



SOCIAL RESPONSIBILITY

REPORT 2014



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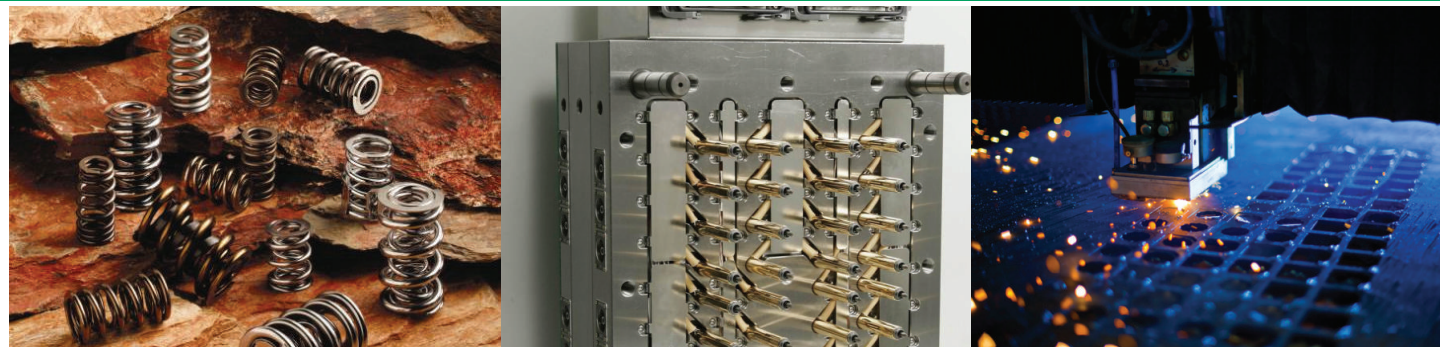
BARNES GROUP OVERVIEW Who We Are

Barnes Group Inc. (NYSE: B) is an international industrial and aerospace manufacturer and service provider, serving a wide range of end markets and customers. The highly engineered products, differentiated industrial technologies, and innovative solutions delivered by Barnes Group are used in far-reaching applications that provide transportation, manufacturing, healthcare products, and technology to the world. These vital needs are met by our skilled and dedicated workforce, a critical resource of Barnes Group. Founded in 1857 and headquartered in Bristol, Connecticut, Barnes Group was organized as a Delaware corporation in 1925. We have paid cash dividends to stockholders on a continuous basis since 1934. As of December 31, 2014, we had approximately 4,500 employees at over 60 locations worldwide. We operate under two global business segments: Industrial and Aerospace.



SEGMENT OVERVIEW

What We Do



INDUSTRIAL

Our Industrial business is a global manufacturer of highly-engineered, high-quality precision parts, products and systems for critical applications serving a diverse customer base in end-markets such as transportation, industrial equipment, consumer products, packaging, electronics, medical devices, and energy. Focused on innovative custom solutions, Industrial participates in the design phase of components and assemblies whereby customers receive the benefits of application and systems engineering, new product development, testing and evaluation, and the manufacturing of final products.

Industrial designs and manufactures customized hot runner systems and precision mold assemblies - the enabling technologies for many complex injection molding applications. It is a leading manufacturer and supplier of precision mechanical products, including mechanical springs and nitrogen gas products. Industrial also manufactures high-precision punched and fine-blanked components used in transportation and industrial applications, nitrogen gas springs and manifold systems used to precisely control stamping presses, and retention rings that position parts on a shaft or other axis. Industrial is equipped to produce virtually every type of precision spring, from fine hairsprings for electronics and instruments to large heavy-duty springs for machinery.



AEROSPACE

Our Aerospace business is a global provider of precision-machined and fabricated components and assemblies for original equipment manufacturer (OEM) turbine engine, airframe and industrial gas turbine builders, and for the military. Aerospace also provides jet engine maintenance overhaul and repair (MRO) services, including our Component Repair Programs (CRPs), for many of the world's major turbine engine manufacturers, commercial airlines, and the military. Aerospace aftermarket activities include the manufacture and delivery of aerospace aftermarket spare parts, including our revenue sharing programs (RSPs) under which the Company receives an exclusive right to supply designated aftermarket parts over the life of the related aircraft engine program.



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CORPORATE SOCIAL RESPONSIBILITY AT BARNES GROUP

Barnes Group is committed to preserving and protecting our natural environment, and to promoting and maintaining a safe workplace. In this regard, our operations are conducted in conformance with all applicable laws and regulations, as well as with all of our corporate policies pertaining to workplace safety and protection of the environment.

In 2014, we launched Barnes Group's formal company-wide Corporate Social Responsibility (CSR) initiative, led by our Director of Health, Safety & Environmental Affairs (HSE). As part of this effort and through cross-functional collaboration, Barnes Group has established a baseline which will enable us to make commitments toward reducing our environmental footprint and making our products and operations more sustainable.

This is our first CSR report, and we intend to update our stakeholders annually on our progress.



GOVERNANCE AND ETHICS



GOVERNANCE

Barnes Group is a publicly held company that trades on the New York Stock Exchange under the ticker symbol “B”. The Board of Directors is our highest governing body and, as of the issuance of this report, is comprised of nine directors, the substantial majority of whom are independent. We have a standing Audit Committee, Compensation and Management Development Committee, and Corporate Governance Committee. At Barnes Group, our Board of Directors and senior management devote considerable time and attention to corporate governance matters and we maintain a comprehensive set of policies and procedures to enable effective corporate governance. The following documents are available on the Investor Relations section of our corporate website at www.bginc.com:

- *Corporate Governance Guidelines*
- *Audit Committee Charter*
- *Compensation and Management Development Committee Charter*
- *Corporate Governance Committee Charter*
- *Code of Ethics Applicable to Senior Executives*
- *Political Activity Policy*
- *Conflict Minerals Policy*
- *Code of Business Ethics and Conduct*
- *Policy Regarding Reporting of Complaints and Concerns*



ETHICS AND COMPLIANCE

We strive to conduct business with the highest ethical standards, and we are committed to collaboration and continuous improvement. Our objective is to achieve 100% completion of our core trainings on Global Anti-Corruption, Code of Business Ethics and Conduct, and Harassment Free Workplace, which are assigned to specific groups of employees on a regular and recurring basis.

