existing locks. The expansion was halted in 1942 because of the outbreak of World War II.

Interest picked back up again and studies in recent years by the Panama Canal Authority (ACP), the owner/developer of the project, pointed to the same solution as was deemed in the 1930s, that a larger, third set of locks would be the most suitable, profitable and environmentally responsible way to increase Canal capacity and allow the Panamanian maritime route to continue to grow.

Why The Third Set of Locks Are Needed

There are four objectives the ACP has put forth for this project, and they include, making long-term growing and sustainable contributions to the Panamanian society through the payments the Canal makes to the National Treasury; maintaining the Canal's competitiveness as well as the value of the Panama maritime route to the national economy; increasing the Canal's capacity in order to capture the growing demand with the appropriate level of service for each market segment; and increasing the Canal's productivity, safety and efficiency.

Project Scope

- Construction of two 1,400-foot (427m) long by 180-foot (55m) wide by 60-foot (18m) deep lock facilities. One will be in the Atlantic side and one will be in the Pacific side of the Canal. Each of the locks will have three chambers, and each chamber will have three water reutilization basins. The basins will allow the third set of locks to reutilize 60 percent of water in each transit and use seven percent less water per transit than each of the existing lock lanes.
- Construction of access channels for the new locks and widening existing channels.
- Deepening of existing navigation channels and the elevation of Gatun Lake's maximum operating level.

Project Management

The design-build contract for the project was awarded to Consortium Grupo Unidos por el Canal, which is made up of four companies: Sacyr Vallehermoso S.A., Impregilo S.p.A., Jan De Nul n.v. and Constructora Urbana, S.A.

Putzmeister Global Resources' Involvement

Bob Weiglein, Telebelt division manager for Putzmeister America, traveled to Milano, Italy, where he was introduced to the chief commercial officer (CCO) of Impregilo S.p.A. (Impregilo) by the president of Putzmeister Italy to discuss what material placing solutions Putzmeister's SAB unit could offer for The Third Set of Locks.

"SAB is a partnership between Putzmeister Shotcrete Technology, Putzmeister Pipe Technology and Maxon Industries, Incorporated," says Weiglein. "This partnership offers a complete systems approach that offers all products to all projects around the world to customers in the tunnel and mining, dams and power generation, transportation, and marine and offshore industries."

1.6 PANAMA CANAL

PROJECT OF THE CENTURY

In the meeting it was expressed that flexible, maneuverable and mobile material placing systems were key because of the job site's unstable terrain.

"The water table is very low on the Atlantic side of the Canal," explains Weiglein. "There is a lot of water and there have been land slides. The Pacific side is all rock."

After the meeting in Italy, SAB and Agreconsa, Putzmeister's local dealer for 24/7 parts, service and support in Panama, worked together to determine what system solutions would be ideal for various components of the project.

"Agreconsa is a well respected distributor who has been in Panama for seven years and takes great pride in the sale and service of Putzmeister equipment," says Weiglein. "They are committed to Panama and it's economy, and work together with us to provide exactly what customers need."

There first was a need to place concrete and gravel for the project's batching and crushing plant's foundation.

SAB and Agreconsa proposed using six Telebelt TB 130 telescopic belt conveyors for that portion of the project. Impregilo accepted the proposal.

"The reason the Telebelts were the ideal equipment choice for this portion of the job was because they do not need to be permanently mounted to the ground or a super-structure," Weiglein comments. "In the event the equipment had to move due to changing terrain conditions the TB 130's quick setup and tear down provides that flexibility and mobility that Impregilo expressed was a necessity on the job site."

"Another benefit of the Telebelt is that multiple types of material can be placed with one piece of equipment, and in the same day," explains Peter Mamopulakos. "Since both concrete and gravel are being placed on the site this feature is an invaluable asset. The Telebelts are true multi-taskers."

Don Matthews, Putzmeister's field service technician for Telebelts, went out for the first two weeks the Telebelts were on site to help start up the equipment, and ensure the customer had everything they needed.

"We always send one of our field service technicians out on new start ups for customers to ensure there is nothing in question for the customer and they feel comfortable operating their new piece of equipment," says Weiglein. "For this project, Don is on site once every quarter to check in with the customer."

Telebelts and Thom-Katts

After the initial use of the TB 130's in the rough conditions of the Panama Canal job site, six more Telebelt TB 130's were ordered for the Third Set of Locks. The additional Telebelts have helped the team stay on track with an aggressive pour schedule.

"The Telebelts are true multi-taskers and have been crucial in laying the foundation for this project," says Lucio Donadi, service manager for Agreconsa. "With their help, we are quickly finishing the bottom portion of the new locks."

Putzmeister's first TB 200 to come off the manufacturing line has been working on the "Gate Lock Head and Lock Wall Structure" on the Pacific side of the project. With a reach of 200 feet (61m), belt width of 24 inches (610mm), and high capacity output of up to 5 yd^3/min (4m^3/min), it is being used to reach the tallest portion of the 60-foot (18m) deep lock facilities.

The TB 200's four-section boom retracts to 74-feet, nine-inches (22.80m), providing an expansive working range. Its movement is smooth and controlled, due to its precision boom slewing control with positive stopping power. The advanced boom design with modern lattice structure made of extruded steel tubes is extremely strong, yet lightweight.

1.6 PANAMA CANAL

PROJECT OF THE CENTURY

Four Putzmeister boom pumps were brought in to help build the walls of the new locks, which will reach a height of 60 feet (18m).

Working in conjunction with the Telebelts, six Putzmeister Jumbo Troughs are also at Third Set of Locks serving as surge hoppers for consistent concrete placement. Four Thom-Katt TK 40 shotcrete machines are also on site, being used to stabilize excavation work on both the Atlantic and Pacific sides of the project.

“While excavating the job site, it is essential to stabilize the soil walls to ensure safety moving forward,” explains Donadi. “The efficiency and ease of use of the TK 40s have been highly beneficial in this process.”

Maneuvering Challenging Terrain

While Telebelts have been used for the bottom of the locks, three Putzmeister 58-Meter and one 52-Meter Truck-Mounted Concrete Boom Pumps were brought in to help build the walls. Two boom pumps are working on each side of the project. The terrain at the Third Set of Locks has been one of the most difficult aspects of the project.

Overall, the construction team has been pleased with how the equipment has managed to maneuver the rugged terrain. “All of the Putzmeister equipment has been performing to our expectations under the difficult conditions,” says Donadi.

“However, when we have encountered any challenges, the service and support from Putzmeister has been excellent.”

Bearing a Difficult Load

In addition to the land conditions, the concrete mix used at Third Set of Locks also has proved tough to work with. One of the main mixes used to create the foundation for the locks is a Mass Aggregate, with an aggregate size from 1.5-3 inches (38-76mm), which is an extremely hard-wearing concrete and can be rough on equipment.

“Telebelts have proven to be the ideal equipment for this job, as they can place multiple types of material,” explains Donadi.

Another type of concrete, called Marine, is a pumpable mix that is being used with the boom pumps. The Marine concrete is a special mix used for any part of the locks that comes into contact with water. In addition to compressive strength and contraction, the concrete had to be formulated to guarantee at least a 100-year life span with low permeability. This is to ensure the imbedded rebar is not reached by water, which would cause it to corrode.

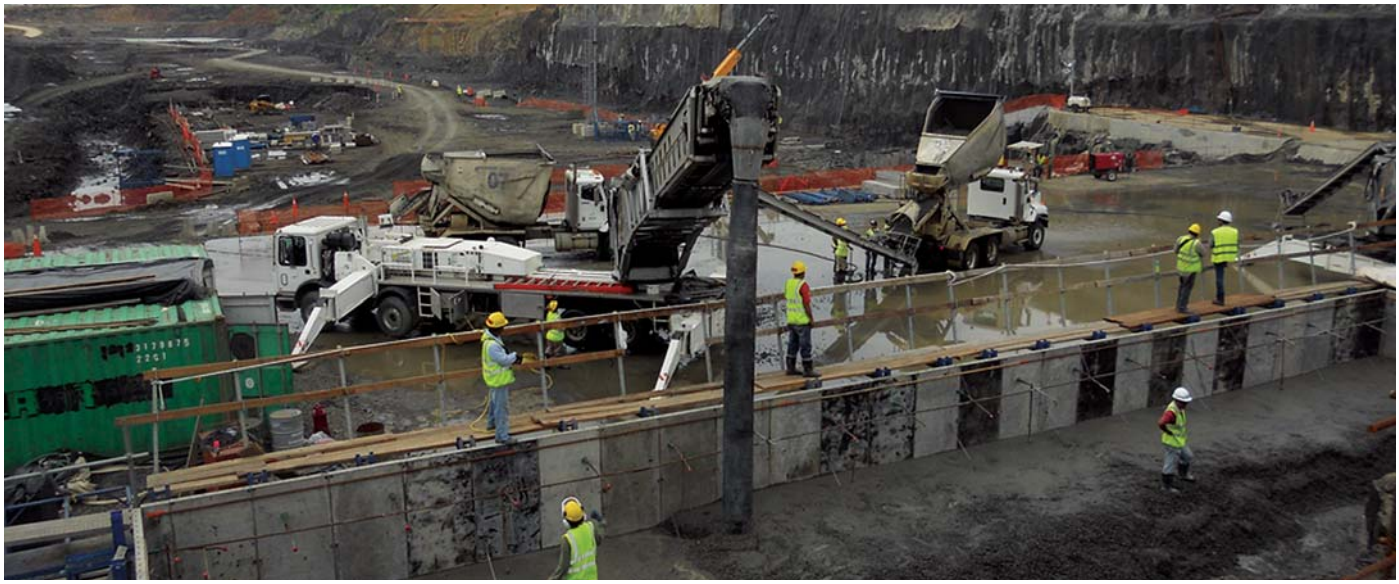
“The boom pumps have worked great for placing the marine concrete” says Donadi. “The Ergonic® Boom Control has been especially helpful because it allows us to set parameters that control the movement boom.”

“Putzmeister’s standard hard-chromed material cylinders, as well as exclusive multi-piston cup design, ensure a longer life of the components, less downtime and lower parts cost,” adds Weiglein. “This results in reliable pumping of hard-wearing concrete in tough conditions like we’ve seen here at the Canal.”

1.6 PANAMA CANAL

PROJECT OF THE CENTURY

Twelve Telebelt 130's are building the bottom portion of the locks using massive aggregate and gravel.



Demanding Pour Schedule

The sheer size of the Third Set of Locks project has added unique difficulty to the placement of the massive amount of concrete. A large number of pieces of equipment and workers are being used to place the concrete, creating a fairly congested job site.

"The target monthly average of concrete to be pumped is approximately 110,000 cubic yards (100,000 m^3) at each side of the project, says Donadi. "We are placing concrete somewhere on site 24-hours-a-day. We're pleased that the Putzmeister equipment has stood up to the challenging schedule."

Due to the demanding pour schedule, equipment needs to be moved often. "The ease of set up of the boom pumps has been beneficial, as well," Donadi adds. "With so many moving parts on site, having equipment that is easy to maneuver is a huge time-saver."

"On one of the toughest projects ever attempted, machines working under difficult conditions, day and night, bearing a hard-wearing concrete mix require the highest quality engineering and reliability to move the project forward. With innovative technology, 24-hour local support, spare parts on site, and service technicians in the field, Putzmeister has brought incredible value to our team."

Construction at Third Set of Locks started in late 2007 and the target date for completion is August 2014—100 years after the initial locks on the Canal were opened.

The boom pumps are being used to place a special marine mix.

Four Thom-Katt® TK 40 shotcrete machines are at Third Set of Locks, being used to stabilize excavation work on both the Atlantic and Pacific sides of the project.

2
BOOM PUMP

1.800.890.0269 | PUTZMEISTERAMERICA.COM | PartsOrders@putzam.com

2.1 WEAR PARTS BY KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Version Standard — Hard Faced	**905 Kit**	**A050021K**	
Spectacle Wear Plate	DURO22	229488005	$734.86
Wear Ring	DURO22	251031006	$163.60
Thrust Ring	Ø 200 NBR	252898002	$56.96
Version Carbide	**905 Kit**	**A050022K**	
Spectacle Wear Plate	ND200/260 Hard Metal	485385	$1,294.15
Wear Ring		531240	$1,163.74
Thrust Ring	Ø 200 NBR	252898002	$56.96
Clamping Plate		275608004	$630.78
Version Standard	**907 Kit**	**A050023K**	
Spectacle Wear Plate	DURO22	261122002	$689.40
Wear Ring	Big Mouth Cutting Ring, DURO22	261123001	$229.39
Thrust Ring	Ø 230	458878	$54.24
Version Carbide	**907 Kit**	**A050024K**	
Spectacle Wear Plate		531499	$3,473.30
Wear Ring	Big Mouth Cutting Ring, Ø 230	494520	$1,204.19
Thrust Ring		458878	$54.24
Wear Insert for Ring		271070005	$1,322.40
905 Carbide w/ 2318 Version		**A050025K**	
Wear Ring	Big Mouth Cutting Ring, Ø 230	494520	$1,204.19
Thrust Ring	Big Mouth Thrust Ring, Ø 230	458878	$54.24
Wear Insert for Ring		271070005	$1,322.40
Fixing Plate		263728006	$436.37

2.2 WEAR PARTS BY HOPPER TYPE

ITEM	DESCRIPTION	PART NUMBER	PRICE
Hopper RS 600			
Thrust Ring	NBR, mounted without Spacer Disc	249304004	$99.14
Wear Ring	Duro 11 and Duro 22	251231000	$198.53
Wear Ring	Hard Metal	509425	$1,074.11
Spectacle Wear Plate	Duro 11, 180mm x 260mm	087722000	$685.65
Spectacle Wear Plate	Duro 11, 200mm x 260mm	229488005	$734.86
Spectacle Wear Plate	Duro 22	234559000	$1,149.79
Hopper RS 905 — Small Mouth			
Thrust Ring	NBR, mounted without Spacer Disc	252898002	$56.96
Wear Ring	Duro 11 and Duro 22	251031006	$163.60
Alternative: Wear Ring		A536577	$61.43
Wear Ring	Hard Metal	531240	$1,163.74
Spectacle Wear Plate	Duro 11, 180mm x 260mm	087722000	$685.65
Spectacle Wear Plate	Duro 11, 200mm x 260mm	229488005	$734.86
Spectacle Wear Plate	Duro 22	229488005	$734.86
Alternative: Spectacle Wear Plate	Duro 22	A536576	$216.85
Hopper RS 907 — Large Mouth			
Thrust Ring	NBR, mounted without Spacer Disc	458878	$54.24
Wear Ring	Duro 11 and Duro 22	261123001	$229.39
Alternative: Wear Ring		A536579	$93.47
Wear Ring	Hard Metal	494520	$1,204.19
Spectacle Wear Plate	Duro 22, Hole pattern 540, Gray	261122002	$689.40
Alternative: Spectacle Wear Plate	Duro 22, Hole pattern 540	A536578	$312.00
Spectacle Wear Plate	Duro 22, Hole pattern 570, White	406927	$2,237.70
Hopper RS 909			
Thrust Ring	NBR, mounted without Spacer Disc	458878	$54.24
Wear Ring	Duro 11 and Duro 22	261123001	$229.39
Alternative: Wear Ring		A536579	$93.47
Wear Ring	Hard Metal	494520	$1,204.19
Spectacle Wear Plate	Duro 22, Hole pattern 540, Gray	519314	$964.65

2.3 S-VALVE BEARING SEAL KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
S-Valve Bearing Seal Kit		**A240390004SK**	
Wiper Ring	220mm x 240mm x 8mm	437267	$35.84
O-Ring	220mm x 10mm NBR70	043520000	$7.42
Guide Band	220mm x 225mm x 24.5mm	295355007	$29.29
Lip Seal Ring	220mm x 240mm x 15mm	247565007	$47.38
Seal Ring/Cast Elbow	232mm x 185mm x 20mm	240421009	$14.06

2.4 SHIFT CYLINDER SEAL KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Shift Cylinder Seal Kit		**A262840008SK**	
Guide Ring	60mm x 65mm x 9.5mm	261706004	$118.58
Wiper Ring	60mm x 68mm x 7mm P38	065344002	$2.10
Lip Seal Ring	60mm x 70mm x 12mm	065345001	$7.52
Support Ring SRI	60mm x 5.1mm x 1.5mm	065346000	$3.42
Turcon-Glyd-Ring	60mm x 75.1mm x 6.3mm	238863006	$95.46
Guide Ring	60mm x 65mm x 8.5mm	238859007	$55.58
O-Ring	64mm x 7mm NBR70	238865004	$19.30
Guide Ring	60mm x 65mm x 25mm	261707003	$79.78

2.5 SEAL KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Seal Kit	Boom MBC-Valve, Viton	471710	$46.85
Seal Kit	Boom MBC-Valve, Input Module	471709	$45.73
Seal Kit	Mounted KIT, Gearbox G64	454165	$491.58
Seal Kit	Boom HP-Filter Housing	458105	$21.44
Seal Kit	Hydraulic Accumulator Hydac 311945	A025009	$75.20
Seal Kit	Hydraulic Accumulator 4.0 L	AT311838	$302.88
Seal Kit	Drive Cylinder 80mm x 100mm x 40mm	024160007	$55.65
Seal Kit	Drive Cylinder 140mm x 160mm x 40mm	233277008	$548.96
Seal Kit	Hydraulic Pump A10V25/28 (used on 067370003)	050391002	$56.80
Seal Kit	Hydraulic Cylinder E160mm/60mm	084239004	$41.41
Seal Kit	Hydraulic Cylinder 140mm/120mm, 900mm/120mm, 800mm/120mm	086877008	$285.59
Seal Kit	Hyraulice Cylinder D125mm/80mm	235526003	$301.41
Seal Kit	Hydraulic Cylinder D165mm/90mm	269807002	$411.28
Seal Kit	Hydraulic Cylinder D225mm/125mm	230245004	$572.17
Seal Kit	Hydraulic Cylinder D180mm/105mm	289450002	$461.89
Seal Kit	Hydraulic Cylinder D180mm/125mm	257889003	$540.98
Seal Kit	Hydraulic Cylinder D150mm/105mm	261568006	$503.30
Seal Kit	Hydraulic Cylinder D200mm/125mm	276997002	$633.41
Seal Kit	Cylinder A,Z 1043	089079007	$178.53
Seal Kit	Hydraulic Cylinder D180mm/125mm	277411008	$510.14
Seal Kit	Hydraulic Motor 530 A58 27	502156	$145.95
Seal Kit	Hydraulic Motor B159, 60MR	067480003	$68.16
Seal Kit	Hydraulic Agitator Motor OMH400/ OMH500	239696007	$18.37
Seal Kit	Hydraulic Agitator Motor BRH B470	A585985	$30.34

2.6 BEARING FLANGE ASSEMBLY KIT 60MM

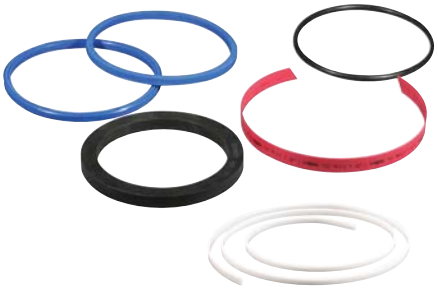
ITEM	DESCRIPTION	PART NUMBER	PRICE
Bearing Assembly Kit 60mm		**242572008**	
Flange Bearing Hub	D60 with Groove	242573007	$102.43
Alternative: Flange Bearing Hub	D60 with Groove	A538519	$30.61
Rubber Disc	140mm x 56mm x 8mm	242574006	$3.32
Bushing	60mm x 65mm x 40mm DU-B	222484006	$8.99
O-Ring	60mm x 4mm DIN3771	043909003	$1.44
Fitting		A312549	$1.92

2.7 BEARING FLANGE ASSEMBLY KIT 50MM

ITEM	DESCRIPTION	PART NUMBER	PRICE
Bearing Assembly Kit 50mm		**221547009**	**$137.98**
O-Ring	50mm x 5mm	043503001	$1.44
Rubber Disc	50mm	084013000	$3.80
Bushing	50mm, Plastic	235087005	$12.77
Flange Bearing	D50 with Groove	202357001	$94.42
Screw Plug	M10 x 1	042093004	$2.14
Seal Ring	10.70mm x 16mm x 1.5mm	041361009	$2.14

2.8 OUTLET BEARING HOUSING ASSEMBLY

ITEM	DESCRIPTION	PART NUMBER	PRICE
Bearing Assembly		**AT248433002K**	
S-Valve Bearing Housing	D220/270 for S2018	240620004	$821.86
Wiper Ring	220mm x 240mm x 8mm	437267	$35.84
O-Ring	220mm x 10mm NBR70	043520000	$7.42
O-Ring	210mm x 8mm DIN3771 NBR70	041466001	$3.80
Guide Band	220mm x 225mm x 24.5mm	295355007	$29.29
Lip Seal Ring	220mm x 240mm x 15mm	247565007	$47.38
Lip Seal Ring	70mm x 95mm x 18.7mm	015223005	$17.67



2.9 HOPPER PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
RS 905, RS 905A, RS 907A and RS 907 Hopper			
Hopper Lid Aluminum		292489002	$641.41
Bottom Part, Hopper Cover		412052	$141.19
Rubber Collar	RS 905 H=145 L=2670	412050	$84.58
Hopper Grate	60mm lightweight	419553	$1,023.58
Hopper Wedge Repair Slug		A092052	$70.40
Mixing Paddle	LH with hardface	406795	$398.02
Mixing Paddle	RH with hardface	406796	$398.02
Bearing Assembly Mixer Shaft		221547009	$137.98
Rubber Buffer	25mm x 17mm	066961002	$2.14
Torque Support		258034006	$28.10
Splash Guard Rubber		245991000	$204.48
Hopper Door		242334000	$625.73
RS 905, RS 905A, RS 907A, RS 907 and RS 909 Hopper			
Hopper Lid Plastic	Lid only	443920	$442.59
Rubber Buffer for Hopper Grate		432235	$21.93
Mixer Shaft End		275587002	$224.63
Alternative: Mixer Shaft End		A538520	$73.21
Mixing Paddle	LH, Standard	441540	$129.73
Mixing Paddle	RH, Standard	441541	$129.73
RS 909 Hopper			
Hopper Lid with Bearing complete		520156	$1,277.65
Holder for Hopper Lid		518885	$442.53
Hopper Grate Welded		A596974	$774.42
Holder for Lid Splash Guard		518882	$40.64
Hopper Door		501457	$627.78
For all Hopper Models			
Horn for Hopper Alarm		A052338	$54.34
Hopper Light	2-Wire, 12V, 35W	A052940	$99.78

2.10 MIXER SHAFT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Mixer Shaft Center	Shaft Size 60mm, Used on RS 905, RS 905A and RS 907 Hopper	243189005	$231.55
Mixer Shaft	Center Part, Shaft Size 60mm, Used on RS 905, RS 905A, RS 907, RS 907A and RS 909 Hopper	264020004	$161.06
Mixer Shaft End	Shaft Size 50mm, Used on 904/905 Hopper or older Units	238340008	$323.46
Mixer Shaft End	Motor Side, Exterior Part, Shaft Size 60mm, Used on RS 905, RS 905A, RS 907, RS 907A and RS 909 Hopper	275587002	$224.63
Alternative: Mixer Shaft End	Motor Side, Exterior Part, Shaft Size 60mm, Used on RS905, RS905A, RS907, RS907A and RS909 Hopper	A538520	$73.21
Mixer Shaft End	Non-Motor Side, Only necessary on one end, Shaft Size 60mm, used on RS 909 Hopper	539806	$181.63

2.11 AGITATOR PADDLE

ITEM	DESCRIPTION	PART NUMBER	PRICE
Left Hand Side	Hard-faced. Used on all Hopper Models	406795	$398.02
Right Hand Side	Hard-faced. Used on all Hopper Models	406796	$398.02
Left Hand Side	Used on all Hopper Models	441540	$129.73
Right Hand Side	Used on all Hopper Models	441541	$129.73

2.12 DIRECTIONAL CONTROL VALVES

ITEM	DESCRIPTION	PART NUMBER	PRICE
4/3-Way Valve NG6	Used on FFH-Control , FFH-Drive Cylinders, Agitator Control, 350 bar, 24V	557262	$210.98
4/3-Way Valve NG6	Used on FFH-Control, 350 bar, 12V	557263	$167.40
4/2-Way Valve NG6	Used on FFH-Control, 24V	067344000	$216.49
4/2-Way Valve NG6	Used on FFH-Control, 12V	067345009	$235.67
4/2-Way Valve NG6	Used on Hydraulic Control and Agitator Control, 350 bar, 24V	063101001	$498.94
4/2-Way Valve NG10	Used on FFH-Control, 12V	A605866	$257.28
4/2-Way Valve NG10	Usen on FFH-Control, 320 bar, 24V	580765	$308.74
2/2-Way Valve	Used on Rear Outriggers, 320 bar	230875005	$362.08
3/2-Way Valve Pneumatic	Used on Pneumatic Elements with 12V	063636000	$108.93
3/2-Way Valve Pneumatic	Used on Pneumatic Elements with 24V	063635001	$142.91

2.13 S-VALVE ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER	PRICE
S-Valve S2015 Standard	8" - 6"	251018003	$3,726.72
S-Valve S2015DN Heavy Duty	8" - 6"	251341000	$4,563.55
S-Valve S2018N	8" - 7"	406926	$4,029.18
Alternative: S-Valve S2018N	8" - 7"	A536572	$1,300.00
S-Valve S2318	9" - 7"	434023	$4,088.44
Alternative: S-Valve S2318	9" - 7"	A536574	$1,352.94
S-Valve S1512	6" - 5"	430336	$4,245.79
S-Valve S2015DP	8" - 6"	513375	$4,034.79
S-Valve S2018P9	8" - 7"	464544	$6,222.78
S-Valve S2018VN	8" - 7"	252401004	$4,355.02
S-Valve S2018VPN	8" - 7"	252406009	$6,662.02
S-Valve S2318VP	9" - 7"	404625	$4,778.01
S-Valve Bearing	D220mm/270mm	576811	$843.30
S-Valve Bearing for S2018	D220mm/270mm	240620004	$821.86
S-Valve Shaft Bearing	For Shaft D90mm	464950	$718.08
S-Valve Shaft Bearing	D90mm Conical	519127	$1,331.30
S-Valve Shaft Bearing with Wear Sleeve	D90mm	274893001	$544.83
Alternative: S-Valve Shaft Bearing with Wear Sleeve	D90mm	A538513	$225.38
S-Valve Shaft Bearing	D80mm, G3	401783	$615.68
Alternative: S-Valve Shaft Bearing	D80mm, G3	A538512	$201.47
S-Valve Outlet Bearing	D165mm/210mm	410504	$618.29
Switch Lever Shaft	D80mm	458733	$597.41
Alternative: Switch Lever Shaft	D80mm	A538515	$204.06
Switch Lever Shaft	D90mm	458703	$614.40
Alternative: Switch Lever Shaft	D90mm	A538514	$216.96
Ball Socket	D60mm/70mm x 38mm, Red	275694005	$104.60
Rod Seals Set	D100mm, used for S-Valve Shaft Bearing D90mm	465473	$25.83

D = Thick walled **P = Fully hard-faced internally** **N = S-Valve without nose** **V = Square shaft**

2.14 DELIVERY/MATERIAL CYLINDER

ITEM	DESCRIPTION	PART NUMBER	PRICE
230mm x 1400mm	For Enterprise Series Boom Pumps	261520002	$3,294.05
230mm x 2100mm	28-, 32-, 36-, 42-, 47-, 56-, and 58-Meter Boom Pumps	239867001	$3,029.97
Alternative: 230mm x 2100mm	28-, 32-, 36-, 42-, 47-, 56-, and 58-Meter Boom Pumps	A535395	$2,071.43
280mm x 2100mm	For Every Boom Pump with .20H	231149002	$5,612.24
Alternative: 280mm x 2100mm	For Every Boom Pump with .20H	A535396	$3,428.57

2.15 PLUNGER CYLINDER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Plunger Cylinder	160 x 60mm, Generation 8, used on Thom-Katts and Boom Pumps with RS 905 and RS 905A Hopper	262840008	$806.03
Alternative: Plunger Cylinder	160 x 60mm, Generation 8, used on Thom-Katts and Boom Pumps with RS 905 and RS 905A Hopper	A538508	$312.00
Plunger Cylinder	160 x 60mm, Generation 12, used on Boom Pumps with RS 909 Hopper	541668	$921.06
Hydraulic Hose for Plunger Cylinder	4SP DN12 15L x 650	267187009	$37.57
Hydraulic Hose for Plunger Cylinder	4SP DN12 15L x 600	016533008	$36.35

2.16 DRIVE CYLINDER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Drive Cylinder 2100-130/80mm G25/ FFH-Block	For every .12L and .14H Boom Pump	479580	$7,501.38
Drive Cylinder 2100-140/80mm Heavy G25/FFH-Block	For every .12H and .16H Boom Pump	510773	$5,392.54
Proximity Switch	M12 X 1 10-32 VDC	270321001	$357.77

2.17 HYDRAULIC PUMPS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Pump Cell .12L			
Main Pump	Hydraulic Pump R A4VG125HD W/SAE-B	266680002	$9,343.58
Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370003	$1,403.07
Alternative: Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370004	$850.00
Agitator Pump	Hydraulic Pump R 14.0 HY/ZFS 11/14	235383000	$220.22
Pump Cell .16L			
Main Pump	Front, Hydraulic Pump R A4VG125HD W/SAE-D	273904001	$8,498.34
Main Pump	Rear, Hydraulic Pump R A4VG125HD W/SAE-B	266680002	$9,343.58
Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370003	$1,403.07
Alternative: Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370004	$850.00
Agitator Pump	Hydraulic Pump R 14.0 HY/ZFS 11/14	235383000	$220.22
Pump Cell .20H			
Main Pump	Front, Hydraulic Pump R A4VG180HD W/ SAE-E	266376002	$14,498.66
Main Pump	Rear, Hydraulic Pump R A4VG180HD W/ SAE-B	264530002	$14,183.05
Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370003	$1,403.07
Alternative: Accumulator Pump	Hydraulic Pump R 13.0 A10V28(13)DR	067370004	$850.00
Agitator Pump	Hydraulic Pump R 14.0 HY/ZFS 11/14	235383000	$220.22
Pump Cell .12H EPS			
Main Pump	Hydraulic Pump R A4VG145 BR40 SAE-A	561254	$8,353.42
Accumulator Pump	Hydraulic Pump R 18 A10VO18(13)DR BR53	527945	$1,579.17
Agitator Pump	Hydraulic Pump R 11.0 SNP2/ 11D SC 06 REP G	290243004	$415.00
Pump Cell .16H EPS			
Main Pump	Front, Hydraulic Pump R A4VG145 BR40 W/ SAE-D	536355	$9,404.94
Main Pump	Rear, Hydraulic Pump R A4VG110 BR40 SAE-A	536356	$5,368.10
Accumulator Pump	Hydraulic Pump R 18 A10VO18(13)DR BR53	527945	$1,579.17
Agitator Pump	Hydraulic Pump R 11.0 SNP2/ 11D SC 06 REP G	290243004	$415.00
Boom Pumps			
A2F16	Hydraulic Pump L 16,0 A2F16/6.1/A6	067925005	$1,533.60
A2F23	Hydraulic Pump L 23,0 A2FO23/61L-PZB06	495750	$2,494.05
A4F28	Hydraulic Pump L 28.0 A4FO28/32L-NSC12N00	531191	$2,128.72
A7V24	Hydraulic Pump L 24 A7V28 DR	276120002	$4,340.78
A7V28	Hydraulic Pump L 28.0 A7V28 DR	259028008	$4,179.79
A7V55	Hydraulic Pump L 55,0 A7VO55(42) Br.6,3 DRS	421375	$6,374.76

2.18 HYDRAULIC MOTORS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Slewing Gear Reducer	Hydraulic Motor B 16,0 A2F16W6, 1B3	222864008	$1,819.95
Water Pump	Grundfos, Hydraulic Motor B 5,5 M2FS 250 BAR	229178001	$473.72
Outrigger Telescope	Hydraulic Motor R 160,0 140 (175) BAR	434196	$542.48
Agitator Motor	Hopper RS 909, Hydraulic Motor B 748 A58 103 BAR	541970	$850.43
Agitator Motor	Hopper RS 905/RS 907, Hydraulic Motor B 465 BRH B 470 A58 27 000	484279	$592.79
Water Pump	HYPRO, Hydraulic Motor 14.4CC SAE-A KEY AZMF-12	A036007	$430.43

2.19 HYDRAULIC ACCUMULATOR

ITEM	DESCRIPTION	PART NUMBER	PRICE
Hydraulic Accumulator	4.0L	066600004	$937.54
Bladder Kit	4.0L	A025004K	$574.88
Accumulator Bladder	4.0L	AT319910	$272.00
Hydraulic Accumulator	6.0L	A025007	$933.76
Bladder Kit	6.0L	A029080	$351.42

2.20 PISTON

ITEM	DESCRIPTION	PART NUMBER	PRICE
Piston Complete	For Gear Box G64C, D40mm	479527	$57.10
Piston Complete	For Gear Box G64 and G61	222259008	$43.44
Delivery Piston	D150mm - multi	222141006	$682.86
Delivery Piston	D180mm - single	019033000	$310.56
Delivery Piston	D180mm - multi	234735002	$728.11
Delivery Piston	D200mm - multi	086236005	$526.91
Delivery Piston	D200mm - single	019004000	$211.96
Delivery Piston	D230mm - with Flange	262893000	$181.97
Delivery Piston	D230mm - multi	085813005	$605.27
Delivery Piston	D250mm - multi NBR aluminum	433029	$695.96
Delivery Piston	D280mm - multi with aluminum frame	292356009	$1,299.05
Delivery Piston Seal	D120mm	082308005	$103.46
Delivery Piston Seal	D200mm	080372004	$152.42
Delivery Piston Seal	D230mm	080373003	$143.30
Delivery Piston Seal	D280mm	086632007	$296.62
Guide Ring	200mm x 180mm x 40mm	080794006	$46.34
Guide Ring	230mm x 40mm - wide	080672005	$64.58
Guide Ring	260mm x 280mm x 50mm	087540004	$91.26
Guide Ring	80mm x 12mm	235424008	$5.38
Guide Ring	80mm x 7.5mm	235425007	$4.64
Guide Ring	80mm x 85mm	063667008	$10.29
Guide Ring	83mm x 9.5mm x 2.48mm	066839008	$13.88
Piston Cup	6"	000062014	$207.14
Piston Cup	7"	000062015	$264.29
Rubber Piston Cup Ring	D90mm x 63mm x 14mm	013288000	$21.49
Delivery Piston Seal	D100mm	089051009	$98.98
Delivery Piston Seal	D180mm	056720004	$146.60
Delivery Piston Seal	D150mm	056839005	$213.29
Piston Guide Band	D140mm x 2.5mm x 15mm	066453002	$17.95
Single Piston Frame	D230	084289009	$269.38
Piston Ring	D110mm x 100.8mm x 3mm	042160005	$32.36
Piston Ring	D120mm x 110mm x 3mm	042162003	$47.94
Piston Ring	D130mm x 121mm x 6.34mm	259760007	$43.90
Piston Ring	D140mm x 130.6mm x 6.34mm	237350002	$36.89
Piston Rod	D63mm x 1179mm	028232009	$700.22
Piston Rod	D60mm	082671004	$349.57
Piston Rod	D80mm x 2385mm	087968000	$1,484.43
Piston Rod	D45mm x 1178mm	088165006	$383.93
Piston Rod	D60mm x 245.5mm	554324	$458.30
Piston Rod Flange	ND40 2xM12 2xD13	056346006	$60.29
Piston Rod Flange	ND80 2xM16 2xD18	263558001	$84.89
Piston Rod Flange	LP63	087539002	$85.15

2.21 FILTER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Filter Element for Suction Filter 10µ Nominal	Used for Suction Filter 2 x 1" - 2 x 1.5" on BSF Units	222895006	$75.52
Filter Element 60µ	Used for Suction Filter 2 x 1" - 2 x 1.5" on BSF Units	225519004	$208.56
Filter Element 25µ Absolute	Used for Suction Filter 2 x 1" - 2 x 1.5" on BSF Units	228943004	$144.00
Suction Filter Element	10µ	416341	$207.44
High Pressure Filter	10µ Absolut 40m Class	425836	$238.60
Air Filter 10µ	Used on all BSF Units	272317000	$152.90
Filter Element 10µ	Used on TTS and TVS Units	061127003	$49.89
High Pressure Filter Element 10µ	80 L/Min DP=20 bar	223192009	$68.57
High Pressure Filter Element 10µ Absolute	110 L/Min DP>=50 bar	273827007	$99.31
High Pressure Filter	110 L/Min 400 bar without Insert	400833	$478.34
Filter Element 175µ	Used for BSA and TVS Units	062277004	$174.08
Filter Element 10µ		248911003	$225.13
Filter Element 10µ Paper	Used for Air Filter	272318009	$109.70
Suction Filter Element 10µ Nominal		294073005	$92.70
Filter Element for Boom Filters	10µ Nominal	448258	$140.37
Filter Element for Return Suction Filter	10µ	534896	$317.15
Filter Element for Suction Filter 10µ	110 l/min, x=322.5 mm	551476	$92.90
Filter Element for Suction Filter	170 l/min, x=500.5 mm	558153	$96.96

2.22 DIGITAL PIPE WALL-THICKNESS MEASURING DEVICE

ITEM	DESCRIPTION	PART NUMBER	PRICE
Electronic Thickness Gauge	Wall thickness measuring device with integrated calibrator disc for zero-adjustment, testhead with 120 cm long connection cable, 1 battery, ultrasonic quid, plastic case	277434001	$850.00
Manual Thickness Gauge	Ideal for two-layer pipes	454460	$669.59
Ultrasound Conductive Paste	Used with 277434001	254025006	$45.09

2.23 GAUGE AND HOSE KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Pressure Gauge	0-6 bar	002244000	$11.52
Pressure Gauge	0-25 bar	001247008	$52.81
Pressure Gauge	0-60 bar	016372007	$29.40
Pressure Gauge	0-250 bar	016373006	$39.30
Pressure Gauge	0-400 bar - Rear Connection	017250005	$26.53
Pressure Gauge	0-400 bar - Bottom Connection	016375004	$73.06
Pressure Gauge	0-600 bar	527005	$30.56
Hydraulic Hose	NW 2x5000mm	063356005	$35.28
Adapter	R 1/4" Minimess	063358003	$10.38

2 BOOM PUMP

2.24 EQV END HOSE SHUTOFF VALVE

ITEM	DESCRIPTION	PART NUMBER	PRICE
EQV End Hose Shutoff Valve	Pneum. Squeeze Valve EQV DN100, OD125mm/ID180mm.	542004	$1,757.00

2.25 OUTRIGGER PADS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Outrigger Pads	Nylon 605mm x 605mm x 50mm for 42-Meter Boom Pump and larger	453593	$403.55
Outrigger Pads	Wood 600mm x 600mm x 50mm for 40-Meter Boom Pump and smaller	A126017	$115.74
Outrigger Pads	Plastic 600mm x 600mm x 50mm with Bore, PE500	570943	$246.46
Case	For Outrigger Pad 7"	A920284	$540.22
Lock	For Outrigger Pad Case 7"	A920287	$67.90
Spring	For Outrigger Pad Case 5" and 7"	A920270	$4.13
Screw	For Outrigger Pad Lock 5" and 7"	A920282	$3.89

2.26 REPLACEMENT PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Outrigger Tube Long 54 3/8"	Outrigger Vertical Tube	A250012	$527.04
Hopper Slug	RS 905, RS 907	A092052	$70.40
Retrofit Kit Water Tank 700L	Plastic	A519481	$2,855.09

2.27 HOSE ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER	PRICE
Hose Skid	Makes lay down jobs simplistic, used for 4" to 5" hose	482464	$210.78
Tie Down Straps	2500mm x 20mm	482402	$15.44

2.28 CATCH BASKET

ITEM	DESCRIPTION	PART NUMBER	PRICE
Catch Basket*	Used for Cleanout Operations on SK 125mm 5-1/2" Complete	276593008	$367.57
Catch Basket*	Used for Cleanout Operations on SK 100mm 4-1/2" Complete	276715006	$425.83

* Also available with HD4" and HD5" connections.

