

Deane Systems LLC

Parts Feeders and Assembly Automation

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We would like to introduce our new parts feeding system designated “ The Raptor Lift “. This new system is offered as a cost effective means for conveying parts/ fasteners from the storage area to the orientation and discharge area compared to conventional step lift / ladder and vibratory feed systems. Currently four sizes of feeders are being offered - DSR1, DSR2, DSR3, DSR4 each with multiple track and escapement configurations. If you would like further information regarding our new system please feel free to call or e-mail with your questions and or requests.

Advantages / Features / Options of The Raptor Lift

Compared to a ladder (step lift) of comparable size, the new system will handle larger and / or longer items.

Capable of handling a higher quantity of discharge tracks and escapement packages.

Generally higher feed rates when compared to similar elevating parts feeders

Narrow physical footprint and increased storage capacity in basically the same foot print size step lift feeder

Equipped with large bottom dump cleanout door for rapid purging

Raptor accepts all of Deane Systems LLC standard gravity tracks, jump tracks, live track configurations, y-blocks, and feed tube diverters

Elevating unit is unaffected by sharp pointed fasteners or parts that are thin or have thin flanges

Elevating unit is unaffected by metal chips and most small pieces of manufacturing debris

Generally delivers more fasteners per cycle to the orientation area

Fasteners or parts that tend to tangle (long screws with aggressive threads and large heads) are easily transferred from the storage to the orientation and discharge tracks by the lift unit without use of part damaging agitation spikes or probes.

Extra storage / bin extenders offered as an added cost for increased run-time - does not add extra length or width to the system saving valuable floor or cell space.

Track Kickers are offered as an added cost to remove non-oriented parts from the track back to the part storage area.

Integrated storage included with unit, does not require an external hopper saving space and costs

System offered with presenting tracks and escapements for part pickup by a robot.

Low air consumption required to operate the system

Integrated low load height for filling fastener storage area

Systems can be reconfigured or changed over as an added savings for future projects!!!!

Feeder enclosures are made of 304 stainless for long life and low maintenance.

All non-stainless feeder tracks components are electroless nickel plated

Quarter turn latches on all access doors (Hex tool req'd)
Hinge sensors offered as an added cost option

These systems can be mounted on Deane Systems stands, in work cells, on benches for fixed positions or our risers with casters for mobility between work areas.

Feeder	Dimensional Footprint	Storage Area	Storage Area w/ Bin Extender
DSR - 1	8" W x 22" H x 42" L	600 CU/IN	1080 CU/IN
DSR - 2	11" W x 34" H x 57" L	1728 CU/IN	2930 CU/IN
DSR - 3	16" W x 34" x 57" L	2590 CU/IN	4500 CU/IN
DSR - 4	COMING SOON	COMING SOON	COMING SOON

