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A Sampling of Products to Be Introduced at NPE2012

The information below was provided by NPE2012 exhibitors responding to a survey by SPI. Provided well in advance of the show, the responses represent only a fraction of the new materials, equipment, tooling, software, and services that will actually make their debut next April. Even so, this table is clear evidence of the sheer diversity of technologies to be found at NPE2012. To save space, exhibitor responses have been edited, brand names and product designations removed, and company names shortened. For information on individual exhibitors, visit www.npe.org, click on "ATTEND," then "SEARCH THE SHOW."

Company	Country	Booth	New Products
ABC Compressors / Arizaga,Bastarrica	Spain	8584	Larger, higher capacity-model compressors , with good control and energy efficiency, for the PET market, with balanced cylinders to avoid vibrations and design allowing operation at low temperatures.
Absolute HAITIAN	USA	1573	New generation all-electric injection molding machine with tie bar-less technology, providing 70% larger mold area once tiebars become side platens.
ACY Corporation	Taiwan	8590	End of arm tooling for any brand of robotic arm.
ADG Solutions	USA	4855	Recycling systems including continuous filter for fibrous materials and low bulk density material feeding systems.
AGC Chemicals Americas	USA	15023	Adhesive ETFE products for automotive market.
AGS Automation Grippsystem Schwope	Germany	44038	Precision-grip end of arm tooling system.
Alliance Polymers & Services (APS)	USA	57020	TPEs for flat cables for hybrid and electric vehicles; film-grade TPEs for gloves; and new compounding lines to modify TPEs for specific and unique applications.
Allied Dies	USA	6293	Second-generation automatic flat die for cast film, sheet, and extrusion coating; dual gap-adjustment die for heavy gauge sheet.
American Kuhne	USA	3551	High efficiency, low energy extruder for all single screw markets including sheet, film, pipe, profile, and tubing.
ATC Plastics	USA	18027	Black color concentrates ; flexible PVC compounds .
AVID	USA	61020	Automated video measurement system for pharmaceutical bottle and packaging manufacturers, with short measurement cycle time; and an automated bottle and container volume measurement system.
BarcoVision	USA	3683	System for monitoring energy usage and production in plastics processing plants
Beta LaserMike	USA	2382	Ultrasonic measurement system with automatic setup, enabling tube and pipe manufacturers to measure products with the highest accuracy and repeatability.

BinMaster Level Controls	USA	46024	Acoustics-based 3D level scanner uses non-contact, dust-penetrating technology provides bin volume accuracy, measuring multiple points within the bin.
Birch Plastics	USA	32023	Large quantities of PE, PP and PVC virgin resin available for export
Branson Ultrasonics	USA	2151	1) New line of welding system power supplies, designed for the automation industry, with highest power to output density in the industry; 2) new technology combines benefits of vibration and infrared technology.
Bunting Magnetics	USA	6163	Eddy current separator products with rotor that maximizes gauss intensity on the belt surface and provides superior separation of non-ferrous materials.
C A Picard International	USA	37023	Twin-screw extruders for powder coating production, featuring easy removal of elements from twin-screw shafts and metal technology for highly abrasive and corrosive processes.
C.W. Brabender Instruments	USA	2718	12 mm clamshell segmented compounding extruder , smallest available twin-screw, now with all stainless steel construction, requiring small sample appropriate for expensive materials and nano-composites
Chemtrusion	USA	30015	Bio-based materials , including concentrates, compounds, and alloys.
CMAI	USA	30017	Combined chemicals offerings in market and business advisory services resulting from recent acquisition of CMAI by IHS.
CMD	USA	6845	High-efficiency, in-line or out-of-line bagmaking system with bag machine and winder whose energy-efficient continuous-motion technology yields bottom-sealed plastic bags at production speeds up to 450 fpm.
COIM	ITALY	63017	Two grades of 30% glass-filled TPU , an ether- and an ester-based, providing increased strength and rigidity for demanding industrial components.
Cometech Testing Machines	Taiwan	8690	Testing machines with rigid frame structure, precise servo motor and ball screw driving parts, strong and functional computer system providing complete test functions, and assembly with different grips/accessories.
Compuplast	USA	47013	New version of FEA software , allowing users to easily define complex geometries using common parameters like length, diameter, gap. etc., for easy performance of 3D FEM simulations on complex die geometries.
Conair	USA	6343	Expanded material handling control system is fully distributed via Ethernet, simplifying wiring, reducing installation costs, and capable of controlling up to 500 loaders and vacuum pumps.
Control Micro Systems	USA	32037	Turnkey manufacturing of marking, cutting, drilling, welding and slitting laser systems , designed to customer specific requirements.
CPM Century Extrusion	USA	5585	High-output compounders featuring the industry's best price per performance ratio, with up to 177 mm diameter and 20,000 kg/hr throughput.
Darshan Industries	India	65031	3.5mm diameter high-watt density cartridge heater , said to be the smallest-diameter available.
Dynamic Conveyor	USA	1873	Sustainable conveying solution for those who want to re-purpose their conveyors when their needs change, rather than pushing old conveyors aside and purchasing a whole new system.
eFACTOR3	USA	16005	Dry cleaning system for cleaning post-industrial film without the use of water.
Elastocon TPE Technologies	USA	57020	Over-molding TPEs with enhanced scratch and mar resistance, providing material economy, high flow, resistance to many chemicals and household cleaning products, and high impact resistance.
Empire Treater Rolls	USA	60009	Improved glass coating formulations for treater rolls , saving energy.
ENTEK Extruders	USA	4691	Twin-screw extruder with new screw design for easier maintenance, plus updated controls and production software, providing enhanced functionality for processors.
Eriez Magnetics	USA	2583	Metal detecting conveyor systems to protect shredders and granulators from all types of damaging metals and to prevent plastic regrind contamination.
Ettlinger	Germany	8947	Melt filter technology for plastics recycling.
Expancel	USA	20035	Microspheres with increased temperature resistance.
Extrusion Dies Industries (EDI)	USA	6663	Feedblock for flat-die coextrusion, for simpler fine-tuning of layer thicknesses and less downtime, operating in two modes: 1) eliminating feedblock adjustment by the operator; 2) optimizing layer-to-layer interfaces.
FACTS	USA	7073	Expanded capabilities in the supply of non-nuclear on-line measurement systems capable of measuring overall thickness and individual layer thickness for web, sheet, and film applications.

