

Huntsman Corporation



Who is Huntsman?

Founded in 1970...





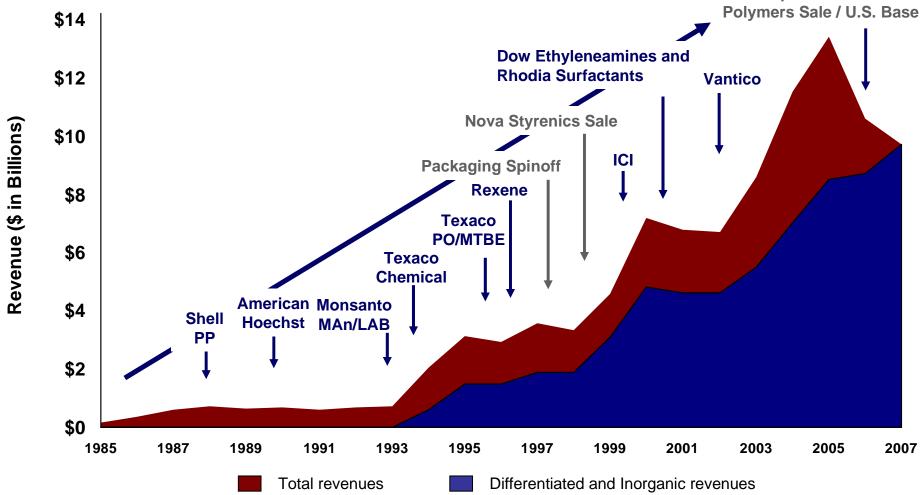
- 3 Employees
- 1 Location
- USD 2,000,000 in Revenue
- Packaging business

The Huntsman Growth Story

Who is Huntsman?



Enriching lives through innovation Ciba TE Butadiene/MTBE Sale European Base Sale Polymers Sale / U.S. Base



Huntsman has been a leader in the consolidation of the global chemical industry

Huntsman Business Structure today

Technology driven differentiated businesses...



Differentiated Chemicals			Inorganics	
Performance Products	Polyurethanes	Advanced Materials	Textile Effects	Pigments
Performance Specialties Performance Intermediates Maleic Anhydride & Licensing	Adhesives Coatings & Elastomers Appliances Automotive Construction Composite Wood Products Footwear Furniture TPU	Design & Composites Engineering Power & Electronics Coatings, Construction & Adhesives	Apparel Home textiles Technical textiles	Titanium Dioxide

2008 Revenue: USD ~ 10 billion

Number of employees: 12,000

Leadership positions by **business**

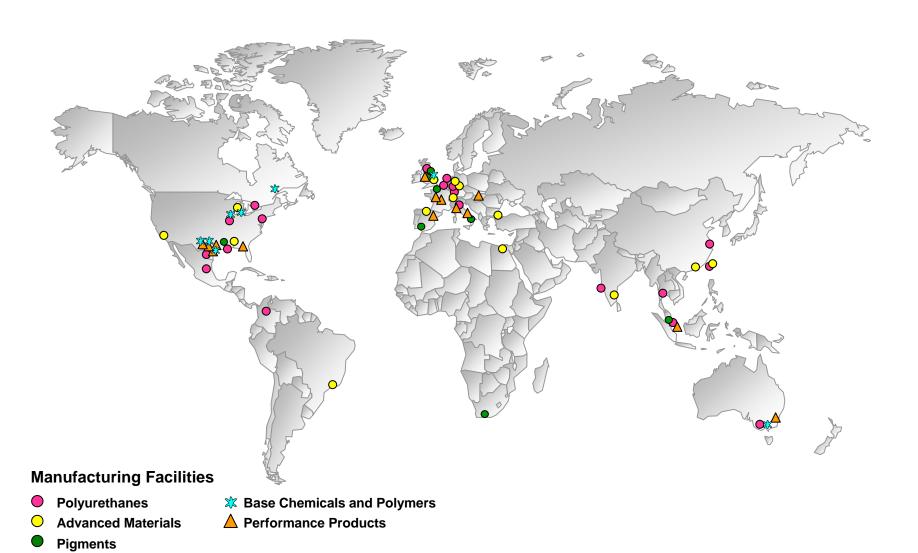


	Product	Market Position
Polyurethanes	MDI	#2 Globally, #1 in North America
•	Polyurethane Catalysts	#2 Globally
		*** 0. 1. 11
	Epoxy Adhesives	#1 Globally
Advanced Materials	Epoxy Powder Coating Systems	#1 Globally
	Aerospace Composites	#1 Globally
	Electrical Insulating Materials	#1 Globally
Textile Effects	Effect chemicals	#1 Globally
	Process chemicals	#2 Globally
	Dyes	#2 Globally
Performance Products	Polyetheramines	#1 Globally
	Morpholines/DGA and Gas Treating	#1 Globally
	Ethylene and Propylene Carbonates	#1 Globally
	Maleic Anhydride (MAn)	#2 Globally, #1 in North America
	Ethyleneamines	#2 Globally
	Sulfonated Surfactants	#2 in Europe
	Ethanolamines	#2 in North America
	Linear Alkylbenzene (LAB)	#2 in North America
Pigments	Titanium Dioxide	#1 in Europe

Global presence

Growth platform looking for more dots on the map...