The Compliance Office, together with Human Resources, continually evaluates Barnes Group businesses and functional roles for compliance-related risks in order to develop a training plan that is tailored to the risk profile of the Company. Also, the Compliance Office annually issues an Executive Questionnaire to officers and business leaders in order to pulse management on key compliance areas and identify topics for focused training and standard work enhancement.

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HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS (HSE)

Barnes Group is committed to promoting and maintaining a safe workplace for our employees. Through initiatives such as the Critical Risk Mitigation Program and other injury prevention activities, in 2014, Barnes Group reduced lost time incidents by 23% and recordable incidents by 11% from 2013.

In addition, more than half of our manufacturing facilities worked the entire year without a lost time injury in 2014.

We are proud of our safety accomplishments, especially in light of our diverse manufacturing processes. We believe this is a testament of our commitment to our employees and our culture of empowering teams to identify and report potential safety issues through HSE Audits & Inspections, Gemba Walks and Near Miss programs.



HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS (HSE)



HSE COMPLIANCE

Barnes Group strives to ensure that all aspects of our operations are conducted in conformance with applicable laws and regulations, as well as with all of our corporate policies pertaining to workplace safety and protection of the environment.

In certain cases, the Company or its strategic business units (SBUs) may establish more stringent requirements as policies, procedures or directives. At the corporate level, these requirements are documented as BGI HSE Standards.

The BGI HSE Standards are consistent with our commitment to worker health and safety and to environmental protection, as well as prevailing regulatory frameworks in place around the globe. All locations are required to meet the local law or regulation, or the BGI HSE Standards, whichever are more stringent.

We focus our time and resources on identifying and controlling hazards in the workplace to ensure compliance and our employees' safe return to their homes and families at the end of their work day. Across the globe in 2014, Barnes Group had two non-conformances for which we paid fines; these deficiencies have been remediated and the lessons learned shared across the organization with mandatory corrective actions tracked in a centralized system. Our goal is to eliminate HSE non-compliance in 2015 and beyond.



WASTE

Barnes Group enacted three internal standards in 2013 which created a framework for environmental data reporting. All operations are now required to report air, water, waste and energy data using a common online system.

Centralized reporting of both non-recycled and recycled industrial process wastes began in 2014. This data will enable us to identify pollution prevention and waste minimization opportunities, as well as to drive towards recycling a greater percentage of our industrial waste streams.

11 of our Barnes Group facilities' environmental management systems are registered under ISO 14001.



Barnes Group started eliminating chlorinated solvents from our manufacturing processes many years ago. In 2013, we formalized our policy prohibiting the use of chlorinated solvents in our operations.

HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS (HSE)



ENERGY

Beginning in 2014, all operations were required to report energy data using a common online system. Centralized reporting enabled the Company to establish a baseline in 2014, and operations were asked to identify and budget for energy conservation projects for 2015. While centralized reporting and goal-setting is new for Barnes Group, energy conservation initiatives have been implemented for years. For example, several of our operations have already implemented projects such as installing energy-efficient lighting and variable-speed air compressors. We look forward to communicating specific projects and improvements from our baseline in our next report.

HIGHLIGHT - ENERGY CONSERVATION IN BARNES AEROSPACE

Barnes Aerospace, West Chester, Ohio recently replaced its aging compressor and dryer fleet with a new, state of the art, compressed air utility service solution. The DirectAIR® system was installed in June 2014 and has been providing clean, dry air for the operation ever since. We have experienced 100% reliability with no moisture issues in our air header. The previous compressed air system consisted of two 75HP compressors, and one rented 75HP compressor and dryer. The old system consumed 953,293 kWh annually, while the new system used just 620,048 kWh. That represents a 35% energy savings and a \$23,327 annual cost savings.

Through our DirectAIR® solution, Barnes Aerospace, West Chester was also able to eliminate over \$38,000 of other annual operating costs such as compressor/dryer rental costs, maintenance costs, internal labor, excess production equipment costs due to wet air, occasional lost production, and scrap costs due to low air pressure.



HIGHLIGHT - ENERGY CONSERVATION AT HEINZ HÄNGGI

Heinz Hänggi is committed to achieving compliance with environmental requirements. In addition to its ISO/TS 16949 and OHSAS 18001 certifications, Heinz Hänggi management successfully introduced the certification under ISO 14001 in 2010. As part of the registration and certification of its environmental management system, investments were made to reduce environmental impacts. Heinz Hänggi was able to stabilize its consumption of electrical power since 2011 despite an increased production level of more than 20%. This great improvement of our energy efficiency is the result of a multi-year commitment to save energy via specific actions such as:

- Modifying transfer presses to servo technology (2011)
- Replacing old windows with new glass with better insulation (2011)
- Replacing air-pressure system with a “burden sharing” controller unit (2012)
- Replacing regenerative heat recovery system (2012)
- Modifying robots to servo technology (2013)
- Replacing fine blanking press with Feintool XFT1500 equipped with a Kinetic Energy Recovery System (KERS) (2014)



West Chester received a one-time Energy Smart Saver Rebate from the local energy provider that totaled \$31,000 for making the energy saving change to variable speed drive technology, and a master monitoring and control system operating the system 24/7.

HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS (HSE)



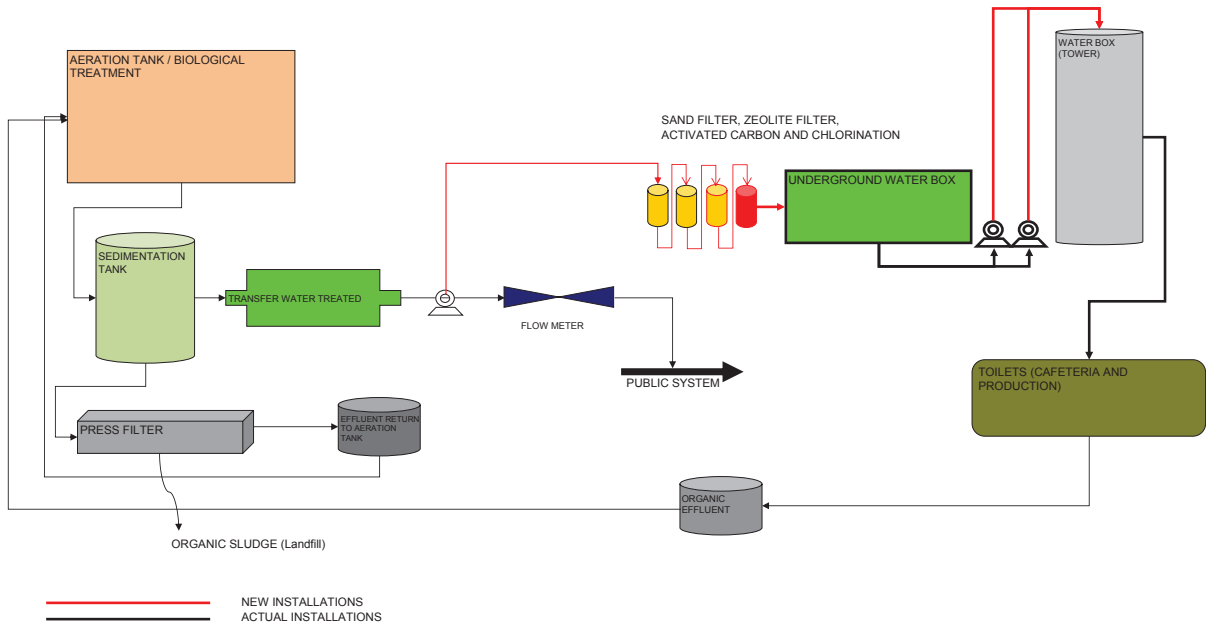
WATER

As with energy, Barnes Group operations reported water usage data in 2014 and were asked to identify and budget for water conservation projects for 2015. Again, while centralized reporting and goal-setting is new, water conservation initiatives are not. For example:

- Our Associated Spring facility in Mexico City determined that they were using approximately 10,000 liters per day in showers in the employee locker rooms. The team installed water-saving shower heads and achieved an impressive savings of more than 180,000 liters of water per year for a total investment of only \$50.
- Our Associated Spring facility in Campinas, Brazil recently implemented a reuse project whereby industrial wastewaters are treated and then reused in restroom facilities to reduce our consumption of potable water.
- Our Barnes Aerospace Ogden, Utah Division implemented a process change utilizing spray rinse in place of immersion in the chemical process line, which has reduced the amount of potable water used as rinse water. The new spray rinse process saves an impressive 300,000 gallons of water per month.

These are just a few examples of water conservation in action at Barnes Group, and we look forward to sharing additional success stories and improvements in our next report.

SCHEMATIC - BENEFICIAL REUSE OF TREATED WATER IN SANITARY FACILITIES - ASSOCIATED SPRING, BRAZIL



Water Usage is defined at Barnes Group as the total amount of water measured in gallons consumed by a facility including municipal water (supplied to a facility from a public distribution system), well water, and water withdrawn from surface water and groundwater resources, including non-conventional anthropogenic water sources such as water produced at desalination plants.

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PEOPLE, TRAINING, WELLNESS

At Barnes Group, we believe that no matter what your level of well-being, it is never too late to improve your lifestyle and to make the most of your health and well-being. Our wellness programs have been designed with this goal in mind – to provide tools, resources and support for employees and their family members to adopt healthier lifestyles and create meaningful and lasting change towards their personal health improvement and to ensure a stable workforce for the Company. We also support professional well-being by offering a diverse set of professional training and development programs.