Feng Ping Tooling	China	58033	Two-shot rotational injection molds and two-shot transfer molds.
Frigel North America	USA	1991	Chillers for high flow/high pressure cooling in preform molding, large part blow molding, and high speed closure/multi-cavity injection molding.
Garrtech	Canada	46008	Advancements in moldbuilding that reduce time to market, increase container aesthetics, and shorter mold mold cycle times.
Genesis Plastics Welding	USA	30039	Radio frequency welding systems for TPE medical bags and pouches, and for medical devices that eliminate the need for glue or tape to secure an intravenous line to skin.
Guill Tool & Engineering	USA	7244	Extrusion die that can create several thousand layers from a single extruder, with layer thickness in the micrometer (1 millionth of a meter) to nanometer (1 billionth of a meter) range.
HASCO America	USA	45000	New mold component , inclined sliding carriage and lifter for internal undercuts, featuring constant stroke driven by plate movement, small footprint, and DLC coating standard, plus elimination of springs.
Herrmann Ultrasonics	USA	3073	Ultrasonic welder with generator available up to 6000W, high degree of efficiency (over 80 %) when powered, and closed-loop control combining benefits of pneumatic technology and the speed of an electric drive
HunterLab	USA	37021	Production line color measurement instrument , cited for its compact size, affordability, and network capability.
Hyperion Catalysis	USA	60049	Masterbatch designed for high performance fluoroelastomers, adding static dissipation to FKMs and improving tear strength and other physical properties.
IDES	USA	34020	Materials database incorporating methods to locate plastic materials for specific applications using visual data such as scatter and spider plots.
Inland Label	USA	8939	In-mold labels supplied to the molder on a roll and cut in-line before being placed in the mold, providing up to a 30% cost savings over standard cut and stack IML when used for the right applications.
Invensys Eurotherm	USA	2012	Updated compact machine controllers with faster response times, expanded platform, parison profile update functions, and PC HMI for OEM applications.
IQMS	USA	5073	Completed tablet application for ERP and a module called Shipping Manager
JMMS	USA	54010	RIM tooling capabilities now available.
Kammann USA	USA	24033	Decorating machine with advanced features for direct screen printing onto containers, having average change over of 30 minutes, including captured tooling, plus +/- .004 inch - color to color registration.
Kisan Precision	So. Korea	48000	Upgraded PET injection molds .
Kreyenborg Industries	USA	7271	Redesigned "V-Type" power backflush screen changer for filtration of post-consumer or heavily contaminated polymers: more compact, easier to install, smaller footprint on the plant floor.
Kureha America	USA	21013	Commercial production facility now in operation for PGA biodegradable polymer , with unique barrier and degradation properties that allow customers to "design in" their desired end-of-life.
Kuriyama of America	USA	17027	Hoses whose innovative design dissipates static to ground, helping prevent static build-up and reducing the potential for dangerous electrostatic discharges; constructed from abrasion resistant, food grade polyurethane.
Latrobe Specialty Steel	USA	4391	CPM 4V cold work high-performance steel , providing excellent compressive strength and wear resistance and higher impact toughness than CPM M4, for stamping, blanking, and forming applications.
Leader Extrusion Machinery Ind.	Taiwan	8595	Equipment for EVA solar film with low shrink.
LTL Color Compounders	USA	50020	Non-halogenated UL-listed engineering materials .
M.R. Mold & Engineering	USA	4393	Waste-free, flash-less LSR molds for the medical industry with self-contained cold runner system in standard and build -to-order patterns for 2, 4, 8, 16 and 32 drop configurations.
Maguire Products	USA	5963	Dual bulk box emptying system for eliminating downtime for changing from an empty resin box to a full one without wasting operator time or resorting to cumbersome box tilters.
Mahr Metering Systems	USA	59021	On-line meter, mix and dispensing equipment, accurate, fully automated, and compact.

