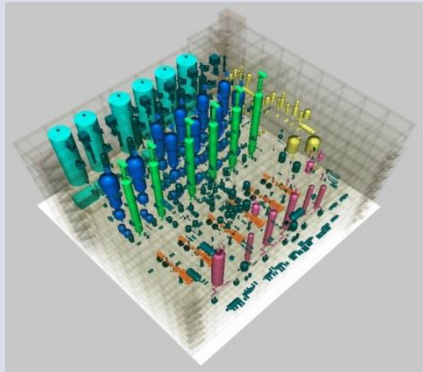


# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer :** Shenyuan (Liheng)  
**Location :** Lianjiang, Fujian Province, P.R. of China  
**Capacity :** 216'000 t/a of PA6 (3 lines, Textile, Film, Eng-Plastics)  
**Technology:** UIF single-stage polymerization process  
**Commissioning:** Expected 2017  
**Speciality:** Virgin Lactam Process (VLP®), Oligomer Degradation with Overproportional Refeeding (OMDP® & OPRP®), High Performance PA6 (HPPA®), Luster: full-dull, semi-dull & bright



**Customer :** HIGHSUN (LIHENG)  
**Location :** Changle, Fujian Province, P.R of China  
**Capacity :** 144'000 t/a of PA6 (4 lines, Textile-Grade)  
**Technology:** UIF single-stage polymerization process  
**Commissioning:** 2016  
**Speciality:** Virgin Lactam Process (VLP®), Oligomer Degradation with Overproportional Refeeding (OMDP® & OPRP®), High Performance PA6 (HPPA®), Luster: full-dull, semi-dull & bright



# UIF Polycondensation Technologies

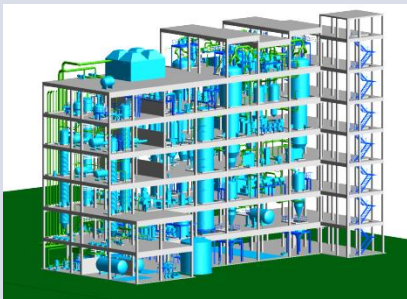
## Polyamide (PA) References



**Customer:** Grupa Azoty  
**Location:** Tarnow, Poland  
**Capacity:** 80,000 t/a of PA6 (2 lines)  
**Technology:** UIF, two stage polymerisation processes  
**Commissioning:** Expected 2016  
**Speciality:** Overproportional Refeeding (OPRP®)



**Customer:** Zhejiang Juheshun  
**Location:** Zhejiang, P.R. China  
**Capacity:** 80,000 t/a of PA6 (3 lines)  
**Technology:** UIF, single and two stage polymerisation processes  
**Commissioning:** Expected 2015  
**Speciality:** Textile, High Performance Polyamide (HPPA®), Virgin Lactam Process (VLP®), Overproportional Refeeding (OPRP®)



**Customer:** Sinolong  
**Location:** Quanzhou, P.R. China  
**Capacity:** 119,000 t/a of PA6 (2 lines)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** Expected 2015  
**Speciality:** Film, VLP®, OPRP®, Direct Refeeding Process (DRP®), High Temperature, High Efficiency (HTHE) reactor with small volume by high efficiency



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** Changle Highsun Synthetic Fiber Technology  
**Location:** Changle City, P.R. China  
**Capacity:** 180,000 t/a of PA6 (4 lines)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 2014  
**Speciality:** Textile, HPPA<sup>®</sup>, VLP<sup>®</sup>, first Oligomer Degradation Process (OMDP<sup>®</sup>) in connection with OPRP<sup>®</sup>



**Customer:** Hangzhou Hangding Nylon  
**Location:** Hangzhou City, P.R. China  
**Capacity:** 47,000 t/a of PA6 (1 line)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 2014  
**Speciality:** Textile, VLP<sup>®</sup>, HPPA<sup>®</sup>



**Customer:** Grodno Khimvolokno  
**Location:** Grodno, Belarus  
**Capacity:** 91,000 t/a of PA6 (2 lines)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2012  
**Speciality:** OPRP<sup>®</sup>



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** Huafon Group  
**Location:** Ruian City, P.R. China  
**Capacity:** 40,000 t/a of PA66 (6 lines)  
**Technology:** UIF, batch process with SSP  
**Commissioning:** 2011  
**Speciality:** Lighthouse project for the construction of PA66 plants; continuous AH salt preparation



**Customer:** FCFC – Formosa Chemicals & Fibre Corporation  
**Location:** Ho Chi Min City, Vietnam  
**Capacity:** 47,000 t/a of PA6 (1 line)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 2011  
**Speciality:** Textile, full dull, VLP<sup>®</sup>, HPPA<sup>®</sup>



**Customer:** Kuibyshev Azot  
**Location:** Togliatti, Russia  
**Capacity:** 54,000 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2010  
**Speciality:** First PA6 plant for textile applications operated by the new Melt Conditioning Process (MCPA<sup>®</sup>); 150 t/day, DRP<sup>®</sup> in one production line



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** DSM  
**Location:** Jiangyin, P.R. China  
**Capacity:** 52,500 t/a of PA6 (1 line)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 2009  
**Speciality:** DRP<sup>®</sup>



**Customer:** Xinhui Meida Nylon  
**Location:** Jiangmen, P.R. China  
**Capacity:** 81,000 t/a of PA6 (2 lines)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 2007  
**Speciality:** World's largest single-stage VK 160 t/d; VLP<sup>®</sup>, OPRP<sup>®</sup>



**Customer:** Rajashree Polifil / Century Enka  
**Location:** Bharuch, India  
**Capacity:** 14,600 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2007  
**Speciality:** DRP<sup>®</sup>



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** KuibyshevAzot  
**Location:** Togliatti, Russia  
**Capacity:** 24,000 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2007  
**Speciality:** -



**Customer:** Kuibyshev Azot  
**Location:** Togliatti, Russia  
**Capacity:** 50,000 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2006  
**Speciality:** -



**Customer:** Zig Sheng  
**Location:** Tao Yuan, Taiwan  
**Capacity:** 65,000 t/a of PA6 (4 lines)  
**Technology:** UIF, single- and two-stage polymerisation process  
**Commissioning:** 2006  
**Speciality:** Textile, full dull, VLP<sup>®</sup>, HPPA<sup>®</sup>; film grade, VLP<sup>®</sup>; industrial yarn, VLP<sup>®</sup> or OPRP<sup>®</sup>; engineering plastics, Re-Polymerization Process (RPP<sup>®</sup>)



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** DSM  
**Location:** Emmen, Netherlands  
**Capacity:** 36,000 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2005  
**Speciality:** -



**Customer:** Century Enka  
**Location:** Pune, India  
**Capacity:** 40,000 t/a of PA6 (1 line)  
**Technology:** UIF, two-stage polymerisation process  
**Commissioning:** 2005  
**Speciality:** DRP®



**Customer:** Zig Sheng  
**Location:** Tao Yuan, Taiwan  
**Capacity:** 78,000 t/a of PA6 (4 lines)  
**Technology:** UIF, single- and two-stage polymerisation process  
**Commissioning:** 2000  
**Speciality:** First textile plant with HPPA®; textile, semi dull, VLP®, HPPA®; textile, bright, VLP®, HPPA®; engineering plastics, RPP®



# UIF Polycondensation Technologies

## Polyamide (PA) References



**Customer:** DSM  
**Location:** Augusta, USA  
**Capacity:** 50,000 t/a of PA6 (2 lines)  
**Technology:** UIF, single-stage polymerisation process  
**Commissioning:** 1999  
**Speciality:** First 100 t/d single train line DRP®