2.29 BOOM STRAPS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Tiedown Strap with Ratchet	For 31Z.16H, All 32Z, 36Z.16H, 38Z.16H, 40Z.16H, All 43, All 52Z, All 58, EX 22x-100 Boom Pumps, 2" x 15.5'	A260001	$33.60
Tiedown Strap with Ratchet	For 24Z, All 28, All 32Z, 36X-180, All 36, All 38, All 42X, All 42, All 58, All 63 Boom Pumps, 2" x 13'	A260006	$37.71
Tiedown Strap with Ratchet	For 24Z with new Pedestal Style, All 28Z, All 31, All 32Z, All 38Z, All 40Z, All 43Z, All 46, All 47, All 58 Boom Pumps, 2" x 52"	A260007	$32.80
Shackle with Hitch Pin (requires two)	Used on BSF 63-Meter, 2" x 13'	A382089	$28.00

2.30 END HOSE SAFETY STRAPS

ITEM	DESCRIPTION	PART NUMBER	PRICE
End Hose Safety Strap	Safety Strap Sling, D12 x 1000mm, Nylon	066321008	$19.01
End Hose Safety Clamp	Used for Hose Clamps D51-160 to tie the end hose to the last Boom Arm	501113	$49.22
End Hose Safety Strap	Snap Spring 350 kg, Zinc-plated	280644008	$10.72

2.31 TOOLBOX

ITEM	DESCRIPTION	PART NUMBER	PRICE
Toolbox	**Complete with tools listed below, Color: Blue**	**024449003**	**$245.70**
Toolbox	3 Sections	018440005	$48.75
Wrench	Single open-ended 46mm	016904006	$37.02
Wrench	Double open-ended 41/46mm	018426003	$34.46
Wrench	Double open-ended 36/41mm	018427002	$40.61
Wrench	Double open-ended 30/32mm	018428001	$14.21
Wrench	Double open-ended 27/30mm	018429000	$25.09
Wrench	Double open-ended 22/24mm	016901009	$12.09
Wrench	Double open-ended 19/24mm	018430002	$7.75
Wrench	Double open-ended 17/19mm	000116004	$14.22
Wrench	Double open-ended 14/17mm	018431001	$3.69
Wrench	Double-ended Ring 19/24mm	018433009	$11.75
Wrench	Double Box 30/36mm	018434008	$33.50
Screwdriver	No. 7	018435007	$4.35
Screwdriver	Insulated 100mm x 3.5mm	043187003	$41.60
Allen Wrench	SW4	041371002	$0.90
Allen Wrench	SW5	041372001	$0.83
Allen Wrench	SW6	000121002	$0.90
Allen Wrench	SW8	000122001	$5.17
Allen Wrench	SW10	000123000	$7.46
Allen Wrench	SW14	041373000	$2.05
Allen Wrench	SW19	041288001	$22.17
Pliers	Universal ca.150 lg, long	016907003	$35.15
Pliers	Water Pump, 240 lg, long	224584001	$40.50
Hammer		018425004	$41.15
Padlock	Includes keys	000111009	$13.25
Chisel	Flat, 200mm	018439003	$15.65
Trowel		018437005	$11.60
Fitting Grease	BM10x1	016110007	$1.44

2.32 RUBBER BUFFER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Rubber Buffer	A 25 x 20 NBR 45 Shore, Control Box 12V	002299000	$1.89
Rubber Buffer	A 30 x 30 NBR 60 Shore, Converter Box	002256001	$4.29
Rubber Buffer	A 40 x 30 NBR 60 Shore, Telebelt Control Box	002252005	$3.07
Rubber Buffer	A 75 x 40 NBR 60 Shore, Water Tank	016387005	$11.63
Rubber Buffer	C 40 x 30 NBR 55 Shore, MM Mixer	002255002	$11.58
Rubber Buffer	D 25 x 17 NBR 75 Shore, Control Box 24V	066961002	$2.14
Rubber Buffer	D 25 x 8 NBR 55 Shore, Toolbox	241770005	$2.14
Rubber Buffer	D 40 x 10 VUL. 80 Shore, Side Deck	003339008	$4.58
Rubber Buffer	D 40 x 30 NBR 75 Shore, TK Hopper Grate	002257000	$2.40
Rubber Buffer	D 50 x 60 M8 x 26, Waterbox Drain Plug	019011006	$8.16
Rubber Buffer	D 75 x 30 NBR 60 Shore, Outrigger Lock	004186001	$14.81
Rubber Buffer	E 50 x 30 NBR 40 Shore	468132	$21.82
Rubber Buffer	G 40 x 30 NBR 55 Shore, Control Box EPS	066396004	$4.29
Rubber Buffer	G 50 x 30 NBR 60 Shore, Control Box BSA 14000HP	066264000	$21.44

2.33 CLEANING MATERIAL

ITEM	DESCRIPTION	PART NUMBER	PRICE
Sponge Ball	D65 Soft	AST23734	$9.79
Sponge Ball	D80 Soft	422531	$5.47
Sponge Ball	D100 Soft	AST23310	$20.49
Sponge Ball	D120 Soft	230227006	$7.22
Sponge Ball	D150 Soft	230229004	$15.85
Sponge Ball	D45 Medium	065044001	$4.54
Sponge Ball	D60 Medium	000212005	$3.98
Sponge Ball	D100 Medium	295904005	$6.65
Sponge Ball	D120 Medium	016091003	$8.30
Sponge Ball	D150 Medium	018841002	$11.53
Sponge Ball	D175 Medium	026650007	$16.24
Sponge Ball	D220 Medium	065348008	$105.11
Sponge Ball	D30 Hard	000239004	$2.43
Sponge Ball	D50 Hard	AST23363	$8.66
Sponge Ball	D60 Hard	233494001	$3.61
Sponge Ball	D80 Hard	000246000	$5.90
Sponge Ball	D120 Hard	234053001	$9.85
Sponge Ball	D150 Hard	223673007	$15.10
Sponge Ball	D175 Hard	406379	$28.11
Sponge Octagon	D175 Medium	A555371	$31.42
Sponge Octagon	D125 Medium	A533527	$23.24
Sponge Cylinder	D140 x150 Flat	504034	$17.30
Sponge Cylinder	D120 x 150 Dome	256126000	$18.03
Cleanout Pig AKA GO-DEVIL	D125 blue	265417001	$174.83
Cleanout Pig AKA GO-DEVIL	D125 black	253953001	$152.57
Cleanout Pig AKA GO-DEVIL	D100 black	253952002	$113.09
Sponge Pig	150 x 180 Dome	253086004	$21.15
Cleanout Lid	D235	295052009	$45.12

2.34 GREASE FITTING

ITEM	DESCRIPTION	PART NUMBER	PRICE
Grease Fitting	BM10x1, 45°	016110007	$1.44
Grease Fitting	AM8x1, straight	017005001	$1.44
Grease Fitting	BM8x1, 45°	017006000	$1.44
Grease Fitting	CM8x1, 90°	017007009	$1.44
Grease Fitting	AM6, straight	042669001	$1.44

2.35 WATER BOXES

ITEM	DESCRIPTION	PART NUMBER	PRICE
Cover Plate	Used for most common Putzmeister Water Boxes	245194001	$83.12
Water Drain	Used for most common Putzmeister Water Boxes	245210008	$142.91
Water Box Ring	246mm x 210mm x 8mm	251232009	$128.38
Lid for Water Box	For Flatpacks with a RS 905 and RS 907 Hopper	255123004	$113.79
Foldable Cover	Used for most common Putzmeister Water Boxes	258380006	$238.69
Lever for Waterbox Drain	Used for most common Putzmeister Water Boxes	538388	$52.06
Rubber Buffer	D50x60 M8x26	019011006	$8.16

2.36 WATER TANK

ITEM	DESCRIPTION	PART NUMBER	PRICE
Water Tank	Plastic, 700L Molded	A123087	$1,409.92
Water Tank	Steel, 700L	A123046	$4,390.40
Cap for Closing the Water Tank	Used on all kinds of Putzmeister Watertanks	295936002	$33.61
Cover for Water Tank	Used on Flushing Water Pumps CRK and CNP 4-160	A123027	$197.25
Support Kit for Water Tank	Plastic, 700L	A519343	$479.52

2.37 OIL COOLER ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER	PRICE
Oil Cooler 12VDC	Used on Large Line pre-Year 2003	A024056	$940.80
Replacement Fan for Hydraulic Oil Cooler 12V	Used on Large Line pre-Year 2003	444175	$317.11
Replacement Fan for Hydraulic Oil Cooler 24V	Used on every Large Line, Single Cooler	444176	$381.30
Fan for Oil Cooler 24V	Used on every Large Line, Double Cooler	573969	$313.89

2.38 THERMOMETER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Thermometer	12V, used for Control Box	016963005	$145.89
Thermometer	24V, used for Control Box	026033006	$84.93
Thermo-Probe 55°	M14 x 1.5mm, Used on the Radiator of all Boom Pumps	067860005	$64.37
Thermo-Probe 70°	M14 x 1.5mm, Used on the Radiator of all Boom Pumps	278493009	$109.12
Thermo-Probe 90°	M14 x 1.5mm, Used on the Radiator of all Boom Pumps	016964004	$51.36
Thermo-Probe -50°/+150°	M14 x 1.5mm, Used on the Radiator of all Boom Pumps	403405	$86.30

2.39 WORKING LIGHT

ITEM	DESCRIPTION	PART NUMBER	PRICE
Working Spotlight for Halogen Lamp	Used on a 12V and 24V Working Spotlight	065255007	$76.13
Working Spotlight	24V 70W H3	083691009	$189.82
Working Spotlight	Spotlight Inside Door, 12V and 24V, 55/70W	262244002	$103.41
Working Spotlight	Used on most common Boom Pump Units, 24V, 70W	286270007	$154.08
LED Work Light	40W	A602178	$109.76
Holder for Working Spotlight	Hot-dip Galvanized	242551003	$20.97

2.40 LIGHT BULBS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Light Bulb 24V	Rear Lights, 21W	041222009	$2.91
Light Bulb 24V	Rear Light, 10W	041265008	$1.01
Light Bulb 12V	Used on Control Boxes, 2W	041308004	$1.44
Light Bulb 24V	Used on Control Boxes and Rear Lights, 2W	042016007	$4.29
Light Bulb 12V	Used on a Working Spotlight, 50W	016759002	$7.65
Light Bulb 24V	Used on a Working Spotlight, 70W	021278002	$15.90
Light Bulb 24V	Used on Control Boxes and Rear Lights, 5W	021389001	$2.14
Marker Light	Amber, Outrigger 46-Meter and 52-Meter Boom Pumps	268810003	$14.27

2.41 SWING-OUT STEPS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Steps	Rear Left Hand Side, Steel	A410021	$1,161.60
Steps	Rear Right Hand Side, Steel	A410022	$1,161.60
Steps	Rear Left Hand Side, Aluminum	A410023	$1,607.04
Steps	Rear Right Hand Side, Aluminum	A410024	$1,607.04

2.42 SPLASH GUARD PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Splash Guard	Steel, Used for Boom Pumps with RS 905 and RS 907 Hopper	A400045	$360.11
Splash Guard	Rubber, Used for RS 905 Hopper	245991000	$204.48
Handle for Splash Guard	Aluminum, Used for Boom Pumps with RS 905, RS 905A and RS 907L Hopper	411687	$27.71
Rail for Splash Guard	690mm, Used for Boom Pumps with RS 905 and RS 907 Hopper	412152	$21.44

2.43 RELAYS FOR CONTROL BOX

ITEM	DESCRIPTION	PART NUMBER	PRICE
POH-/Control Module	10-32V, Green Plug Card	555644	$253.09
Relay Holder		064259004	$1.44
Set of Diodes	1300 V	244842008	$19.04
Time Lag Relay		257581000	$203.78
12V Relay Silver (K2)		061852006	$46.98
12V Relay Change-over, 20/30 A	Bosch, Black	065033009	$21.20
12V Relay Mini 111	Yellow, Plastic, 8 Pin 1/2" x 1"	066638005	$15.65
12V Relay 4 Change-over (K3)	Yellow, Plastic, 14 Pin 3/4" x 1"	226479004	$23.42
12V Relay (K238)	Black	247108008	$43.28
12V Relay 10,0A	2 Way	252760004	$18.82
12V Plug Socket for 2K238 Relay		247103003	$164.10
12V E-Stop Relay		570856	$970.14
12V Relay	70A	415538	$19.28
12V Relay Step	1 Changer	278494008	$93.73
24V Relay Step	1 Changer	278495007	$93.77
24V Relay Step	For Change-over, used for Units with Module Cards	244371003	$58.26
24V Relay Step	For Pump on and off	061853005	$76.70
12/24V Stepping Relay (K1)	For Boom Pumps before Year 2000. Replaces 063516007 and 063515008	543660	$406.59

2.44 DIODES FOR CONTROL BOX

ITEM	DESCRIPTION	PART NUMBER	PRICE
Diode	3A 1000V	065151004	$1.44
Diode	20MA 24V GN 8mm	244846004	$13.60
Diode	20M-ART 12V 8mm Red LED	246799007	$13.41
Diode	20MA 12V 8mm Green LED	247102004	$13.38

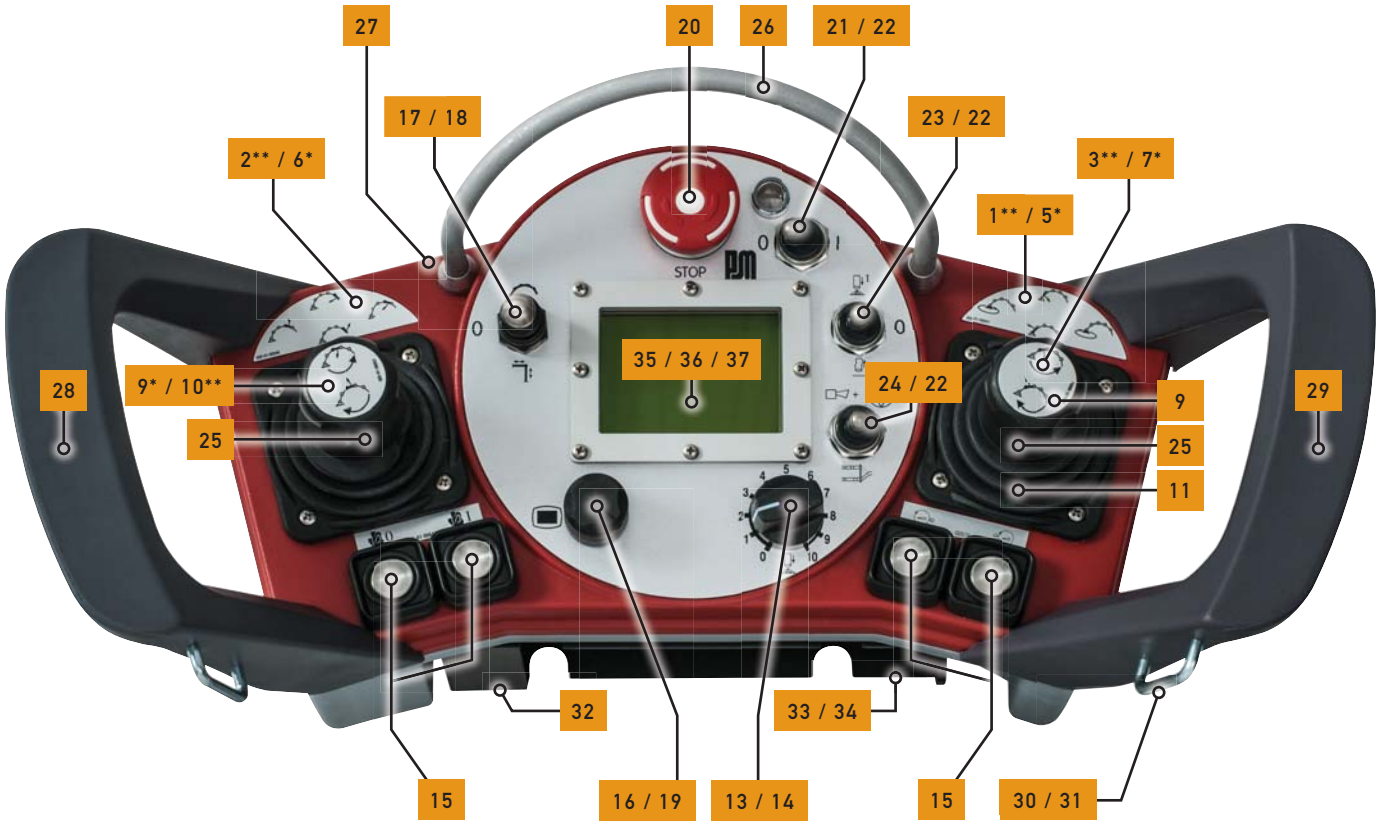
2.45 CONTROL LAMPS FOR CONTROL BOX

ITEM	DESCRIPTION	PART NUMBER	PRICE
250V, 2W	Red	067146004	$14.14
250V, 2W	Green	067148002	$16.54

2.46 FUEL CAPS

ITEM	DESCRIPTION	PART NUMBER	PRICE
4" Diameter vented without Lock	Durable aluminum casting for every Boom Pump Model	A017044	$86.60
4" Diameter vented with Lock	Durable aluminum casting for every Boom Pump Model	A017048	$182.43

2.47 RADIO REMOTE TRANSMITTER FOR RADIO SYSTEM TYPES 727-735 AFM — 590940

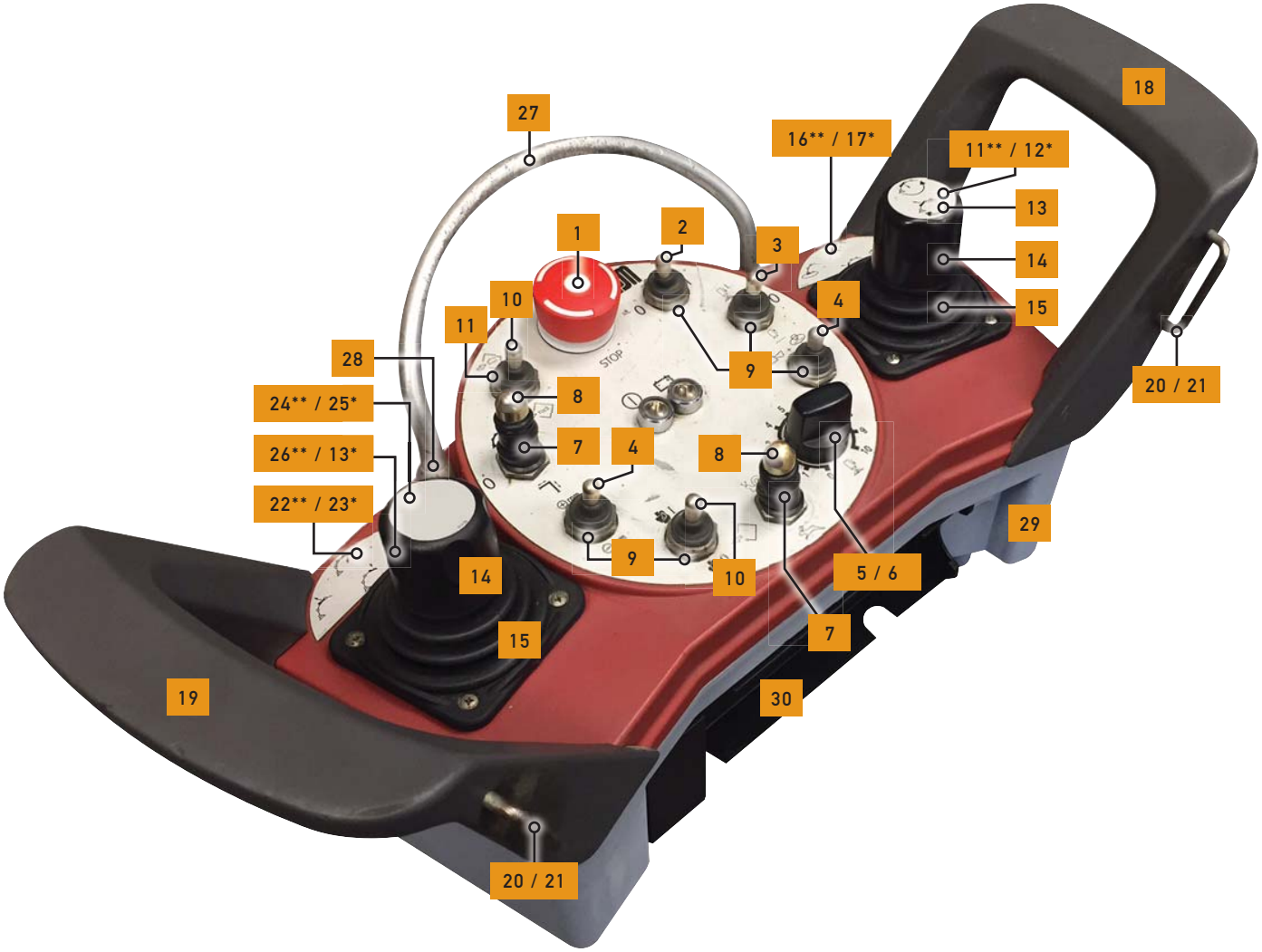


2.47 RADIO REMOTE TRANSMITTER FOR RADIO SYSTEM TYPES 727-735 AFM — 590940

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Decal for A-Slew Section for 4 Arm Boom		292011001**	$12.51
2	Decal for C-D Section for 4 Arm Boom		292010002**	$1.73
3	Decal for B-Section Round Sign for 4 Arm Boom		401799**	$46.27
4	Blank Round Joystick Plate for 4 Arm Boom		401808**	$34.44
5	Decal for A-Slew Section for 5 Arm Boom		292014008*	$21.31
6	Decal for D-E Section for 5 Arm Boom		292013009*	$21.31
7	Decal for B-Section Round Sign for 5 Arm Boom		401801*	$41.02
8	Decal for C-Section Round Sign for 5 Arm Boom		401807*	$44.67
9	3-Axis Joystick		487160	$1,781.57
10	2-Axis Joystick		487161**	$1,529.28
11	Joystick Bellows		292129003	$44.01
12	Joystick Knob		466329	$23.78
13	Volume Knob		255255008	$15.17
14	Volume Control Potentiometer		249791002	$69.97
15	Push Buttons	RPM and Motor Stop, Soldered in Part	294941001	$52.80
16	Icon Knob Switch Assembly	Kit. Comes with Knob, Switch and O-Rings, Soldered in Part	510650	$331.96
17	Boom/Outrigger Switch	Soldered in Part, Alternative: Toggle Switch 15A, 28V (251663005)	418164	$166.76
18	LG Switch Protection Cap	Alternative: Rubber Cap with Seal (501987)	249520008	$33.98
19	Icon Switch Knob		449140	$196.03
20	E-Stop Push Button	Soldered in Part	241401002	$132.48
21	TX Power Switch	Soldered in Part	241415001	$84.10
22	Small Switch Protection Cap		241416000	$15.14
23	Pump on Switch	Soldered in Part	067033007	$22.98
24	Horn/Changeover Switch	Soldered in Part	241412004	$70.70
25	Joystick Knob		466329	$23.78
26	Aluminum Roll Bar on Transmitter		292584004	$61.06
27	Tapered Aluminum Roll Bar Washers		293803001	$4.29
28	Remote Handle	Left Side, Includes Belt Loop	400951	$91.85
29	Remote Handle	Right Side, Includes Belt Loop	400952	$91.85
30	Belt Loop		292461004	$3.33
31	Belt Loop Nut		043088005	$1.44
32	Battery Compartment		495536	$76.90
33	Model 735, Ergo Lower Housing	With Battery Compartment	495537	$419.87
34	Model 727, Ergo Lower Housing	With Battery Compartment, Part No. 495537 can be used as an alternative	A611340	$379.82
35	Screen Glass		512304	$30.34
36	Screen Silicone Gasket		512305	$36.10
37	Screen Protective Film Cling	Comes in five-pack	501845	$14.46

* Only in 5-Section Radio Application
** Only used in 4-Section Radio Application

2.48 24V NON-EGD RADIO REMOTE PARTS FOR RADIO SYSTEM TYPE 727 — A602302



2.48 24V NON-EGD RADIO REMOTE PARTS FOR RADIO SYSTEM TYPE 727 — A602302

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	E-Stop Button	Soldered in Part	241401002	$132.48
2	Transmitter Power Switch	Soldered in Part	241504006	$124.74
3	Pump on Switch	Soldered in Part, Requires 2x Capacitor Ceramic 1000PF 50V (A544520)	295755005	$141.23
4	RPM + /- and Horn/Changeover Switches	Soldered in part, requires 2x Capacitor Ceramic 1000PF 50V (A544520)	241412004	$70.70
5	Volume Control Potentiometer	Soldered in Part	249791002	$69.97
6	Volume Control Knob		255255008	$15.17
7	LG Switch Protection Cap	Rubber Cap with Seal (501987) is an Alternative Part	249520008	$33.98
8	Boom/Outrigger Switch - Snail/Rabbit Switch	Soldered in Part, Requires 2x Capacitor Ceramic 1000PF 50V (A544520), Toggle Switch 15A, 28V (Part No. 251663005) is an Alternative Part	418164	$166.76
9	Small Switch Protection Cap	Rubber cap for Toggle Switch (067037003) is an Alternative Part	241416000	$15.14
10	User Defined Set Switch - Motor Stop Switch	Soldered in Part, Requires 2 Capacitor Ceramic 1000PF 50V (A544520)	241502008	$134.69
11	Decal for B-Section Round Boom for 4 Arm Boom		401799**	$46.27
12	Decal for B-Section Round Boom for 5 Arm Boom		401801*	$41.02
13	3-Axis Joystick		487160	$1,781.57
14	Joystick Knob	*Snap ring at the base holds knob in place. ** 4 Arm C-D Joystick. The knob is glued in.	466329	$23.78
15	Joystick Bellow		292129003	$44.01
16	Decal for A-Slew Section for 4 Arm Boom		292011001**	$12.51
17	Decal for A-Slew Section for 5 Arm Boom		292014008*	$21.31
18	Remote Handle	Right Side, Includes Belt Loop	400952	$91.85
19	Remote Handle	Left Side, Includes Belt Loop	400951	$91.85
20	Belt Loop		292461004	$3.33
21	Belt Loop Nut		043088005	$1.44
22	Decal for C-D Section for 4 Arm Boom		292010002**	$1.73
23	Decal for D-E Section for 5 Arm Boom		292013009*	$21.31
24	Blank Round Joystick Plate for 4 Arm Boom		401808**	$34.44
25	Decal for C-Section Round Boom for 5 Arm Boom		401807*	$44.67
26	2-Axis Joystick		487161	$1,529.28
27	Aluminum Roll Bar on Transmitter		292584004	$61.06
28	Tapered Aluminum Roll Bar Washers		293803001	$4.29
29	Transmitter Lower Housing — Ergonic	Includes Battery Compartment (495536), Soldered in Part	A611340	$379.82
30	Battery Compartment	Part of Transmitter Lower Housing (A611340)	495536	$76.90

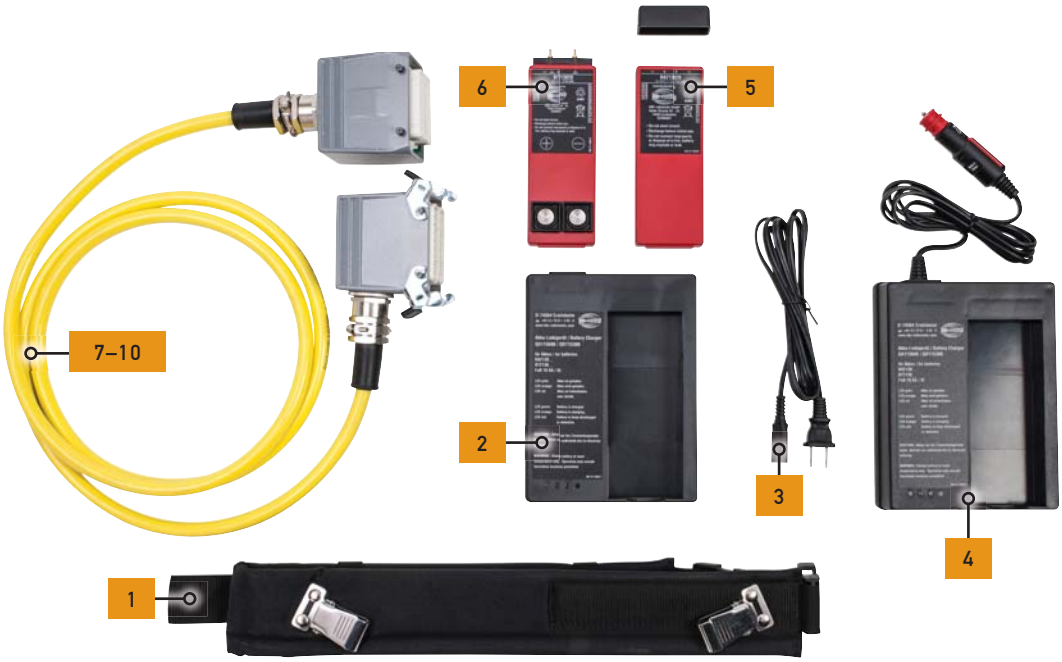
* Only in 5-Section Radio Application
** Only used in 4-Section Radio Application

2.49 HBC RADIO RECEIVER FOR RADIO SYSTEM TYPES 727-735

2.49 HBC RADIO RECEIVER FOR RADIO SYSTEM TYPES 727-735

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Receiver Cable Connection Housing	Includes 2 locking clamps (Part No. 479296) and gasket	243707005	$34.88
2	Locking Clamp		479296	$21.44
3	1-16 Receiver Cable Connector Insert		243704008	$14.85
4	17-32 Receiver Cable Connector Insert		243705007	$14.29
5	900 MHz FL30 Antenna		406519	$96.34
6	Receiver for Roof Mount Antenna 900 MHz		434444	$220.80
7	Cable	3 meter	434447	$54.72
8	TC 240 Stud Mounted 2.4 GHz Focus Antenna	Reference silver label on radio transmitter to see if TC240 is needed	A601590	$1,826.66
9	TC 241 Stud Mounted 2.4 GHz Focus Antenna	Reference silver label on radio transmitter to see if TC241 is needed	A617384	$895.41
10	Neoprene Receiver Gasket		294934005	$2.50/meter

2.50 RADIO REMOTE ACCESSORIES — APPLICABLE FOR ALL 727 AND 735 RADIO SYSTEM TYPES



ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Waist Belt for Radio Remote Control	Standard belt that comes in new kits	288778002	$115.33
2	120VAC Battery Charger	Must be sold with Battery Charger Cable 115V (Part No. A534578)	A534577	$594.05
3	120VAC Battery Charger Cord	Must be sold with Battery Charger 115V (Part No. A534577)	A534578	$32.29
4	10-30VDC Battery Charger with 12V Outlet Connector	Plugs into cigarette lighter	459061	$518.53
5	HBC 4.2mAh NiHM Battery Pack	Current on all new production	458017	$100.76
6	HBC 2.1mAh NiHM Teleteach Battery	Is required to adjust electronic controlled boom speeds on HBC Remotes	496070	$496.00
7	2.5 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used in different years depending on radio mounting locations	461552	$414.11
8	5 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used in different years depending on radio mounting locations	433760	$360.96
9	10 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used in different years depending on radio mounting locations	433765	$481.80
10	40 Meter Remote Cable with HAN 32 Pin Ends	Not suitable to use as a Radio Receiver Cable. Only use for a Cable Remote Application	433776	$854.62
–	Ergo Waist Belt Extender	Extends standard belt for larger waist sizes	A052497	$51.18
–	Neck Strap for Ergo Transmitter	Hangs around operator's neck	403322	$41.50
–	Shoulder Strap	Wraps below and around operator's shoulders for comfort	295773003	$102.78
–	Carrying Belt for HBC Spectrum	Color: Orange	227618000	$95.04

3

SHIP-AWAY KIT – LARGE LINE

3 SHIP-AWAY KIT
– LARGE LINE

3 SHIP-AWAY KIT – LARGE LINE

3.1 SHIP-AWAY KIT FOR CITY PUMPS (A512510)

DESCRIPTION	PART NUMBER	PRICE
SHCS M16 x 30mm	A971317	$4.49
Reducer Elbow SK150-5" HD	A104021	$999.26
Gasket Coupling SK150-6.0	002231000	$4.90
Coupling Clamp SK-H 150	544801	$105.63
Proximity Splitter 2-Way	A052565	$87.04
Hydraulic Hoses DN10 x 1750	223800003	$53.89
Warning Triangle	A126001	$26.05
Emergency Stroke Change Kit	AT134931	$268.00
Proximity Switch M12 x 1mm	270321001	$357.77
Filter Element 10µ Nominal	222895006	$75.52
QC Coupler Plug Air	A971333	$2.08
Working Spotlight 12V	083687000	$180.26
Safety Helmet with PM Logo, Yellow	064626006	$8.05
Sponge Cube D150	063567001	$5.26
Box Ship Away Kit	A322000	$85.39
Hydraulic Fitting Kit Emergency	A041192	$568.06
Coupling Clamp SK-H 125	417249	$54.67