Maillefer	Switzerland	7345	High performance drip irrigation pipe manufacturing systems.
Meech International	USA	608	Web cleaning system for cleaning high quality and specialty films without for physical contact, with cleaning rollers operating at a high rotational velocity, typically within 1mm of the surface of the web.
Melt Design, Inc. (MDI)	USA	3583	Sprue bar shut off device that can be used on every stack mold hot runner system to prevent drooling; two-stage machine filter packs with decompression feature that is not affected by the accumulated debris.
Merrick Industries	USA	10013	Loss-in-weight blender for processes where many materials are fed or blended together at the extruder inlet, permitting reconfiguration of discharge devices and agitation where many feed rates and materials are required.
MGS Mfg. Group	USA	63030	Team and facility dedicated to providing custom automation equipment , designed and built concurrently with the injection molds fabricated by the company; new facility in Ireland, new clean room in Wisconsin
Milliken & Company	USA	25023	Modifiers providing new possibilities in optical enhancement and processing improvements for packaging, automotive and technical applications, along with savings in energy and material consumption.
Mixaco USA	USA	8371	Cooling mixer that saves energy through reduction of required power, with no mixing tools, no mechanical stress on material, no product heating due to friction, and 100% emptying capability.
MO-DI-TEC	France	2491	Granulator with integrated metal detection system, avoiding serious damages in the case of a metallic part falling down into the cutting chamber by stopping rotors within 40 milliseconds.
Mokon	USA	3363	Compact heating and cooling system in one portable assembly, combining heat transfer oil system with a chiller that uses green-friendly refrigerant, achieving accurate process temperatures from 20F to 600 °F.
Molecor Tecnologia	Spain	40033	Oriented PVC pipe manufacturing system for 90 to 630 mm pipe and 25 bar pressure, with innovative air-based technology for molecular orientation.
Next Generation Recyclingmaschinen	Austria	7263	New recycling machine provides energy efficiency, quality enhancement based on optimization of screw design, high efficiency A/C drives, low maintenance.
Pad Print Machinery of Vermont	USA	3031	Low-cost, high-resolution, eight-color single-pass ink jet printer , suitable for most applications on flat and semi-flat surfaces and customizable with additional pre-treatment and other conveyor options.
Palace Packaging Machines	USA	36023	Parts feeding systems with automatic assembly unit in which a new system will feed a screw and thus screw the components together.
Pelletron Corporation	USA	433	Pneumatic conveying systems with components that minimize breakage and attrition, reduce the generation of dust, prevent streamers, and remove remaining dust particles before packaging or loading.
Polymera	USA	27045	WPC materials for injection molding, extrusion and compression molding, with varying fiber loadings in HDPE, PP, and PVC and technical assistance with materials, processing, equipment.
Premier Dies	USA	118	Stacked plate style co-extrusion blown film die whose uniform flow yields flatter film without requiring expensive closed loop feedback control systems, and which allows faster product changeover, reducing scrap.
Processing Technologies Int'l (PTi)	US	6885	Twin screw dryer-less PET / PLA sheet extrusion line with HVTSE technology based on strategic business alliance with L. Bandera.
ProfilePipe Machinery	Canada	617	Pipe corrugator for the production of 3 to 10 inch tubing, with air cooled mold block cooling, optimized for high speed production of both single-wall and double-wall corrugated pipe.
Progressive Components	USA	4681	Mold monitoring systems providing visibility of mold performance and maintenance activity.
qFuzion	USA	59047	Capital equipment to support the manufacture of polymers enhanced with nanomaterials .
Qingdao Fundchem	China	30056	Bisphenol A cyanate for aerospace and electronics applications, with high temperature resistance (Tg:260DC), low dielectric constant (3 max), low dissipation factor (0.001), and very lower moisture absorption (1.5% max.).
Qualichem Specialties	India	61016	Modifiers , including hydrotalcite (equivalent to DHT4A), DSTDP (Di Stearyl Thio Di Propionate), DLTDP (Di Lauryl Thio Di Propionate), and DSPDP (equivalent to Weston 618).
Rajiv Plastics Limited	India	61018	Low-cost additive masterbatches , including antimicrobial, rodent-repellant, degradable, and special-effect.

