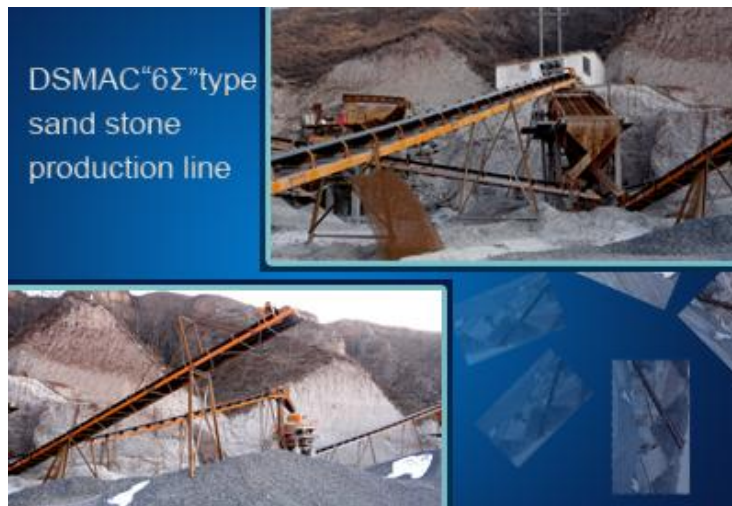




### DSMAC “6Σ” type sand stone production line principles and influences to China Cement industry

With 20 years' experience in the manufacturing of sandstone production line, DSMAC has successfully designed and manufactured its “6Σ” type sand stone production line, which is proved to be a high efficiency sand stone production line in China Cement industry.

According to Lu Hongbo, the vice president of Chinese Sandstone Association, senior manager of [DSMAC](#), said” In order to create high working efficiency and energy saving [sand stone production line](#), there are six principles that we must adhere to.”



The first one is excellent product production capacity. The product produced by an excellent sandstone production line also has outstanding quality and high grading. Apart from some natural factors such as mechanical properties and chemical composition of the aggregate strength, hardness, wear resistance, crushing index, fragility, harmful components, the rock organization structure, stone polish value (P.S.V), naturally fractured, degree of weathering, freeze-thaw, moisture content, water absorption and so on, some internal factors, as produced product granularity shape, granularity grading, diameter material than the ultra-Johnson, clay content, clod content, have been the key indexes determining the sand stone production line technical design and main equipment configuration correctness.

The second one is low cost of investment.



There are three key elements determining the sand production line investment. Firstly, technological flow charts design. The biggest mistake of unsuccessful sand production line project by China Ten Cement Group is inaccurate design process flow chart. They copied the hard granite process flow chart for limestone crushing process. Secondly, the main crushing machines selection. Differentiating the laminating crushing machinery and impact crushing machinery correctly is very essential. Thirdly, adjusting measures to local conditions. Professional engineers should design the sand production line flow chart by the local terrain and topography; try to become the unfavorable condition to favorable.

The fourth one is high safety.

The sandstone crushing line is different from new dry type production line. Because the cement production line is gained on the base of hundred years of experience in developed countries, and the new dry type production line is the new highlight in cement industry. However, the sandstone production line is absolutely different from that in emphasis degree, team accomplishment, basic experience and management, so it is crucial of safety no matter for workman or equipment.

The fifth one is good production environment.

The damage for the environment of aggregates production is including two aspects, one is dust, noise, waste soil, sewage, etc.; the other is the destruction of vegetation and natural landscape. Comparing to the cement industry, there is no any technical matter in managing the dust, noise, waste soil, sewage environment problems, which just need one requirement. However the restoration and control of vegetation and natural landscape should be paid more attention.

The sixth one is information technology

Compared to a traditional sand stone production line, the new gravel line has higher standards in the construction of information on the production line. The standards mainly include: automatic optimization systems; automatic detection on axle temperature, oil temperature and vibration; remote monitoring, online particle size, particle size distribution, particle shape and even fineness modulus testing, production line set sensing, measurement, weighing, consumption records accumulated data analysis, automatic operation and various management functions in one ERP system, and SCM (supply chain management) and CRM (customer relationship management) system .



## DSMAC sandstone production line applied in China cement

With high emphasis on the “6 $\Sigma$ ” principles ,DSMAC has successfully constructed the project of 8000T/D sandstone production line for Tianrui Group, China top 100 key supporting industrial enterprises .DSMAC also constructed its 20000 TPD [aggregate production line](#) in Changjiu, Zhengzhou, which is the largest aggregate production line worldwide, and 8000TPD sandstone production in Qingzhou, Shandong. It is worth celebrating that both of these productions lines recovered the full investment within seven months. What’s more, with special design by DSMAC engineer, both of the two production lines help the clients save cost by 5%–7%.

### About DSMAC:

DSMAC has got reputation worldwide, especially in Africa, by its high productivity, safety and cost savings production line. And almost 10 stone production lines have been exported to Africa. DSMAC is among the world’s fastest growing CE firms by its strong technology, with US\$1.57 billion in sales in 2012. DSMAC delivers results for its investors as well, having posted an average of 35% annual revenue growth for the past six years running in overseas markets. It is ranked among the world’s top 14 machine manufacturers.

More information about DSMAC is available at <http://www.dscrusher.com/>.

### **DSMAC Group**

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