

EXTRUDING EXTRA-LARGE PIPE UP TO 2400 MM DIAMETER

Moving into new, bigger dimensions

Munich, March 31, 2010 – KraussMaffei Berstorff has received an order from the well-known pipe producer P.E.S. Co. for an extrusion line to produce extra-large, smooth-walled HDPE pipe with diameters up to 2400 millimetres. Producing smooth-walled pipe in these large diameters is a world first – once again KraussMaffei Berstorff is pushing out the limits in pipe extrusion.

P.E.S., for many years a satisfied KraussMaffei Berstorff customer, has been producing HDPE pipe, including extra-large pipe up to 1600 mm diameter, on a range of Krauss Maffei Berstorff single-screw extruders for almost a decade. The extra-large pipes produced by the company in the Persian Gulf region are used in many applications, chiefly in the pipelines supplying seawater to desalination plants and cooling water to oil refineries. P.E.S. has many years of intensive experience in the production of PE pipe and in laying and installing complete pipeline systems. The company is enthusiastic about its productive business relationship with KraussMaffei Berstorff. Mohsen Jamalian, P.E.S. managing director and owner, says: “Working together with KraussMaffei Berstorff we’re setting a new milestone in the world of large scale pipe extrusion. Thanks to KraussMaffei Berstorff and its top technology – from single-screw extruders to pipeheads and spiral distributor concepts – we can transfer the expertise we’ve accumulated with our 1600-mm extrusion line to the challenge of producing 2400-mm pipe. Also making a major contribution to our success in this area is the low-sagging polyethylene XLS12B from Total Petrochemicals.”

Extrusion technology from the world market leader

The extra-large pipe extrusion line ordered from KraussMaffei Berstorff will enable P.E.S. to advance into new dimensions and to add smooth-walled HDPE pipes 1800, 2000, 2200 and 2400 millimetres in diameter to its production spectrum. The new line, headed by a KME 150-36 B/R single-screw extruder and a KM-RKW 40-2400 pipehead, has all the key features that have established

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KraussMaffei Berstorff extrusion line for extra-large pipe with a 36D single-screw extruder and a spiral distributor pipehead



Mohsen Jamalian, managing director and owner of P.E.S.

KraussMaffei Berstorff as the technology leader in extra-large pipe extrusion. This includes the proven design of the 36D single-screw extruder, a pipehead concept where the spiral distributor design incorporates the latest rheological research, and a KraussMaffei Berstorff calibration system.

This industry-leading engineering produces pipe where wall thicknesses, outer diameter and ovality are kept within very tight tolerances. Considering that, for some types of pipe, the cost of material accounts for up to 90% of total manufacturing cost, keeping variation to a minimum delivers huge material savings, especially in production of very large pipe. Furthermore, when the pipe is laid, the pipe sections will fit exactly together, making for uniform, high quality welds. Defect-free welds are of utmost importance in laying pipelines with optimal stability under pressure and long service life.

Photos

Photo grossrohr-extrusionsanlage.jpg: KraussMaffei Berstorff extrusion line for extra-large pipe with a 36D single-screw extruder and a spiral distributor pipehead

Photo Jamalian.jpg: Mohsen Jamalian, managing director and owner of P.E.S.

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KraussMaffei company profile

In terms of sales, KraussMaffei is world market leader in machines and systems for plastics and rubber processing. With its three divisions – Injection Moulding Technology, Extrusion Technology and Reaction Process Machinery – KraussMaffei is a premium partner for the plastics and rubber processing industries worldwide.

The group markets its products under the KraussMaffei, KraussMaffei Berstorff and Netstal brands. The KraussMaffei brand covers the whole spectrum of injection and reaction moulding technology, while the KraussMaffei Berstorff brand stands for successful extrusion solutions. The injection moulding machines of Netstal, our Swiss subsidiary, meet the highest of requirements imposed on process implementation, parts quality and production performance and are mainly used to make highly sophisticated technical and thin-walled plastic parts. With over 100 years' of expertise and know-how in machinery for plastics and rubber processing, KraussMaffei is today a major technology and process partner for industry. The group offers a wide range of solutions that includes specialized and fully integrated turnkey systems. Headquartered in Munich, the company operates a worldwide network of 140 subsidiaries and sales agencies, and deploys over 570 service technicians, ensuring fast response and closeness to customers everywhere.

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