



SALES BULLETIN No 039

Advanced Loading System

The DAO Advanced Loading System has been designed and built to improve gob loading, aiding your production. With over 150 Advanced Loading Systems sold over the world on all sizes of new and used IS machines, can you afford not to do the same?

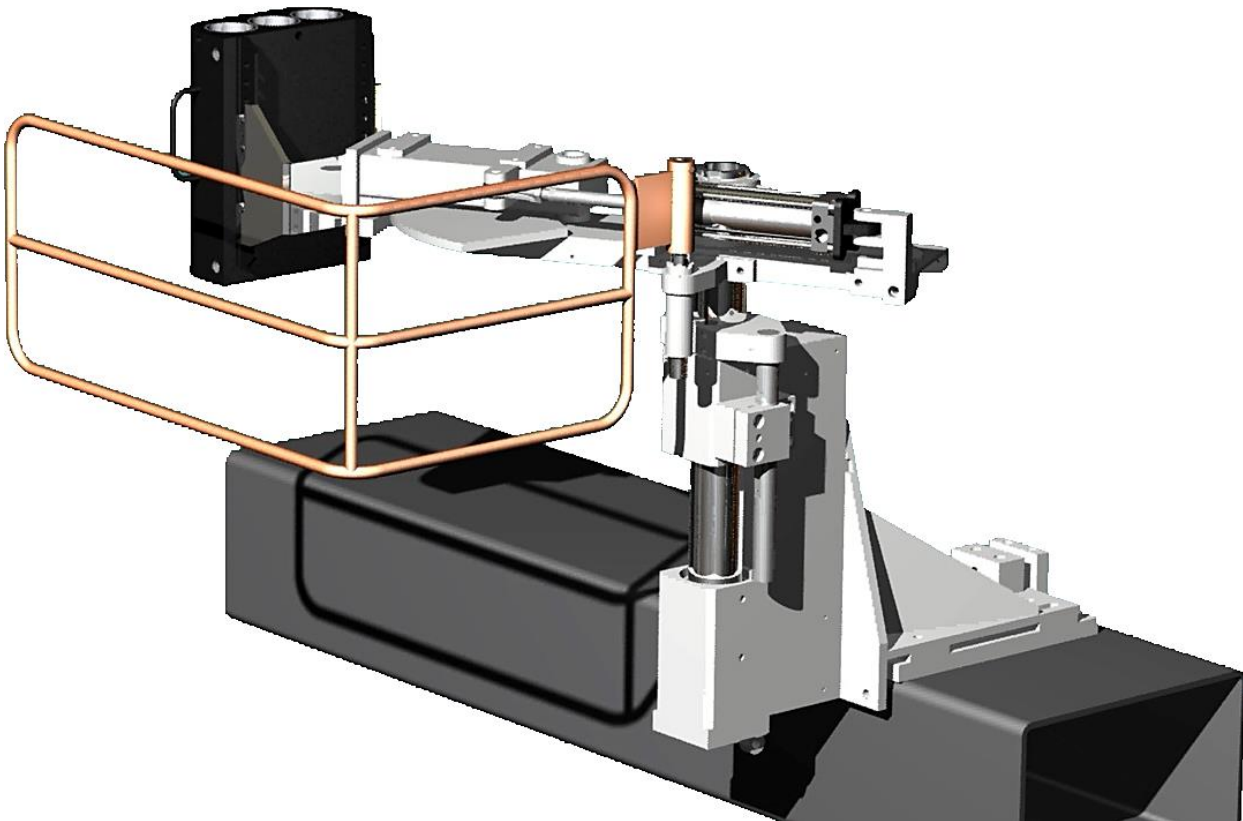


Figure 1. shows a model of an Advanced Loading System mounted on the scoop beam

The ALS comes to the customer as an independently working kit, this robust kit is split into 3 areas:

1. The mechanical machine, to mount onto the customers IS machine beam next to the gob distributor mechanism. This involves the following: A robust mounting bracket; height adjuster mechanism; swing (in/out) arm assembly, including controlled retract system. These all include mechanical adjustment for accurate alignment.
2. The quick-change funnel box, these are changed as a variable from one gob size to another. Fully constructed from stainless steel, the funnel boxes are water-cooled and responsible for all of the production benefits of gob control.
3. The schematic control system, with its own set of panels: A Lincoln high pressure pump for lubricating the air in contact with the gobs in the funnel box; A regulator panel which controls the air/oil mix to the funnel box; A funnel retract panel, controlling the in/out swing of the funnel box, with a built-in emergency retract feature.

DESIGNS • ADVANCEMENT • ORIGINALITY

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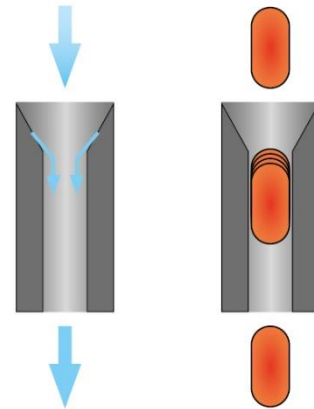
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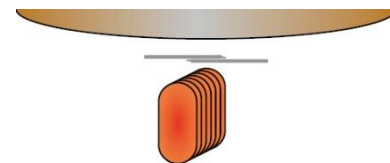
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The top of the funnel has an annular ring which delivers compressed air and oil to the funnel. This draws in ambient air which acts to suck the gob in and fire it out. At the same time the funnels help to shape the gob and guide it to the centre of the funnel on the gob distributor.

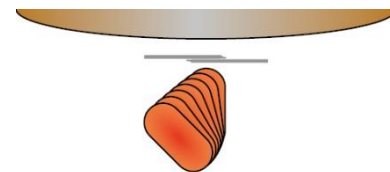


Loading problems the ALS helps to correct:

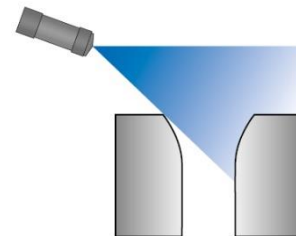
☀ Gob drift - gobs are thrown off centre by shearing. This results in loading marks and slower movement through the troughs and deflectors



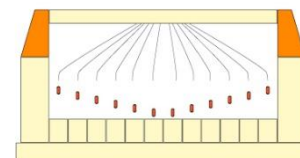
☀ Gob rotation - gobs start to rotate due to shearing or long gob shape. This results in loading marks and slower movement through the troughs and deflectors



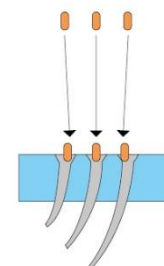
☀ Conventional shear sprays apply lubricant to only one side of the gob distributor funnels. This results in dragging on one side of the scoop and wastes resources.



☀ Sectional differenced - larger machines suffer from different loading times between the inner and outer sections. This limits the machine speed and gives inconsistencies across the sections



☀ Gob interaction - multi-gob delivery results in drift created by the Bernoulli effect due to the distance between the shear point and gob distributor. This results in loading marks and slower delivery



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FEATURES

- ☀ Water-cooled funnel boxes
- ☀ Quick release funnel boxes
- ☀ Retract mechanism
- ☀ Specially designed funnels
- ☀ Full control over air, oil and water
- ☀ Fits any machine
- ☀ Distributes lubricant evenly to the delivery equipment

BENEFITS

- Prevents gobs sticking
- Reduces time at job changes
- Clear the glass flow in an emergency and allows safe access to the funnel box at job changes.
- Accelerates the gobs by up to 30%
- Synchronise loading on multi-gob machines, adjust gob length, set best speed for consistent loading.
- Improvements can be made to all your lines.
- Removes the need for scoop spray and optimised lubricant application.



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