PEOPLE, TRAINING, WELLNESS



DIVERSITY AND INCLUSION

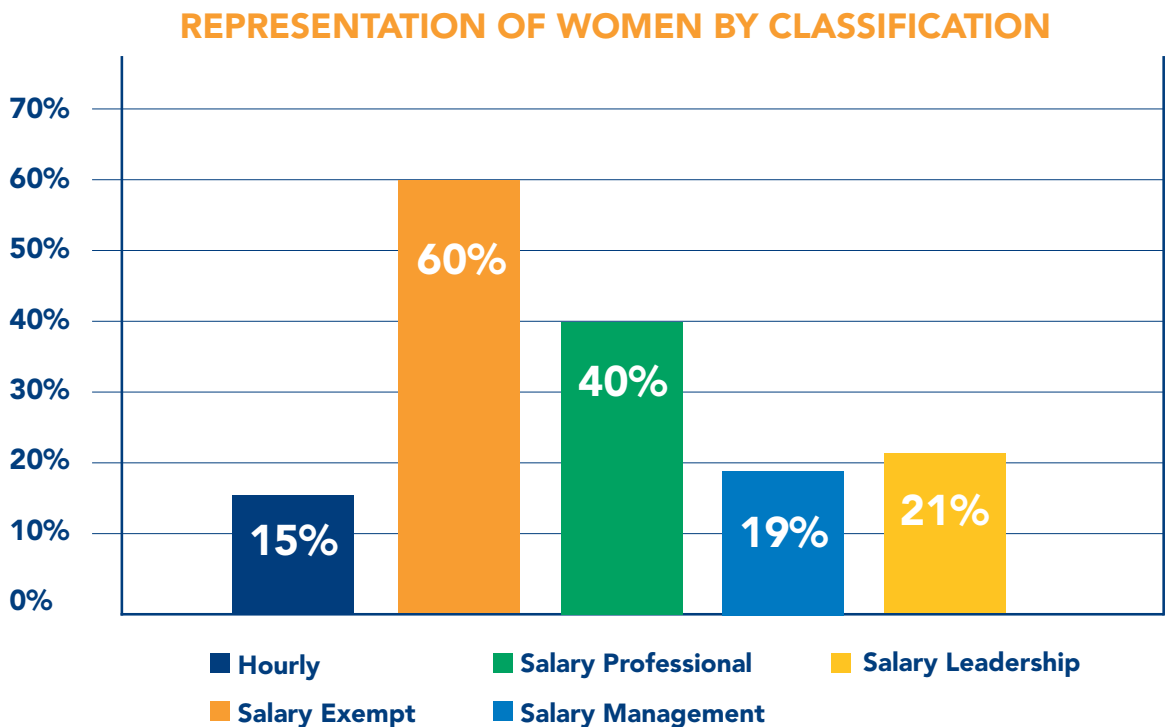
We at Barnes Group are successful through a passionate and energized workforce. We employ approximately 4,500 people in over 60 locations.

U.S. ETHNIC MINORITIES BY CATEGORY	2014
American Indian / Alaskan Native	Less than 1%
Asian	5%
Black / Not Hispanic Origin	4%
Hispanic	7%
Native Hawaiian or Other Pacific Islander	Less than 1%
Not Specified / Unknown	3%
Two or More Races	Less than 1%
White / Not Hispanic Origin	79%



DIVERSITY AND INCLUSION

Barnes Group strives for diversity at all levels of the organization. Additionally, we look to increase women in hourly, management and salaried leadership positions. The recruitment process is an important element in achieving a better gender balance. One of Barnes Group’s goals is to have one candidate from the underrepresented gender on the shortlist in each recruitment situation.



PEOPLE, TRAINING, WELLNESS



TRAINING AND DEVELOPMENT

Barnes Group provides a wealth of opportunities for employee development at all levels of the organization, including conferences, formal leadership and skills training programs, tuition reimbursement, and online learning through Barnes University.

In 2014, we had more than 45 employees participate in our formal leadership and development programs:

- *Barnes Leadership Development Program (BLDP)*
- *Barnes Emerging Leaders Program (BELP)*
- *Barnes Enterprise System Leadership Program (BESLP)*

The BLDP, created in 2000, is a seven-month modularized program that provides enhanced leadership skills and competency development to small groups (8 - 10 people) of manager-level employees from Barnes Group businesses around the globe. BLDP focuses solely on developing the precise skills our managers need to reach the highest levels of excellence and performance in their current roles, as well as enhance future career growth and opportunities for advancement.

The BELP, created in 2006, is an intensive one-week development program designed to help participants realize their fullest potential at Barnes Group by providing the essential building blocks needed for managerial and leadership success within our organization. Participants in this program are also offered a unique opportunity to build relationships with peers, as well as meet and interact with senior leaders from within and across the organization.



TRAINING AND DEVELOPMENT

The BESLP, created in 2010, is an intensive three-week training program that provides practical skills and competency building to enable participants to effectively, efficiently, and reliably develop organizational cultures at their businesses that create value for stakeholders in complex and rapidly changing environments. The program also enables participants to better manage all aspects of the Barnes Enterprise System's (BES) continuous improvement strategies, and increase their teams' performance through utilization of effective communication skills.

All of our programs are aligned with our Corporate Values and designed to focus on exposing high potential, high performing employees to specific development opportunities that will further enhance their leadership skills and capabilities.

We also provide formal and informal coaching and mentoring programs designed to help guide career paths and make the most of the career opportunities available at Barnes Group worldwide.

WELLNESS

At Barnes Group, we work to promote the physical and mental wellness of our employees by providing incentives, resources, and information to help them live healthier, more balanced lives. Employees can find a wealth of support, information, independent and group initiatives and activities, and other health related advice and resources 24/7 on our Benefits 360° website.

PEOPLE, TRAINING, WELLNESS



HIGHLIGHT - WELLNESS NOTABLE ACHIEVEMENTS

DOMESTIC:

Enhanced 'Healthy Directions' wellness program launched January 1, 2014. Programs include:

- Metabolic Screenings
- Health Risk Assessments
- Preventive Instructor-Led Online Wellness Classes
- Self-Directed Online Workshops
- Team-Based Challenges

Introduced 'Life Coach' to Healthy Directions program lineup effective September 1, 2014:

- The program provides on-demand health coaching. A trained health coach works with employees to develop an action plan and strategy personalized for their specific health needs. Coaching is available for healthy eating, weight management, smoking cessation, stress management, exercise programs and more. Coaches support employees through regular phone sessions or e-mail 24 hours a day, 7 days a week.