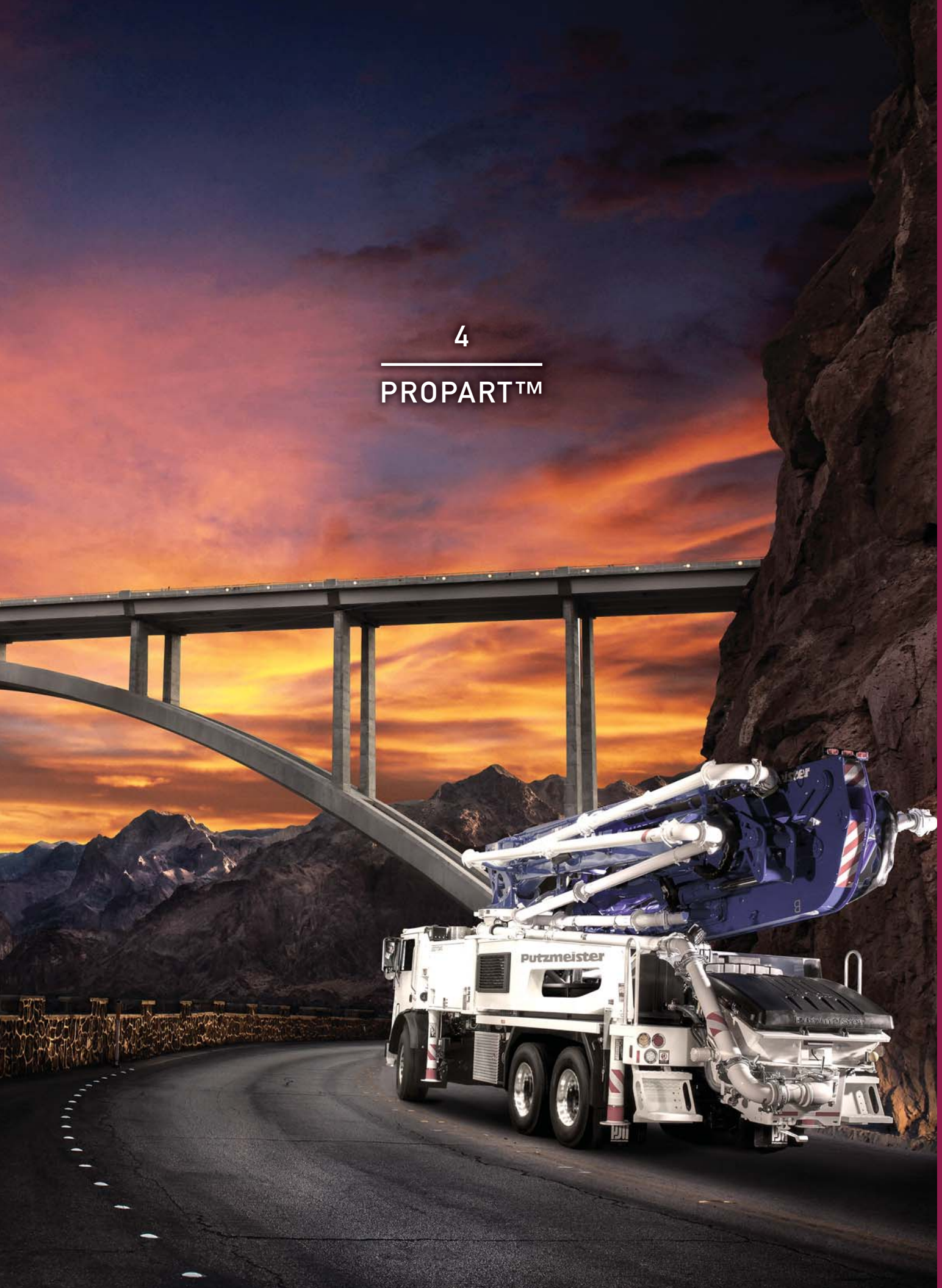
DESCRIPTION	PART NUMBER	PRICE
Hydraulic Hose DN 16 x 700mm	016543001	$41.09
Hydraulic Hose DN 10 x 1000mm	016527001	$37.89
Hydraulic Hose DN 6 x 1000mm	016517008	$29.57
Hydraulic Hose DN12 x 1000mm	016435009	$44.48
Lever Grease Gun with Hose	000211006	$18.29
Sponge Ball D150 Medium	018841002	$11.53
Gasket Cavity SK125-5.5mm	055559001	$1.49
Hydraulic Hose DN16 x 1000mm	042625003	$69.39
Single Spanner, 65mm	041289000	$59.21
Tool Box Complete	024449003	$245.70
Relay 4 Changer	226479004	$23.42
Relay 12VDC	247108008	$43.28
Electrical Spare Parts Kit	A052253	$141.09
Step Relay 12VDC	278494008	$93.73
Relay 12V DC	252760004	$18.82
Relay 12V (K27)	210857001	$17.84
Spray Nozzle without Coupling	412120	$68.77
Wash-out Hose Red 3/4"	A121045	$206.30

3 SHIP-AWAY KIT – LARGE LINE

3.2 SHIP-AWAY KIT FOR BOOM PUMP UNITS

DESCRIPTION	PART NUMBER	PRICE
Hydraulic Hose Kit	A041191	$350.49
Hydraulic Fitting Kit	A041192	$568.06
Pipe Bushing 3/4"-3/8"	A043027	$3.01
Proximity Splitter 2-Way	A052565	$87.04
Wash-out Gun Kit	A121000	$185.12
Wash-out Hose	A121010	$48.16
Wash-out Hose 3/8"	A121011	$21.60
Box Ship Away Kit	A322000	$85.39
Allen Wrench, 3mm	A610018	$0.66
SHCS M16mm x 30mm	A971317	$4.49
QC Coupler Plug Air	A971333	$2.08
Lever Grease Gun with Hose	000211006	$18.29
Sponge Ball D150 Medium	018841002	$11.53
Single Spanner, 60mm	019179003	$64.48
Tool Box Complete with Tools	024449003	$245.70
HHCS M12mm x 60mm	032383009	$1.44
HHCS M20mm x 70mm	032438006	$1.39
Single Spanner, 65mm	041289000	$59.21
Single Spanner, 50mm	042383002	$61.73
Gasket Cavity SK125-5.5mm	055559001	$1.49
Gauge on Hose 1/4" Minimess	063358003	$10.38
Hydraulic Hose 2 x 400 Minimess	063365009	$10.88
Sponge Cube D150	063567001	$5.26
Safety Helmet with PM Logo, Yellow	064626006	$8.05
O-Ring ISO36	069042009	$1.22
Working Spotlight 24V	286270007	$154.08

DESCRIPTION	PART NUMBER	PRICE
Coupling Clamp SK-H 125	417249	$54.67
Filter Element 10µ Absolute	425836	$238.60
Filter Element 10µ for Suction Filter	416341	$207.44
Filter Element 10µ for Boom Filter	448258	$140.37
Tag SP/EN Danger under Repair	A800157	$30.78
Gauge 0/600 bar	527005	$30.56
Coupling Screw	240514000	$56.28
HHCS M20mm x 150mm	255462008	$2.31
Nut Nylock M20mm	034110005	$0.94
Washer Flat	042170008	$1.10
Fuse 3 AMP Flat	232273003	$1.44
Fuse 5 AMP Flat	232275001	$1.44
Fuse 7.5 AMP Flat	232276000	$1.44
Fuse 10 AMP Flat	232277009	$1.44
Fuse 15 AMP Flat	232278008	$1.44
Fuse 20 AMP Flat	232279007	$1.44
Fuse 25 AMP Flat	232280009	$1.44
Fuse 30 AMP Flat	232281008	$1.44
Microfuse 0.2AT 250V	239592004	$1.44
Relay 24V, 8A	274147003	$12.08
Relay 24V, 60A	269463006	$20.80
Step Relay 24V	244371003	$58.26
Proximity Switch M12mm x 1mm	270321001	$357.77
Spray Nozzle without Coupling	412120	$68.77
Wash-out Hose Red 3/4"	A121045	$206.30



4

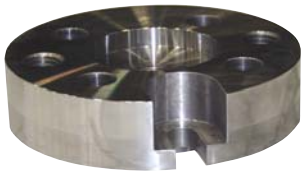
PROPART™

4 PROPART™

ProPART™, a division of Putzmeister America's Customer Support Group, offers a wide range of competitor manufacturers' and multi-vendor parts and accessories. These high-quality wear, replacement and service parts provide you significant savings over the competition. ProPART also offers special application parts that are developed by Putzmeister. A few examples are listed below; for a full listing of available items, contact the Customer Support Group.

4.1 ADAPT-A-RAM

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Adapt-A-Ram	230 Piston Kit	A530882	–	$300.00
Adapt-A-Ram	250 Piston Kit	A530883	–	$350.00
Adapt-A-Ram	Ø146mm with Hardware	A528534	–	$75.00



4.2 PISTONS

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Ram	DN 230	A527240	10161634	$160.54
Ram	DN 200 Pivot Style	A527238	10007908	$149.50
Ram Flange Style	DN 250	A527400	10161980	$234.01
Ram Flange Style	DN 180	A531110	10161781	$127.40

4.3 SPECTACLE WEAR PLATES/WEAR RINGS

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Wear Ring	DN 210	A527212	10063939	$95.20
Wear Ring	DN 220	A527255	10181916	$143.00
Kidney Sealing	DN 180	A527214	10029138	$62.17
Pressure Spring	DN 210	A527213	10064472	$19.50
Pressure Spring	DN 230	A527399	10166975	$13.00
Wear Ring	DN 165	A531283	10063938	$84.50
Kidney Ring Seal		A527584	10032182	$42.17
Spring Pressure	DN 165	A530875	10064473	$9.10
Wear Plate Casting	DN 200 8"	A527218	10074767	$390.00
Wear Plate Casting	DN 230 9"	A527219	10074768	$427.43

4.4 FILTERS

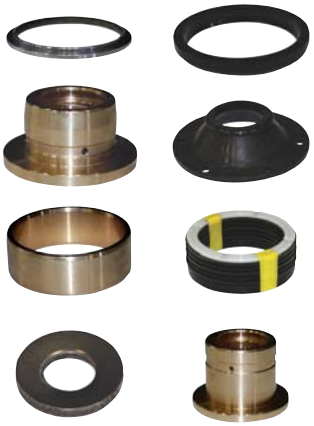
ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Filter Element	Paper 350 P25D	A538889	10002989	$54.60
Filter Element	852-126 SM 10	A530792	10021810	$28.64
Filter Element	HC 9800 FKT8H	A534817	10072694	$52.59
Filter Element	KVM45SX HC9600	A527585	10073397	$195.00

4.5 HOPPER COMPONENTS

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Agitator Support	Fixed Support	A527394	10061073	$156.00
Hydraulic Motor for Agitator		A527245	10147632	$446.86

4.6 WATER PUMP

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Hypro Water Pump	1500 Gallons - 1 1/2"	A527395	30301745	$526.55



4.7 BUSHINGS/SEALS

ITEM	DESCRIPTION	PART NUMBER	SCHWING PART #	PRICE
Back-up Ring	DN 210	A527209	10158880	$78.00
Bearing Bushing		A531198	10025626	$95.23
Bearing Sealing		A531200	10067810	$47.98
Bushing	56/D 45 x 45	A531202	10007772	$14.28
Bushing	D 60/68 x 23 Material Sint-B50	A527249	10061077	$13.00
Scraper	50 x 60 x 5 x 7 P 7-50x	A531195	10002789	$1.72
Seal	Cone	A527250	10061076	$3.98
Support Bushing		A527217	10018047	$119.39

5

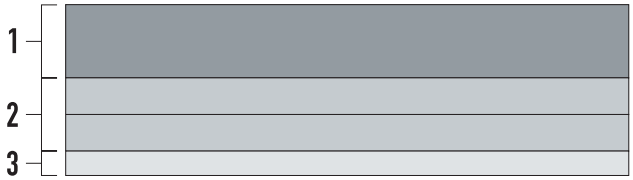
TELEBELT®

5.1 BELTS

The Telebelt® belt is made up of three layers as shown in the diagram below. The top layer is the load carrying side. The middle layer (carcass), the tensile member of belt, is fabric ply. The bottom layer is the non-load carying side.

The Telebelt belt is special for these reasons:

- High strength, wears evenly
- Great flexibility to bend over pulleys without weakening or damaging the belt carcass
- Tracks perfectly without riding up off idlers
- Troughs perfectly - even with 45 degree idlers
- Resists stretching, tearing, fraying, impact, abrasion and cutting
- Resists chemicals, rot, mildew and delamination



Belt Layers (total width = 7/16")

Layer 1: Top Cover — load carrying side (width = 3/16")

Layer 2: Fabric Ply — carcass (width = 3/16")

Layer 3: Bottom Cover — non-load carrying side (width = 1/16")

ITEM	DESCRIPTION	PART NUMBER	PRICE
Main Conveyor Belt TB 80	Belt 18" Width x 173' Length	A380889	$3,174.95
Main Conveyor Belt TB 105	Belt 18" Width x 235' Length	A380896	$4,551.89
Main Conveyor Belt TB 110	Belt 18" Width x 247' Length	A321458	$5,809.30
Main Conveyor Belt TB 130	Belt 18" Width x 302' Length	A320586	$6,226.73
Main Conveyor Belt TBS 130	Belt 18" Width x 302' Length Chevron Top	A542429	$9,752.23
Feeder Belt TB 80	Belt 18" Width x 67' Length	A320655	$1,942.50
Feeder Belt TB 105/ TB 110/ TB 130	Belt 18" Width x 75' Length	A321550	$2,120.10
Feeder Belt TBS 130	Belt 18" Width x 75' Length Chevron Top	A542424	$2,436.00

5.2 FILTER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Filter Element	10µ Nominal, used with all Telebelts	222895006	$75.52
Filter Element	60µ Absolute, used with all Telebelts	225519004	$208.56
Filter Element	25µ Absolute, used with all Telebelts	228943004	$144.00
Filter Element	10µ 80 l/min dp=20 bar, used with all Telebelts	223192009	$68.57
FIter Element	10µ 110 l/min dp>=50 bar, used with all Telebelts	273827007	$99.31

FRONT-END LOADER HOPPER

LOW-PROFILE HOPPER

ROCK HOPPER

5.3 HOPPER ASSEMBLY

Whether you're on a wind farm or wall job, Putzmeister has all your needs covered with a variety of hopper options. Each hopper accommodates different materials, such as concrete, rock and various loose, bulk materials. In addition, you can feed our hoppers multiple ways using a front-end loader, skid steer loader, dump truck or concrete mixer.

ITEM	DESCRIPTION	PART NUMBER	PRICE
Folding Hopper Assembly	Used on TB 110 and TB 130	A309720K	$2,534.80
Front-end Loader Hopper	Allows easier use with skid steer and small wheel loaders, used on TB 80, TB 105, TB 110 and TB 130	A306000	$2,234.00
Low Profile Hopper Assembly	Aluminum, used on TB 80, TB 105, TB 110 and TB 130	A306001	$1,350.55
Rock Hopper Assembly	Allows faster, more efficient handling of rock and gravel, used on TB 80, TB 105, TB 110 and TB 130	A300042	$7,251.09
Feed Conveyor Hopper	Used on TB 80, TB 105, TB 110 and TB 130	A341002	$3,275.40
Seal Rubber Side Panel	Used on TB 110, TB 130 and TB 600	A321382	$233.84

5.4 SKIRTS

Skirts act as a funnel to direct the flow of material from the feeder belt to the main conveyor. Tunnel skirts are invaluable in ensuring the flow from the feeder through the transfer and onto the main belt is smooth for more efficient material placement, a cleaner job site and easier cleanup.

ITEM	DESCRIPTION	PART NUMBER	PRICE
Side Skirt for Loader Hopper	Used on TB 80, TB 105, TB 110 and TB 130	A320011	$84.36
Rear Skirt for Loader Hopper	Used on TB 80, TB 105, TB 110 and TB 130	A320013	$38.26
Front Skirt for Loader Hopper	Used on TB 80, TB 105, TB 110 and TB 130	A320019	$35.07
Rear Skirt for Hopper	Used on TB 80, TB 105 and TB 130	A311956	$42.18
Side Skirt for Hopper	Used on TB 80, TB 105, TB 110 and TB 130	A321173	$99.20
Rubber Side Skirt for Transition Hopper	Used on TB 80	A322526	$103.24
Rear Sealing Rubber Skirt for Transition Hopper	Used on TB 80	A322529	$24.19
Seal Rubber Side Panel for Folding Hopper	Used on TB 110, TB 130 and TB 600	A321382	$233.84
Seal Rubber Outer End Panel for Folding Hopper	Used on TB 110, TB 130 and TB 600	A321138	$30.90
Rubber Skirt for Transition	Used on TB 110	A321437	$282.78
Rubber Skirt for Transition	Used on TB 130 and TB 600	A322440	$364.08
Skirt for Transition Flap	Used on TB 110	A321438	$325.16
Rubber Tunnel Skirt	Used on TB 80 and TB 105	A311790	$133.20
Chute for Rubber Swivel	Used on TB 105	A321198	$62.16
Skirt for Rubber Swivel	Used on TB 105	A321632	$317.46
Cover for Rubber for Turret	Used on TB 105	A321630	$240.18
Rubber Apron Skirt	For Arm 1 Tunnel, used on TB 110, TB 130 and TB 600	A321217	$144.14
Skirt	For Arm 1 Tunnel, used on TB 110	A321452	$55.12
Feeder Skirt Wear Discharge Boot	Used on all Telebelts	A311824	$237.54
Skirt Wear Discharge Boot	18", used on TB 80, TB 105, TB 110 and TB 130	A330748	$228.34
Rubber Turret Skirt	Used on TB 110	A321530	$44.66
Apron Rubber for Feed Conveyor	Used on TB 80, TB 110, TB 130 and TB 600	A322221	$35.50
Feeder Scraper Skirt	Used on TB 80, TB 110 and TB 130	A332672	$81.04
Apron Skirt	Used on TB 80	A320195	$77.26
Apron Skirt	Used on TB 105	A321008	$181.61
Apron Skirt	Used on TB 110	A321621	$281.00
Apron Skirt	Used on TB 600 and TB 200	A321727	$51.36
Head Scraper Skirt	Used on TB 80, TB 105, TB 110 and TB 130	A331737	$93.04
Rubber Apron Skirt	Front, Arm 1, used on TB 130	A506995	$175.38
Rubber Apron Skirt	Rear, Arm 1, used on TB 130	A506996	$154.64

5.5 ROLLERS

Using the right rollers in the correct position is very important to the life of the belts and the overall performance of the Telebelt. The location and design of Putzmeister's rollers are a product of years of experience and practical application.

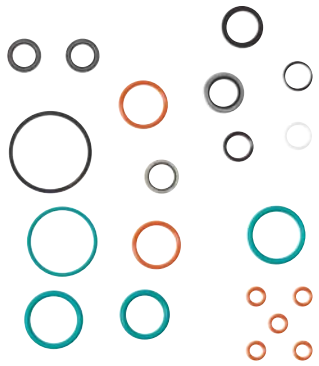
ITEM	DESCRIPTION	PART NUMBER	PRICE
Roller Assembly	18" U-Roller, used on TB 80, TB 105, TB 110 and TB 130	A320090	$222.73
Roller	Hopper, used on TB 80, TB 105, TB 110 and TB 130	A330537	$183.43
V-Idler Assembly	Used on TB 80, TB 105, TB 110 and TB 130	A383544	$146.34
Return Roller	Used on TB 50	A381163	$21.14
Return Roller Assembly	18" Belt, used on TB 80, TB 105, TB 110, TB 130 and TB 600	A383545	$79.78
Roller Replacement Part	For A383545, Center Labyrinth Seal, used on TB 80, TB 105, TB 110, TB 130 and TB 600	A383562	$11.72
Roller Replacement Part	For A383545, Outer Labyrinth Seal, used on TB 80, TB 105, TB 110, TB 130 and TB 600	A383563	$5.85
Roller Replacement Part	For A321470, Inner Labyrinth Seal, used on TB 80, TB 105, TB 110 and TB 130	A321643	$88.69
Roller Replacement Part	For A321470, Outer Labyrinth Seal, used on TB 80, TB 105, TB 110 and TB 130	A321644	$121.51
Bushing	For Return Roller 25", Used on TB 105, TB 110, TB 130 and TB 200	A311732	$12.57
Transition U-Roller Assembly	18", used on TB 80, TB 110 and TB 130	A321068	$459.01
Transition U-Roller Assembly	18", used on TB 105	A320117	$440.38
V-Roller Assembly Transition	Used on TB 110	A321541	$91.65
Pulley 5" with Double Ball Bearings	Used on TB 80, TB 105, TB 110 and TB 130	A321470	$554.04
Rear Roller Assembly	18", used on TB 80, TB 105, TB 110 and TB 130	A330731	$233.00
Roller Assembly	3", used on TB 80, TB 105, TB 110 and TB 130	A320081	$23.73
Roller Assembly	5" x 2" Outer Diameter, used on all Telebelts	A320082	$29.01
Roller Assembly	8.25" x 2" Outer Diameter, used on all Telebelts	A320075	$30.76
Roller Assembly	Rear 24", used on TB 600 and TB 200	A330732	$177.60
Return Roller Assembly	24", used on TB 600 and TB 200	A383622	$129.81
Shaft	9.57" for 8.25" Roller, used on TB 80, TB 105, TB 110 and TB 130	A320056	$9.69
Shaft	21.5" for 18" Roller, used on TB 80, TB 105 and TB 130	A320058	$17.97
Triple Bearing	For 19" Roller, used on TB 80, TB 105, TB 110 and TB 130	A320078	$39.52
Bearing	For Roller 2.5", used on TB 110 and TB 130	A320573	$79.56
Roller Cradle	Tip Boom, used on TB 80, TB 110 and TB 130	A331394	$264.34
Roller Cradle	Inner Mid, used on TB 80, TB 110 and TB 130	A331395	$216.46
Roller Cradle	Outer Mid, used on TB 80, TB 110 and TB 130	A331396	$208.10
Bracket Roller	Feeder, used on TB 80, TB 105, TB 110 and TB 130	A340077	$176.63
Bearing Roller	95mm Inner Diameter, used on TB 105, TB 110 and TB 200	A381721	$598.45

5.6 SCRAPER

Why use a 16" Scraper Blade on an 18" Wide Belt?

Telebelts are equipped with “crowned” pulleys. Slightly crowned (tapered) pulleys allow for easier adjustment when tracking or training the belt. These crowned pulleys leave approximately one inch on each side of the belt that is not flat where an 18" wide scraper would wear out the belt edges prematurely. With a properly tuned and running belt, the material should never reach the outside of the belt so there should be no need to clean there.

ITEM	DESCRIPTION	PART NUMBER	PRICE
Head Scraper Blade 16"	For 18" Belt, used on TB 80, TB 105, TB 110 and TB 130	A310693	$115.59
Head Scraper Skirt	Used on TB 80, TB 105, TB 110 and TB 130	A331737	$93.04
Scraper Assembly	Head and Feeder, used on TB 80, TB 105, TB 110 and TB 130	A330002	$414.17
Head Arm Scraper	Right-Hand, used on TB 80, TB 105, TB 110 and TB 130	A320547	$60.00
Head Arm Scraper	Left-Hand, used on TB 80, TB 105, TB 110 and TB 130	A320545	$60.00
Scraper Brush	18", used on all Telebelts with Chevron Belts	A561837	$55.15
T-Handle	Short, used on all Telebelts	A310597	$24.91
Spring Scraper Conveyor	Used on all Telebelts	A380417	$15.29
Hair Pin	Large D177" Wire, used on all Telebelts	A380772	$0.50
Hair Pin	Small, used on all Telebelts	A380539	$0.50
Scraper	Head Angle, used on all Telebelts	A310244	$22.59
V-Scraper Assembly	Used on TB 80, TB 110 and TB 130	A340227	$211.63
Feeder V-Scraper	For A340227, used on TB 80, TB 110 and TB 130	A320551	$47.82
Scraper	For A340227, used on TB 80, TB 110 and TB 130	A312410	$14.40
Feeder Scraper Assembly	Used on TB 105	A331738	$367.86
Head Arm Scraper	Right Hand for A331738, used on TB 105	A320136	$28.08
Head Arm Scraper	Left Hand for A331738, used on TB 105	A320137	$68.96
Feeder V-Scraper Assembly	24" Belt, used on TB 600 and TB 200	A308055	$438.73
Scraper Blade 22"	24" Belt, used on TB 600 and TB 200	A321687	$212.31



5.7 BOOM CONTROL HYDRAULIC BLOCK

ITEM	DESCRIPTION	PART NUMBER	PRICE
Seal Set for Input Module	Used on all Telebelts, each seal set seals 1 valve	471709	$45.73
Seal Set for MBC Valve to Operate Mode Select and Hydraulic Prop	Used on all Telebelts, each seal set seals 1 valve	471710	$46.85

5.8 REDUCERS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Reducer 8" Outlet	Reducer, used on TB 80, TB 105, TB 110 and TB 130	A341023	$602.55
Reducer 8" Outlet	Trunk Rubber 8" x 15', used on TB 80, TB 105, TB 110 and TB 130	A381734	$385.30
Reducer 8" Outlet	Trunk Rubber Bulk by the Foot, used on TB 80, TB 105, TB 110 and TB 130	A380818	$23.46/ft
Reducer 12" Outlet	Reducer, used on TB 80, TB 105, TB 110, TB 130 and TB 600	A341022	$628.19
Reducer 12" Outlet	Reducer for 24" Belt, used on TB 600	A340785	$730.85
Reducer 12" Outlet	Trunk Rubber 12" x 15', used on TB 80, TB 105, TB 110, TB 130 and TB 600	A381735	$538.98
Reducer 12" Outlet	Trunk Rubber Bulk by the Foot, used on TB 80, TB 105, TB 110 and TB 130	A380819	$52.72/ft
Reducer 16" Outlet	Reducer, used on TB 600 and TB 200	A340772	$635.92
Reducer 16" Outlet	Trunk Rubber 16" x 15', used on TB 600 and TB 200	A383630	$811.44
Reducer 16" Outlet	Trunk Rubber Bulk by the Foot, used on TB 600	A383532	$55.63/ft

5.9 WIRE ROPES AND CABLES

ITEM	DESCRIPTION	PART NUMBER	PRICE
Wire Rope Assembly	5/16", used on TB 80	A320413	$286.11
Wire Rope	9/16", used on TB 105	A381586	$1,550.59
Wire Rope	3/16", used on TB 105	A382021	$0.50/foot
Wire Rope	9/16", used on TB 110	A321523	$2,375.05
Wire Rope	Rear, used on TB 110 and 130	A321524	$393.76
Wire Rope	Front, used on TB 110 and 130	A321525	$322.00
Wire Rope	9/16", used on TB 130	A320588	$2,571.99
Wire Rope	Rear, used on TB 130	A320589	$357.01
Wire Rope	Front, used on TB 130	A320590	$375.58
Wire Rope	1/8", used on TB 80, TB 105, TB 110 and TB 130	A382025	$0.50/foot
Sheave	8" Outer Diameter, used on TB 105	A381562	$100.54
Sheave	10" Outer Diameter, used on TB 105	A381563	$109.96
Sheave	10" Outer Diameter, used on TB 110, TB 130, TB 600 and TB 200	A320572	$85.71
Sheave	8" Outer Diameter, used on TB 110, TB 130, TB 600 and TB 200	A320571	$53.03

5.10 HYDRAULIC CYLINDERS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Main Cylinder Lift	Used on TB 80	A322536	$3,123.14
Main Cylinder Lift	Used on TB 105	A525905	$3,888.78
Main Cylinder Lift	Used on TB 110	A316282	$1,948.51
Main Cylinder Lift	Used on TB 130 and TBS 130	A316276	$2,131.42
Feeder Cylinder Lift	Used on TB 80	A316268	$1,470.59
Feeder Cylinder Lift	Used on TB 105	A316008	$1,533.26
Feeder Cylinder Lift	Used on TB 110, TB 130 and TB 600	A316278	$1,238.50

5.11 HYDRAULIC JACK SET

Putzmeister offers a variety of equipment for tensioning belts and cables.

ITEM	DESCRIPTION	PART NUMBER	PRICE
Hand Pump	Used on all Telebelts	A381903	$717.17
Pressure Gauge Tee	With 2 Valves, used on all Telebelts	A330244	$363.20
Pressure Gauge	0-400 Bar, used on all Telebelts	017250005	$26.53
Pressure Gauge	0-60 Bar, used on all Telebelts	016372007	$29.40
Ram End	Used on all Telebelts	A320003	$98.65
Ram Collar	Used on all Telebelts	A320997	$55.94
Ram	Manufacturer Simplex, used on all Telebelts	A330021	$606.75
Hydraulic Hose	06GH, used on all Telebelts	A340519	$22.96
Hydraulic Hose	NW 2 x 400mm, used on all Telebelts	063365009	$10.88
Coupler	M3/8", used on all Telebelts	A382139	$9.99
Fitting	06MP-06MP, used on all Telebelts	A380191	$1.15
Fitting	06FQPI-06FP, used on all Telebelts	A382138	$18.00
Seal Kit	Manufacturer Enerpac, used on all Telebelts	A381900	$26.21
Seal Kit	Manufacturer Simplex, used on all Telebelts	A381315	$62.72

5.12 MALE AND FEMALE GUIDE BLOCKS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Female Guide Block	Used on all Telebelts	A311706	$51.44
Retainer	For Female Guide Block , used on TB 80, TB 110, TB 130 and TB 600	A340099	$60.40
Retainer	For Female Guide Block, used on TB 105	A320614	$102.20
Male Guide Block	Used on TB 80, TB 110, TB 130 and TB 600	A321022	$87.11
Retainer	For Male Guide Block, used on TB 80, TB 110, TB 130 and TB 600	A321023	$38.32
Male Guide Block	Used on TB 105	A310073	$42.04
Retainer	For Male Guide Block, used on TB 105	A310518	$58.35
Upper Guide Block	Used on TB 105	A320972	$82.91
Upper Guide Block	Used on TB 130	A322606	$95.09
Slide Pad Complete	Used on TB 200	A551935	$68.63
Pad Side Guide Assembly	Used on TB 200	A322449	$73.36

5.13 SEAL KITS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Seal Kit	For Hydraulic Cylinder Assembly Take up A381773, used on all Telebelts	A381774	$32.57
Seal Kit	For Danfoss Hydraulic Motor, used for 80ccm and 125ccm Hydraulic Motors	A322353	$75.12
Seal Kit	Rear for Hydraulic Motor, used for 130ccm, 160ccm, 205ccm and 395ccm Hydraulic Motors	A320522	$24.13
Seal Kit	Shaft, used for 130ccm, 160ccm, 205ccm and 395ccm Hydraulic Motors	A320523	$38.19

5.14 LAMPS AND SIRENS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Lamp	Sealed 2-1/2" Red Marker, used on all Telebelts	A370149	$9.52
Light LED	Stop Turn and Tail, used on all Telebelts	A370150	$53.06
Electronic Siren	2 Channel, used on all Telebelts	A382178	$28.42

5.15 OUTRIGGER PADS

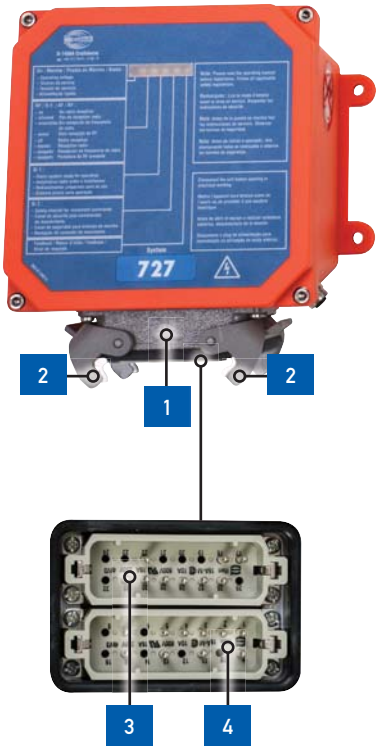
ITEM	DESCRIPTION	PART NUMBER	PRICE
Wood 600mm x 600mm x 50mm	Used on all Telebelts	A126017	$115.74

5.16 HBC FOR TELEBELT TB RADIO REMOTE 12V 2.4GHZ (A602300) AND TBS RADIO REMOTE 24V 2.4GHZ (A602301), RADIO SYSTEM TYPE 727

5.16 HBC FOR TELEBELT TB RADIO REMOTE 12V 2.4GHZ (A602300) AND TBS RADIO REMOTE 24V 2.4GHZ (A602301), RADIO SYSTEM TYPE 727

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Left Handle	Includes Belt Loop	400951	$91.85
2	Right Handle	Includes Belt Loop	400952	$91.85
3	Aluminum Chamfered Washers for Roll Bar		293803001	$4.29
4	Aluminum Roll Bar		292584004	$61.06
5	Belt Function Sign		A053140	$60.35
6	Main Belt Boom Function Sign		A053141	$57.73
7	Feeder Belt Function Sign		A053142	$50.02
8	Main and Feeder Control Function Sign		A053139	$131.62
9	Belt Loop		292461004	$3.33
10	Belt Loop Nut		043088005	$1.44
11	Belt Speed Knob		255255008	$15.17
12	Large Switch Protection Cap		249520008	$33.98
13	Belt Switch	Soldered in Part	A370038	$114.37
14	Horn/Outrigger Switch	Soldered in Part	277940003	$66.40
15	Feeder Transfer Switch	Soldered in Part	A370033	$113.23
16	E-Stop Bush Button	Soldered in Part	241401002	$132.48
17	Small Switch Protection Cap	Soldered in Part	241416000	$15.14
18	Transmitter Power Switch	Soldered in Part	241415001	$84.10
19	Water Pump Switch	Soldered in Part	243735006	$66.37
20	Boom Speed Select Switch	Soldered in Part	292137008	$148.61
21	Motor Start/Stop and RPM +/- Switches	Soldered in Part	241412004	$70.70
22	Lower Housing Transmitter	Includes 495536 Battery Compartment	495537	$419.87
23	Battery Compartment		495536	$76.90
24	Z Axis Joystick		487160	$1,781.57
25	Main Raise and Lower Function Sign		A053143	$55.10
26	Joystick Knob		466329	$23.78
27	Joystick Bellow		292129003	$44.01

