

ISSUE 462

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Penfabric Mill 2 is bestowed Toray Total Cost Down Exemplary Award.

Dear Penfabricans,

In our concerted effort for safety, efficiency, productivity and workforce moral improvement, Penfabric embarked on a journey to proceed with Digital Manufacturing System (DMS) by Rationalization of processes, Automation, and Internet-of-Things (IoT) Incorporation in 2014. This journey moves us on the gateway to realize high productivity by utilizing Industry 4.0 concept by way of smart factory with labour saving technologies. Coupled with Predictive Maintenance, making Penfabricans Engineers becomes our intention and path ahead.

Penfabric Mill 2's Grey Roll Stocker automation project is the first step towards this direction. Mill 2 worked fervently with the vendor to make the first such automated facility in the textile industry and the first in Toray Group to come up with this meaningful and awe inspiring project. This signifies our route towards making Penfabric step into Industry 4.0. This innovation helps to eliminate heavy and dangerous workloads at the factory floor, install labour rationalization, enhance safety features and also in compliance of 3 S concepts. This effort is an excellent way to reduce our fixed cost. In recognition of this ingenious and innovative effort, Mill 2 was bestowed Toray Total Cost Down Exemplary Award. Mill 2 Weaving Section Manager Mr Mohd Fadzil was at the Toray TC Activity Award giving ceremony on October 5 to receive this award from Mr DEGUCHI , Sr Vice President of Toray. At the same time, Mr Deguchi gave Penfabric encouragement and his

kind comments as below:

Quote:

Mr. Deguchi's encouragement and comment

PAB promoted automation based on the superior point of view from technician of on-site(GENBA)

- **There was a strong leadership of MD Mr. Teh.**
- **Carry out reduction of manpower and fixed cost, aimed at great cost reduction.**
- **It also leads to a higher level of product management and contributes to safety.**
- **Mr. Deguchi widely tells this activity to other companies by himself.**
- **PAB also do horizontal development of this activity on ASEAN area.**

Unquote.

This award will spur us into greater heights in the direction of leadership by adopting ICT for our manufacturing process to usher in the era of Industry 4.0.

Dear Penfabricans, DMS is now the life line of Penfabric's future. Let us put in all our efforts to realize our goal to make Penfabric the best textile company in the world.

Thank you Mill 2 and all Penfabricans to make Penfabric proud.

Have a restful weekend mulling putting our best foot forward for DMS to ensure success in all our ICT projects.

Thank you.



Mr Mohd Fadzil receiving Award from Mr Deguchi, Toray Sr Vice President.



A photo session with Mr Deguchi and Mr Okada.

Manpower rationalization by Grey Roll Stocker (PAB)



Fixed cost reduction by reduce of heavy & fatigue job, on line data information through ASRS (Auto storage & retrieve system)

Action	Before	After
<p>1. Designed and develop with supplier (Daifuku) for grey roll ASRS stocker. And installed & started operation at Mill2 in 2016.</p> <p>2. Purpose is to improve the grey roll handling</p> <ul style="list-style-type: none"> - Reduce fatigue and heavy job. - Live data integration - Improve grey inspection efficiency by reduce downtime to locate require rolls. - Manpower reduction through automation system live data. - Enhance safety through elimination of 75 units of cloth carrier. 	 <p>1. Manual Storage</p>  <p>2. Manual stock Check</p>  <p>3. Storage on Carriers</p>  <p>4. Heavy & Fatigue Job</p>	 <p>1. Auto Storage</p>  <p>2. Live data & integrated</p>  <p>3. Auto deliver to station</p>  <p>4. Access from Station</p>
Results	<ul style="list-style-type: none"> - Manpower reduced 16 persons (34 ← 50), Inspection m/c reduced 4 machine (6 ← 10), Cloth carrier reduced to 0 from 75 units. U- carts reduced 20 units (65 ← 85), Forklift reduce 1 units (2 ← 3) & Cloth lifter reduced to 0 unit from 2. - 3S, Safety was improved & fatigue job was eliminated. - Repair and maintenance cost was reduced <p style="text-align: right;">(Unit: RM)</p>	

Cost for Improvement		4,600,000	Daifuku ASRS Grey Roll System
Saving / Year (Fixed Cost)	Labour	640,000	Reduce by 16 persons
	Ohters	74,000	Maintenance and Repair cost
ROI (Year)		6.4	



With kind regards,
HSTeh.