INTERNATIONAL:

Implemented two Employee Assistance Programs (EAP) and Work/Life Programs at Synventive, China, and Heinz Hänggi, Switzerland. Remaining international locations launched January 1, 2015. The Employee Assistance and Life Management Program is a professional, confidential and free service, designed to support employees and their families with their personal and work-related issues in order to promote better performance at work and organizational well-being. The program is available telephonically or face-to-face, including services such as:

- Professional counseling and psychological assistance for a broad range of personal, emotional and family issues - stress, anxiety, depression, bereavement/grieving, substance abuse, relationships and other social issues
- Legal, financial and debt management consultation
- Child and elder care resources
- Most services available in-country and in local language



HIGHLIGHT - BARNES AEROSPACE, WEST CHESTER DIVISION OPENS WELLNESS TRAIL

In October of 2014, Barnes Aerospace, West Chester Division, held a Wellness Fair to promote healthy lifestyle choices for employees. Among other activities, the fair featured an obstacle course to test employees' fitness and massages to demonstrate the benefits of relaxation. Representatives from the Company's health insurance carriers and EAP were on hand, in order to educate employees about how to take full advantage of their options.

The cornerstone of the fair, however, was the opening of the Barnes Aerospace, West Chester Campus Wellness Trail. Measuring just under a half of a mile, the Wellness Trail, which loops around the property, was built for employees to promote healthy living and allow them to take advantage of the property grounds before or after work, and during breaks. The path currently has three picnic tables and five park benches located in various spots around it. Future plans for the trail include adding landscaping and activities, such as corn hole (bean bag toss), horseshoes, and basketball, and incorporating other employee suggestions. The Wellness Trail was built in recognition of our employees - the most important part of Barnes Group.



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BARNES IN THE COMMUNITY

At Barnes Group, we believe that being a good corporate citizen begins with being a great community leader, which is why we encourage philanthropy, compassion and change through our Barnes Group Foundation. Founded in 1945 and supported by Barnes Group, the Barnes Group Foundation is committed to the support of education, the arts, civic and youth activities, and health-related charities in the communities in which the Company operates. Since 2000, the Foundation has supported more than 400 schools, cultural centers and health-related charities, helping to ensure a legacy of community support for the future.



BARNES IN THE COMMUNITY

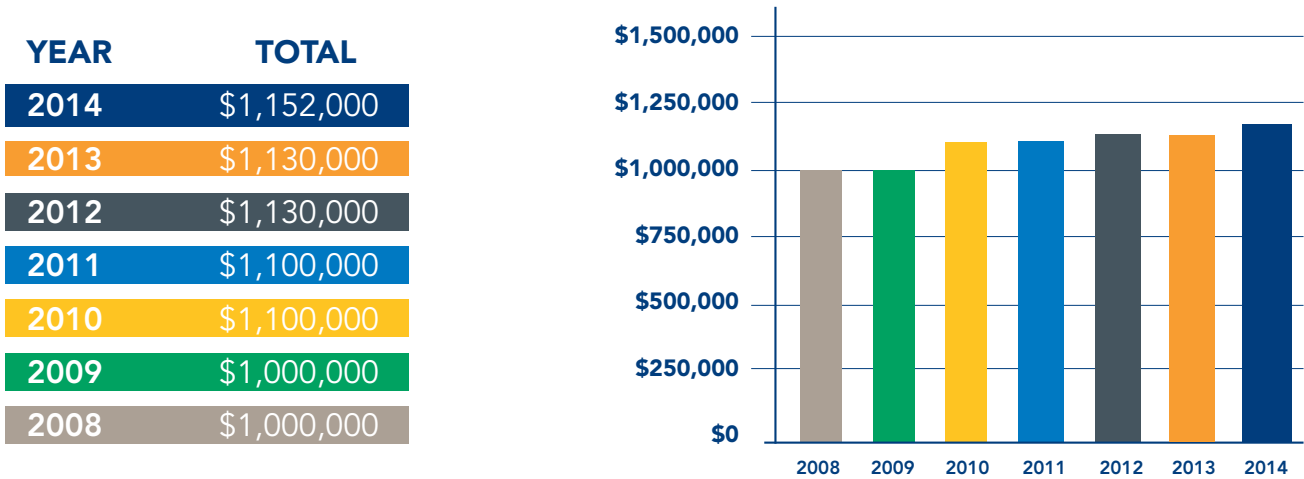


BARNES GROUP FOUNDATION

The Barnes Group Foundation is a private grant-making organization supported by Barnes Group as a vehicle for providing a balanced contribution program to accomplish the Company’s objective of good corporate citizenship.

The Foundation’s highest priority is to support organizations and projects in communities where the Company has offices and other facilities. The Foundation also makes a limited number of contributions to organizations with programs that have broad impact on the community and exhibit an innovative and resourceful approach to the solution of difficult local, national and international problems.