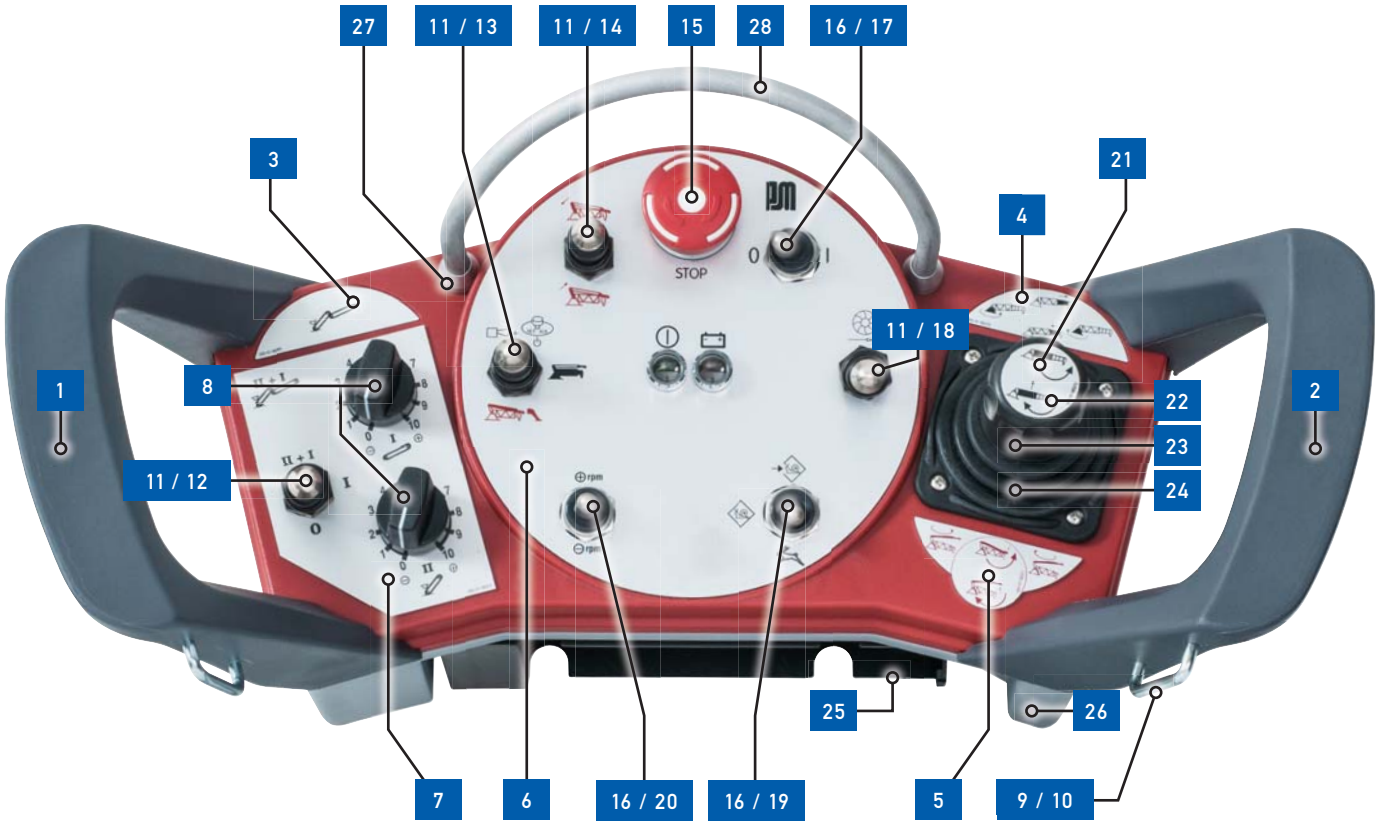
5.17 RECEIVER FOR TELEBELT RADIO TB REMOTE 12V 2.4GHZ (A602300) AND TBS RADIO REMOTE 24V 2.4GHZ (A602301), RADIO SYSTEM TYPE 727



5.17 RECEIVER FOR TELEBELT RADIO TB REMOTE 12V 2.4GHZ (A602300) AND TBS RADIO REMOTE 24V 2.4GHZ (A602301), RADIO SYSTEM TYPE 727

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Receiver Cable for Connection Housing	Includes 2 Receiver Cable Clips and Gasket	243707005	$34.88
2	Receiver Cable Clip		479296	$21.44
3	Connector Insert for Receiver Cable		243704008	$14.85
4	Connector Insert for Receiver Cable		243705007	$14.29
5	Antenna Extension Cable	10 meter, used if the radio receiver is mounted inside the toolbox next to main control box	A622364	$343.66
6	TC 240 Focus Antenna	Please verify Antenna type by matching to the silver label on the bottom of radio transmitter	A601590	$1,826.66
7	TC 241 Focus Antenna	Please verify Antenna type by matching to the silver label on the bottom of radio transmitter	A617384	$895.41
8	TC 240 Magnet Mounted Focus Antenna	Please verify Antenna type by matching to the silver label on the bottom of radio transmitter	A609466	$1,359.11
9	TC 241 Magnet Mounted Focus Antenna	Please verify Antenna type by matching to the silver label on the bottom of radio transmitter	A617385	$895.41

5.18 RADIO HBC TELEBELT REMOTE (A053085), RADIO SYSTEM TYPE 735



5.18 RADIO HBC TELEBELT REMOTE (A053085), RADIO SYSTEM TYPE 735

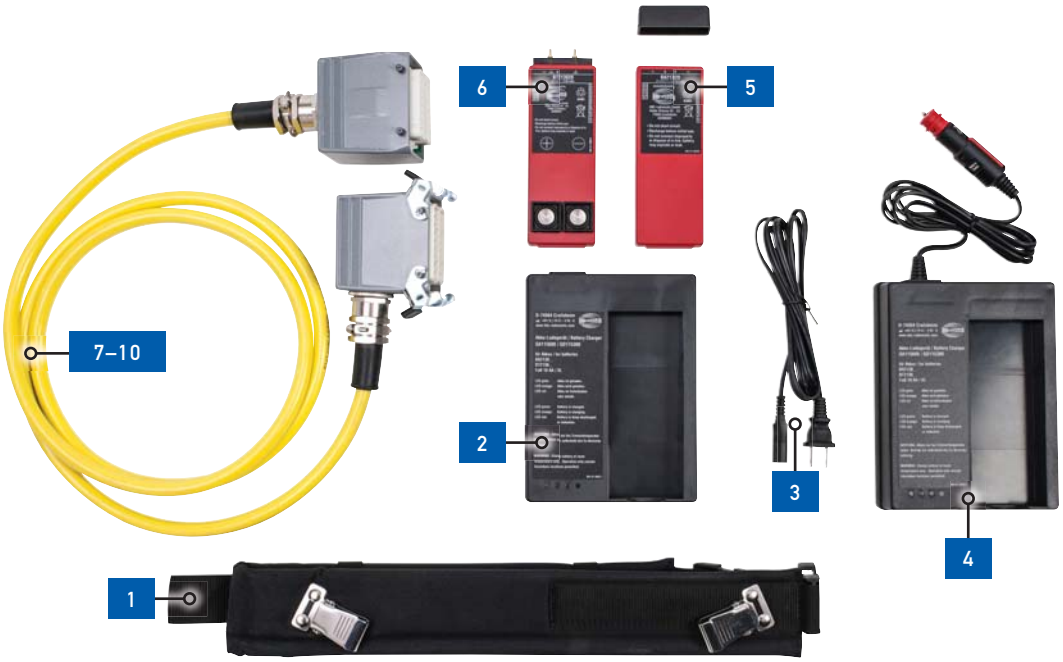
ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Left Ergo Handle	Includes Belt Loop	400951	$91.85
2	Right Ergo Handle	Includes Belt Loop	400952	$91.85
3	Belt Function Sign		A053140	$60.35
4	Main Belt Function Sign		A053141	$57.73
5	Feeder Belt Function Sign		A053142	$50.02
6	Round Function Sign		A053138	$383.07
7	Main and Feeder Control Function Sign		A053139	$131.62
8	Belt Speed Knob		255255008	$15.17
9	Belt Loop		292461004	$3.33
10	Belt Loop Nut		043088005	$1.44
11	LG Switch Protection Cap		249520008	$33.98
12	Belt On/Off Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	A370038	$114.37
13	Horn/Outrigger Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	277940003	$66.40
14	Feeder Transfer Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	A370033	$113.23
15	E-Stop Push Button		241401002	$132.48
16	Small Switch Protection Cap		241416000	$15.14
17	Transmitter Power Switch		241504006	$124.74
18	Motor Stop/Water Pump Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	249520008	$33.98
19	User Defined/Rabbit Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	241503007	$131.14
20	RPM + / - Switch	Requires 2 pieces of Capacitor Ceramic A544520, soldered in component	241502008	$134.69
21	3-Axis Joystick		291273002	$1,413.29
22	Main Belt Raise and Lower Function Sign		A053143	$55.10
23	Joystick Knob		466329	$23.78
24	Joystick Bellow		292129003	$44.01
25	1 Piece Battery Compartment	Soldered in component	479793	$112.96
26	Lower Transmitter Housing	Soldered in component, includes 1 piece battery compartment (479793)	401275	$314.21
27	Aluminum Chamfered Washer for Roll Bar		293803001	$4.29
28	Aluminum Roll Bar		292584004	$61.06

5.19 RECEIVER FOR TELEBELT RADIO REMOTE (A053085), RADIO SYSTEM TYPE 735

5.19 RECEIVER FOR TELEBELT RADIO REMOTE (A053085), RADIO SYSTEM TYPE 735

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Receiver Cable Connection Housing	Includes 2 pieces of Receiver Cable Clips and Gasket	243707005	$34.88
2	Receiver Cable Clip		479296	$21.44
3	Connector Insert	For Receiver Cable	243704008	$14.85
4	Connector Insert	For Receiver Cable	243705007	$14.29
5	900MHz FL30 Antenna		406519	$96.34
6	Receiver Antenna Cable	3 meter, used when Radio Receiver is mounted in the truck cab	434447	$54.72
7	Receiver Antenna	900 MHz, used when Radio Receiver is mounted in the truck cab	434444	$220.80
8	Receiver Antenna Port		A053089	$52.32
9	Neoprene Receiver Gasket		294934005	$2.50/meter

5.20 RADIO REMOTE ACCESSORIES FOR TELEBELT RADIOS APPLICABLE FOR ALL 727 AND 735 SYSTEM TYPES



ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Waist Belt for Radio Remote	Standard belt that comes in new kits, red and grey.	288778002	$115.33
2	120V AC Battery Charger	Must be sold with battery charger cable 115V (A534578), plugs into standard wall outlet	A534577	$594.05
3	120V AC Battery Charger Cord	Must be sold with battery charger 115V (A534577)	A534578	$32.29
4	10-30V DC Battery Charger with 12V Outlet Connector	Plugs into cigarette lighter	459061	$518.53
5	HBC 4.2mAh NiMH Battery Pack	Current on all new production	458017	$100.76
6	HBC 2.1mAh NiMH Teleteach Battery	Is required to adjust Electronic Controlled Boom Speeds on HBC Remotes	496070	$496.00
7	2.5 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used for different years depending on radio mounting locations	461552	$414.11
8	5 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used for different years depending on radio mounting locations	433760	$360.96
9	10 Meter Receiver Cable with HAN 32 Pin Ends	Different lengths used for different years depending on radio mounting locations	433765	$481.80
10	40 Meter Remote Cable with HAN 32 Pin Ends	Not suitable to use as a radio receiver cable, only use for a cable remote application	433776	$854.62
—	Ergo Waist Belt Extender	Extends standard belt for larger waist sizes	A052497	$51.18
—	Neck Strap for Ergo Transmitter	Hangs around operator's neck	403322	$41.50
—	Shoulder Strap	Wraps below and around operators shoulders for comfort	295773003	$102.78
—	Carrying Belt for HBC Spectrum	Color: Orange	227618000	$95.04

6

SHIP-AWAY KIT – TELEBELT®

6 SHIP-AWAY KIT – TELEBELT®

6.1 SHIP-AWAY KIT FOR ALL TELEBELT MODELS

DESCRIPTION	PART NUMBER	PRICE
Hydraulic Hose NW 2 x 400mm	063365009	$10.88
Gauge D63 0-400 bar	017250005	$26.53
Gauge D63 0-60 bar	016372007	$29.40
Gauge on Hose R 1/4"	063358003	$10.38
Head Scraper Blade, 18" Belt	A310693	$115.59
T-Handle Short	A310597	$24.91
Ram End	A320003	$98.65
Tray, Hydraulic Jack Kit	A320022	$160.06
Collar for Hydraulic Jack	A320997	$55.94
Cylinder Modification Assembly	A330021	$606.75
Section Valve	A330244	$363.20
Hydraulic Hose 06GH781HH072	A340519	$22.96
Fitting 06MP-06MP	A380191	$1.15
Hand Pump	A381903	$717.17
Fitting 06FQPI-06FP	A382138	$18.00
Coupler M 3/8" H3-63	A382139	$9.99
Pin Pull 3/8" DIA 2.3	A382257	$2.82
Pin Pull 5/8" DIA 2.5	A382261	$4.29
Tremie Lock-up Assembly	A320037	$38.06
Chain, Binder 5/16"	A321634	$32.40
Pin Hair Small	A380539	$0.50
Pin Hair Large D.177	A380772	$0.50

DESCRIPTION	PART NUMBER	PRICE
Grease Cartridge Mobile	A381028	$9.67
Sprayer 3.5 Gallon	A381277	$137.69
Hose and Fitting Kit, New Style	A381280	$236.72
Tool Kit for Tool Box	A381281	$619.92
Tarp 9'-6" x 11'-4" Blue	A381609	$12.89
Broom Metal Cap with Wood Handle	A381610	$36.64
Trunk Rubber 8" X 15'	A381734	$385.30
Trunk Rubber 12" X 15'	A381735	$538.98
Strap Assembly, Die Down Ratchet	A382020	$24.80
Shackle with Hitch Pin	A382089	$28.00
Lever Grease Gun with Hose	000211006	$18.29
Safety Helmet with PM Logo, Yellow	064626006	$8.05
Tie Down Rubber 6-1/4	A382254	$1.60
Chain Maintenance Kit	A309710	$161.44
Filter Element 10µ Nominal	222895006	$75.52
Filter Element 10µ	273827007	$99.31
Filter Element 10µ 80l/min	223192009	$68.57
Chain and Cable Lube	A383485	$10.77
Oil Drain Hose M26 x 1	482494	$22.69
Oil Drain Hose M22 x 1	429043	$20.32

6 SHIP-AWAY KIT – TELEBELT®

7
PLACING BOOM

CUSTOM PARTS SOLUTIONS FOR YOUR SPECIFIC PROJECT NEED

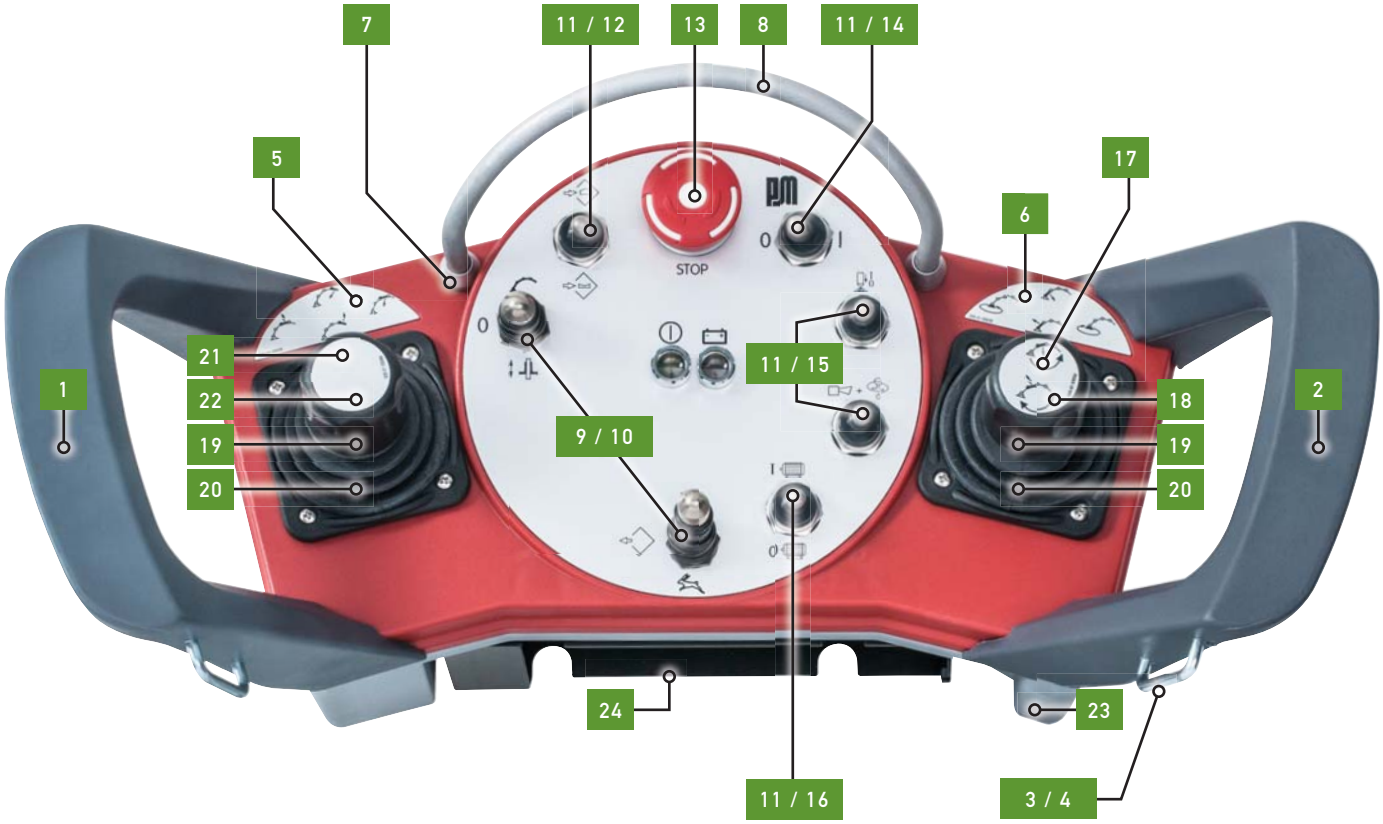
Because each placing system is unique, we can compile a tailor-made list of parts to accommodate your exact configuration. Our recommendations are designed for each placing boom individually, so feel free to contact us to discuss your options.

Contact Putzmeister's Customer Support Group at (800) 890-0269 or PartsOrders@putzam.com to learn more.

Please have your serial number on hand.

7 PLACING BOOM

7.1 RADIO REMOTE CONTROL (A602309) FOR PLACING BOOMS, CURRENT PRODUCTION 4 ARM, RADIO SYSTEM TYPE 727



7.1 RADIO REMOTE CONTROL (A602309) FOR PLACING BOOMS, CURRENT PRODUCTION 4 ARM, RADIO SYSTEM TYPE 727

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Handle Left Side	Includes belt loop	400951	$91.85
2	Handle Right Side	Includes belt loop	400952	$91.85
3	Belt Loop	Does not inclued nut (043088005)	292461004	$3.33
4	Belt Loop Nut		043088005	$1.44
5	Decal for C-D Section		292010002	$1.73
6	Decal for A-Slew Boom		292011001	$12.51
7	Roll Bar Chamferred Washer		293803001	$4.29
8	Aluminum Roll Bar		292584004	$61.06
9	Large Switch Protection Cap		249520008	$33.98
10	Boom/Jack -- Snail/Rabbit Switches	Soldered in part	418164	$166.76
11	Small Switch Protection Cap		241416000	$15.14
12	User Defined Set Switch	Soldered in part	241502008	$134.69
13	E-Stop Button	Soldered in part	241401002	$132.48
14	TX Power Switch	Soldered in part	241415001	$84.10
15	Pump Switch/Horn Switch	Soldered in part	241505005	$148.61
16	Motor Start/Stop Switch	Soldered in part	241412004	$70.70
17	3-axis Joystick		487160	$1,781.57
18	Decal for B-Section		401799	$46.27
19	Joystick Knob	Held in by snap ring base	466329	$23.78
20	Joystick Bellow		292129003	$44.01
21	2-axis Joystick		487161	$1,529.28
22	Blank Aluminum Function Sign		401808	$34.44
23	Lower Housing		A611340	$379.82
24	1 Piece Battery Compartment		495536	$76.90

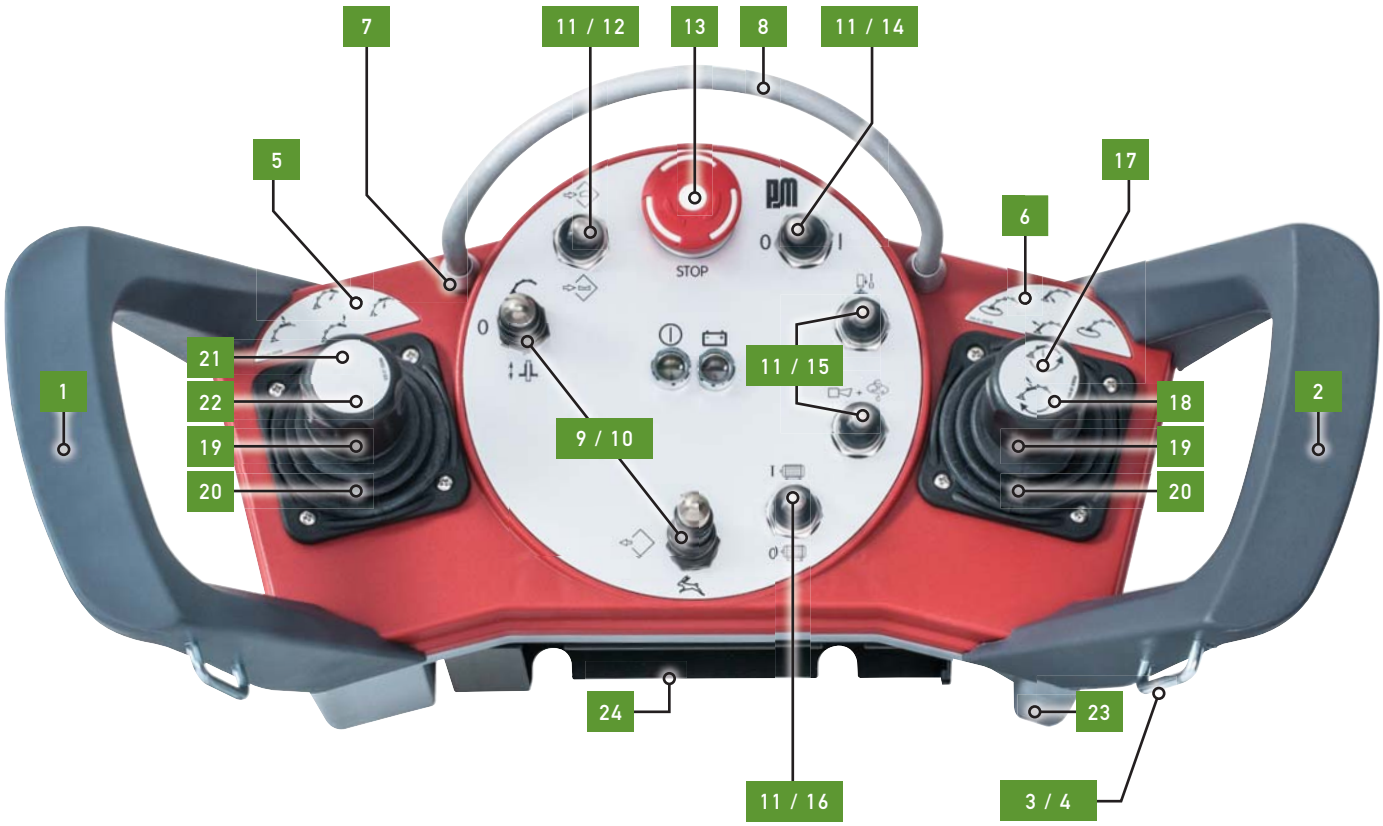
7.2 RECEIVER (A602309) FOR PLACING BOOMS WITH RADIO SYSTEM TYPE 727

7.2 RECEIVER (A602309) FOR PLACING BOOMS WITH RADIO SYSTEM TYPE 727

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Receiver Cable Connection Housing	Includes 2 locking clamps (479296) and gasket	243707005	$34.88
2	Locking Clamp		479296	$21.44
3	1-16 Receiver Cable Connector Insert		243704008	$14.85
4	17-32 Receiver Cable Connector Insert		243705007	$14.29
5	Cable	10 meter, Used if the radio receiver is mounted inside of the toolbox next to main control	A622364	$343.66
6	TC 240 Mount Focus Antenna*	* Please verify antenna type by matching to the silver label on the bottom of radio transmitter	A601590	$1,826.66
7	TC 241 Mount Focus Antenna*	* Please verify antenna type by matching to the silver label on the bottom of radio transmitter	A617384	$895.41
8	TC 240 Magnet Mount Focus Antenna*	* Please verify antenna type by matching to the silver label on the bottom of radio transmitter	A609466	$1,359.11
9	TC 241 Magnet Mount Focus Antenna*	* Please verify antenna type by matching to the silver label on the bottom of radio transmitter	A617385	$895.41
10	Battery Charger Cable	115V AC	A534578	$32.29
11	Power Converter	For battery charger	A523734	$184.54

7 PLACING BOOM

7.3 ERGO TRANSMITTER (437088) FOR PLACING BOOMS WITH RADIO SYSTEM TYPE 735



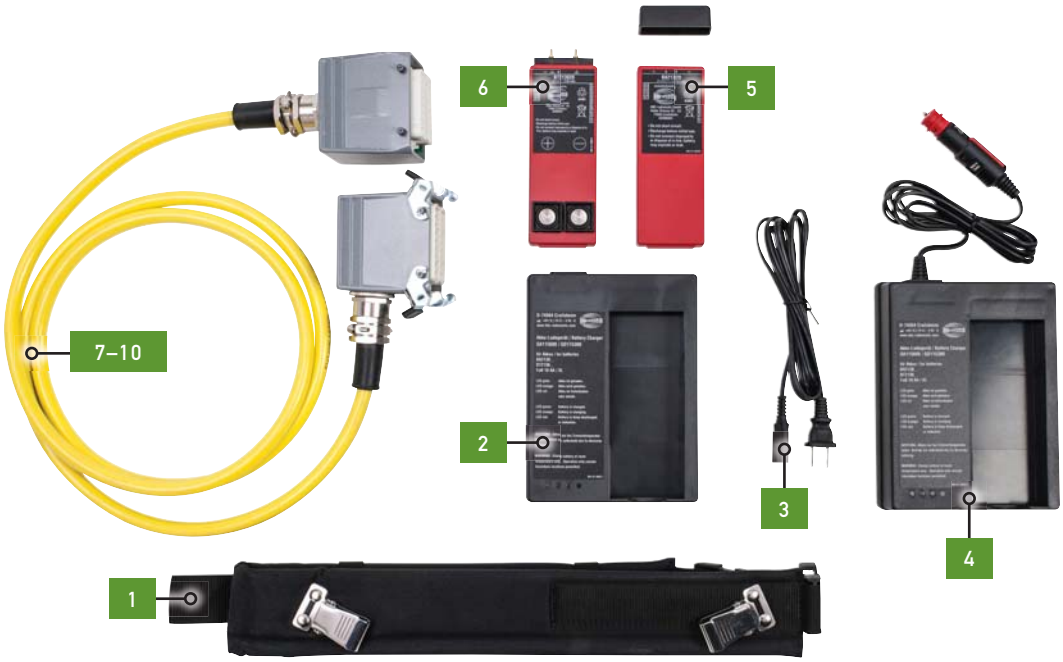
7.3 ERGO TRANSMITTER (437088) FOR PLACING BOOMS WITH RADIO SYSTEM TYPE 735

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Handle Left Side	Includes belt loop	400951	$91.85
2	Handle Right Side	Includes belt loop	400952	$91.85
3	Belt Loop	Does not include nuts (043088005)	292461004	$3.33
4	Belt Loop Nut		043088005	$1.44
5	Decal for C-D Section		292010002	$1.73
6	Decal for A-Slew Boom		292011001	$12.51
7	Roll Bar Chamferred Washer		293803001	$4.29
8	Aluminum Roll Bar		292584004	$61.06
9	Large Switch Protection Cap		249520008	$33.98
10	Boom/Jack -Snail/Rabbit Switches	Soldered in part	418164	$166.76
11	Small Switch Protection Cap		241416000	$15.14
12	User Defined Set Switch	Soldered in part	241502008	$134.69
13	E-Stop Button	Soldered in part	241401002	$132.48
14	TX Power Switch	Soldered in part	241504006	$124.74
15	Pump Switch/Horn Switch	Soldered in part	241505005	$148.61
16	Motor Start/Stop Switch	Soldered in part	241502008	$134.69
17	3-axis Joystick		291273002	$1,413.29
18	Decal for B-Section		401799	$46.27
19	Joystick Knob	Held in by snap ring at base	466329	$23.78
20	Joystick Bellow		292129003	$44.01
21	2-axis Joystick		292116003	$1,529.09
22	Blank Aluminum Function Sign		401808	$34.44
23	Lower Housing	Soldered in part	401275	$314.21
24	1 Piece Battery Compartment	Soldered in part	479793	$112.96

7.4 RADIO REMOTE RECEIVER PARTS (437088) FOR RADIO SYSTEM TYPE 735

ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Receiver Cable Connection Housing	Includes 2 locking clamps (479296) and gasket	243707005	$34.88
2	Locking Clamp		479296	$21.44
3	1-16 Receiver Cable Connector Insert		243704008	$14.85
4	17-32 Receiver Cable Connector Insert		243705007	$14.29
5	900MHz FL30 Antenna		406519	$96.34
6	Cable	3 Meter, Used when radio receiver is mounted in the truck cab	434447	$54.72
7	Roof Mount Receiver Antenna 900 MHz	Used when radio receiver is mounted in the truck cab	434444	$220.80
8	Receiver Antenna Port		A053089	$52.32
9	Neoprene Receiver Gasket		294934005	$2.50/meter
10	Battery Charger Cable	115V AC	A534578	$32.29
11	Power Converter	For battery charger	A523734	$184.54

7.5 RADIO REMOTE ACCESSORIES — APPLICABLE FOR ALL 735 AND 727 RADIO SYSTEM TYPES



ITEM #	ITEM	DESCRIPTION	PART NUMBER	PRICE
1	Waist Belt for Ergo Transmitter	Standard belt that comes with new kits	288778002	$115.33
2	120VAC Battery Charger	Must be sold with a Battery Charger Cable 115V (A534578)	A534577	$594.05
3	120VAC Charger Cord	Must be sold with Battery Charger 115V (A534577)	A534578	$32.29
4	10-30VDC Battery Charger with 12V Outlet Connector		459061	$518.53
5	HBC 4.2 mAh NiHM Battery Pack	Current on all new production	458017	$100.76
6	HBC 2.1 mAh NiHM Teleteach Battery	Is required to adjust electronic controlled boom speeds on HBC Remotes	496070	$496.00
7	Receiver Cable with HAN 32 Pin Ends	2.5 meter, Different lengths used in different years depending on radio mounting locations	461552	$414.11
8	Receiver Cable with HAN 32 Pin Ends	5 meter, Different lengths used in different years depending on radio mounting locations	433760	$360.96
9	Receiver Cable with HAN 32 Pin Ends	10 meter, Different lengths used in different years depending on radio mounting locations	433765	$481.80
10	Remote Cable with HAN 32 Pin Ends	40 meter, Not suitable to use as a radio receiver cable. Only use for a cable remote application	433776	$854.62
–	Waist Belt Extender (not pictured)	Extends standard belt for larger waist sizes	A052497	$51.18
–	Transmitter Neck Strap (not pictured)	Hangs around operator's neck	403322	$41.50
–	Shoulder Strap (not pictured)	Wraps below and around operator's shoulders for comfort	295773003	$102.78

7 PLACING BOOM

8

BSA TRAILER PUMP

8 BSA TRAILER PUMP

PARTS FOR BSA TRAILER PUMPS

Putzmeister BSA Trailer Pumps deliver superb, powerful performance over a long lifespan. They provide smooth and reliable pumping, superior durability, unbeatable flexibility and exceptional convenience to meet the needs of even your most demanding job.

Extend the life of your machine with our thorough selection of genuine parts. Between the engine, pump, hydraulics, electrical components and wear parts, we've got the assets you need, no matter the model.

