

The world largest capacity ! Single Screw Extruder "P600"

JSW lately delivered a single screw extruder of 600 mm screw diameter (P600) to one of the world largest processes for LDPE (Low Density Polyethylene) of capacity 200,000 ton/year. The production rate is 40 ton per hour at the maximum. It is the largest rate achieved with a single extruder manufactured by a Japanese company and it is much higher than the previous domestic record 15 ton/hr with a 460 mm screw dia. also by JSW.

The end user of this P600 extruder is Yanshan Petrochemical Co., Ltd in China. They adopted the process by Exxon which has delivered a lot of large scale LDPE processes all over the world. We have delivered many extruders of LDPE application to Chinese customers such as Beijing Organic Chemical Work and Maoming Petrochemical Co., Ltd. as well as Yanshan. We believe that the high reliability of our machines and our accumulated operation know-hows were highly valued and finally led to the order of P600 for Yanshan.

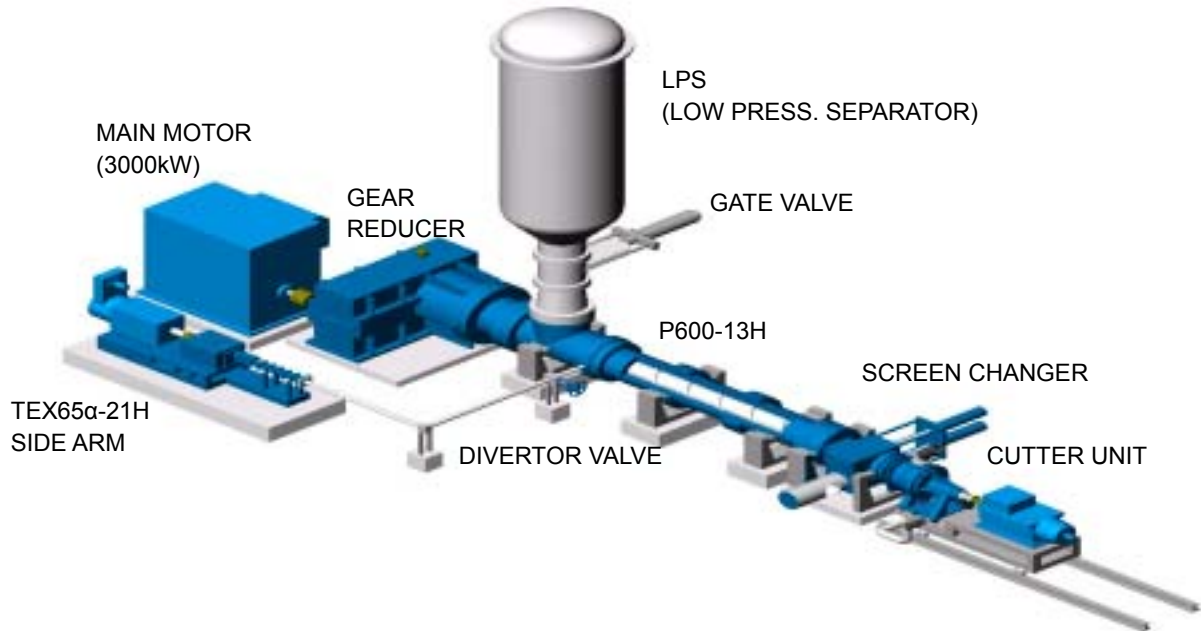
Recently there is no chance to build a new LDPE plant in Japan and most domestic and foreign manufacturers gave up transmitting their technical know-hows to the next generation. Now only two companies including JSW can design and manufacture such large size single screw extruders for LDPE in the world.

In the polyethylene field, LLDPE (Linear Low Density Polyethylene) is the mainstream of new plant building on a large scale nowadays. However, because of good formability of LDPE, we can expect various applications of LDPE such as production of unique films with high added values and blending into LLDPE to improve its formability.



We supply a total pelletizing system including large size downstream equipment, such as screen changer and cutter unit. This is the latest system with our twin screw extruder TEX65 α -21H as a side-arm extruder to inject additive into P600.

Layout 3D-model



Screw



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