Returning business profits to society

Social responsibility



Improving our communities

- Hunger
- Homelessness
- Education



Combating cancer

- Huntsman Cancer Institute and Hospital
 - www.hci.utah.edu





Commercial Licensing

Products and Services





Huntsman Technology Licensing 亨斯迈- 关于技术转让



- Huntsman offers many technologies for licensing 亨斯迈有许多技术可供转让
- Usually not just licensing but a desire to cooperate 通常来说不仅仅是技术转让,而是期望进一步合作
- Commercial partnership (JV, off take agreement, route to market partner, other,..) 商业合作伙伴关系(合资企业, 购销协议, 市场合作伙伴渠道, 其他,..)
- As a producer and seller, Huntsman's technology 作为制造商与卖方, Huntsman的技术
 - Meet market/customer needs and is supported by an understanding of market dynamics 符合市场与客户的需要,得到市场认可与支持
 - Proven manufacturing track record on consistency and efficiency 多年的营运证明, 其具有一致性与有效性。
 - Profitable returns 丰厚的利润回报
- Assistance in feasibility study/investment decision 协助进行可行性研究 与投资决策

Providing Value-Added Businesses



- Licensing
 - License and Basic Engineering
 - Economic Feasibility
 - Market & applications information, if appropriate
- Distribution
 - Regional
 - Application-specific
- Investor or Joint Venture
 - Huntsman may be willing to invest
 - Provide technical support to customers
 - Provide alternate supply from global plants

Huntsman's value proposition



Huntsman will:

- Design a proven process that meets or exceeds agreed expectations
- Startup the client's process that meets or exceeds agreed expectations
- Assist the client in evaluating the likelihood of success from a technical, marketing and financial perspective
- Provide patented technology AND technical support for that technology, where needed

Huntsman Technology Licensing Product Portfolio

(1) 亨斯迈 - 技术转让产品一览



	License Only 只供技术转让	License and Cooperate 技术转让及合作	Feedstock 原料
Maleic Anhydride 马来酸酐	Yes 是	Yes 是	N-butane 丁烷
Propylene Oxide/ t-BA (MTBE) 环氧丙 烷(甲基叔丁基醚)	No 否	Yes 是	Propylene 丙烯/ isobutane异丁烷
Ethylene carbonate 碳酸乙酯	Yes 是	Yes 是	Ethylene oxide 环氧乙烷
Propylene Carbonate碳酸丙酯	Yes 是	No 否	Propylene oxide 环氧丙烷
Ethylene amines 乙烯胺	No 否	Yes 是	Ethylene dichloride/ammonia 二氯乙烯化合物/氨水

Huntsman Technology Licensing Portfolio (2)

亨斯迈 – 技术转让产品一览



	License Only 只供技术转让	License and Cooperate 技术转让及合作	Feedstock 原料
Ethanolamines 乙醇胺	Yes 是	Yes 是	Ethylene Oxide 环氧乙烷/ ammonia 氨
Polyurethane Catalysts 聚氨酯催化剂	No 否	Yes 是	Various 各类
Propylamines 丙胺	Yes 是	No 否	Propylene dichloride二氯丙烯 /ammonia 氨
Linear alkyl benzene (LAB) 线性烷基苯	Yes 是	Yes 是	Parraffin

Huntsman Technology Licensing portfolio (3)

亨斯迈 – 技术转让产品一览



	License Only 只供技术转让	License and Cooperate 技术转让及合作	Feedstock 原料
Titanium dioxide (TiO2) 二氧化钛	No 否	Yes 是	
Polyols/PPG 聚醚多元醇	No 否	Yes 是	Propylene oxide 环氧丙烷
G2PG	Yes 是	Yes 是	Crude glycerine
Styrene/EPS 苯乙烯/膨胀型聚苯乙 烯	Yes 是	No 否	Benzene 苯

Full Scale Processes - Capabilities



- Maleic Anhydride
- PO / TBA
- Ethylene Carbonate
- Propylene Carbonate
- Polyetheramines
- Ethyleneamines
- Piperazine
- Polyurethane Catalysts
- Ethanolamine
- Glycerin to Propylene Glycol (G2PG)

- Alkylalkanolamine
- Propyl Amines
- Diglycoleamine® / Morpholine
- Linear Alkylbenzene
- Sulf(on)ation
- Titanium Dioxide
- Diisocyanates
- Polyols
- Nonionic Surfactants

Enriching Lives Through Innovation™

Custom Process Capabilities



- Amination
- Alkylation
- Nitrile Reduction
- Hydrogenation
- Distillation

HUNTSMAN as a Technology Provider



 Huntsman invested more than \$60 million in 2005 to construct its new Huntsman Advanced Technology Center in The Woodlands, Texas – our Innovation Engine.....



CONTACTS



Irwanto Tjota

Commercial Director
Technology Licensing & Projects
Asia Pacific
lrwanto_tjota@huntsman.com

Tel: +65-6390-0378 (O)

HP: +65-9631-7076

Dom Bausano

Director – Commercial Licensing dom bausano@huntsman.com

Tel: +1-713-822-5120