8 BSA TRAILER PUMP

8.1 BSA 100 PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Fuel Filter	Deutz TCD2012L062V	A950171	$131.39
Oil Filter	Deutz TCD2012L062V	A950166	$35.30
Fuel Filter Water Element	Deutz TCD2012L062V	A561792	$94.45
Air Filter Element - Primary	Deutz TCD2012L062V	A950156	$112.32
Air Filter Element - Secondary	Deutz TCD2012L062V	A950168	$71.94
Muffler	Deutz TCD2012L062V	A950096	$503.97
Elbow Exhaust Stack	4" 85°	A508699	$394.29
Rain Cap Air Filter	Deutz TCD2012L062V	A950159	$107.90
Fuel Cap Diesel with Gauge		A017047	$29.89
Pumps			
Hydraulic Pump - Main	K3VL140	A012069	$5,579.02
Hydraulic Pump - Accumulator/Agitator	R 11/11 SAE A 9T AZP	A013043	$975.68
Hydraulic Components			
Valve Flow Control		AT311936	$394.69
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Filter Element	Beta Synthetic	AT311660	$86.87
Filler Breather Cap	5 psi	A029188	$44.32
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	3000 psi	AT312777	$51.58
Pressure Gauge	6000 psi	AT312776	$51.94
Pressure Gauge	43 psi Bypass 1/8" NPT	A041362	$29.47
Set of Seals	For Agitator Motor	502156	$145.95

8 BSA TRAILER PUMP

8.1 BSA 100 PARTS

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	A052274	$223.42
Solenoid Coil	12V NG6	Common	267378009	$154.42
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052722	$40.90
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	Deutz	Without EGD	471007	$1,356.10
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	D200mm x 1400mm		240112004	$2,143.07
Delivery Piston Seal	D200mm		080372004	$152.42
Delivery Piston Guide Ring	D200mm x 180mm x 40mm		080794006	$46.34
S-Valve	S2015		251341000	$4,563.55
Thrust Ring	D200mm x 220 mounted without Spacer		252898002	$56.96
Wear Ring	ND200ZI220 DURO22		251031006	$163.60
Spectacle Wear Plate	ND200/260 540 DURO22		229488005	$734.86
Bearing Flange	D60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Center D45mm x 880mm x 840mm		264020004	$161.06
Mixer Shaft	End for Hopper RS 905/907 60mm		275587002	$224.63
Washer	D9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand for Hopper RS 905A		441540	$129.73
Mixer Paddle	Right hand for Hopper RS 905A		441541	$129.73
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	D40mm x 30mm M8mm x 23mm		002257000	$2.40
Round Cord	D15mm NBR70		233915001	$40.42/meter

8 BSA TRAILER PUMP

8.2 BSA 120 PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Fuel Filter	Deutz TCD2012L062V	A950171	$131.39
Oil Filter	Deutz TCD2012L062V	A950166	$35.30
Fuel Filter Water Element	Deutz TCD2012L062V	A561792	$94.45
Air Filter Element - Primary	Deutz TCD2012L062V	A950156	$112.32
Air Filter Element - Secondary	Deutz TCD2012L062V	A950168	$71.94
Muffler	Deutz TCD2012L062V	A950096	$503.97
Elbow Exhaust Stack	4" 85°	A508699	$394.29
Rain Cap Air Filter	Deutz TCD2012L062V	A950159	$107.90
Fuel Cap Diesel with Gauge		A017047	$29.89
Pumps			
Hydraulic Pump - Main	R A4VG140HD	436149	$7,770.27
Hydraulic Pump - Accumulator	R 13.0 A10V28(13)DR	067370003	$1,403.07
Hydraulic Pump - Agitator	R 14.0 HY/ZFS 11/14	235383000	$220.22
Hydraulic Components			
Valve Flow Control	12V	244512008	$1,115.65
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Suction Filter Element	10µ	294073005	$92.70
Filter Element	10µ 80 l/min dp=20bar	223192009	$68.57
Filler Breather Cap	5 psi	A029188	$44.32
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	1000 psi	A029043	$47.64
Pressure Gauge	6000 psi	AT312776	$51.94
Vacuum Gauge		244084002	$27.78
Set of Seals	For Agitator Motor	502156	$145.95

8.2 BSA 120 PARTS

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	AT134931	$268.00
Solenoid Coil	12V NG6	Common	267378009	$154.42
Solenoid Coil	12V NG10	Common	245363007	$375.89
Replacement Fan for Hydraulic Oil Cooler	12V	Common	A519887	$391.84
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052722	$40.90
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	Deutz	Without EGD	471007	$1,356.10
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	D200mm x 1400mm		240112004	$2,143.07
Delivery Piston Seal	D200mm		080372004	$152.42
Delivery Piston Guide Ring	D200mm x 180mm x 40mm		080794006	$46.34
S-Valve	S2015		251341000	$4,563.55
Thrust Ring	D200mm x 220mm mounted without Spacer		252898002	$56.96
Wear Ring	ND200ZI220 DURO22		251031006	$163.60
Spectacle Wear Plate	ND200/260 540 DURO22		229488005	$734.86
Bearing Flange	D60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Center D45mm x 880mm x 840mm		264020004	$161.06
Mixer Shaft	End for Hopper RS 905/907 60mm		275587002	$224.63
Washer	D9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand for Hopper RS 905A		441540	$129.73
Mixer Paddle	Right hand for Hopper RS 905A		441541	$129.73
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	D40mm x 30mm M8mm x 23mm		002257000	$2.40
Round Cord	D15mm NBR70		233915001	$40.42/meter

8 BSA TRAILER PUMP

8.3 BSA 2109H-D PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Air Filter Element		264643009	$151.20
Muffler		065562004	$664.99
Pumps			
Hydraulic Pump - Main	R A4VG180EP0	511206	$14,424.99
Hydraulic Pump - Accumulator	R A10V28(21)DR	255200008	$1,849.22
Hydraulic Pump - Agitator	R HY/ZFFS 11/14	246161004	$1,987.93
Hydraulic Components			
Tank Cap		019291004	$21.44
Bladder	For Hydraulic Accumulator 10L, NBR	064021009	$499.71
Gas Valve Insert		265901009	$40.44
O-Ring	7.5mm x 2mm NBR70	283880005	$2.18
Protection Cap	For Hydraulic Accumulator, Plastic	415408	$10.01
Plunger Cylinder	D160mm x 80mm	402244	$2,460.22
Suction Filter Element	10µ	222895006	$75.52
Filter Element	10µ 80 l/min dp=20bar	223192009	$68.57
Oil Level Gauge		257002000	$28.32
Pressure Gauge	250 bar	016373006	$39.30
Pressure Gauge	600 bar	527005	$30.56
Pressure Gauge	60 bar	016372007	$29.40
Vacuum Gauge	-0.8 - 1bar	060440008	$51.90
Oil Temp Sensor	4-20MA	453554	$367.94
Set of Seals	For Agitator Motor	502156	$145.95
Piston Rod	D80mm x 160mm	402268	$1,339.78
Guide Ring	D81mm x 76mm	278905005	$90.05
Rod Guide Ring	D80mm x 85mm x 24.5mm	252054008	$28.58
Support Ring	80mm x 5.10mm x 1.5mm	225750009	$13.22
Lip Seal Ring	D80mm x 90mm x 12mm	252051001	$10.59
Scraper Ring	D80mm x 88mm x 7mm	061201000	$4.95
O-Ring	90mm x 3mm NBR90	289002007	$4.26
Hex. Socket Screw	M8 x 20mm	031830003	$1.44

8.3 BSA 2109H-D PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Electrical			
Proximity Switch	M12mm x 1mm 10-32VDC	270321001	$357.77
Solenoid Coil	24V NG6	561718	$53.30
Fan for Hydraulic Oil Cooler	24V	283589005	$219.02
Vibrator	24VDC 3000RPM	532745	$562.50
Hopper Grate Switch	230V 4A Special	452208	$136.00
Ignition Switch		295760003	$85.76
Relay	24V 20/30A with Resistor	269463006	$20.80
Relay	24V 8A	274147003	$12.08
Relay	24V 30/50A	065034008	$11.60
Display	EGD	439338	$1,916.19
Wear Parts			
Delivery Cylinder	D200mm x 2100mm	022051008	$3,589.76
Delivery Piston Seal	D200mm	080372004	$152.42
Delivery Piston Guide Ring	D200mm x 180mm x 40mm	080794006	$46.34
Wear Parts Hopper			
S-Valve	S2015	513375	$4,034.79
Thrust Ring	D200mm x 220mm mounted without Spacer	252898002	$56.96
Wear Ring	Carbide ND200ZI220	531240	$1,163.74
Clamping Plate	Carbide	275608004	$630.78
Wear Insert	Carbide ND200/260	485385	$1,294.15
Flange	D60 for Agitator Mount	484731	$294.71
Bushing	60mm x 65mm x 40mm	222484006	$8.99
Rubber Disc	140mm x 56mm x 8mm	242574006	$3.32
Lip Seal Ring	60mm x 70mm x 12mm	065345001	$7.52
O-Ring	65mm x 4mm NBR70	016323001	$5.38
Mixer Shaft	Center for Hopper RS905 60mm	243189005	$231.55
Mixer Shaft	End for Hopper RS 905/907 60mm	275587002	$224.63
Washer	D9mm x 55mm x 12mm	055916000	$4.70
Conveying Screw	Left hand for Hopper RS 905	239952000	$699.26
Conveying Screw	Right hand for Hopper RS 905	239953009	$699.26
Rubber Buffer	For Hopper Grate	432235	$21.93
Rubber Buffer	40mm x 30mm NBR60	042587002	$2.91
Round Cord	D15mm NBR70	233915001	$40.42/meter
Radio Remote			
Radio Kit	For BSA with EPS	A570852	$4,772.71

8 BSA TRAILER PUMP

8.4 BSA 2110HP-D PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Air Filter Element - Primary		A581411	$311.07
Air Filter Element - Secondary		A581412	$182.83
Muffler		475398	$1,628.13
Level Sensor Diesel Tank		479953	$111.79
Pumps			
Hydraulic Main Pump - Front	R A4VG180EP0	511208	$13,338.36
Hydraulic Main Pump - Rear	R A4VG180EP0	534539	$12,231.21
Hydraulic Pump - Accumulator	R 13 A10VO18(13)DR	527945	$1,579.17
Hydraulic Pump - Agitator	R 11cm³/11cm³	587427	$403.20
Hydraulic Components			
Tank Cap		211373005	$21.44
Bladder for Hydraulic Accumulator	10L	064021009	$499.71
Suction Filter Element	10µ	558150	$107.14
Filter Element	10µ 80 l/min dp=20bar	223192009	$68.57
Oil Level Gauge		257002000	$28.32
Pressure Gauge	600 bar	527005	$30.56
Pressure Gauge	250 bar	016373006	$39.30
Pressure Gauge	60 bar	016372007	$29.40
Vacuum Gauge	-0.8 - 1bar	060440008	$51.90
Oil Temp Sensor	4-20MA	453554	$367.94
Set of Seals	For Agitator Motor	502156	$145.95
Piston Rod	D80mm x 160mm	402268	$1,339.78
Guide Ring	D81mm x 76mm	278905005	$90.05
Rod Guide Ring	D80mm x 85mm x 24.5mm	252054008	$28.58
Support Ring	D80mm x 5.10mm x 1.5mm	225750009	$13.22
Lip Seal Ring	D80mm x 90mm x 12mm	252051001	$10.59
Scraper Ring	D80mm x 88mm x 7mm	061201000	$4.95
O-Ring	90mm x 3mm NBR90	289002007	$4.26
Hex. Socket Screw	M8 x 20mm	031830003	$1.44

8.4 BSA 2110HP-D PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Electrical			
Proximity Switch	M12mm x 1mm 10-32VDC	270321001	$357.77
Solenoid Coil	24V NG6	561718	$53.30
Solenoid Coil	24V NG10	602519	$86.40
Fan for Hydraulic Oil Cooler	24V	283589005	$219.02
Vibrator	24VDC 3000RPM	532745	$562.50
Transponder	RFID Switch	531793	$870.40
Hopper Grate Switch	RFID Actuator	534958	$159.71
Ignition Switch		295760003	$85.76
Relay	24V 20/30A with Resistor	269463006	$20.80
Relay	24V 8A	274147003	$12.08
Relay	24V 10/20A	065034008	$11.60
Display	EGD	439338	$1,916.19
Wear Parts			
Delivery Cylinder	D200mm x 2100mm	255591005	$3,237.03
Delivery Piston Seal	D200mm	080372004	$152.42
Delivery Piston Guide Ring	D200mm x 180mm x 40mm	080794006	$46.34
Wear Parts Hopper			
S-Valve	S2015	513375	$4,034.79
S-Valve Shaft Bearing	D90mm with Wear Sleeve	274893001	$544.83
Thrust Ring	D200mm x 220mm mounted without Spacer	252898002	$56.96
Wear Ring	Carbide ND200ZI220	531240	$1,163.74
Clamping Plate	Carbide	275608004	$630.78
Wear Insert	Carbide ND200/260	485385	$1,294.15
Bearing Flange	Closed	203848001	$65.50
Bushing	40.7mm x 64.5mm x 40mm with Groove	202791007	$25.31
Rubber Disc	140mm x 36mm x 8mm NBR	210304004	$8.36
Mixer Shaft	Center for Hopper RS905 60mm	243189005	$231.55
Mixer Shaft	End for Hopper RS 905/907 60mm	275587002	$224.63
Washer	D9mm x 55mm x 12mm	055916000	$4.70
Conveying Screw	Left hand for Hopper RS 905	239952000	$699.26
Conveying Screw	Right hand for Hopper RS 905	239953009	$699.26
Rubber Buffer	For Hopper Grate	432235	$21.93
Rubber Buffer	40mm x 30mm NBR60	042587002	$2.91
Round Cord	D15mm NBR70	233915001	$40.42/meter
Hopper Door	For RS 400, RS 600, RS 900 Hoppers	242334000	$625.73
Radio Remote			
Radio Kit	For BSA with EPS	A570852	$4,772.71

8 BSA TRAILER PUMP

8.5 BSA 14000HP PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Air Filter Element - Primary		A581411	$311.07
Air Filter Element - Secondary		A581412	$182.83
Muffler		475398	$1,628.13
Pumps			
Hydraulic Main Pump - Front	R A4VG180EP0	511213	$13,194.08
Hydraulic Main Pump - Rear	R A4VG180EP0	511206	$14,424.99
Hydraulic Pump - Accumulator	A10V28(21)DR (R)	255200008	$1,849.22
Hydraulic Pump - Agitator	R 11cm³/11cm³	587427	$403.20
Hydraulic Components			
Tank Cap		019291004	$21.44
Bladder for Hydraulic Accumulator	10L	064021009	$499.71
Suction Filter Element	10µ 170l/min	558153	$96.96
Filter Element	10µ 80 l/min dp=20bar	223192009	$68.57
Pressure Gauge	600 bar	527005	$30.56
Pressure Gauge	250 bar	016373006	$39.30
Pressure Gauge	60 bar	016372007	$29.40
Vacuum Gauge	-0.8 - 1bar, Rear Fitting	244084002	$27.78
Oil Temp Sensor	4-20MA	453554	$367.94
Set of Seals	For Agitator Motor	502156	$145.95
Piston Rod	D80mm x 160mm	402268	$1,339.78
Guide Ring	D81mm x 76mm	278905005	$90.05
Rod Guide Ring	D80mm x 85mm x 24.5mm	252054008	$28.58
Support Ring	80mm x 5.10mm x 1.5mm	225750009	$13.22
Lip Seal Ring	D80mm x 90mm x 12mm	252051001	$10.59
Scraper Ring	D80mm x 88mm x 7mm	061201000	$4.95
O-Ring	90mm x 3mm NBR90	289002007	$4.26
Hex. Socket Screw	M8mm x 20mm	031830003	$1.44

8.5 BSA 14000HP PARTS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Electrical			
Proximity Switch	M12mm x 1mm 10-32VDC	270321001	$357.77
Solenoid Coil	24V NG6	561718	$53.30
Solenoid Coil	24V NG10	602519	$86.40
Fan for Hydraulic Oil Cooler	24V	283589005	$219.02
Vibrator	24VDC 3000RPM	532745	$562.50
Transponder	RFID Switch	531793	$870.40
Hopper Grate Switch	RFID Actuator	534958	$159.71
Ignition Switch		295760003	$85.76
Relay	24V 20/30A with Resistor	269463006	$20.80
Relay	24V 8A	274147003	$12.08
Display	EGD	439338	$1,916.19
Wear Parts			
Delivery Cylinder	D200mm x 2100mm	255591005	$3,237.03
Delivery Piston Seal	D200mm	080372004	$152.42
Delivery Piston Guide Ring	D200mm x 180mm x 40mm	080794006	$46.34
Wear Parts Hopper			
S-Valve	S1812D9	274869006	$4,144.80
S-Valve Shaft Bearing	D90mm with Wear Sleeve	274893001	$544.83
Thrust Ring	Mounted without Spacer Disc	249304004	$99.14
Wear Ring	DN180 Carbide	269759008	$1,250.62
Clamping Plate	Carbide	275604008	$873.47
Wear Insert	ND200/260 Carbide	509425	$1,074.11
Bearing Flange		484731	$294.71
Bushing	60mm x 65mm x 40mm with Groove	222484006	$8.99
Rubber Disc	140mm x 56mm x 8mm NBR	242574006	$3.32
Mixer Shaft	Center for Hopper RS 905 60mm	243189005	$231.55
Mixer Shaft	End for Hopper RS 905/907 60mm	275587002	$224.63
Washer	D9mm x 55mm x 12mm	055916000	$4.70
Conveying Screw	Left hand for Hopper RS 905	239952000	$699.26
Conveying Screw	Right hand for Hopper RS 905	239953009	$699.26
Rubber Buffer	For Hopper Grate	042587002	$2.91
Rubber Buffer	40mm x 30mm NBR60	432235	$21.93
Round Cord	D15mm NBR70	233915001	$40.42/meter
Hopper Door	For RS 400, RS 600, RS 900 Hoppers	242334000	$625.73
Radio Remote			
Radio Kit	For BSA with EPS	A570852	$4,772.71

8 BSA TRAILER PUMP

9

THOM-KATT® TRAILER PUMP

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9 THOM-KATT® TRAILER PUMP

9.1 RADIO FOR THOM-KATTS WITH EGD DISPLAY AND WITH E-STOP RESET BUTTON

ITEM	DESCRIPTION	PART NUMBER	PRICE
Line Pump System	**T110EC/R160**	**A616241**	**$3,427.20**
Transmitter	T110EC, 900MHz	A616242	$1,502.98
Receiver	R160, 900MHz, Reverse Light	A616244	$1,627.98
Output Cable	R160, 2 meter long	A616245	$541.67
Batteries	Rechargeable, NiCad, 1.2V, AA, 4 Pack	A053292	$32.00
Dash Cradle	CC Dock 110, Generic, 3ft. Cord	A523338	$755.20
Carrying Pouch	T110 Leather Pouch	A053293	$166.40
Antenna	900MHz, 4 foot	A053291	$134.40
Magnet Back	T110 Battery Cover, Magnet, 900MHz	A053298	$42.92
Keypad Label		A616243	$38.30
Belt Waist	T110	A053305	$22.62
Belt Clip	T100/T110 Belt Clip Kit	A053300	$52.08
Cradle Pouch	T50/T100/T110 All Weather Cradle Pouch	A053294	$41.28
Antenna Whip	900MHz	A053295	$21.46

9.2 RADIO FOR THOM-KATTS WITHOUT EGD DISPLAY AND WITHOUT E-STOP RESET BUTTON

ITEM	DESCRIPTION	PART NUMBER	PRICE
Line Pump System	**T110EC/R160**	**A523336**	**$3,411.20**
Transmitter	T110EC, Blue, 900MHz	A523337	$1,616.00
Receiver	R160, 900MHz, Reverse Light	A053324	$1,750.40
Output Cable	R160, 2 meter	A053289	$232.98
Batteries	Rechargeable, NiCad, 1.2V, AA, 4 Pack	A053292	$32.00
Dash Cradle	CC Dock 110, Generic, 3', Cord	A523338	$755.20
Carrying Pouch	T110 Leather Pouch	A053293	$166.40
Antenna Kit	900MHz, 4 Foot	A053291	$134.40
Magnet Back	T110 Battery Cover, Magnet, 900MHz	A053298	$42.92
Belt Clip	T100/T110 Belt Clip Kit	A053300	$52.08
Cradle Pouch	T50/T100/T110 All Weather Cradle Pouch	A053294	$41.28
Antenna Whip	900MHz	A053295	$21.46

9.3 CABLE REMOTES

ITEM	DESCRIPTION	PART NUMBER	PRICE
30 Meter, TK w/o EGD	On/off/reverse	A051174	$819.26
30 Meter, TK w/o EGD	On/off/reverse/rpm/vol	A053355	$628.00
30 Meter, TK w/ EGD	On/off/reverse	A616387	$774.98
30 Meter, TK w/ EGD	On/off/reverse/rpm/vol	A616388	$1,056.31

9.4 THOM-KATT® WATER PUMP KIT WITH REMIXER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Water Pump Kit with Remixer		**A512481**	
Valve	2-Pole	A023002	$506.78
Hex Head Cap Screw	5/16-18" x 2-3/4"	AT303437	$0.50
Washer Flat	5/16"	A971283	$0.50
Nut Crownlock		A971166	$0.50
Bracket Mounting Water Pump		A511672	$113.21
Hex Head Cap Screw	3/8-16" x 1"	AT301015	$1.44
Washer Flat		AT302506	$1.44
Washer Lock		AT302502	$1.44
Nut Crownlock		A971165	$1.44
Cover Water Pump		A511673	$75.87
Hex Head Cap Screw	1/4-20" x 3/4"	AT301001	$1.44
Washer Lock	1/4"	A380045	$0.50
Washer Flat	1/4"	AT302557	$1.00
Hydro Water Pump 7560		018533006	$529.82
Hex Head Cap Screw	5/16-18" x 1"	AT301007	$0.50
Washer Lock	5/16"	AT302517	$1.44
Coupling Assembly	M300	AT139288	$145.34
Hydraulic Motor	14.4CC	A036007	$430.43
Hydraulic Tube		A511674	$36.22
Pipe Nipple	3/4"	A043020	$0.80
T-Piece	3/4"	040140001	$3.90
Pressure Limiting Valve		018529007	$87.00
Adaptor	12MJ-12MP	AT508370	$6.02
Tee Street	3/4"	A043024	$6.66
Elbow Street	3/4"	A043022	$2.18
Claw Coupling	Male 3/4", Universal	AT307514	$10.85
Stem Coupling	3/4" Hose End	AT307516	$12.03
Hydraulic Hose	2 Pieces	A312489	$35.30
Hydraulic Hose	12L x 2340	A041585	$59.42
Hydraulic Hose	12L x 2500	A505841	$74.74
Fitting	15L	044072007	$12.92
Fitting Complete	15L, 3/4"	291410001	$20.96
Fitting Complete	12L	A312542	$4.51
Fitting	12MB-12L	A312129	$26.48
Fitting Complete	12L, 9/16"	044172004	$15.87
Decal Func	SY Water Flow Direction	A800066	$1.44
Decal Warning	Empty Water Pump	A800186	$1.44
Fitting EWSD	12L	044071008	$11.23

9.5 THOM-KATT® WATER PUMP KIT WITH REMIXER AND OUTRIGGER

ITEM	DESCRIPTION	PART NUMBER	PRICE
Water Pump Kit with Remixer and Outrigger		**A512482**	
Valve	1-Spool	A023000	$284.54
Hex Head Cap Screw	5/16-18" x 2-1/4"	AT301221	$0.50
Washer Flat	5/16"	A971283	$0.50
Nut Crownlock	5/16"	A971166	$0.50
Bracket Mounting Water Pump		A511672	$113.21
Hex Head Cap Screw	3/8"	AT301015	$1.44
Washer Flat	3/8"	AT302506	$1.44
Washer Lock	3/8"	AT302502	$1.44
Nut Crownlock	3/8"	A971165	$1.44
Cover Water Pump		A511673	$75.87
Hex Head Cap Screw	1/4-20" x 3/4"	AT301001	$1.44
Washer Lock	1/4"	A380045	$0.50
Washer Flat	1/4"	AT302557	$1.00
Hydro Water Pump 7560		018533006	$529.82
Hex Head Cap Screw	5/16-18" x 1"	AT301007	$0.50
Washer Lock	5/16"	AT302517	$1.44
Coupling Assembly	M300	AT139288	$145.34
Hydraulic Motor	14.4CC	A036007	$430.43
Hydraulic Tube		A511674	$36.22
Pipe Nipple	3/4"	A043020	$0.80
T-Piece	3/4"	040140001	$3.90
Pressure Limiting Valve		018529007	$87.00
Adaptor	12MJ-12MP	AT508370	$6.02
Tee Street	3/4"	A043024	$6.66
Elbow Street	3/4"	A043022	$2.18
Claw Coupling	Male 3/4", Universal	AT307514	$10.85
Stem Coupling	3/4" Hose End	AT307516	$12.03
Hydraulic Hose	2 pieces, 12L x 1900	A312489	$35.30
Hydraulic Hose	15L x 1320	A041499	$62.53
Hydraulic Hose	12L x 2500	A505841	$74.74
Fitting EWSD	15L	044072007	$12.92
Fitting Complete	15L, 3/4"	291410001	$20.96
Fitting ELSD	15L	044087005	$22.74
Fitting	12MB-12L	A312129	$26.48
Fitting Complete	12L, 9/16"	044172004	$15.87
Decal Func	SY Water Flow Direction	A800066	$1.44
Decal Warning	Empty Water Pump	A800186	$1.44
Fitting EWSD	12L	044071008	$11.23
Fitting Complete	15L, 7/8"	A312104	$18.72
Power Beyond Fitting		A316151	$13.65
Bracket Spool Valve		A001940	$65.09
Hex Head Cap Screw	3/8-16" X 3-1/4"	AT303420	$0.50

9 THOM-KATT® TRAILER PUMP

9.6 TK 40

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Fuel Filter Water Element	Deutz TD2011L04i	A950162	$38.98
Oil Filter	Deutz TD2011L04i	AT318922	$18.33
Air Filter Element	Deutz TD2011L04i	A950173	$86.91
Air Filter Element	Deutz TD2011L04i	A950174	$99.14
Elbow Exhaust Turbo	Deutz TD2011L04i	A553861	$135.94
Gasket Exhaust Turbo	Deutz TD2011L04i	A553862	$13.41
Rain Cap Exhaust	2.5"	A950030	$42.82
Muffler Kit	Deutz TD2011L04i	A950063	$812.86
Fuel Cap Diesel with Gauge		A017047	$29.89
Throttle Control Cable	83" long	AT317547	$125.46
Pumps			
Hydraulic Pump - Main	HA10VO71	A012029	$2,768.32
Hydraulic Pump - Main	K3VL80 (Alternate)	A012061	$2,952.58
Hydraulic Pump - Accumulator/ Agitator	R 11/8 SAE A 9T AZP	A013024	$797.38
Hydraulic Components			
Valve Flow Control		AT311936	$394.69
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Filter Element	Beta Synthetic	AT311660	$86.87
Filler Breather Cap		AT311937	$57.34
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	3000 psi	AT312777	$51.58
Pressure Gauge	6000 psi	AT312776	$51.94
Pressure Gauge	43 psi Bypass 1/8"NPT	A041362	$29.47
Set of Seals	For Agitator Motor	502156	$145.95

9.6 TK 40

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	A052274	$223.42
Solenoid Coil	12V NG6	Common	267378009	$154.42
Replacement Fan for Hydraulic Oil Cooler	12V	Common	A519887	$391.84
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052482	$82.68
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	D150mm x 1000mm		081123003	$1,428.24
Delivery Piston Seal	D150mm		056839005	$213.29
Delivery Piston Guide Ring	D130mm x 150mm x 20.5mm		019447007	$25.44
S-Valve	S1512		430336	$4,245.79
Thrust Ring	D150mm x 181mm x 29mm NBR		430378	$33.06
Spacer Ring	D181mm/150mm x 2mm		430379	$20.23
Wear Ring	ND150ZI180		430408	$197.25
Spectacle Wear Plate	D150/160 DURO 22		430406	$699.51
Bearing Flange	D40mm close complete		220229001	$153.81
Bearing Flange	D60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Right hand side D60mm x 230mm		288387008	$289.22
Mixer Shaft	Central D45mm x 700mm x 670mm		256554009	$161.06
Washer	D9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand for Hopper RS 487		523599	$107.55
Mixer Paddle	Right hand for Hopper RS 487		523605	$107.55
Mixer Shaft	Left hand side 45mm x 195mm		050755004	$176.88
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	D50mm x 60mm M8mm x 26mm		019011006	$8.16
Round Cord	D15mm NBR70		233915001	$40.42/meter

9 THOM-KATT® TRAILER PUMP

9.7 TK 50

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Oil Filter	Deutz TCD2012L042V(m)	A950166	$35.30
Fuel Filter	Deutz TCD2012L042V(m)	A950169	$29.89
Fuel Filter Element	Deutz TCD2012L042V(m)	A950093	$86.50
Air Filter Element, Primary	Deutz TCD2012L042V(m)	A950154	$115.49
Air Filter Element, Secondary	Deutz TCD2012L042V(m)	A950167	$64.26
Rain Cap Air Filter	Deutz TCD2012L042V(m)	A950158	$41.60
Muffler	Deutz TCD2012L042V(m)	A950104	$559.29
Elbow Exhaust Stack	3" 85°	A508698	$93.37
Fuel Cap Diesel with Gauge		A017047	$29.89
Throttle Control Cable	80" long	A016006	$124.57
Pumps			
Hydraulic Pump - Main	HA10VO100	A012031	$3,781.06
Hydraulic Pump - Accumulator/ Agitator	R 11 SAE A 9T AZP	A013023	$381.79
Hydraulic Components			
Valve Flow Control		AT311936	$394.69
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Filter Element	Beta Synthetic	AT311660	$86.87
Filler Breather Cap		AT311937	$57.34
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	3000 psi	AT312777	$51.58
Pressure Gauge	6000 psi	AT312776	$51.94
Pressure Gauge	43 psi Bypass 1/8"NPT	A041362	$29.47
Set of Seals	For Agitator Motor	502156	$145.95

9.7 TK 50

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	A052274	$223.42
Solenoid Coil	12V NG6	Common	267378009	$154.42
Replacement Fan for Hydraulic Oil Cooler	12V	Common	A519887	$391.84
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052482	$82.68
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	150mm x 1000mm		081123003	$1,428.24
Delivery Piston Seal	150mm		056839005	$213.29
Delivery Piston Guide Ring	130mm x 150mm x 20.5mm		019447007	$25.44
S-Valve	S1512		430336	$4,245.79
Thrust Ring	150mm x181mm x 29mm NBR		430378	$33.06
Spacer Ring	181mm/150mm x 2mm		430379	$20.23
Wear Ring	ND150ZI180		430408	$197.25
Spectacle Wear Plate	150mm/160mm DURO 22		430406	$699.51
Bearing Flange	40mm closed complete		220229001	$153.81
Bearing Flange	60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Right hand side D60mm x 230mm		288387008	$289.22
Mixer Shaft	Central D45mm x 700mm x 670mm		256554009	$161.06
Washer	9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand for Hopper RS 487		523599	$107.55
Mixer Paddle	Right hand for Hopper RS 487		523605	$107.55
Mixer Shaft	Left hand side D45mm x 195mm		050755004	$176.88
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	50mm x 60mm M8mm x 26mm		019011006	$8.16
Round Cord	15mm NBR70		233915001	$40.42/meter

9 THOM-KATT® TRAILER PUMP

9.8 TK 60 HP

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Fuel Filter	Deutz TCD2012L042V	A950170	$148.38
Oil Filter	Deutz TCD2012L042V	A950166	$35.30
Fuel Filter Water Element	Deutz TCD2012L042V	A950172	$269.63
Air Filter Element, Primary	Deutz TCD2012L042V	A950154	$115.49
Air Filter Element, Secondary	Deutz TCD2012L042V	A950167	$64.26
Muffler	Deutz TCD2012L042V	A950104	$559.29
Elbow Exhaust Stack	3" 85°	A508698	$93.37
Rain Cap Air Filter	Deutz TCD2012L042V	A950158	$41.60
Fuel Cap Diesel with Gauge		A017047	$29.89
Pumps			
Hydraulic Pump - Main	K3VL140	A012068	$5,230.33
Hydraulic Pump - Accumulator/ Agitator	R 11/8 SAE A 9T AZP	A013024	$797.38
Hydraulic Components			
Valve Flow Control		AT311936	$394.69
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Filter Element	Beta Synthetic	AT311660	$86.87
Filler Breather Cap	5 psi	A029188	$44.32
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	3000 psi	AT312777	$51.58
Pressure Gauge	6000 psi	AT312776	$51.94
Pressure Gauge	43 psi Bypass 1/8"NPT	A041362	$29.47
Set of Seals	For Agitator Motor	502156	$145.95

9.8 TK 60 HP

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	A052274	$223.42
Solenoid Coil	12V NG6	Common	267378009	$154.42
Replacement Fan for Hydraulic Oil Cooler	12V	Common	A519887	$391.84
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052722	$40.90
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	Deutz	Without EGD	471007	$1,356.10
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	150mm x 1000mm		081123003	$1,428.24
Delivery Piston Seal	150mm		056839005	$213.29
Delivery Piston Guide Ring	130mm x 150mm x 20.5mm		019447007	$25.44
S-Valve	S1512		430336	$4,245.79
Thrust Ring	150mm x 181mm x 29mm NBR		430378	$33.06
Spacer Ring	181mm/150mm x 2mm		430379	$20.23
Wear Ring	ND150ZI180		430408	$197.25
Spectacle Wear Plate	150mm/160mm DURO 22		430406	$699.51
Bearing Flange	40mm closed complete		220229001	$153.81
Bearing Flange	60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Right hand side D60mm x 230mm		288387008	$289.22
Mixer Shaft	Center D45mm x 700mm x 670mm		256554009	$161.06
Washer	9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand side for Hopper RS 487		523599	$107.55
Mixer Paddle	Right hand side for Hopper RS 487		523605	$107.55
Mixer Shaft	Left hand side D45mm x 195mm		050755004	$176.88
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	50mm x 60mm M8mm x 26mm		019011006	$8.16
Round Cord	15mm NBR70		233915001	$40.42/meter

9 THOM-KATT® TRAILER PUMP

9.9 TK 70

ITEM	DESCRIPTION	PART NUMBER	PRICE
Engine			
Oil Filter	Deutz TCD2012L042V (m)	A950166	$35.30
Fuel Filter	Deutz TCD2012L042V (m)	A950169	$29.89
Fuel Filter Element, Primary	Deutz TCD2012L042V (m)	A950093	$86.50
Air Filter Element, Secondary	Deutz TCD2012L042V (m)	A950154	$115.49
Air Filter Element	Deutz TCD2012L042V (m)	A950167	$64.26
Rain Cap Air Filter	Deutz TCD2012L042V (m)	A950158	$41.60
Muffler	Deutz TCD2012L042V (m)	A950104	$559.29
Elbow Exhaust Stack	3" 95°	A508698	$93.37
Fuel Cap Diesel with Gauge		A017047	$29.89
Throttle Control Cable	80" long	A016006	$124.57
Pumps			
Hydraulic Pump - Main	K3VL140	A012067	$6,200.03
Hydraulic Pump - Accumulator/ Agitator	R 11/8 SAE A 9T AZP	A013024	$797.38
Hydraulic Components			
Valve Flow Control		AT311936	$394.69
Bladder Kit Hydac with Seal Set	For Accumulator AT311944	AT311945	$285.28
Seal Kit	For Plunger Cylinder D160mm x 60mm	A262840008SK	$393.91
Filter Element	Beta Synthetic	AT311660	$86.87
Filler Breather Cap	5 psi	A029188	$44.32
Oil Level Gauge with Thermometer		AT311934	$104.83
Thermometer	For AT311934	AT312763	$62.04
Pressure Gauge	3000 psi	AT312777	$51.58
Pressure Gauge	6000 psi	AT312776	$51.94
Pressure Gauge	43PSI Bypass 1/8"NPT	A041362	$29.47
Set of Seals	For Agitator Motor	502156	$145.95

9.9 TK 70

ITEM	DESCRIPTION	INFORMATION	PART NUMBER	PRICE
Electrical				
Proximity Switch	M12mm x 1mm 10-32VDC	Common	270321001	$357.77
Harness Emergency Stroke Change		Common	A052274	$223.42
Solenoid Coil	12V NG6	Common	267378009	$154.42
Replacement Fan for Hydraulic Oil Cooler	12V	Common	A519887	$391.84
Vibrator	12VDC 3000RPM with Plug Fc=100KG	Common	459826	$677.92
Hopper Grate Switch	230V 4A Special	Common	452208	$136.00
Key, Switch Complete	With 2 Keys	Without EGD	A052482	$82.68
Engine Gauge	RPM	Without EGD	A052484	$295.22
Engine Temperature Gauge	120-300F	Without EGD	A052939	$202.34
Relay	12V Changeover, Black	Without EGD	065033009	$21.20
Relay	12V Mini 111	Without EGD	066638005	$15.65
Relay	12V Stepping	Without EGD	278494008	$93.73
Relay	12V K238	Without EGD	247108008	$43.28
Diode	Zener	Without EGD	454588	$1.79
Display	EGD	With EGD	528072	$1,573.89
Relay	12V 8A K97	With EGD	602154	$145.12
Relay	12V 30/50A SPDT with Diode	With EGD	A628363	$24.02
Relay	12V 70A SPNO with Resistor	With EGD	A628364	$29.61
Relay	12V 12A SPDT with Diode	With EGD	A628365	$32.89
Wear Parts				
Delivery Cylinder	180mm x 1000mm		088358004	$1,744.45
Delivery Piston Seal	180mm		056720004	$146.60
Delivery Piston Guide Ring	180mm		056123009	$33.44
S-Valve	S1812		410287	$3,103.57
Thrust Ring			249304004	$99.14
Wear Ring	ND180ZI200		251231000	$198.53
Spectacle Wear Plate	170mm/160mm DURO22 RS487A		444384	$625.82
Bearing Flange	40mm closed complete		220229001	$153.81
Bearing Flange	60mm open with O-Ring		242572008	$102.43
Mixer Shaft	Right hand side D60mm x 230mm		288387008	$289.22
Mixer Shaft	Central D45mm x 700mm x 670mm		256554009	$161.06
Washer	9mm x 55mm x 12mm		055916000	$4.70
Mixer Paddle	Left hand for Hopper RS 487		523599	$107.55
Mixer Paddle	Right hand for Hopper RS 487		523605	$107.55
Mixer Shaft	Left hand side D45mm x 195mm		050755004	$176.88
Rubber Buffer	For Hopper Grate		432235	$21.93
Rubber Buffer	50mm x 60mm M8mm x 6mm		019011006	$8.16
Round Cord	15mm NBR70		233915001	$40.42/meter

9 THOM-KATT® TRAILER PUMP

10
SHOTCRETE

10.1 BRASS NOZZLE BODIES

DRY-PROCESS

Putzmeister's original brass nozzle body includes a brass ell, 3/8-inch (10mm) globe valve, brass water ring, nut and tail piece. The standard round threads are the same as hose couplings and nozzle tips which allow complete interchangeability.

SIZE	NOZZLE BODY PART	PRICE	WATER RING PART	PRICE	ELL PART	PRICE	NUT & TAIL PIECE PART	PRICE	RUBBER WASHER PART	PRICE	3/8" GLOBE VALVE PART	PRICE	COMPLETE ASSEMBLY PART	PRICE
1-1/4" (32mm)	AST23552	$110.27	AST23553	$12.03	AST23549	$5.88	AST23550	$16.61	AST23554	$1.44	AST70069	$19.74	AST23712	$213.74
1-1/2" (38mm)	AST23555	$104.21	AST23556	$10.39	AST23549	$5.88	AST23550	$16.61	AST23557	$1.44	AST70069	$19.74	AST23713	$212.01
1-5/8" (41mm)	AST23558	$109.76	AST23559	$12.99	AST23549	$5.88	AST23550	$16.61	AST23557	$1.44	AST70069	$19.74	AST23714	$215.12

Note: Brass nozzle bodies can be used with the swivel-type hose couplings with the use of Parts AST23308 Nozzle Body Adapter

10.2 SWIVEL NOZZLE BODIES

DRY-PROCESS

Putzmeister's lightweight Swivel Nozzle Body includes zinc/aluminum alloy casting with straight pipe nipple for water line, 3/8-inch (10mm) globe valve and brass water ring. The body fits on swivel couplings and uses the same water rings and nozzle tips as the Putzmeister Brass Nozzle Bodies.

SIZE	NOZZLE BODY PART	PRICE	WATER RING PART	PRICE	RUBBER WASHER PART	PRICE	PIPE 3/8" NIPPLE PART	PRICE	GLOBE VALVE PART	PRICE	NUT & TAIL PIECE PART	PRICE	COMPLETE ASSEMBLY PART	PRICE
1-1/4" (32mm)	AST23209	$93.20	AST23553	$12.03	AST23212	$1.44	AST62023	$1.44	AST70069	$19.74	AST23550	$16.61	AST23777	$184.82
1-1/2" (38mm)	AST23210	$77.92	AST23556	$10.39	AST23213	$2.64	AST62023	$1.44	AST70069	$19.74	AST23550	$16.61	AST23778	$193.72
1-5/8" (41mm)	AST23211	$110.69	AST23559	$12.99	AST23214	$3.97	AST62023	$1.44	AST70069	$19.74	AST23550	$16.61	AST23779	$201.31
2" (51mm) Ridley	AST23829	$24.75	AST23856	$12.43	AST76487	$2.09	AST62036	$1.87	AST70073 1/2" (13mm)	$21.44	AST23233	$34.44	AST23858	$152.80

10.3 DOUBLE BUBBLE NOZZLE TIP

DRY-PROCESS

The dry-process Double Bubble Nozzle Tip provides excellent wetting by to restriction and expansion chambers. This nozzle tip can be bent at a 45° angle by the nozzleman for close shooting and holds material in a close pattern while reducing rebound. Its adapter fits into nozzle body sizes 1- through 1-5/8-inches (25 through 41mm).