TOTAL DOLLARS CONTRIBUTED

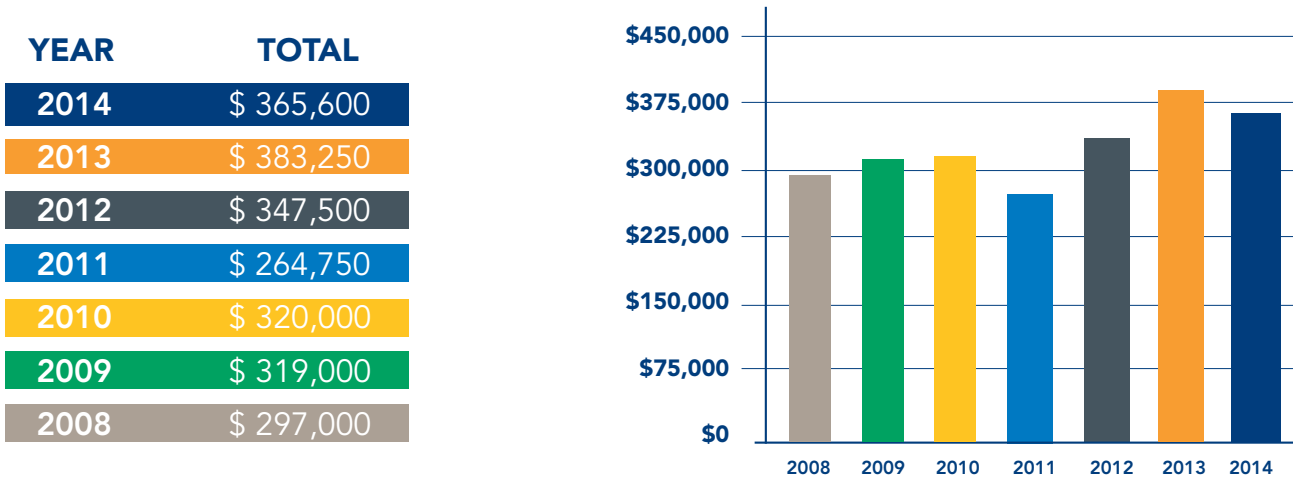


STUDENT SCHOLARSHIP PROGRAM

The Barnes Group Foundation has established a scholarship program to assist an employee’s child who plans to pursue post-secondary education in college and vocational programs. Renewable scholarships are offered each year for full-time study at any accredited post-secondary institution of the student’s choice.

The scholarship is administered by Scholarship Management Service, a department of Citizens’ Scholarship Foundation of America, Inc. (CSFA). CSFA is a national nonprofit educational support and student aid service organization that seeks to involve and assist the private sector in expanding educational opportunities and encouraging educational achievement. Awards are granted without regard to race, color, creed, religion, gender, disability, or national origin.

TOTAL AWARDS FOR SCHOLARSHIP PROGRAM



BARNES IN THE COMMUNITY



MATCHING GIFTS PROGRAM

Barnes Group provides a 2-to-1 matching gifts program for employee donations made to qualified nonprofit organizations, up to a yearly cumulative maximum of \$4,000 per employee/spouse. Qualifying organizations must be recognized as tax-exempt under Section 501(c)(3) or Section 170(c)(1) of the Internal Revenue Service Code and fit into one or more of the following categories:

- Education
- Cultural and Arts
- Civic and Youth
- Health and Welfare

YEAR	TOTAL
2014	\$6,000
2013	\$4,000
2012	\$5,500
2011	\$5,000
2010	\$8,500
2009	\$13,500
2008	\$13,000

YEAR	TOTAL
2014	\$111,299
2013	\$188,512
2012	\$214,345
2011	\$236,986
2010	\$253,727
2009	\$195,891

VOLUNTEER ACTION AWARDS

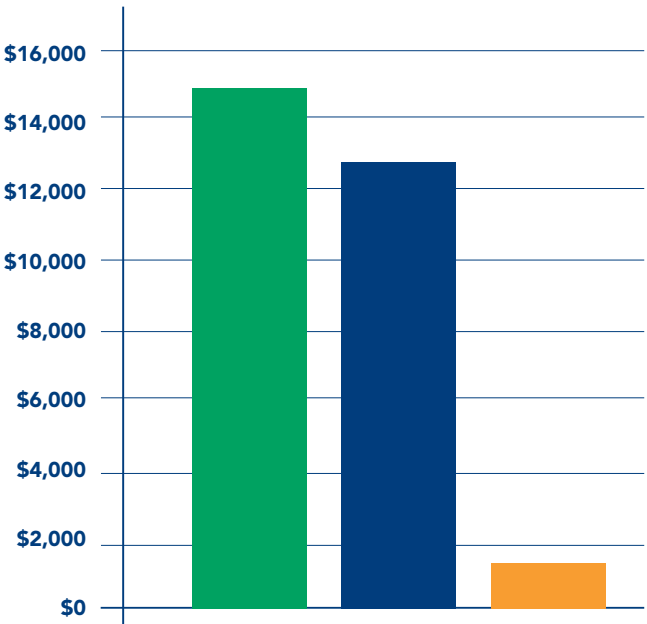
The Foundation believes it is vital to the health of every community that citizens be active in local organizations. Employees who volunteer a minimum of 30 hours to assist a local charitable organization during the year are eligible to apply for a Volunteer Action Award. Volunteer Action Awards are grants of up to \$2,000 presented to the charitable organization at which the employee has donated his/her time.



CHARITABLE GIVING PROGRAM

Barnes Group also supports charitable giving at our international locations through our 1-to-1 matching program. All locations are eligible for the matching gift given in support of employee projects that involve the entire location and support a charitable organization or project that has a positive impact on the community.