Rennco	USA	2783	Bulk packaging system that accepts products from the molding machine and counts or weighs them as they go into the packaging, utilizing center-folded PE material offering bag cost savings over pre-made bags.
Sartorius	USA	59054	Analyzer for moisture specific results in plastics
Seapro America	USA	348	1. Cartesian beam robot for 30 to 180 ton molding machines, with high payloads and long strokes; 2. pick and place robots with 3-axis servo performance and affordable price; 3. robot control for complex applications.
Serigraph	USA	33020	In-mold decoration system with capacitive touch sensor technology, providing a durable and functional interface that can replace mechanical switches, sliders and wheels.
Shandong Huaxin Plastics	China	65016	Production of large (1.6 m diameter) PE pipe .
Single Temperature Controls	USA	273	440°F pressurized water thermolators safely replace oil TCUs and electric cartridge mold heating and cooling, with alternating temperature technology for rapid heat/cool of molds with self-contained water temp control.
Size Reduction Specialists	US	4153	Small, compact, low-energy dedusters and fines separators with throughputs ranging from 100 to 2000 lb.hr.
Slide Products	USA	38021	Purging compounds , one for purging through a hot runner system without damage or clogging, the other for use with acetals while avoiding harmful fumes; product line now without trichloroethylene solvents.
Somax	Japan	55006	Cord-free, eco-friendly mold cleaning machine featuring touch panel display.
SPEX SamplePrep	USA	313	Dual chamber cryogenic grinding mill for polymer particle size reduction.
Star Thermoplastic Alloys & Rubbers	USA	59020	Low-cost TPE alternative to TPVs; clear TPEs; new line of "safe" TPEs for pet toys; and a new and newly expanded rheological and instrumentation laboratory to duplicate any TPE currently on the market.
Steinwall	USA	63009	New capability for large part molding up to 1,750 ton.
STP Rotomachinery	Canada	54029	Three-sided shuttle rotomolding machine , providing more flexibility and efficiency in comparison with most shuttle systems, which have one or two arms instead of three.
Stratasys	USA	45030	3D printer based on a Dimension 3D printer platform but with front-end software of a Fortus Production 3D Printer, providing more control and better performance.
Surface Engineering / Extreme Coatings	USA	4115	Wear-resistant tungsten carbide injection molding tip assemblies for abrasive applications and twin compounding feed screw elements with up to three times the life of high-end bimetallic tool steel
Synventive Molding Solutions	USA	1973	Valve gate hot runner control system , providing precise controlling of each valve pin position, speed, acceleration and stroke.
Taber Industries	USA	3531	Progressive load scratch tester to evaluate resistance to scratching and surface damage, with setup for use with fixed load or automatically increasing load, allowing the operator to easily identify the point of failure.
Taitra	Taiwan	8790	Energy-saving hybrid injection molding machine .
TAKK Industries	USA	100	Shockless pulsed DC long range static elimination system , providing ultra high ionization output to quickly neutralize the highest static electrical charges from materials and processes.
Teknor Apex	USA	58038	Ultra-soft TPV elastomer compounds for replacing EPDM foam; rigid PVC compounds .
3M	USA	35000	Injection-grade glass bubbles for polypropylene, providing outstanding strength, light weight, greater dimensional stability, improved throughput, and resin substitution.
Thwing-Albert Instrument	USA	53037	New-generation materials testing software to power tensile testers, with real-time graphical results, library of test methods, ability to customize and automate test procedures, and ability to record and add training tips.
20/20 Custom Molded Plastics	USA	8263	Expanded molding facilities and automation capabilities.
Wacker Chemical	US	58013	Pelletized silicon gum that can be added to most thermoplastics as a long-term, non-migratory slip agent , increasing equipment life, improving part surface properties, and enhancing scratch and mar resistance.
WEIMA America	USA	5473	New model shredder .
Woodex Bearing / MECO Seals	USA	62013	Seals for vacuum containment and inhospitable process environments, used on mixers, compounders, and reactors and dryers where aggressive solvents and other chemicals are present.

Yarde Metals	USA	30034	Aluminum mold plate , 66% lighter than tool steel and providing 40-50% cycle time reduction and five times better heat transfer during part cooling.
Zeiger Industries	USA	4375	Complete "plug and play" LSR barrel assembly that can be used on an injection molding machine platform.
Zhangjiagang City Tianjiang Precision Mould Manufacture	China	55005	Molds for flip top caps, with automatic in-mold closing unit.
Zhejiang Hangzhou Xinfu Pharmaceutical	China	60042	Compostable and biodegradable PBSA and PBAT bioplastic resins .