ITEM	PART NUMBER	PRICE
Black Double Bubble Tip	AST23589	$29.66
Adapter	AST23590	$57.79
Nozzle Body Washer	AST23557	$1.44
1" (25mm) Double Bubble Tip	AST23847	$55.61

10.4 HAMM TIPS AND LINERS

DRY-PROCESS

Putzmeister's cast aluminum Hamm Nozzle Tips are manufactured with pure gum rubber liners and are the most widely used for all types of dry-process shotcrete work. The 2-inch (51mm) tip fits 2-inch (51mm) nozzle body.

ITEM	TIP PART	PRICE	LINER PART	PRICE
1" (25mm)	AST23571	$57.96	AST23572	$11.21
1-1/4" (32mm)	AST23573	$48.62	AST23574	$11.74
1-1/2" (38mm)	AST23575	$44.13	AST23576	$12.83
1-5/8" (41mm)	AST23577	$47.02	AST23578	$15.56
2" (51mm)	AST23230	$82.32	AST23231	$67.71
Ridley Boomer	AST23832	$33.74	AST23835	$27.51

10.5 SPIROLET NOZZLE TIPS

DRY-PROCESS

Dry-process Spirolet Nozzle Tips are made with a red abrasion-resistant urethane one-piece nozzle tip with rifling inside. This produces the most concentrated pattern on the surface of any nozzle tip. The 1-1/4-inch (32mm) and 1-3/8-inch (35mm) tips fit 1-through 1-5/8-inches (25 through 41mm) nozzle bodies. The 2-inch (51mm) tip fits the Ridley body.

ITEM	PART NUMBER	PRICE
1-1/4" (32mm)	AST23591	$132.56
1-3/8" (35mm)	AST23592	$117.33
2" (51mm)	AST23259	$248.48

10.6 SPECIAL TIPS AND LINERS

DRY-PROCESS

Putzmeister offers special tapered brass tips with pure gum rubber liners. The 1/2-inch (13mm) tips are used for wet sandblasting and the 1-inch (25mm) tapered tips are popular for refractory work and are also sold threaded on the discharge end for pipe lance extension. These tips fit 1-1/4-through 1-5/8-inches (32 through 41mm), nozzle bodies only.

ITEM	TIP PART	PRICE	LINER PART	PRICE
1" (25mm) Long #977	AST23566	$86.36	AST23110	$12.79
1" (25mm) Long with Threaded Outlet	AST23567	$45.07	AST23110	$12.79

10.7 HYDRO-MIX NOZZLES

DRY-PROCESS

Ideal for use when pre-dampening isn't practical, a 30-inch (762 mm) or longer hose extension between nozzle body and nozzle tip allows for more complete wetting and material mixing. This nozzle normally has a Hamm tip and nozzle but others will fit the same threads. Certain materials require even more wetting than the single nozzle body hydro-mix.

Various combinations of one or two nozzle bodies are employed, either close-coupled or as far as 10 feet (3m) apart. Occasionally, the second nozzle body is used for liquid admixtures. Alloy nozzle bodies and 2-inch (51mm) sizes are available. The longer version shows water valve extension close to the nozzle and nozzle body farther back, for additional wetting.

SIZE	HYDRO-MIX SIZE	COMPLETE ASSEMBLY PART	PRICE
1-1/4" (32mm)	30" (762mm)	AST23741	$374.31
1-1/2" (38mm)	30" (762mm)	AST23743	$519.19
1-1/2" (38mm) Swivel Body	30" (762mm)	AST23755	$546.50
1-1/2" (38mm) Vesuvius Special	30" (762mm)	AST76500	$756.42
1-1/2" (38mm) Aluminum Swivel Body	96" (2,438mm)	AST76011	$906.91
1-1/2" (38mm) Brass APG Body	96" (2,438mm)	AST76012	$1,121.30
1-5/8" (41mm)	30" (762mm)	AST23744	$527.05
2" (51mm)	30" (762mm)	AST23745	$388.53
2" (51mm)	96" (2,438mm)	AST76010	$546.96

10.8 CONCRETE PLACING HEADS

DRY-PROCESS

Putzmeister's unique dry-process Concrete Placing Head allows you to turn a dry-process gunning system into a wet-process placing system. Installed after the nozzle body, it has a series of baffles and spiral blades which dissipate the air velocity and allow wet mix to flow out the end. It can also be used as a conveying head to place anything from sand to 1-inch (25mm) size aggregate. The threaded end of the placing head couples to the nozzle body.

HOSE SIZE	MODEL 500 COMPLETE PART	PRICE	MAIN BODY PART	PRICE	BAFFLE PLATE PART	PRICE	WEDGE PART	PRICE
1-1/2" and 1-5/8" (38mm and 41mm)	AST23747	$783.80	AST23109	$468.42	AST23103	$101.81	AST23102	$4.04
2" (51mm)	AST23753	$846.69	AST23109	$468.42	AST23103	$101.81	AST23102	$4.04

10.9 90° NOZZLE

DRY-PROCESS

Putzmeister's dry-process 90° Nozzle is ideal for tight quarters. Its high strength aluminum alloy nozzle body comes complete with a water ring, 3/8-inch (10mm) globe valve, nut and tail piece. The 90° Nozzle's tip is aluminum and the liner is rubber.

ITEM	PART NUMBER	PRICE
Nozzle Body Part	AST23587	$297.52
Water Ring Part	AST23586	$54.23
3/8" Globe Valve Part	AST70069	$19.74
Nozzle Tip Part	AST23584	$141.66
Nozzle Liner Part	AST23585	$16.21
Ell Part	AST23549	$5.88
Tail Piece Part	AST23550	$16.61
Complete Assembly Part	AST23722	$573.27
1-1/4" Hose Fitting Part	AST23267	$85.94
1/2" Hose Fitting Part	AST23254	$213.52

10.10 BRASS HOSE COUPLINGS

DRY-PROCESS

A standard for more than 85 years, Putzmeister's Brass Hose Couplings use rounded threads for ease of installation and compact design to avoid catching when a hose is pulled around a job site.

ITEM	PART NUMBER	PRICE
Female Half Parts		
1" (25mm)	AST23513	$92.40
1-1/4" (32mm)	AST23517	$59.70
1-1/2" (38mm)	AST23519	$80.16
1-5/8" (41mm)	AST23521	$59.74
Male Half Parts		
1"(25mm)	AST23514	$61.87
1-1/4" (32mm)	AST23518	$61.87
1-1/2" (38mm)	AST23520	$61.87
1-5/8" (41mm)	AST23522	$89.07
Coupling Parts		
1-1/4" (32mm)	AST23702	$142.83
1-1/2" (38mm)	AST23703	$167.65

10.11 SWIVEL HOSE COUPLINGS

DRY-PROCESS

Putzmeister's Swivel Hose Couplings are a popular coupling choice. They offer a union-style swivel nut and male and female sleeves made from strong, lightweight zinc/aluminum alloy. The Swivel Hose Couplings are not available for 1-inch (25mm) hose.

ITEM	PART NUMBER	PRICE
Female Half Parts		
1-1/4" (32mm)	AST23203	$29.02
1-1/2" (38mm)	AST23204	$40.18
1-5/8" (41mm)	AST23205	$34.77
2" (51mm)	AST23853	$12.48
Male Half Parts		
1-1/4" (32mm)	AST23200	$51.17
1-1/2" (38mm)	AST23201	$42.25
1-5/8" (41mm)	AST23202	$51.17
2" (51mm)	AST23852	$15.65
Swivel Nut Parts		
1-1/4" (32mm)	AST23206	$61.87
1-1/2" (38mm)	AST23206	$61.87
1-5/8" (41mm)	AST23206	$61.87
2" (51mm)	AST23850	$13.99
Coupling Assembly Part		
1-1/4" (32mm)	AST23770	$149.23
1-1/2" (38mm)	AST23771	$145.01
1-5/8" (41mm)	AST23772	$122.84
2" (51mm)	AST23866	$80.81

10.12 FLANGED COUPLINGS

DRY-PROCESS

Putzmeister's Flanged Couplings have a snap coupling and gasket that complete the connection. Rotary guns like the Piccola and GRH-610 feature a flanged outlet.

ITEM	FLANGED HOSE END PART	SNAP COUPLING WITH GASKET PART	GASKET PART	PRICE
1" (25mm)	AST23633	2" (51mm) coupling, AST23128	2" (51mm) gasket, AST23129	$44.44
1-1/4" (32mm)	AST23634	3" (76mm) coupling, AST23631	3" (76mm) gasket, AST23632	$63.27
1-1/2" (38mm)	AST23636	3" (76mm) coupling, AST23631	3" (76mm) gasket, AST23632	$62.38
1-5/8" (41mm)	AST23637	3" (76mm) coupling, AST23631	3" (76mm) gasket, AST23632	$84.69
2" (51mm)	AST23630	3" (76mm) coupling, AST23631	3" (76mm) gasket, AST23632	$40.85
2-1/2" (64mm)	AST23627	4" (102mm) coupling, AST23625	4" (102) gasket, AST23624	$84.11

10.13 MATERIAL HOSE

DRY-PROCESS

This top-quality mandrel-made dry-process hose represents a major breakthrough in hose manufacturing techniques and has a much longer expected life than any competitive hose. The combination of carcass material and braiding technique provides the greatest amount of internal pure gum rubber tube possible in each size. Static build-up is reduced by the use of copper wire and conductive rubber cover.

SIZE	OUTSIDE DIAMETER	TUBE THICKNESS	BRAIDS	BRASS COUPLINGS PART	PRICE	SWIVEL COUPLINGS PART	PRICE	WITHOUT COUPLINGS PART	PRICE
1" (25mm)	1-21/32" (42mm)	9/32" (7mm) tan gum	1	AST23716	$664.22	-		AST23500	$487.88
1-1/4" (32mm)	2-1/8" (54mm)	23/64" (9mm) tan gum	1	AST23717	$1,067.84	AST23773	$951.67	AST23501	$535.41
1-1/2" (38mm)	2-11/32" (60mm)	11/32" (9mm) tan gum	1	AST23719	$1,142.63	AST23775	$1,094.19	AST23503	$936.29
1-1/2" (38mm) Yellow Stripe	2-11/32" (60mm)	9/32" (7mm) black SBR	2	AST76119	$930.34	AST76128	$881.90	AST76117	$723.99
1-5/8" (41mm)	2-13/32" (61mm)	5/16" (8mm) tan gum	1	AST23720	$1,144.37	AST23776	$1,144.10	AST23504	$956.86
2" (51mm) Red Stripe	2-15/16" (75mm)	11/32" (9mm) tan gum	2	-		AST23783	$993.21	AST23241	$912.40
2" (51mm) Blue Stripe	2-15/16" (75mm)	11/32" (9 mm) tan gum	2	-		AST23785	$988.39	AST23242	$907.58
2-1/2" (64mm) Yellow Stripe	3-1/2" (89mm)	9/32" (7mm) black SBR	2	-		-		AST76116	$789.85

10.14 AIR AND WATER HOSE

DRY-PROCESS

Putzmeister's dry-process Air and Water Hoses are high-pressure hoses with fabric braided construction, neoprene tube and red cover. The 2-inch (51mm) bull air hose is industrial grade and steel braided.

ITEM	PART NUMBER	PRICE
1/2" x 50' (13mm x 15m) Water - NPT Threads	AST23507	$105.78
1/2" x 50' (13mm x 15m) - Accelerator Hose	AST23701	$225.89
3/4" x 50' (19mm x 15m) - 2-lug Chicago	AST23508	$109.45
1-1/2" x 50' (38mm x 15m) Air - Spud	AST23511	$537.78
2" x 25' (51mm x 8m) bull Air - Spud	AST23647	$505.56
2" x 50' (51mm x 15m) bull Air - Spud	AST23657	$936.13

10.15 SHOTCRETE NOZZLE TIPS

WET-PROCESS

Putzmeister Shotcrete Nozzle Tips come in a variety of sizes for your shotcrete application needs.

ITEM	PART NUMBER	PRICE
1" (25mm) Standard Tip	AST50104	$56.03
1-1/4" (32mm) HP Tip	AST76719	$82.63
Worm Clamp for 1-1/4" (32mm) & 1-5/8" (41mm) HP	AST76364	$2.60
1-1/2" (38mm) Nozzle Tip (Soft)	AST23687	$23.62
1-1/2" (38mm) Nozzle Tip (Hard)	AST23687R	$36.30
1-1/2" (38mm) Seal Kit for Acme Nozzle	AST23673	$9.99
1-5/8" (41mm) HP Tip (fits Meyco 3" (65mm))	AST76718	$85.91
2" (51mm) Nozzle Tip (Soft)	AST23681	$24.86
2" (51mm) Nozzle Tip (Hard)	AST23674	$24.86
2" (51mm) Seal Kit for Acme Nozzle	AST23676	$9.97
2" (51mm) Meyco Shotcrete Nozzle Tip	AST50003	$276.50
Worm Clamp for 2" (51mm) Acme	AST23309	$2.15

10.16 MORTAR NOZZLE TIPS

WET-PROCESS

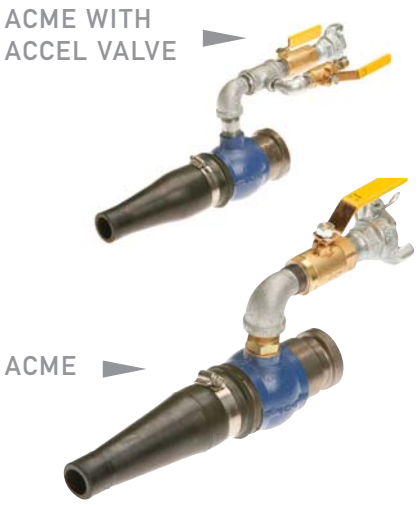
ITEM	PART NUMBER	PRICE
7/16" (11mm) Stamped Metal	AT910060	$2.15
1/2" (12mm) Diameter Hole	AT910055	$2.15
9/16" (14mm) Diameter Hole	AT910056	$2.15
5/8" (16mm) Diameter Hole	AT910057	$2.15
11/16" (17mm) Diameter Hole	AT910058	$2.15
3/4" (19mm) Diameter Hole	AT910059	$2.15
Rubber Cap for Nozzle	AT309094	$2.01

10.17 SHOTCRETE NOZZLES

WET-PROCESS

Putzmeister's wet-process Shotcrete Nozzles have air rings that offer you maximum air volume to break up material and instantaneously generate high velocity. Shotcrete Nozzles can also be plumbed for chemical dosing into the air flow.

ITEM	END	PART	PRICE
1" (25mm) Shotcrete Nozzle Assembly	-	AST50700	$303.70
1-1/2" (38mm) Shotcrete Nozzle with accel valve (Acme)	HD	AST23707	$345.83
1-1/2" (38mm) Shotcrete Nozzle without Accel Valve (Acme)	HD	AST23709	$312.47
2" (51mm) Shotcrete Nozzle (Acme)	HD	AST23725	$359.53
2" (51mm) Shotcrete Nozzle with Accel Valve (Acme)	HD	AST23729	$369.99



10.18 MORTAR AND PLASTER NOZZLES

WET-PROCESS

The Putzmeister Browning and Finishing Nozzles are for use with Tommy Gun® A3, S5 Series and Big Blue PVT-710 mortar machines. These wet-process nozzle assemblies withstand demanding conditions.

ITEM	END	PART	PRICE
S5 GH and EV 1" (25 mm) Finishing (fireproofing units)	Nozzle Assembly	A126110	$165.58
S5 EV 1" (25 mm) Finishing	Remote Control	AT135723	$309.77
S5 EV 1" (25 mm) Finishing	Nozzle Assembly	A126110	$165.58
A3 1" (25 mm) Finishing	Remote Control	AT108285	$221.74
A3 1" (25 mm) Finishing	Nozzle Assembly	A126110	$165.58
A3 1-¼" (32 mm) Browning	Nozzle Assembly	A126111	$169.31
PTV 1-¼" (32 mm) Browning	Nozzle Assembly w/Remote	AT136475	$381.84
Flexible Mortar Nozzle 20 M/M		001330009	$1.90
Flexible Mortar Nozzle 18 MM		001329007	$6.85

10.19 HP SHOTCRETE NOZZLES

WET-PROCESS

The Putzmeister wet-process HP Shotcrete Nozzle is a specially constructed, two-part nozzle composed of a lightweight alloy head and a high density polyurethane tip. The head is compatible with all kinds of mixes used in various medium to large volume wet mix shotcreting applications. The tip can be changed to meet different mix design and volume applications. In addition, the HP Shotcrete Nozzle can be customized to meet your particular requirements.

ITEM	END	PART	PRICE
2" (51mm) HP Shotcrete Nozzle with 1-1/4" (32mm) tip	HD	AST76017	$762.38
2" (51mm) HP Shotcrete Nozzle with 1-5/8" (41mm) tip	HD	AST76016	$783.97
2-1/2" (64mm) HP Shotcrete Nozzle with 1-5/8" (41mm) tip	HD	AST24034	$798.71

10.20 MORTAR HOSE

WET-PROCESS

Wet-process Mortar Hose from Putzmeister is ideal for use with pumpable premixed dry mortars, plaster, site mixes, and more.

TECHNICAL INFORMATION

ITEM	END	PART	PRICE
ID 35, 43' 8" (13.3m) long	–	207615007	$520.53
ID 35, V 35/ V 25-40, 16' 5" (5m) long	–	207808005	$96.27
ID 25-40, 32' 10" (10m) long	–	207804009	$197.64

10.21 KLEBER PREMIUM HOSE

WET-PROCESS

Putzmeister's wet-process Kleber Premium Hose is the highest quality, steel-reinforced discharge hose available on the market today. Its high abrasion resistance gives extended service life and extreme flexibility provides easy handling. The hose is constructed of a robust structure to withstand heavy compressive loads and guarantee maximum safety. This hose is recommended for shotcrete and nozzling applications.

ITEM	END	PART	PRICE
1-1/2" x 25' (38mm x 8m)	HD-HD	AST23650	$748.23
1-1/2" x 50 (38mm x 15m)	HD-HD	AST23934	$974.92
2" x 10' (51mm x 3m)	HD-HD	AST23688	$559.91
2" x 25' (51mm x 8m)	HD-HD	AST23161	$893.07
2" x 50' (51mm x 15m)	HD-HD	AST23155	$1,646.50
2-1/2" x 25' (64mm x 8m)	HD-HD	AST23133	$1,442.29

KLEBER

SIZE*	WORKING PRESSURE (PSI) AR 4:1 SQ FT**	BURST PRESSURE (OBSERVED)	MANUFACTURER MINIMUM BURST PRESSURE
1-1/2" (38mm)	750 psi (52 bar)	2,750 psi (190 bar)	2,200 psi (152 bar)
2" (51mm)	600 psi (41 bar)	2,725 psi (188 bar)	1,850 psi (128 bar)
2-1/2" (64mm)	750 psi (52 bar)	2,400 psi (166 bar)	2,200 psi (152 bar)
3" (76mm)	600 psi (41 bar)	2,312 psi (159 bar)	1,850 psi (128 bar)

* Contact factory for additional Kleber Premium Hose sizes.
** Putzmeister recommends the use of Hevi-Duty ends for longer service life and safety when pumping at high pressures.

Working pressure is based on minimum burst pressure values per manufacturer's specification. The appropriate high pressure couplings and weld ends must be used. Values are for current supplied product. Consult Putzmeister for specific applications. Failure/burst pressures are for new hose when installed and used properly.

10.22 STEEL WIRE-REINFORCED HOSE

WET-PROCESS

Putzmeister's wet-process Steel Wire-Reinforced Hose has a flexible steel ply construction allowing easy handling with a small bend radius, yet is extremely crush resistant. The outer cover is abrasion and weather resistant and the inner liner is constructed of smooth, synthetic rubber built to withstand the abrasive action of concrete. The Steel Wire-Reinforced Hose is recommended for pressure grouting and other high-pressure applications.

ITEM	END	PART	PRICE
2" x 25' (51mm x 8m)	HD-HD	A579263	$644.64
2" x 50' (51mm x 15m)	HD-HD	A579264	$1,044.48
2-1/2" x 25' (64mm x 8m)	HD-HD	A579268	$754.80
2-1/2" x 50' (64mm x 15m)	HD-HD	A579269	$1,217.88
3" x 10' (76mm x 3m)	HD-HD	A579270	$653.33
3" x 25' (76mm x 8m)	HD-HD	A579273	$991.44
4" x 10' (102mm x 3m)	HD-HD	A579280	$817.14
5" x 10' (127mm x 3m)	HD-HD	A579285	$983.28

STEEL WIRE-REINFORCED

SIZE*	WORKING PRESSURE (PSI) AR 4:1 SQ FT**	MANUFACTURER MINIMUM BURST PRESSURE
1-1/2" (38mm)	875 psi (60 bar)	2,650 psi (183 bar)
2" (51mm)	1,232 psi (85 bar)	2,900 psi (200 bar)
2-1/2" (64mm)	1,232 psi (85 bar)	2,900 psi (200 bar)
3" (76mm)	1,232 psi (85 bar)	2,900 psi (200 bar)
4" (102mm)	1,232 psi (85 bar)	2,900 psi (200 bar)
5" (127mm)	1,232 psi (85 bar)	2,900 psi (200 bar)

* Contact factory for additional Steel Wire-Reinforced Hose sizes.
** Putzmeister recommends the use of Hevi-Duty ends for longer service life and safety when pumping at high pressures.

10.23 FABRIC-REINFORCED HOSE

WET-PROCESS

Putzmeister's wet-process Fabric-Reinforced Hose is a superior quality discharge hose reinforced with multiple plies of synthetic cord. This hose's inner liner is manufactured of wear resistant natural rubbers and the outer cover provides weather and wear protection.

ITEM	END	PART	PRICE
1-1/2" x 25' (38mm x 8m)	HD-HD	A579304	$508.89
1-1/2" x 50' (38mm x 15m)	HD-HD	A579305	$768.89
2" x 25' (51mm x 8m)	HD-HD	A579310	$433.50
2" x 50' (51mm x 15m)	HD-HD	A579311	$674.49
2-1/2" x 25' (64mm x 8m)	HD-HD	A579315	$822.22
2-1/2" x 50' (64mm x 15m)	HD-HD	A579316	$1,326.67
3" x 10' (76mm x 3m)	HD-HD	A579317	$525.61
3" x 25' (76mm x 8m)	HD-HD	A579320	$882.96

FABRIC-REINFORCED

SIZE*	WORKING PRESSURE (PSI) AR 4:1 SQ FT**	MANUFACTURER MINIMUM BURST PRESSURE
1-1/2" (38mm)	800 psi (55 bar)	2,400 psi (166 bar)
2" (51mm)	800 psi (55 bar)	2,400 psi (166 bar)
2-1/2" (64mm)	800 psi (55 bar)	2,400 psi (166 bar)
3" (76mm)	666 psi (46 bar)	2,400 psi (166 bar)

* Contact factory for additional Fabric-Reinforced Hose sizes.
** Putzmeister recommends the use of Hevi-Duty ends for longer service life and safety when pumping at high pressures.

10.24 STANDARD REDUCERS

WET-PROCESS

Putzmeister's wet-process reducers are available as either hardened or non-hardened. Hardened reducers are heat treated to form a longer lasting reducer, and are recommended for highly abrasive products.

ITEM	END	PART	PRICE
2" x 1-1/2" x 18" (51mm x 38mm x 457mm)	HD-HD	AST23679	$203.53
2-1/2" x 2" x 28" (64mm x 51mm x 711mm)	HD-HD	AST23328	$184.70
2-1/2" x 2" x 35" (64mm x 51mm x 889mm)	HD-HD	AST23837	$275.00
3" x 2" x 28" (76mm x 51mm x 711mm)	HD-HD	AST23150	$268.64
3" x 2" x 28" (76mm x 51mm x 711mm)	HD-HD Hard	AST23152	$348.65
3" x 2" x 39" (76mm x 51mm x 1,000mm)	HD-HD	A558596	$689.87
3" x 2" x 53" (76mm x 51mm x 1,346mm)	HD-HD	AST23172	$418.43
3" x 2" x 53" (76mm x 51mm x 1,346mm)	HD-HD Hard	AST23153	$589.52
3" x 2" x 90° Elbow (76mm x 51mm x 90° Elbow)	HD-HD	AST23793	$321.68
3" x 2-1/2" x 28" (76mm x 64mm x 711mm)	HD-HD	AST23207	$294.53
3" x 2-1/2" x 28" (76mm x 64mm x 711mm)	HD-HD Hard	AST23193	$381.62
3" x 2-1/2" x 39" (76mm x 64mm x 1,000mm)	HD-HD	A558597	$704.73
4" x 3" x 28" (102mm x 76mm x711mm)	HD-HD	AST23149	$314.06
4" x 3" x 28" (102mm x 76mm x711mm)	HD-HD Hard	AST23151	$379.33
4" x 3" x 39" (102mm x 76mm x 1,000mm)	HD-HD Hard	A556506	$796.09
4" x 3" x 90° Elbow (102mm x 76mm x 90° Elbow)	HD-HD	AST23797	$367.57
5" x 2" x 36" (127mm x 51mm x 914mm)	HD-HD	AST23857	$610.00
5" x 3" x 28" (127mm x 76mm x 711mm)	HD-HD	AST76448	$482.52
5" x 3" x 90° Elbow (127mm x 76mm x 90° Elbow)	HD-HD	AST23799	$471.62
5" x 4" x 39" (127mm x 102mm x 1,000mm)	HD-HD	A558600	$608.47
5" x 4" x 39" (127mm x 102mm x 1,000mm)	HD-HD Hard	A556508	$859.36
5" x 4" x 90° Elbow (127mm x 102mm x 90° Elbow)	HD-HD	AST23791	$481.01

10.25 STEEL PIPELINE

WET-PROCESS

Putzmeister's wet-process Steel Pipeline is available in 2 and 3-inch (51 and 76mm) inside diameters, with Heavy-Duty (raised) ends in 11 gauge steel. Available in 5- and 10-foot (2 and 3m) lengths, the pipe and tube bends can be supplied in any degree of angle, various wall thicknesses and internal diameter sizes from 2 through 5 inches (51 through 127mm). Reducing elbows and bends with attached brackets are available for special applications.

ITEM	DESCRIPTION	END	PART	PRICE
2" x 10' (51mm x 3m)	Straight	HD-HD	A527369	$117.96
2" x 45° (51mm x 45°)	Elbow 48" (1,219mm) radius	HD-HD	A531775	$272.86
2" x 90° (51mm x 90°)	Elbow 48" (1,219mm) radius	HD-HD	A531774	$336.22
3" x 10' (76mm x 3m)	Straight	HD-HD	A527371	$130.00
3" x 45° (76mm x 45°)	Elbow 16" (406mm) radius	HD-HD	A531785	$296.02
3" x 45° (76mm x 45°)	Elbow 48" (1,219mm) radius	HD-HD	A531783	$431.82
3" x 90° (76mm x 90°)	Elbow 16" (406mm) radius	HD-HD	AST23177	$260.18
3" x 90° (76mm x 90°)	Elbow 48" (1,219mm) radius	HD-HD	AST23334	$596.82
4" x 10' (102mm x 3m)	Straight	HD-HD	A529074	$102.34
4" x 45° (102mm x 45°)	Elbow 16" (406mm) radius	HD-HD	A529069	$459.80
4" x 90° (102mm x 90°)	Elbow 16" (406mm) radius	HD-HD	A529067	$477.50
5" x 90° (127mm x 90°)	Elbow 24" (609mm) radius	HD-HD	A534135	$283.67

10.26 REDUCERS AND PIPELINE

WET-PROCESS

A part of Putzmeister's Special Accessory line, the Y Reducer, Y Pipeline and Hammer Valve are all strong and long lasting.

ITEM	DESCRIPTION	END	PART	PRICE
2" (51mm)	Hammer Valve	HD-HD	AST23876	$416.25
3" (76mm)	Hammer Valve	HD-HD	AST23904	$720.99
3" (76mm)	Y Pipeline	HD-HD	AST23274	$687.60
4" x 3" (102mm x 76mm)	Y Reducer	HD-HD	AST23289	$1,469.13

10.27 ADAPTERS

WET-PROCESS

Adapters are a necessity on the job site, allowing you to join dissimilar end types. Putzmeister offers adapters from 1-1/2 through 3-inches (38 through 76mm) for all common end types. Compact and light, they make setup easy and fast.

ITEM	END	PART	PRICE
1-1/2" (38mm)	HD - Female NPT	AST23656	$91.82
1-1/2" (38mm)	HD - Male NPT	AST23651	$74.93
2" (51mm)	HD - Female NPT	AT305430	$63.52
2" (51mm)	HD - Male NPT	AST76337	$74.08
2-1/2" (64mm)	HD - Female NPT	AST23899	$91.67
2-1/2" (64mm)	HD - Male NPT	AST23280	$97.49
Swivel Joint 2" (51mm)	Male NPT	AST23272	$245.00

10.28 WELD-ON ENDS

WET-PROCESS

Weld-on ends are a critical link in the concrete delivery system. Putzmeister offers numerous types of ends in Heavy-Duty, Metric, Male/Female and Swivel configurations. Each one is machined on computer-controlled equipment from quality carbon steels.

ITEM	END	PART	PRICE
1-1/2" (38mm)	HD	AST23008	$40.36
2" (51mm)	HD	A527361	$32.84
2-1/2" (64mm)	HD	A527364	$36.30
3" (76mm)	HD	A527365	$36.30
4" (102mm)	HD	524054	$29.70
5" (127mm)	HD	524035	$31.25

10.29 FIXED SNAP COUPLINGS AND GASKETS WET-PROCESS

When joining your concrete piping system, protect your investment and your workers with field-proven Snap Couplings and Gaskets. Swivel couplings, specialty couplings, gaskets and replacement hardware for all couplings are also available.

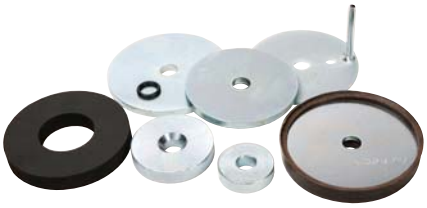
SIZE	END	CLAMP ONLY PART	PRICE	GASKET ONLY PART	PRICE	SAFETY PIN PART	PRICE
1-1/2" (38mm)	HD	AST23730	$54.08	AST23731	$7.59	AST23235	$1.95
2" (51mm)	HD	A531762	$47.84	A527010	$2.33	A581279	$2.12
2-1/2" (64mm)	HD	A531764	$49.20	A527009	$2.45	A581279	$2.12
3" (76mm)	HD	A522621	$46.47	A527008	$2.47	A581278	$2.12
4" (102mm)	HD	A531766	$56.04	A526533	$3.00	A581278	$2.12
5" (127mm)	HD	A531767	$77.52	A522711	$3.55	A581278	$2.12

10.30 ADJUSTABLE SNAP COUPLINGS AND GASKETS WET-PROCESS

SIZE	END	CLAMP ONLY PART	PRICE	GASKET ONLY PART	PRICE	SAFETY PIN PART	PRICE
2" (51mm)	HD	A531768	$49.20	A527010	$2.33	A581279	$2.12
2-1/2" (64mm)	HD	A547997	$50.57	A527009	$2.45	A581279	$2.12
3" (76mm)	HD	A522620	$51.06	A527008	$2.47	A581278	$2.12
4" (102mm)	HD	A523211	$55.43	A526533	$3.00	A581278	$2.12
5" (127mm)	HD	A522619	$58.77	A522711	$3.55	A581278	$2.12

10.31 PISTON KIT 3.5"

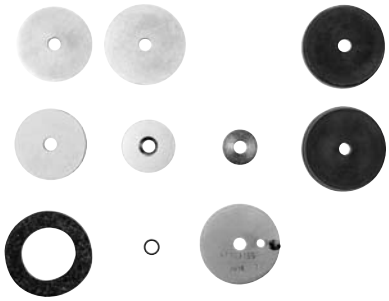
ITEM	DESCRIPTION	PART NUMBER	PRICE
Piston Kit - 3.5"	**3-1/2" one cylinder**	**AT103850K**	
Oiler Felt Spacer		AT103150	$9.13
Washer Neoprene	80.77OD x 38.1ID x 1/2	AT103151	$7.26
Washer	80.77OD x 12.83ID	AT103152	$6.95
Washer	87.12OD x 12.83ID x 1/4"	AT103153	$6.38
Spacer	38.1OD x 13ID x .406"	AT103154	$2.34
Plate Oiler		AT103155	$24.06
Washer	88.9OD x 7.2ID x 7.16"	AT103156	$1.44
Washer	76.2OD x 12.83ID x 1/4"	AT103157	$6.66
O-Ring	3/32 x 1/2ID	AT311010	$1.44
Leather Piston Cup	3-1/2"	AT311307	$8.23
Piston Cup		AT309564	$13.07



10.32 PISTON KIT 3.75"

ITEM	DESCRIPTION	PART NUMBER	PRICE
Piston Kit - 3.75"	**3-3/4" one cylinder**	**AT136076K**	
Oiler Felt Spacer		AT103150	$9.13
Spacer	38.1OD x 13ID x .406"	AT103154	$2.34
Plate Oiler		AT103155	$24.06
Washer Neoprene	87.12OD x 38.1ID x 1/2"	AT133817	$4.24
Washer	95.3OD x 57.2ID x 7/16"	AT133818	$1.62
Washer	87.12OD x 12.83ID x 10GA	AT133819	$10.31
Washer	82.55OD x 12.83ID x 1/4"	AT133821	$12.00
Washer	93.47OD x 12.83ID x 1/4"	AT133822	$15.95
O-Ring	3/32 x 1/2ID	AT311010	$1.44
Leather Piston Cup	3-3/4"	AT311411	$8.23

10.33 P 30 PISTON KIT



ITEM	DESCRIPTION	PART NUMBER	PRICE
P30 Piston Kit		**AT200658K**	
Nut Flex Lock	3/4-10 ZP	AT302153	$6.76
Bushing Piston Cup		AT317550	$11.90
Face Plate	PM-1032	AT317557	$69.67
Piston Cup	6"	AT317556	$20.91
Bronze Ring		AT138799	$34.32
Oiler Felt		AT317844	$2.56
Ring and Felt Holder		AT138801	$24.51
O-Ring Special	1/2 x 5	AT311268	$9.45
Oiler Plate		AT138808	$99.12
O-Ring	3/32 x 11/16	AT311060	$1.44

10.34 P 30 BALL STOP KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
P 30 Ball Stop Kit		**A050026K**	
Jam Nut	3/4-16 PL.	AT302073	$1.44
Washer	0.755ID x 1.375OD 0.060T	AT302608	$1.44
O-Ring	3/32 x 11/16	AT311060	$1.44
Stud	3/4-16 UNF x 8" LG.	AT139118	$10.33

10.35 P 30 BEARING KIT

ITEM	DESCRIPTION	PART NUMBER	PRICE
P 30 Bearing Kit		**A050027K**	
O-Ring	568-331 PM-1093	AT317607	$1.44
Bearing Cone		AT316203	$62.12
Bearing Spacer		AT103141	$6.26
Bearing Bushing		AT103138	$12.21
Bearing Cup Double		AT316202	$225.55

10.36 PUMPING AGENT

WET-PROCESS

ITEM	DESCRIPTION	PART NUMBER	PRICE
Kleen-Krete®	5 gal bucket, non-diluted liquid	AST23021	$181.82
Kleen Kote	5 gal bucket, non-diluted liquid	AST23014	$279.94
Slick-Willie®	50-bag bucket	AST23005	$304.52
Pro-Prime	50-bag bucket	A120014	$150.39
Prime-A-Pac	18-bag bucket	AST23001	$8.77

KLEEN-KRETE®

Kleen-Krete® Efflorescence Cleaner is a highly effective cleaner for Primary and Secondary efflorescence removal. It is a non-toxic, environmentally safe cleaner.

KLEEN KOTE

Kleen Kote is a water-based industrial release that is V.O.C. compliant. It helps prevent asphalt, concrete, dirt and other debris from sticking to treated equipment, forms, hand tools and trucks. Kleen Kote is an innovative release that deposits a very thin film causing the surface to become virtually non-stick. Kleen Kote is environmentally safe and does not contain solvents or phosphates.