CHARITABLE GIVING PROGRAM



- Associated Spring Brazil - Projects in the Creche Bento Quirino School - **\$14,718**
- NGP Sweden - Donation to Red Cross for flood victims in Bosnia - **\$12,390**
- Heinz Hänggi - Donation to Red Cross for flood victims in Bosnia- **\$1,561**

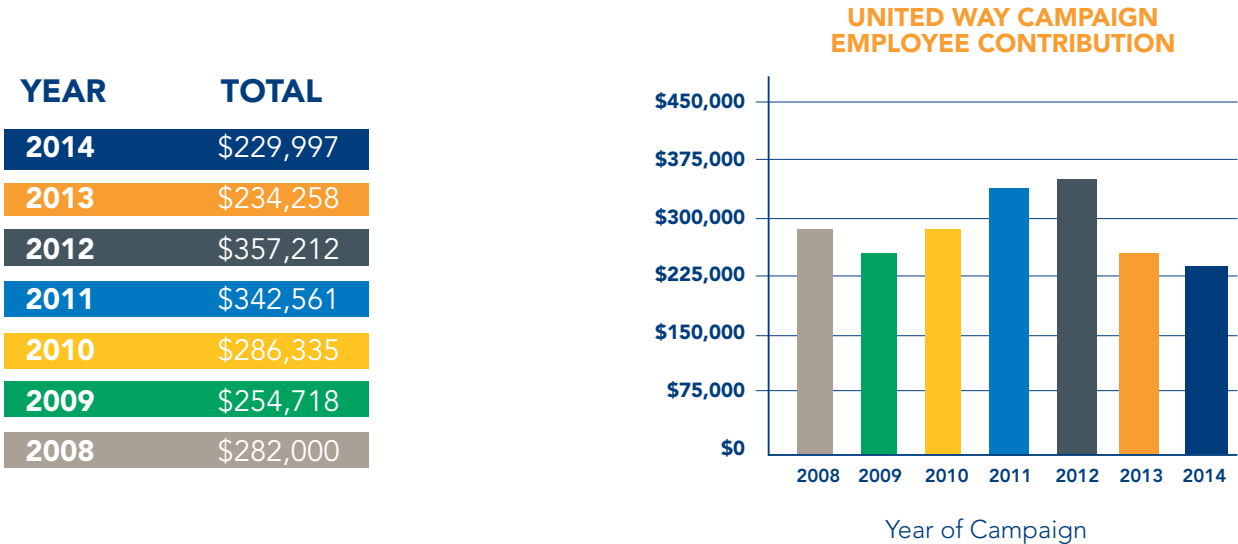
Barnes Group employees across the U.S. once again showed their remarkable generosity and commitment to community during the 2014 Barnes Group United Way Campaign. Employees across the U.S. raised \$229,997 for the campaign, for a grand total of \$459,994 with the corporate match! In addition, Barnes Aerospace, Singapore raised \$11,327, for a total of \$22,654, while Associated Spring, Mexico raised \$925, for a total of \$1,850.



UNITED WAY CAMPAIGN

Barnes Group has a long and proud tradition of supporting the United Way through local campaigns held annually at each of our U.S. locations. We have earned our reputation as a great community leader, helping our neighbors in need. Through the Barnes Group Foundation, all donations made to the United Way are matched 1-to-1, increasing our total contribution.

Together, the Company and its employees have contributed over \$2 million to the United Way over the past seven years, assisting the United Way's more than 1,300 member organizations. For the 2014-2015 campaign, employees were encouraged to LIVE UNITED and support their local campaigns. Living United means being a part of the change. It takes everyone in the community working together to create a brighter future.

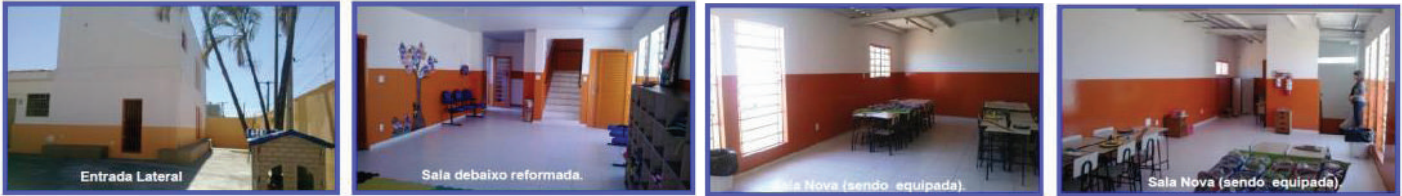


HIGHLIGHT - ASSOCIATED SPRING, BRAZIL, HELPS BUILD A NEW CLASSROOM FOR CHILDREN'S SCHOOL IN CAMPINAS

Since November 2010, employees of Associated Spring, Brazil, have donated their time and money to Creche Bento Quirino, a children's school located in Campinas, Brazil dedicated to helping kids in need. The school provides numerous services to underprivileged students (ages 3-14 years old) including kindergarten, transportation to and from school, daily meals, introductory computer instruction, and social assistance for students' families.

During 2011 and 2012, Associated Spring, Brazil and its employees contributed a total of \$24,743 to the school for food, clothing, school supplies, field trips, and other much needed items. The 1-to-1 matching gift from Barnes Group helped fund the building of an entirely new classroom for the children.

As a result of AS Brazil and Barnes Group's generosity, 20 additional students can now attend Creche Bento Quirino, for a total of 130 children! Associated Spring Brazil and its employees continue to partner with Creche Bento Quirino in their efforts to help children in need in their community.



Pictured: The newly renovated and equipped classroom at Creche Bento Quirino.

BARNES IN THE COMMUNITY



HIGHLIGHT - BARNES AEROSPACE CELEBRATES ANOTHER “SUMMER OF COMMUNITY” SERVICE



In the Summer of 2014, Barnes Aerospace (BA) rolled out its second annual “Summer of Community,” a series of community service initiatives involving BA employees across all eight locations worldwide. BA created the Summer of Community last year to provide opportunities for their employees to volunteer somewhere that would directly benefit their local communities.

For the second year, it was decided that the focus of the Summer of Community would revolve around helping families in need. Each location reached out to the local organization(s) of their choice and lent a helping hand. In the end, the hard work of Barnes Aerospace employees certainly paid off!