SLICK-WILLIE®

Slick-Willie is a dry, powdered pump primer and pumping aid. Conveniently packaged in 8-ounce (0.24L) bags, Slick-Willie is specially formulated to provide the concrete pumper with an economical replacement for expensive bagged cement primers and grout primer slurries.

As a concrete pumping aid, Slick-Willie is a top performer that is easy to use. By reducing line pressure, Slick-Willie enables the placement of hard to pump mixes and increases the range of pumpability. Environmentally safe and compatible with all conventional concrete materials, Slick-Willie contains no bentonite, cementites, soaps or air entraining agents.

PRO-PRIME

Putzmeister Pro-Prime enhances the pumping process with much longer system runs while facilitating lower line pressures and decreasing wear on equipment. This patented non-alkaline formula is environmentally conscious and handles difficult mixes with ease. It only takes five minutes to mix, hydrates faster and will not dry out concrete.

PRIME-A-PAC

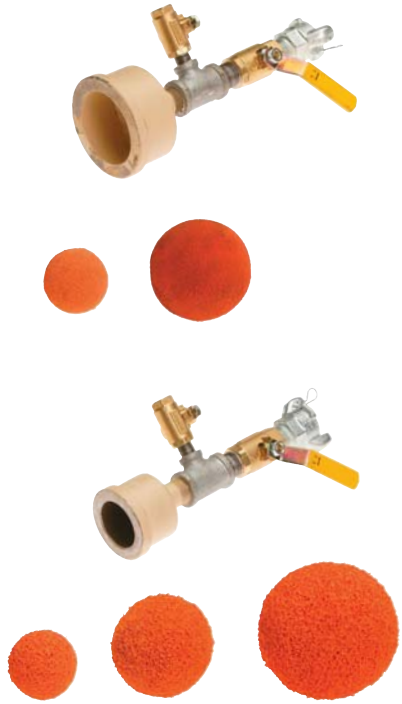
America's original concrete pump primer, Prime-A-Pac is the first choice among line pumpers for its oatmeal-like consistency. Prime-A-Pac works best on long runs of rubber hose and difficult set-ups. Its Bentonite clay base is excellent for refractory applications.

10.37 CLEANOUT ACCESSORIES

WET-PROCESS

Putzmeister provides cleanout accessories designed to provide safe, effective cleaning of your system at the end of the pour. Sponge balls, go-devils, catchers and cleanout caps are also available. It's important to pay special attention to all safety instructions regarding cleanout procedures. Larger cleanout accessories are also available.

ITEM	PART NUMBER	PRICE
1" (25 mm) Medium Sponge Ball	000239004	$2.43
1-1/2" (38 mm) Cleanout Assembly	AST23906	$221.18
1-3/4" (45 mm) Medium Sponge Ball	065044001	$4.54
2" (51 mm) Medium Sponge Ball	000212005	$3.98
2" (51 mm) Cleanout Assembly	AST23792	$191.01
2-1/2" (64 mm) Soft Sponge Ball	AST23734	$9.79
2-1/2" (64 mm) Hard Sponge Ball	000246000	$5.90
3" (76 mm) Soft Sponge Ball	422531	$5.47
3" (76 mm) Cleanout Assembly	AST23794	$226.37
4" (102 mm) Medium Sponge Ball	016091003	$8.30
4" (102 mm) Cleanout Assembly	AST23922	$251.13



10.38 COMMUNICATION SET AND KIT

DRY-PROCESS
WET-PROCESS

Rugged headsets allow hands-off communication between operator and nozzleman. Packaged in its own compact carrying case, the Putzmeister Communication Kit includes two headsets, two adapter cords and one 50 foot (15m) jumper cord.

ITEM	PART NUMBER	PRICE
Headset (includes 10' (3m) cord)	AST23638	$430.68
50' (15m) Jumper	AST23693	$153.33
50' (15m) Extension	AST23694	$153.33
100' (30m) Extension	AST23695	$240.00
Communication Kit (see contents above)	AST23954	$1,167.72

10.39 STEEL FRESNO TROWELS, RADIUS BENDER AND SHOTCRETE GUIDE WIRE

DRY-PROCESS WET-PROCESS

ITEM	DESCRIPTION	CORNERS	PART	PRICE
Fresno Trowel	24" x 5" (610mm x 127mm), special Curved Fresno Trowel	Rounded	AST76219	$39.03
Fresno Trowel	24" x 5" (610mm x 127mm), straight	Square	AST76188	$34.85
Fresno Trowel	24" x 5" (610mm x 127mm), straight	Rounded	AST76236	$58.83
Fresno Trowel	30" x 5" (762mm x 127mm), straight	Square	AST76237	$39.96
Fresno Handle	3' 3" (1m), Wooden	-	AST76215	$24.09
Fresno Handle	6' 7" (2m), Wooden	-	AST76217	$25.53
Radius Bender	24" x 2-1/2" (610mm x 64mm), double handle flexible Radius Bender	Square	AST76441	$22.00
Guide/Cutting Wire	50 lb (23 kg) spool, hard drawn, spring wire, 1mm	-	AST76186	$2.89

10.40 SHOTCRETE RODS

DRY-PROCESS WET-PROCESS

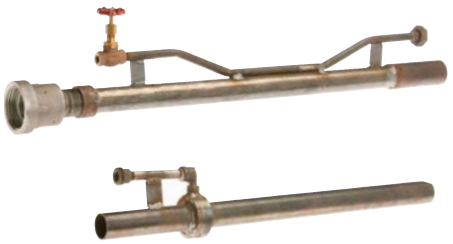
Top quality, American-made shotcrete finishing rods are designed to give long service in all types of shotcrete work. Lightweight and durable, Putzmeister's Shotcrete Rods have a wooden handle attached to an aluminum extrusion that has a spring steel cutting blade attached.

ITEM	TYPE	PART	PRICE
24" (610mm)	Magnesium	A618665	$98.00
24" (610mm)	Wood	AST76482	$120.32
36" (914mm)	Wood	AST76483	$150.25
48" (1,219mm)	Magnesium	AST76214	$208.13
48" (1,219mm)	Wood	AST76484	$203.66

10.41 REPUBLIC HOT GUNNING NOZZLE

DRY-PROCESS

Specially designed for hot patching in furnaces, Putzmeister's Republic Hot Gunning Nozzle has lightweight steel tubing which comes in two pieces and is 10 feet (3m) long. The water ring is 18 inches (457mm) from the outlet with water flow controlled by the nozzleman and fits directly on the hose.



ITEM	PART NUMBER	PRICE
Republic Nozzle 10" (254mm)	AST23593A	$1,035.56
1/4" (6mm) Water Valve	AST70115	$34.22
Adapter to Hose	AST23618	$62.40
Tip Section Only	AST23603	$169.39
48" (1,219mm) Assembly	AST23671A	$440.12

10.42 16-HOLE SPECIAL WATER RING

DRY-PROCESS

Putzmeister's 16-Hole Special Water Rings are ideal when using materials like insulating constables that require a higher water content.

ITEM	PART NUMBER	PRICE
1-1/4" (32mm)	AST23113	$21.09
1-1/2" (38mm)	AST23561	$11.54
1-5/8" (41mm)	AST23114	$16.76

10.43 ALUMINUM PIPE ADAPTERS

DRY-PROCESS

Putzmeister offers male and female standard rounded threads, iron pipe threads for hot gunning lances or coupling hoses and pipe. The brass Funnel Flange Adapter (AST23307) couples a swivel hose to N or S guns and fits hose sizes 1-1/4 through 1-5/8 inches (32 through 41mm).

ITEM	PART NUMBER	PRICE
1" (25mm) APG male — 1" (25mm) IPT female	AST23121	$18.78
1" (25mm) APG female — 1" (25mm) IPT female	AST23122	$50.96
1-1/4" (32mm) APG male — 1-1/4" (32mm) IPT female	AST23617	$47.20
1-1/4" (32mm) APG female — 1-1/4" (32mm) IPT female	AST23618	$62.40
1-1/2" (38mm) APG male — 1-1/2" (38mm) IPT female	AST23620	$57.52
1-1/2" (38mm) APG female — 1-1/2" (38mm) swivel male	AST23307	$67.53
1-1/2" (38mm) APG female — 1-1/2" (38mm) IPT female	AST23619	$56.74
90° adapter 1" (25mm)	AST23622	$46.27
90° adapter 1-1/4" (32mm)	AST23621	$63.34

A20

10.44 CHEMICAL/ACCELERANT DOSING PUMPS WET-PROCESS

Putzmeister's A10 Chemical/Accelerant Dosing Pump handles abrasive fluids with little wear and provides high levels of volumetric accuracy for sampling, transfer and metering applications. The A20 Chemical/Accelerant Dosing Pump has no valves or glands where crystals can build up and clog the pump. Its absence of product slip in the hose provides 100 percent volumetric efficiency.

	A10	A20
Part Number	CF	CF
Maximum Output	0-25 gal/ hr (0-95L/hr)	0-120 gal/hr (0-454L/hr)
Maximum Pressure	116 psi (8 bar)	116 psi (8 bar)
Power	Air, electric or hydraulic	Air, electric or hydraulic
Mounting	Portable stand or hard mount to PM equipment	Portable stand or hard mount to PM equipment

Contact the parts department for pricing

GBP-300

10.45 WATER BOOSTER PUMPS DRY-PROCESS

Putzmeister's air powered Water Booster Pumps work on a reciprocating differential area piston principle. The water pressure can be varied from 0-500 psi (0-34.5 bar) depending on the air pressure regulator setting.

	GBP-300	GBP-500
Part Number	AST70248	AST70216
Price	$4,468.22	$3,198.36
Maximum Output	20 gpm (76 lpm)	10.6 gpm (40 lpm)
Minimum Air Pressure	20 psi (1 bar)	20 psi (1 bar)
Maximum Air Consumption	80 ft³/min (2.27m³/min)	80 ft³/ min (2.27 m³/ min)
Length	24" (610mm)	24" (610mm)
Width	13" (330mm)	13" (330mm)
Height	12" (305mm)	12" (305mm)
Weight (approximate)	56 lbs (25 kg)	56 lbs (25 kg)

10.46 N-GUN PARTS

DESCRIPTION	N1 PART NUMBER	PRICE	N2 PART NUMBER	PRICE	N3 PART NUMBER	PRICE
Rubber Outlet Valve, 1-1/4"	AST20416	$31.30	AST20416	$31.30	-	
Rubber Outlet Valve, 1-1/2"	AST20418	$31.19	AST20418	$31.19	AST20418	$31.19
Rubber Outlet Valve, 1-5/8"			AST20422	$48.00	AST20422	$48.00
Rubber Outlet Valve, 2"			AST20423	$46.51	AST20423	$46.51
Feedwheel	AST20119	$1,020.65	AST20419	$1,271.62	AST20419	$1,271.62
Funnel Flange, 1-1/4"	AST20447	$121.72	AST20447	$121.72	-	
Funnel Flange, 1-3/8"	AST20448	$152.00	AST20448	$152.00	-	
Funnel Flange, 1-1/2"	AST20448	$152.00	AST20448	$152.00	-	
Funnel Flange, 1-5/8"			AST20454	$201.66	AST20454	$201.66
Funnel Flange, 2"			AST20455	$147.14	AST20455	$147.14
Cone Valve Gasket	AST20451	$12.92	AST20451	$12.92	AST20451	$12.92
Air Pressure Gage, 1000 PSI, 4 MP	AST20461	$31.06	AST20461	$31.06	AST20461	$31.06
Outlet Valve Washer	AST20471	$1.44	AST20471	$1.44	AST20471	$1.44

10.47 N-GUN — COMPRESSIBLE TUBE VALVE

The exhaust valve allows rapid opening and closing by means of an easily lever. The lever actuates a rubber ball that compresses a rubber liner which completely blocks air flow. Since the valve is self-cleaning, full flow can always be maintained even underthe most dirty and dusty conditions. This valve was specially designed for use with abrasive carrying streams.

DESCRIPTION	PART NUMBER	PRICE
Valve exhaust, complete	AST20701	$597.65
Liner	AST20484	$18.09
Ball Guide	AST20485	$58.83
Ball	AST20486	$3.02
Pin	AST20487	$1.49
Bolt, Housing	AT301023	$0.88
Housing	AST20490	$117.75
Lever w/Bushing	AST20491	$80.32
Bushing	AST20492	$15.54
Main Body	AST20493	$162.39

10.48 N-GUN — AIR MOTOR

DESCRIPTION	PART NUMBER	PRICE
Rubber Insert for Air Motor to Lower Base Love-Joy	AST11106	$51.66

10.49 PICCOLA AIR POWER

DESCRIPTION	PART NUMBER	PRICE
Pneumatic Muffler for Air Powered Machines	AST70110	$27.08

10.50 PICCOLA FEED ASSEMBLY

DESCRIPTION	PART NUMBER	PRICE
Top Rubber Wear Pad	AST76136	$285.45
Bottom Rubber Wear Pad	AST76140	$270.71
Discharge Elbow	AST76162	$236.47
Liner, Discharge Elbow	AST76033	$60.54
Outlet Spout, 1"	AST76389	$221.91
Outlet Spout, 1.25"	AST76388	$195.36
Outlet Spout, 1.50"	AST76383	$454.55
Outlet Spout, 2"	AST76387	$262.16
Outlet Liner, 1"	AST76036	$19.38
Outlet Liner, 1.25"	AST76035	$28.93
Outlet Liner, 1.50"	AST76034	$19.49
Conical Spout Liner, 2"	AST76040	$30.46
Top Wear Part, New Style	AST76136	$285.45
Top Wear Part, Old Style	AST27088	$390.68

10.51 PICCOLA ROTORS AND CONNECTOR PARTS

DESCRIPTION	PART NUMBER	PRICE
12 Round Hole Rotor	AST27092	$1,539.19
12 Round Hole Friction Disc	AST27096	$103.98
12 Round Hole Half Rotor	AST27073	$798.00
12 Pie Shaped Hole Rotor	AST27093	$1,773.38
12 Pie Shaped Hole Friction Disc	AST27097	$156.89
12 Pie Shaped Half Rotor	AST27076	$1,107.23
9 Round Hole Rotor	AST27091	$1,098.50
9 Round Hole Friction Disc	AST27095	$123.19
Spacer, Half Rotor	AST27075	$989.10

10.52 PICCOLA DUST COLLECTION SYSTEM

DESCRIPTION	PART NUMBER	PRICE
Filter Bag for Dust Collection System	AST27174	$16.32
Complete Dust Collection System for Full Rotor	AST27173	$1,890.57
Complete Dust Collection System for Half Rotor	AST27175	$2,093.91

10.53 GRH 610 ROTOR DRIVE

DESCRIPTION	PART NUMBER	PRICE
Top Rubber Washer	AST27088	$390.68
Bottom Rubber Washer	AST76140	$270.71
Discharge Spout	AST27116	$90.86
Outlet Spout, 1" ID	AST76389	$221.91
Outlet Spout, 1.25" ID	AST76388	$195.36
Outlet Spout, 1.50" ID	AST76383	$454.59
Outlet Spout, 2" ID	AST76387	$262.16

10.54 GRH 610 ROTORS AND CONNECTOR PARTS

DESCRIPTION	PART NUMBER	PRICE
12 Round Hole Rotor	AST27092	$1,539.19
12 Round Hole Friction Disc	AST27096	$103.98
12 Pie Shaped Hole Rotor	AST27093	$1,773.38
12 Pie Shaped Hole Friction Disc	AST27097	$156.89
12 Round Hole Half Rotor	AST27073	$798.00
Spacer, Half Rotor	AST27075	$989.10
12 Pie Shaped Half Rotor	AST27076	$1,107.23
9 Round Hole Rotor	AST27091	$1,098.50
9 Round Hole Friction Disc	AST27095	$123.19

10.55 GRH 610 DUST COLLECTION SYSTEM

DESCRIPTION	PART NUMBER	PRICE
Filter Bag for Dust Collection System	AST27174	$16.32
Complete Dust Collection System for Full Rotor	AST27173	$1,890.57
Complete Dust Collection System for Half Rotor	AST27175	$2,093.91

10.56 AG 15 BASE, DRIVE, BOWL ASSEMBLY

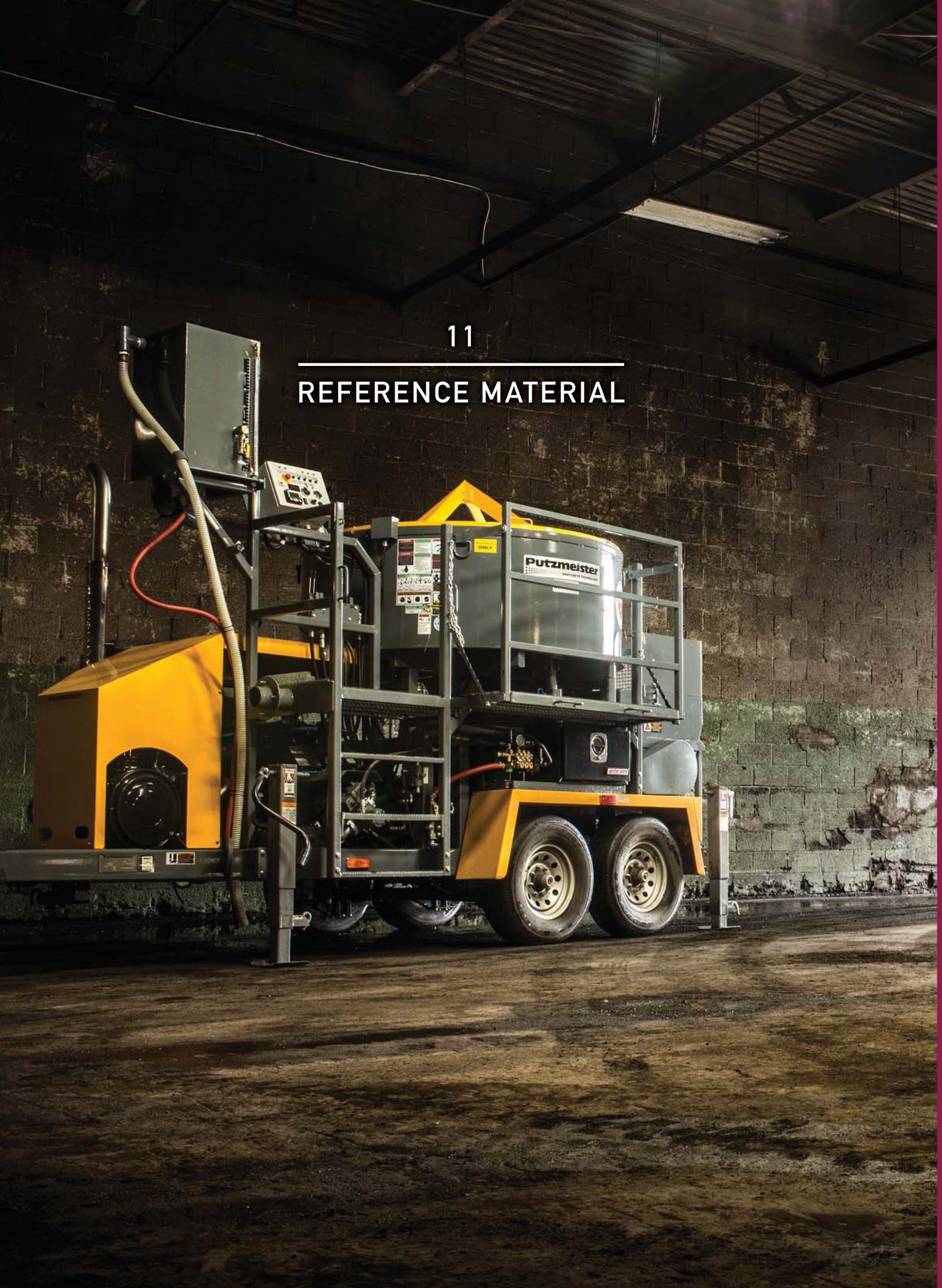
DESCRIPTION	PART NUMBER	PRICE
Wear Plate, 1" Thick	AST15001	$200.00
Wear Plate, Shallow Bowl	AST15096	$702.20
Wear Plate, 2" Thick	AST15002	$613.83
Shim, 0.035" Thick	AST15004	$2.49
Shim, 0.075" Thick	AST15005	$3.09
Shim, 0.105" Thick	AST15006	$3.73
Shim, 0.125" Thick	AST15007	$3.77
15 Pocket Shallow Feed Bowl	AST15095	$1,232.53
15 Pocket Midrange Feed Bowl	AST15040	$1,233.60
15 Pocket Deep Feed Bowl	AST15041	$893.11
Mainshaft	AST15070	$299.70
Seal, Mainshaft	AST15071	$13.39

10.57 AG 15 HOUSING AND HOPPER ASSEMBLY

DESCRIPTION	PART NUMBER	PRICE
Felt Housing Seal	AST15111	$6.86
Rubber Wear Pad	AST15009	$19.16
Gooseneck Tube, 2"	AST15037	$203.53
Liner, 2" Gooseneck, Green	AST15039	$66.49
Gooseneck Tube, 1-1/2"	AST15090	$165.89
Liner, 1-1/2" Gooseneck, Orange	AST15091	$91.69

10.58 SPRAY ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER	PRICE
Spray Head	Angled	001300000	$32.41
Spray Head	Straight, Fine Plus Gun	001303007	$36.72
Spray Gun	Straight, Standard	001306004	$227.07



11
REFERENCE MATERIAL

11.1 SERVICE SCHOOL

CLASSROOM LESSONS YOU CAN TAKE TO THE FIELD

We want to make sure you get the most from your Putzmeister equipment.

To maximize the use and profitability of your investment, take advantage of the regular training seminars at our Wisconsin headquarters. Service Schools cover maintenance, operation and inspection of boom pumps, Telebelts, and Thom-Katts. Schools include:

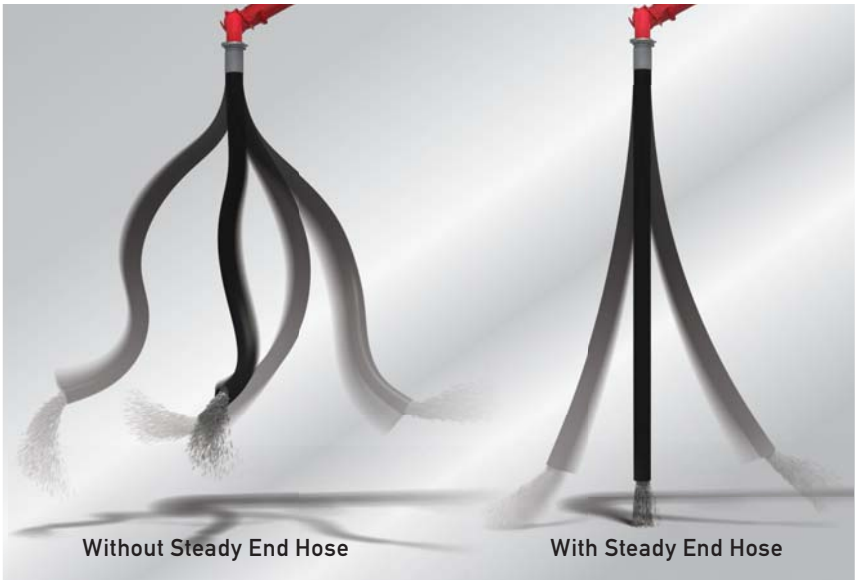
- Practical hands-on training.
- Problem-solving exercises.
- Dynamic hands-on presentations.
- Safety training.

Please register at least four weeks in advance to guarantee hotel availability.

To register, visit PutzmeisterAmerica.com, and click on the “Service Schools” tab under “Service & Support.”

Contact the Putzmeister Customer Support Group with any questions either by e-mail serviceschool@putzam.com or call (800) 890-0269.

11.2 STEADY END HOSE



THE STEADY END HOSE – BETTER SAFE THAN SORRY

- Significantly less deflection
- Risk of injury minimized
- Smoother work at the end hose
- Less wear

STEADY END HOSE	PART NUMBER
125 / 5.5" 3m	480550
125 / 5.5" 4m	480549
100 / 4.5" 3m	480548
100 / 4.5" 4m	476899

STEADY END HOSE VARIANTS	PART NUMBER
Variant 3m (1m + 2m) End Hose SH 125=5.5"Z x 2000 Special	589666
Variant 4m (1.5m + 2.5m) End Hose SH 125=5.5"Z x 2500 Special	589668
Variant 4m (1m + 3m) End Hose SH 125=5.5"Z x 3000 Special	589669

PNEUMATIC SQUEEZE VALVE	PART NUMBER
EQV DN 125	542004

LESS DEFLECTION, MORE SAFETY – THE NEW STEADY END HOSE

The Steady End Hose helps reduce the risk of injury when placing concrete with booms. A wealth of experience gained in the field led to further development and improvement to the Steady End Hose.

Previously, a concrete end hose responded to uncontrolled changes in pressure in the concrete (caused by air pockets or the release of a blockage) with violent sideways movement. With the new, stabilized Steady End Hose, this unforeseeable deflection, which in certain circumstances may pose a risk of injury, is substantially reduced. The improved design of the reinforcing fabric minimizes the risk of injury and carries out concrete distribution in a way that protects the hose man. At the same time Putzmeister has improved the wear behavior.

ACCESSORIES VARIANTS: SAFE, CLEAN, STEADY END HOSE

The benefits that Putzmeister end hose accessories provide are also available in conjunction with the Steady End Hose. By using the Steady End Hose, working safety is increased above legal regulations.

DIVIDED END HOSE + EQV + STEADY END HOSE

The combination of end hose accessories and Steady End Hose provides you with the ideal combination of safety, speed and precision.

With the divided end hose, you have a pneumatic EQV End Hose Shutoff Valve at your disposal for every combination.

11.3 EQV END HOSE SHUTOFF VALVE

THE EQV END HOSE SHUTOFF VALVE – STOPS THE CONCRETE FLOW IMMEDIATELY.

No mess, no spraying. The end hose is squeezed together to interrupt or stop the flow of concrete. This is done with such force that dripping is completely eliminated. Entirely free of metal parts which could become a hazard, it also requires very little installation work.

FOR CLEAN CONCRETING:

- Same valve for DN 125 and DN 100
- Simple and robust
- Closes reliably with pneumatic pressure*
- Flexible positioning along the hose
- No metal parts, minimizes the risk of injury
- Easily interchangeable with current valves
- Internal diameter: 180mm, which means that it can be pulled over the spout on the boom tip

* The pneumatic EQV end hose shutoff valve is connected to an existing air system at the end of the boom (operating pressure 3-4 bar). If your machine has yet to be fitted with this air system, contact Putzmeister Customer Support before ordering the pneumatic EQV end hose shutoff valve. We can offer you low-cost retrofitting.

11.4 END HOSE ACCESSORIES

END HOSE ACCESSORIES – SEE JUST HOW SAFE AND CLEAN CONCRETE PLACEMENT CAN BE

It's often the little things that make life and work easier. This was precisely our aim when we developed accessories for the end hose. The end result is many useful details, which we are certain you will no longer want to do without.

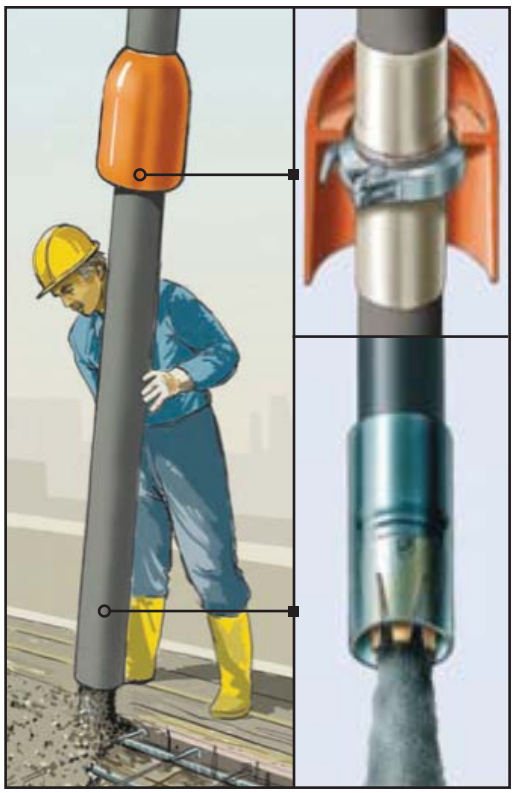
EQV END HOSE SHUTOFF VALVE

- Robust and flexible
- Pneumatically operated
- Closes reliably
- No metal parts, minimizes the risk of injury

Protective Sleeve with Velcro® Fastener

- Lightweight and clean
- Easy to fit
- Minimizes the risk of injury at the coupling

11.5 END HOSE PROTECTIVE BELL AND PIN POUR



PUTZMEISTER PROTECTIVE BELL - THE FOUNDATION FOR YOUR END HOSE REPLACEMENT SYSTEM

- Use a 6' 7" (2m) delivery hose and 6' 7" (2m) end hose instead of a 13' 1" (4m) end hose
- Replace only 6' 7" (2m) end hose (approx. 20kg)
- Protective bell covers the coupling to prevent injuries
- End piece spout is optional. Use with spout for extensions (observe operating instructions for your pump) or with Pin Pour
- Ideal for narrow formwork, can be used with plastic pipe extension
- For end hose DN 125

PIN POUR

For safe and economical concrete placement

Improved safety:

- Uniform flow of concrete
- Quiet boom
- No concrete splashing

Less operating costs:

- Cost effective purchase
- Less wear of pipe and end elbow

Top quality from Putzmeister:

- Long service life

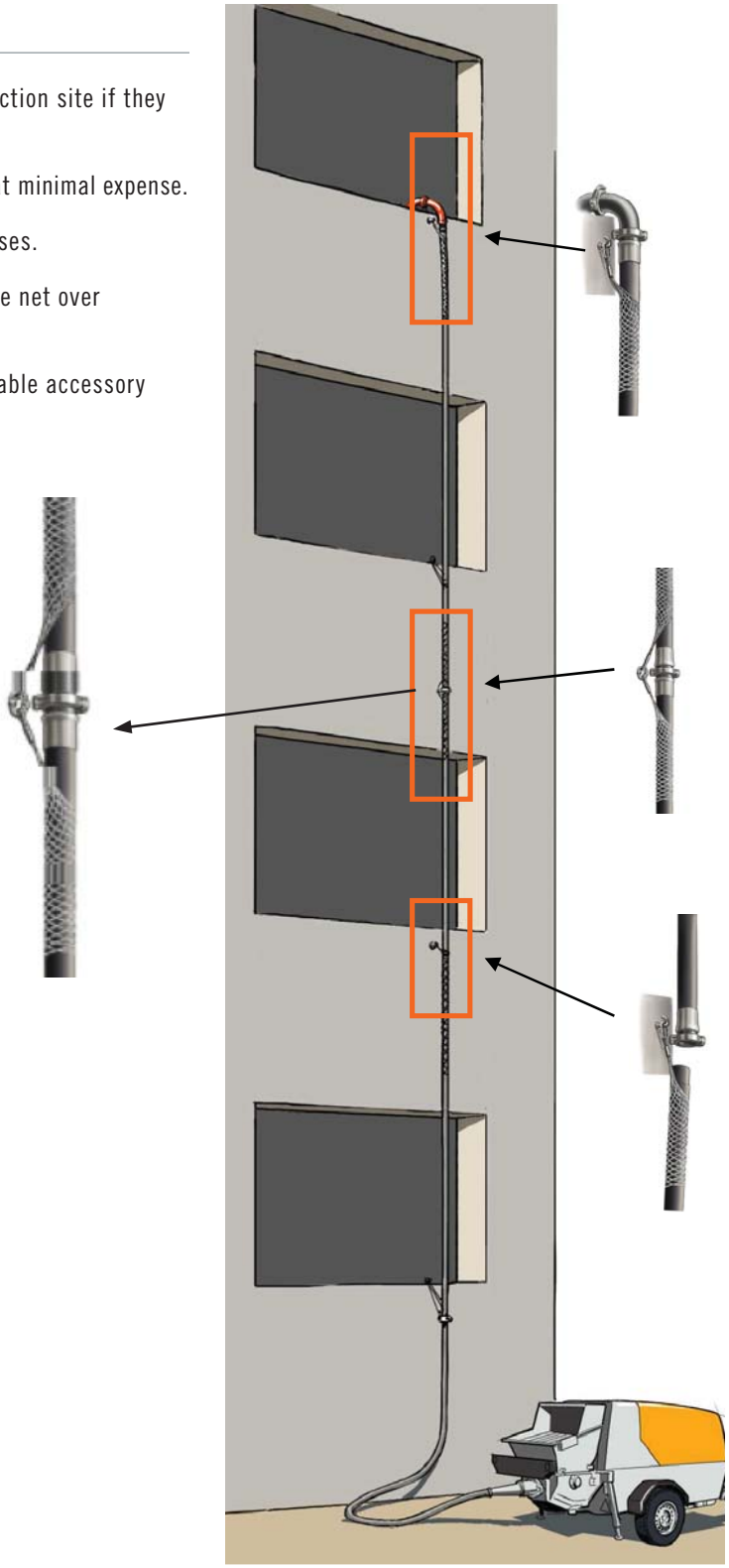
For all delivery lines with

- Ø 4.5" (100mm)
- Ø 5" (120mm)
- Ø 5.5" (125mm)

11.6 SAFETY NET FOR SUSPENDED HOSES

SAFETY NET FOR SUSPENDED HOSES

- Suspended hoses can be a serious safety risk on your construction site if they are not correctly, and firmly secured.
- With safety nets you can significantly increase job site safety at minimal expense.
- Our safety nets are designed to secure suspended delivery hoses.
- Fitting is quick and easy, without use of tools: Simply slide the net over the hose and secure to a suitable suspension point.
- Their ease of use and versatility will make them an indispensable accessory on all your construction sites.

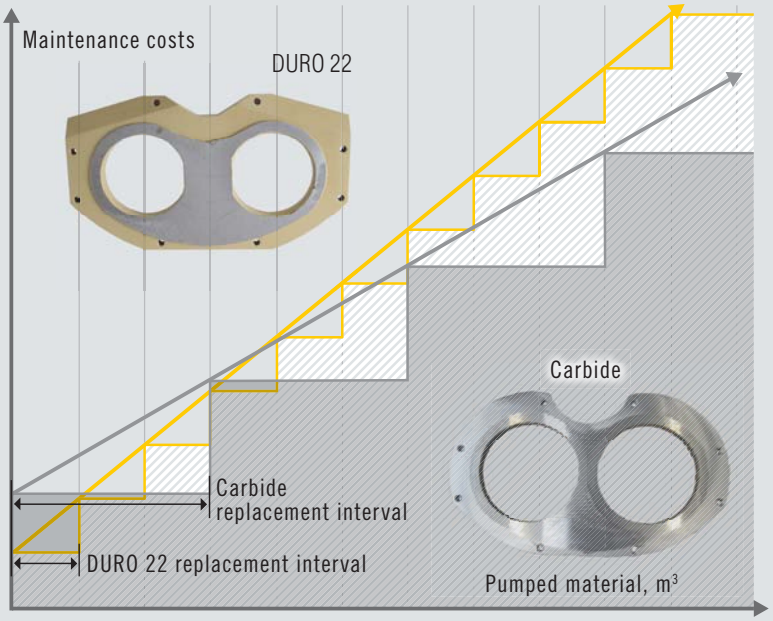


11.7 SPECTACLE WEAR PLATES

I. CARBIDE* – ABSOLUTELY ROBUST FOR EXTREME APPLICATIONS

Twenty years of experience have gone into these particularly robust and long-life hard metal wear parts. They have been continuously developed and optimised for extreme applications in long-range and high-rise pumping of concrete (e.g. Burj Khalifa). The result is three versions of carbide spectacle wear plates available today. They are guaranteed to withstand any stress because they are made in Germany using hard metal. A newcomer to Putzmeister's powerful team is the compact spectacle wear plate, manufactured completely from carbide. This makes it not just significantly easier and quicker to replace than 3-part spectacle plates, but also has a long service life. It is an effective means for reducing your wear and maintenance costs.

Different qualities for optimum cost-benefit ratio



For example, 3-fold service life

1) Compact version
The new compact spectacle plate from Putzmeister consists a basic steel body with a 5mm thick carbide wear layer. It has a service life which is up to 4 times longer than the DURO 22 standard spectacle wear plate.

2) Carbide insert socket
Insert ring consisting of basic steel body with brazed carbide segments

3) Gusset version
Basic steel body with carbide equipped steel rings; area between rings with carbide assembly or replaceable screw-on wear plate segments

TECHNICAL DATA – CARBIDE

WEAR PARTS FOR S-VALVE CARBIDE		HOPPERS: RS 600 + ALL RS 905		HOPPER RS 907	
		ND 180 Ø	ND 200 Ø	ND 230 Ø	
DESCRIPTION	TYPE	PART NO.	PART NO.	PART NO.	
THRUST RING	NBR	249304.004	252898.002	458878	
WEAR RING	Carbide	509425	531240	494520	
SPECTACLE WEAR PLATE	1) Carbide compact version	533286 Hole pattern 540 mm	532786 Hole pattern 570 mm	532597 Hole pattern 540 mm	531499 Hole pattern 570 mm
	2) Carbide insert socket (gusset version)		463444 Assembly consists of: 2× 485385 1× 463435, 1x 463426		
	3) Carbide insert socket	254566.002 Assembly consists of: 2× 269759.008 1× 275604.008	254565003 Assembly consists of: 2× 485385 1× 275608.004	532597 Hole pattern 540 mm Assembly consists of: 2× 271070.005 1× 263728.006	531499 Hole pattern 570 mm Assembly consists of: 2× 271070.005 1× 2761312.001

YOUR BENEFITS AT A GLANCE

- High hardness values: Up to 4 times longer durability in comparison with DURO 22 (under the same conditions)
- Less wear and maintenance costs
- Significantly easier and quicker replacement than the 3-part design
- 3 versions of spectacle wear plate to choose from
- Material in the middle section made of Hardox
- Carbide made in Germany

* Fitting instructions for spectacle wear plates equipped with carbide segments, available on request (document no. 048422)

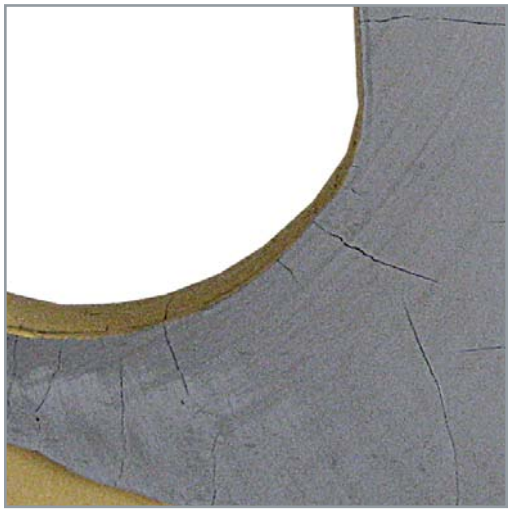
11.7 SPECTACLE WEAR PLATES

II. DURO 22* – INCREDIBLY FAVOURABLE, AND SUITABLE FOR (NEARLY) ALL SCENARIOS

With DURO 22, it is precisely for those areas they are subjected to the greatest stress, they are protected by a welded-on wear layer. Because of this reason wear parts made of DURO 22 have a long lasting durability, and are highly economical thanks to their excellent price-performance ratio.

These wear parts consist of a basic steel body armoured with a welded, hard facing material in areas subject to wear (wear layer welded on).

Basic steel body with hard facing (wear layer)



Cracks are characteristic for the hardness of the material. The harder the material, the more cracks.

TECHNICAL DATA – DURO 22

WEAR PARTS FOR S-VALVE DURO 22		HOPPERS: RS 600 + ALL RS 905		HOPPER RS 907	
		ND 180 Ø	ND 200 Ø	ND 230 Ø	
DESCRIPTION	**TYPE**	**PART NO.**	**PART NO.**	**PART NO.**	
THRUST RING	NBR	249304.004	252898.002	261123.001	
WEAR RING	DURO 22	251231.000	251031.006 a more cost-effective alternative: ECOLINE 403094	261122.002 Hole pattern 540 mm	406927 Hole pattern 570 mm (1HLS/16HLS/20H only)
SPECTACLE WEAR PLATE	DURO 22	234559.000	229488.005 a more cost-effective alternative: ECOLINE 403095	532597 Hole pattern 540 mm	531499 Hole pattern 570 mm

YOUR BENEFITS AT A GLANCE

- Reasonable price and sufficient durability
- Suitable for practically all fields of application in the concrete pumping sector

* Fitting instructions for hard faced spectacle wear plates available on request (document no. 063414)

11.7 SPECTACLE WEAR PLATES

III. WEAR-RESISTANT CASTING (CAST IRON) – FREE FROM CRACKS AND PREFERABLE FIRM FOR THIN MEDIUM PUMPING

Parts made of wear-resistant casting have a decisive advantage: they consist of one material throughout. This makes them free of cracks and means that they have little contact surface for penetrating particles. Their minimal susceptibility to blast jet wear makes them ideal for pumping thin mediums and/or where not very abrasive material is being pumped under high pressure.

Because it has been alloyed with certain elements, this special heavy-duty casting displays higher wear resistance.

The heavy-duty casting version is used mainly at PSP in process engineering, and for concrete applications in stationary concrete pumps with S-Valve only.

Insert sockets – made entirely using heavy-duty casting

Kidney shaped insert – complete component made of wear-resistant casting

TECHNICAL DATA – WEAR RESISTANT CASTING

WEAR PARTS FOR S-VALVE DURO 22		HOPPERS: RS 600 + ALL RS 905	
		ND 180 Ø	ND 200 Ø
DESCRIPTION	**TYPE**	**PART NO.**	**PART NO.**
THRUST RING	NBR	249304.004	252898.002
WEAR RING	Casting W72	247213.003	257270.007
SPECTACLE WEAR PLATE	Casting W72 Insert socket	282242.000 Assembly consists of: 2× 282056.005 1× 275604.008	282243.009 Assembly consists of: 2× 282240.002 1× 275608.004
	Casting W72 Kidney-shaped insert	257297.006 Assembly consists of: 1× 247246.009 1× 273911.007	463444 Assembly consists of: 2× 485385 1× 463435 1× 463426

YOUR BENEFITS AT A GLANCE

- No development of cracks
- Extremely low level of blast jet wear
- Ideal for very fluid materials
- Advantageous for high-pressure delivery (of less abrasive media)

11.8 TRICKS OF THE TRADE

BASIC BOOM PUMP OPERATION

- Be familiar with the instructions in the Operator's Manual.
- Remember to set the parking brake, this gives power to the Power Take Off (PTO) Switch.
- Engage the PTO. Select high range and the correct gear for pumping.
- Set Remote/Local switch on control box to proper position.
- Switch the remote control E-Stop up, then power on.
- Reset the emergency stop circuit, honk the horn.
- Fully extend the outriggers to the locked position. If equipped with One Sided Support (OSS) System, set the outriggers and test the system according to the operator's manual.
- Move the boom into the proper position for prime out. Position Boom in Z- or A-frame configuration depending on your jobsite conditions.
- Engine Revolutions Per Minute (RPM) must be higher than 900 RPM.
- Switch on the pump. If pump does not turn on, double check above steps.

The operator's manual is your best resource in getting to know your Putzmeister Boom Pump quickly, and to take advantage of all of it's features.

TEST LIGHTS AND BAD GROUNDS

The multimeter is an essential tool for diagnostics of a faulty electrical system on a Putzmeister machine. Whether it is a 12v or 24v system, the multimeter is your go-to tool for electrical diagnostics.

Functions you will need:

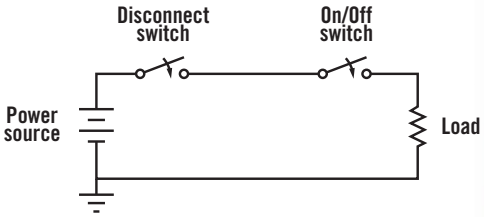
- Test for DC Voltage
- Test for Amperage
- Test Resistance (Ohms)

Control boxes contain sensitive electrical components, ones that a regular test light will burn out when used improperly.

Regular test lights can't get you the accurate readings you need, some readings need to get down to milliamps to diagnose properly. They should not be used inside of your combi-box.

Provide accurate voltage readings to the Putzmeister service technicians when calling for support.

Remember, your electrical problem does not always have to be from a lack of power, it can be from not having a ground as well!



11.10 FILTER MAINTENANCE

FILTER MAINTENANCE

Filter maintenance is vital to the longevity of your concrete pump and Telebelt.

The pictures show what needs to be checked to make sure the unit is operating to specification:

- Needle in green, filter is clean.
- Needle in the red, filter is plugged or oil is too cold to pump.
- In cold weather do not operate until the needle is in the green.
- The vacuum gauge has a vent on top. If the vent is plugged it will create a false reading.
- On Telebelts the suction gauge might be displaying oil tank pressure.
- Telebelt TB 105's and TB 110's have air pressure to feed the pumps, these gauges read differently, but are indicating the same information about the status of the filter.

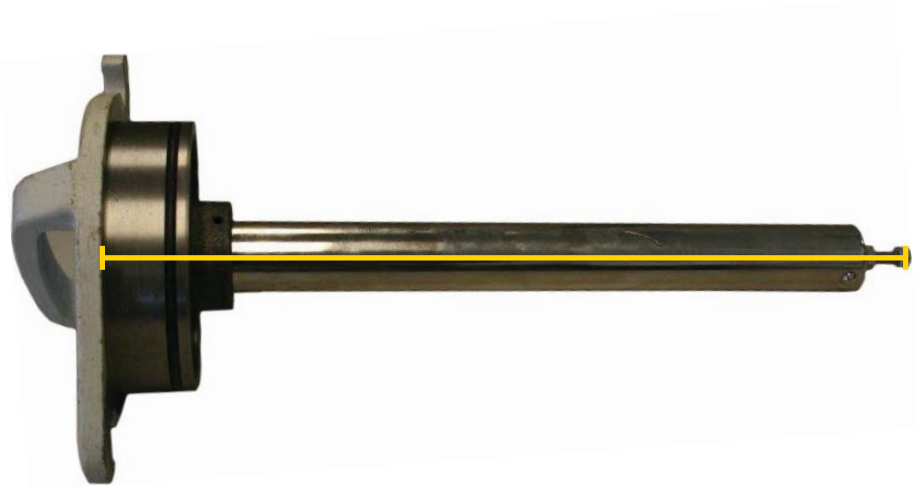
Having the wrong plunger setting can cause major failure of the hydraulic pump.

Plunger is open to provide oil flow to filter. When changing the filter the plunger is designed to seal the tank. If the screw adjustment is too long the plunger can be bent or damaged, causing leakage.

If an adjustment is too short it can cause hydraulic pump cavitation.

Plunger and Seal

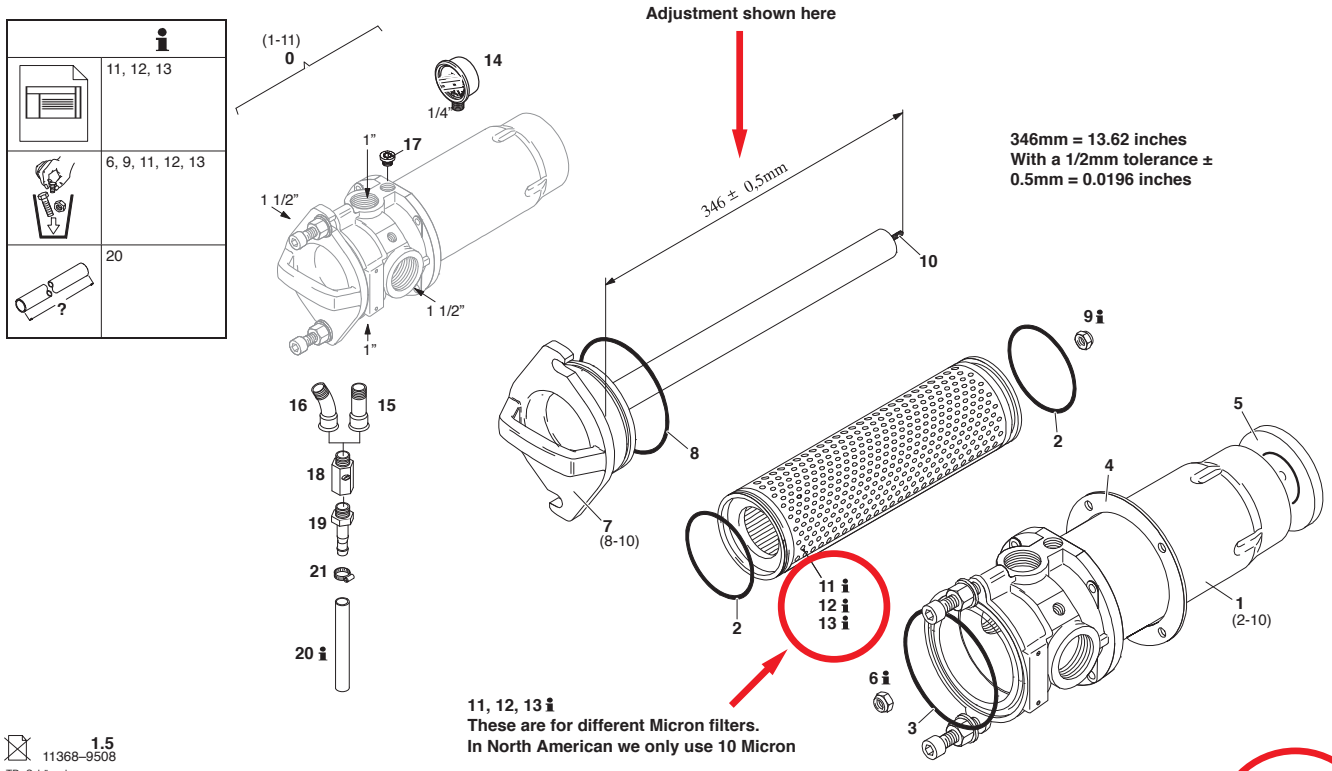
11.10 FILTER MAINTENANCE



It is important to confirm the length of filters, because some studs are not adjustable. Check the parts pages for correct dimension.

Adjustable style is a stud bolt with a lock nut. The end of the stud is what pushes the plunger open. Pictured with the filter removed.

Apply this information to service on your unit and consult the Customer Support Group to confirm the specification for your individual pump.



1.5
11368–9508
TD: Schöneck

Saugfilter
Suction filter
Filtre d'aspiration
Filtro de aspiración

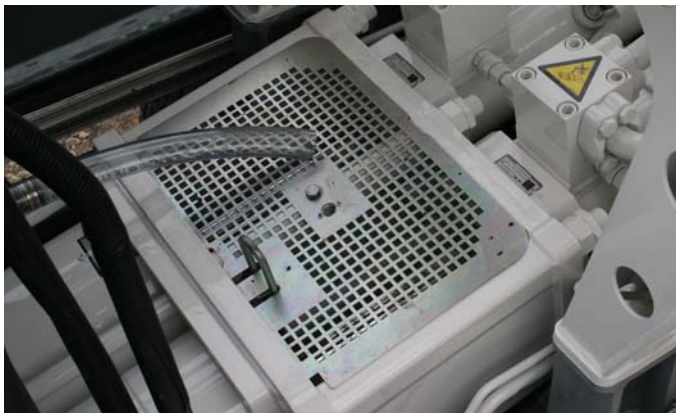
Look for this gell page in YOUR manual

225531008

1 2

1.5
11368–9812

11.11 WATER BOX DO'S AND DON'TS



DO

- Do change the water in the water box after every pour. This allows you to look for grey slurry passing the pistons as evidence of worn piston heads. It also allows you to monitor for leaking drive cylinder packings.
- Do always mount the water box cover with the mount bolt. Do not leave it removed or loose after maintenance.
- Do inspect Dog-Bone bolts for tightness. Dog-Bone bolts must be secured with stainless steel tie wire. Never use normal steel baling wire.
- Do change the water on long pours to help cooling the hydraulic system. Water box water is considered 30% of the cooling system for hydraulic oil, oil coolers are approximately 70%.

DON'T

- Don’t ever put hands or tools inside the water box with the motor running due to the danger of serious injury.
- Don’t leave water box cover loose or removed after service maintenance (see photo).
- Don’t add soap to the water box. This washes the oil film from the drive cylinder rods and will wear out the drive cylinder chevron seals faster.
- Don’t leave water in the water box overnight if there is danger of freezing.

11.12 BATTERY CARE TIPS

HOW TO MAXIMIZE THE PERFORMANCE OF THE BATTERY

- **Keep the Batteries and Device Contacts Clean**
  Clean them with a cotton swab and alcohol.
- **Exercise the Battery**
  Do not leave the battery dormant for long periods of time. We recommend using the battery at least once every two or three weeks.
- **Prevent the Memory Effect**
  Keep the battery healthy by fully charging and then fully discharging it at least once every two or three weeks.
- **Battery Storage**
  If you don't plan on using the battery for a month or more, store it in a clean, dry, cool place away from heat and metal objects. NiCd, NiMh and Li-Ion batteries will self-discharge during storage.

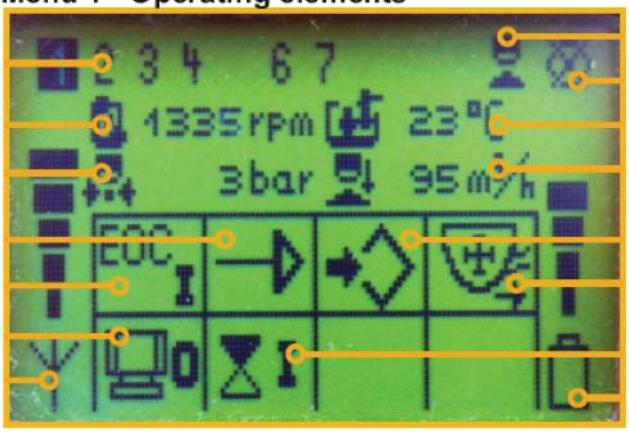
Notice

Use only manufacturer supplied batteries for reliable and safe operation.

11.13 ERGONIC® GRAPHIC DISPLAY (EGD) REMOTE CONTROL

Button for menu navigation
Menu navigation and setup by turning and pressing

Menu 1 - Operating elements

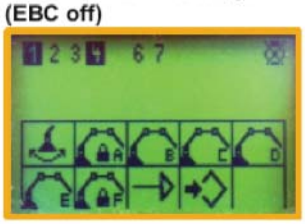


- Menu selection
- Engine rpm
- Concrete pressure
- Boom speed
- EOC on/off
- Vibrator on/off
- Radio field strength
- Pump status
- Display illumination on/off
- Hydr. Oil-Temperature
- Output
- Boom Setting
- Agitator on/off
- EQV on/off
- Capacity of battery

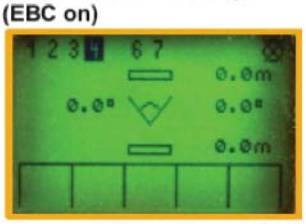
Menu 2 - Status EPS/EBC

Menu 3 - Concrete Pressure and limited Pressure

Menu 4 - Boom settings (EBC off)



Menu 4 - Boom settings (EBC on)



Changes to Menu 1 for confirmation by selecting 'Boom Setting'

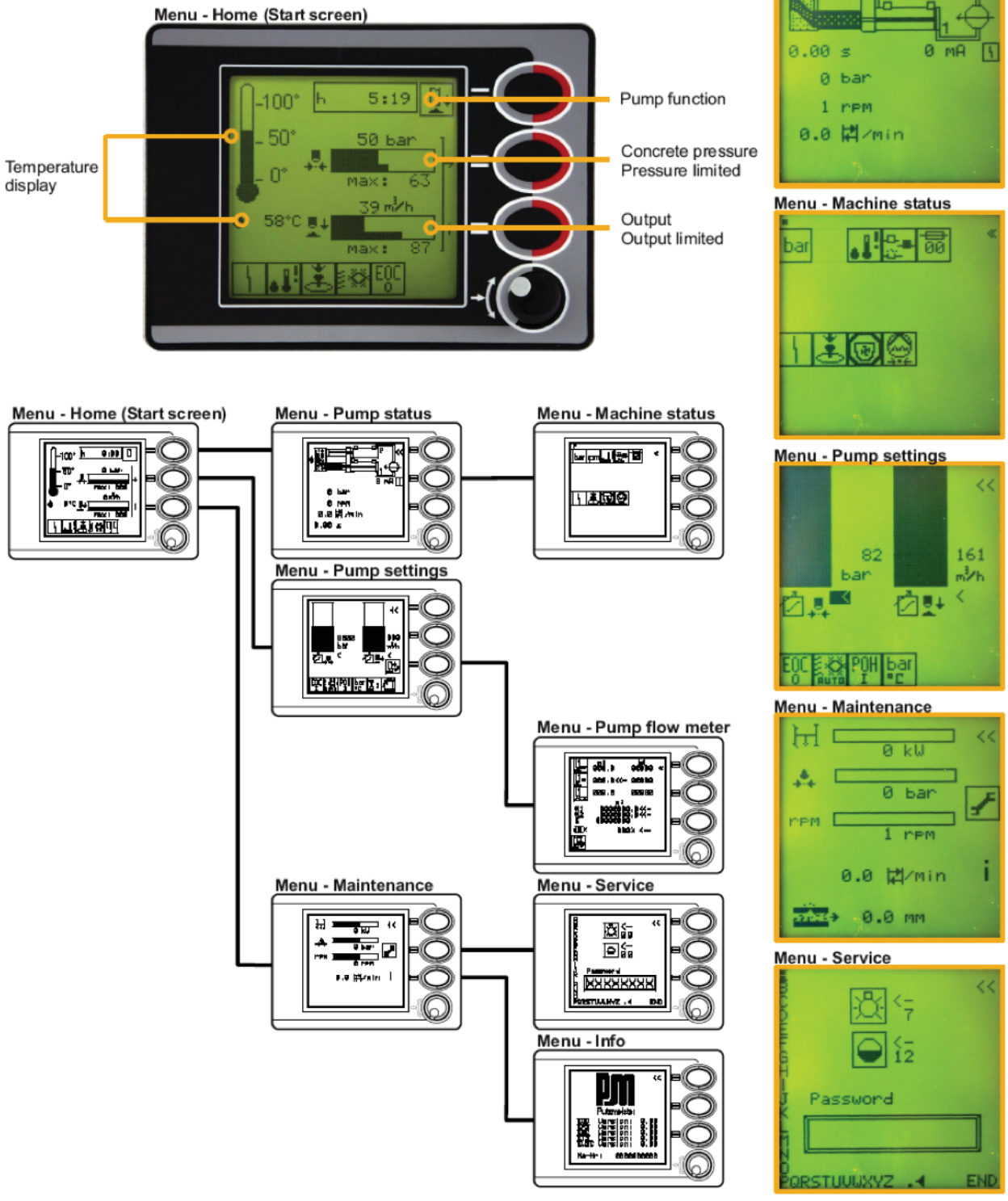
Menu 6 - Settings

Menu 7 - Failure display

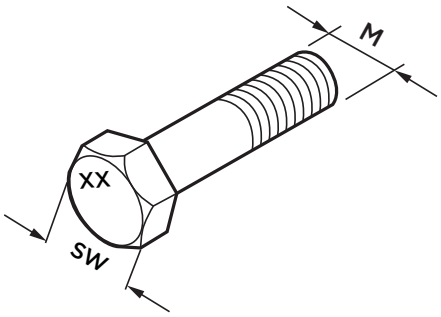
Reset - Reset to default

Press button 5 seconds

11.14 ERGONIC® GRAPHIC DISPLAY (EGD)



11.15 GENERAL TIGHTENING TORQUES



SW = Width across flats
X.X. = Grade 8.8, 10.9, 12.9

GENERAL TIGHTENING TORQUES

Tightening torques depend on bolt grade, thread friction and bolt head bearing area. The values given in the following tables are for guidance.

These values should only be used if no other values are specified in the relevant sections of the Operator's Manual or in spare part sheets.

The tables below give the maximum tightening torques in Nm for a friction factor tot =0.14, for a lightly-oiled or lightly-greased thread.

All tightening torques are multiplied by a factor of 1.1 for bolts with cement in the thread.

SET SCREWS — METRIC TRIANGULAR THREAD DIN 13, PART 13							
DIMENSIONS (MM)		TIGHTENING TORQUE Md (Nm)			TIGHTENING TORQUE Md (Ft-Lb)		
M	SW	8.8	10.9	12.9	8.8	10.9	12.9
M 4	7	3.0	4.4	5.1	2.22	3.26	3.77
M 5	8	5.9	8.7	10	4.37	6.44	7.4
M 6	10	10	15	18	7.4	11.1	13.3
M 8	13	25	36	43	18.5	26.6	31.8
M 10	17	49	72	84	36.3	53.3	62.2
M 12	19	85	125	145	62.9	92.5	107
M 14	22	135	200	235	99.9	148	174
M 16	24	210	310	365	155	229	270
M 18	27	300	430	500	222	318	370
M 20	30	425	610	710	315	451	525
M 22	32	580	820	960	429	607	710
M 24	36	730	1050	1220	540	777	903
M 27	41	1100	1550	1800	814	1147	1332
M 30	46	1450	2100	2450	1073	1554	1813

SET SCREWS — METRIC PRECISION THREAD DIN 13, PART 13							
DIMENSIONS (MM)		TIGHTENING TORQUE Md (Nm)			TIGHTENING TORQUE Md (Ft-Lb)		
M	SW	8.8	10.9	12.9	8.8	10.9	12.9
M 8 x 1	13	27	39	46	19.98	28.86	34.0
M 10 x 1.25	17	52	76	90	38.48	56.24	66.6
M 12 x 1.25	19	93	135	160	68.82	99.9	118.4
M 12 x 1.5	19	89	130	155	65.86	96.2	114.7
M 14 x 1.5	22	45	215	255	107.3	159.1	188.7
M 16 x 1.5	24	225	330	390	166.5	244.2	288.6
M 18 x 1.5	27	340	485	570	251.6	358.9	421.8
M 20 x 1.5	30	475	680	790	351.5	503.2	584.6
M 22 x 1.5	32	630	900	1050	466.2	666	777
M 24 x 2	36	800	1150	1350	592	851	999
M 27 x 2	41	1150	1650	1950	851	1221	1443
M 30 x 2	46	4650	2350	2750	1221	1739	2035

11.16 REPLACING HYDRAULIC HOSES

FLARED SCREWED JOINTS		
EXTERNAL DIAMETER	TYPE	MAX TORQUE Md Ft Lbs (Nm)
6	L	15 (20)
8	L	30 (40)
12	L	41 (55)
12	S	59 (80)
15	L	52 (70)
16	S	96 (130)
18	L	89 (120)
20	S	184 (250)
25	S	295 (400)
30	S	369 (500)
38	S	590 (800)

REPLACING HYDRAULIC HOSES

The procedure for replacing hoses is as follows:

1. Lower the boom back into its rests or position on ground, so that the components are not being supported by hydraulic pressure.
2. Shut down the machine.
3. Perform Lock Out – Tag Out procedure and secure against unauthorized starting.
4. Fully dump any (residual) pressure in the hydraulic system.
5. Take care when loosening hose end fittings, and all hydraulic fittings in general.

Notice

You may only tighten leaking flared screwed joints to the permitted torque values listed below. If you do not have a torque wrench available, tighten the joint until you clearly feel an increase in the force is required. You must replace flared screwed joints if leakage continues after being tightened to the maximum permitted torque values.

WARNING

Hydraulic hoses may be mechanically pre–stressed. There is a risk of injury from whipping hoses when the hose is removed from its fitting.

Notice

Catch escaping fluid in a container and dispose of in an environmentally friendly manner.

12
FORMS

12.1 ORDER FORM

Putzmeister America, Inc.
1733 90th St., Sturtevant, WI 53177
Toll-free (800) 890-0269 Phone (262) 886-3200
Fax (262) 884-7259
PutzmeisterAmerica.com

Ordering is fast and easy. Simply copy this form, fill out your order and fax to (262) 884-7259.

Bill To: ☐ Same As Ship To

Ship To:

SHIPPING INSTRUCTIONS	
☐ CTC	☐ Next Day
☐ UPS	☐ N/D By 8:00 am
☐ FedEx	☐ N/D By 10:30 am
☐ Freight	☐ Saver
☐ Will Call	☐ Ground
☐ Special Instructions	☐ 2-Day
	☐ 3-Day
	☐ Standard

Attn.:

Customer P.O.:

Order Placed By:

Phone:

Fax:

Model:

Serial #:

SALESPERSON	ORDER DATE	ORDER NUMBER

QUANTITY	PART NUMBER	DESCRIPTION	PRICE

Notes or Comments: _____

12.1 ORDER FORM

PERFORMANCE, QUALITY, AND FAST SHIPPING.

For any questions, the Putzmeister Shipping Department is able to help you Monday – Friday, 8:00 a.m.– 5:00 p.m. (CST), at (800) 890-0269.

- Standard UPS Ground and FedEx Ground orders take 24 hours for processing.
- Standard freight shipments may require additional time depending on the size of the order.
- All dealer “stocking orders” will be processed and shipped within 5 business days of the placed order.
- Every attempt to place an order before 3:00 p.m. and ship out the same day will be made, but a “No Guarantee” condition applies.
- “Next Day” and “Unit Down” orders will be given priority.
- Orders placed after 3:00 p.m. (CST) should be requested to ship Next Day Air, or the order may ship the next business day.
- UPS and FedEx pick-ups occur at 5:00 p.m. (CST) and LTL Freight carriers require prior scheduling notice.

If you have special shipping requirements, please notify your Parts Sales Representative at the time the order is placed. Our team will make every effort to meet your requirements.

Toll Free Emergency Parts and Service Hotline (800) 890-0269

12.2 WARRANTY CLAIM FORM

Putzmeister

Putzmeister America, Inc.
1733 90th St., Sturtevant, WI 53177
Toll-free (800) 890-0269 Phone (262) 886-3200
Fax (262) 321-6803
PutzmeisterAmerica.com

FOR FACTORY USE ONLY
WARRANTY CLAIM NUMBER

Claim Date	
Date of Failure (mo/day/yr)	

IMPORTANT! Fill in all areas on this report! Failure to complete or falsification of any data contained herein will automatically constitute a denial of this claim.

1. OWNER IDENTIFICATION

	E-mail or Fax	
Name	**Company**	
Address		
City	**State/ZIP**	**Phone**

2. PRODUCT IDENTIFICATION

	Product Serial No.
Hours of Service	**Product Model No.**

3. PUTZMEISTER CUSTOMER I.D.

	Phone	**E-mail**
Customer No.	**Claim Prepared By**	
Name	**City**	**State/Zip**

4. PARTS CLAIMED

All non-Putzmeister parts or authorized repairs claimed below **MUST** be accompanied by a copy of the invoice.

Part Number	Quantity	Description	Replaced on Invoice Number

5. REASON FOR CLAIM

DESCRIBE IN DETAIL. Provide additional details on separate page.

Return to: E-mail: warranty@putzam.com
Fax: (262) 321-6803

Please contact PMA's Customer Support Group with questions at (800) 890-0269

Putzmeister America, Inc.
1733 90th Street, Sturtevant, WI 53177

12.3 RETURN MATERIAL AUTHORIZATION (RMA) FORM

Putzmeister

Putzmeister America, Inc.
1733 90th St., Sturtevant, WI 53177
Toll-free (800) 890-0269 Phone (262) 886-3200
Fax (262) 321-6802
PutzmeisterAmerica.com

1. PUTZMEISTER DEALER INFO (FOR CUSTOMER COMPLETE ONLY)

Customer No.
Name
City, State, Zip
E-mail or Fax
Form Prepared By

PUTZMEISTER INFORMATION (FOR OFFICE USE ONLY)

RMA NUMBER (Given by Customer Support at 1-800-890-0269 or returns@putzam.com)

Claim Date (mo/day/yr)	
Request Date (mo/day/yr)	

IMPORTANT! Fill in all areas on this report! Failure to complete or falsification of any data contained herein will automatically constitute a denial of this claim.

2. AUTHORIZED ITEMS FOR RETURN

#	Part Number	Part Description	Quantity	Purchased on Invoice Number

3. REASON FOR RETURN

DESCRIBE IN DETAIL. Provide additional details on separate page.

Return to: E-mail: returns@putzam.com
Fax: (262) 321-6802

Please contact PMA's Customer Support Group with questions at (800) 890-0269

Putzmeister America, Inc.
1733 90th Street, Sturtevant, WI 53177

12.4 PARTS RETURN POLICY

CONDITIONS UNDER WHICH PUTZMEISTER AMERICA, INC. WILL ACCEPT ANY PARTS RETURNED FOR CREDIT ARE:

1. Items ordered or shipped in error must be reported within five (5) business days of receipt of the shipment.
2. Returned items or components must be new and unused, of Putzmeister America, Inc. manufacture or origin, and carefully packaged to prevent shipping damage.
3. These items will be subject to a 15% restocking charge if they were improperly ordered or if they are reported after the five (5) day period.
4. All items or components must be returned within thirty (30) days of approval for return. Items received beyond the thirty (30) day period are subject to rejection and return to sender freight collect.
5. Fill out the Return Material Authorization (RMA) Form and send back to returns@putzam.com or call Putzmeister Customer Support Group at (800) 890-0269 for a RMA number. Failure to complete or falsification of any data will automatically constitute a denial of this claim.
6. All parts returned to Putzmeister America, Inc. must be tagged with the corresponding RMA number. A copy of the RMA Form and copies of the appropriate Putzmeister America, Inc. invoice must be included with the shipment. Parts returned without these item(s) are subject to rejection and return to sender freight collect.
7. Return the authorized items to:

   Putzmeister America, Inc.
   Attn: Returns Department, RMA No. (add RMA No. here)
   1733 90th Street
   Sturtevant, WI 53177 USA

   TOLL-FREE (800) 890-0269

   RMA Number must be clearly visible on the outside of the package. Collect shipments will not be accepted. Freight charges are not accepted under Putzmeister's warranty.

PARTS NOT ACCEPTABLE FOR RETURN

1. Parts shipped as components of a complete assembly.
2. Parts that have been disassembled, used, damaged, or installed on equipment.
3. Parts which have been cut, welded, or otherwise modified from the original finished part, or that have been painted, coated, or protected with something other than the original finish.
4. Parts ordered for a discontinued model or special applications (special order parts) or which were given a special consideration.
5. Fabricated or formed sheet metal parts.
6. Parts purchased more than twelve (12) months previously.
7. Parts not purchased from Putzmeister America, Inc.
8. Electrical and electronic components (switches, relays, solenoids, coils, controller or parts, circuit boards, batteries, etc.)
9. Parts or components damaged in transit. Note: This damage must be taken up with the carrier or shipper involved.
10. Manuals cannot be returned for credit.
11. Any parts or components returned to Putzmeister America, Inc. without prior approval (RMA Form) will be returned to the sender freight collect.
12. Rubber parts with a limited shelf life, such as O-rings, hoses and seals are returnable within six (6) months of invoice date provided they are in the originally supplied Putzmeister America, Inc. packaging.

THANK YOU FOR BEING A VALUED PUTZMEISTER CUSTOMER. OUR DEDICATED TEAM IS ALWAYS READY WITH TIMELY SERVICE, RELIABLE SUPPORT AND GENUINE PARTS. FEEL FREE TO CONTACT US AT ANY TIME FOR ASSISTANCE.

PUTZMEISTER AMERICA, INC.

1733 90th Street
Sturtevant, WI 53177

PHONE (262) 886-3200
TOLL-FREE (800) 884-7210
FAX (262) 884-6338
WEB PutzmeisterAmerica.com
EMAIL pmr@putzam.com

WEST COAST CUSTOMER SUPPORT CENTER

13000 Arctic Circle
Santa Fe Springs, CA 90670

TOLL-FREE (800) 581-3245
FAX (562) 229-1713

PUTZMEISTER HOUSTON

121 Genadena St.
Houston, TX 77034

PHONE (713) 589-8781
TOLL-FREE (866) 297-8965
FAX (713) 589-8591

PUTZMEISTER MEXICO

Nefertem 3102
Parque Industrial Kalos Guadelupe-Aeropuerto
Guadalupe, Nuevo Leon 67197
Mexico

PHONE 52 (81) 153-47730

PUTZMEISTER BRAZIL

Estrada Municipal do Mingú
1407 - Parque Rio Abaixo
Atibaia, SP Brazil, 12952-720

PHONE 55 (114) 416-6200
FAX 55 (114) 416-6203

PM 4651-1 US

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Printed in the USA (2.01605)