BARNES AEROSPACE CELEBRATES ANOTHER “SUMMER OF COMMUNITY” SERVICE - IMPACT REPORT

- East Granby, Connecticut raised over \$300 and donated 11 back packs and school supplies for the town’s elementary school children.
- Barnes Aerospace Headquarters (BAHQ) and Windsor, Connecticut donated perishable food items in order to provide 23 families with a week’s worth of meals, as well as raised \$210 for perishable food items to support the Windsor Food Bank’s Summer Lunch Program.
- Lansing, Michigan stuffed 1,500 bags for race participants and volunteered to pass out water at Ele’s Race, in support of Ele’s Place, a local Michigan charity that supports grieving children and their families.
- Ogden, Utah donated food and their time at the Child Hunger Relief Event.
- Phoenix, Arizona employees, along with family and friends, paid a visit to the Sojourner Center, a local domestic violence center, to drop off clothing donations, clean the store, help with customers, and assist with organizing the distribution center.
- West Chester, Ohio had 45 employees and family members volunteer their time to help out three local community organizations – Matthew 25 Ministries, Shared Harvest Foodbank, and Ronald McDonald House.
- Singapore, through partnership with the Community Chest of Singapore, had 47 volunteers clean, paint, and assist with a variety of household chores for 8 families in need in the North East of Singapore.

All of the volunteers enjoyed the experience of giving to others and were proud to be part of this coordinated team effort to “give back” across the globe, to live our Corporate Values, and to recognize our communities as key stakeholders in our business.



PRODUCTS

At Barnes Group, we are committed to making sustainability an integral part of product innovation. We strive to ensure that newly designed products are as energy efficient as possible. The intention is to develop new product concepts that solve customer problems and create customer value, based on sustainable solutions and processes.



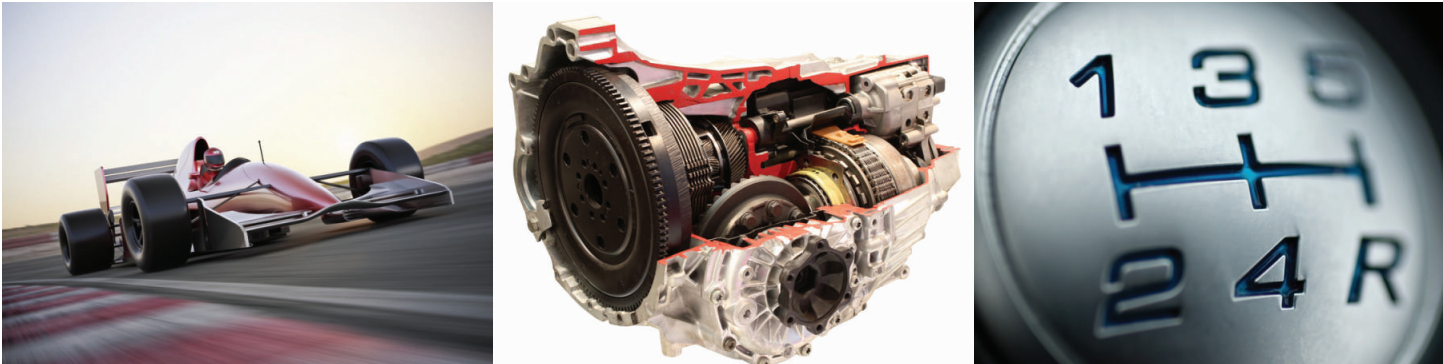
PRODUCTS



SUSTAINABLE PRODUCTS AND PROCESSES

During 2014, Barnes Group developed sustainable cutting-edge technology products for the transportation and plastics industries. These include:

- Development of advanced transmission spring technology for 8-10 speed transmissions (*see full story on next page*).
- Further development and refinement of patented GDi (Gas Direct Injection) process technology to improve mileage and fuel efficiency of vehicles.
- Further expansion of hot runner system flow control technology for the plastics injection molding industry. This technology reduces waste by eliminating blemishes or discoloration of plastic molded parts. Additionally, plastic components for automobiles help make the vehicles lighter, thereby creating more fuel efficiency and lower gas emissions.



HIGHLIGHT - ASSOCIATED SPRING DEVELOPS SUSTAINABLE TECHNOLOGY FOR AUTO TRANSMISSIONS

Associated Spring, a business of Barnes Group, has been a pioneer in developing innovative engineered springs that are helping both performance and sustainability efforts by their key customers around the globe and across many industries. One very important breakthrough area in sustainable technology is the advanced 8, 9 and 10 speed transmission designs that are helping many OEMs and their suppliers meet the challenging emission/CAFÉ standards without full conversion to electrical/zero emission power. Associated Spring has been instrumental in developing an advanced portfolio of high precision washers, rings and other spring components that are vital to the performance of these more advanced automatic transmission configurations, which are slated to launch in 2016 and beyond.

In general, the more gears a vehicle’s transmission has, the more efficiently they can correlate engine speed to driving conditions at a given point in time that results in increased fuel efficiency, which is ultimately good for both motorists’ pocket books and for protecting the environment. In addition, cars with more gears can have shorter shift times with a smoother transition between gears, enhancing driver comfort. Overall driving performance is also improved with smoother starting and maneuvering.

With its manufacturing presence and a rich history of providing critical engineered powertrain springs and other precision solutions to many of the industry’s Top 10 global OEMs and their suppliers (some for more than 80 years), Associated Spring is well-positioned to make components that are integral to cost-effective, optimized and global vehicles that are capable of meeting the environmental and economic challenges of the 21st century.

SUSTAINABILITY CONTACT:

For further questions or concerns related to Barnes Group’s sustainability work, please contact:

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