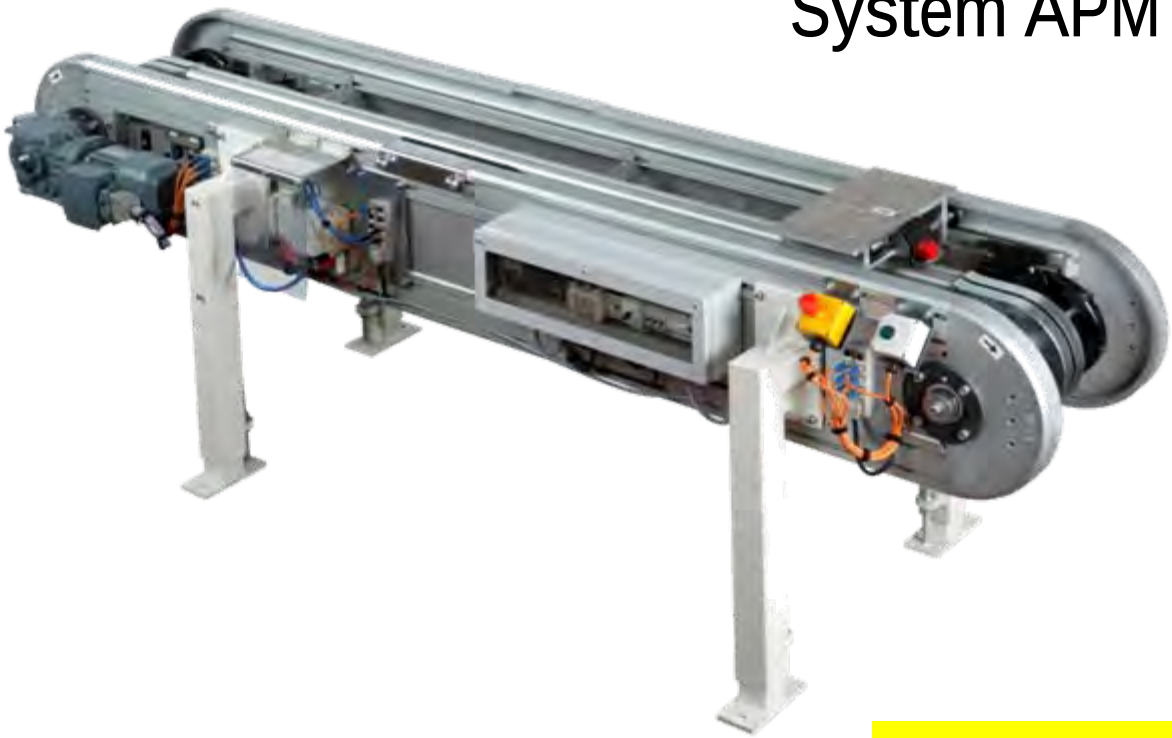
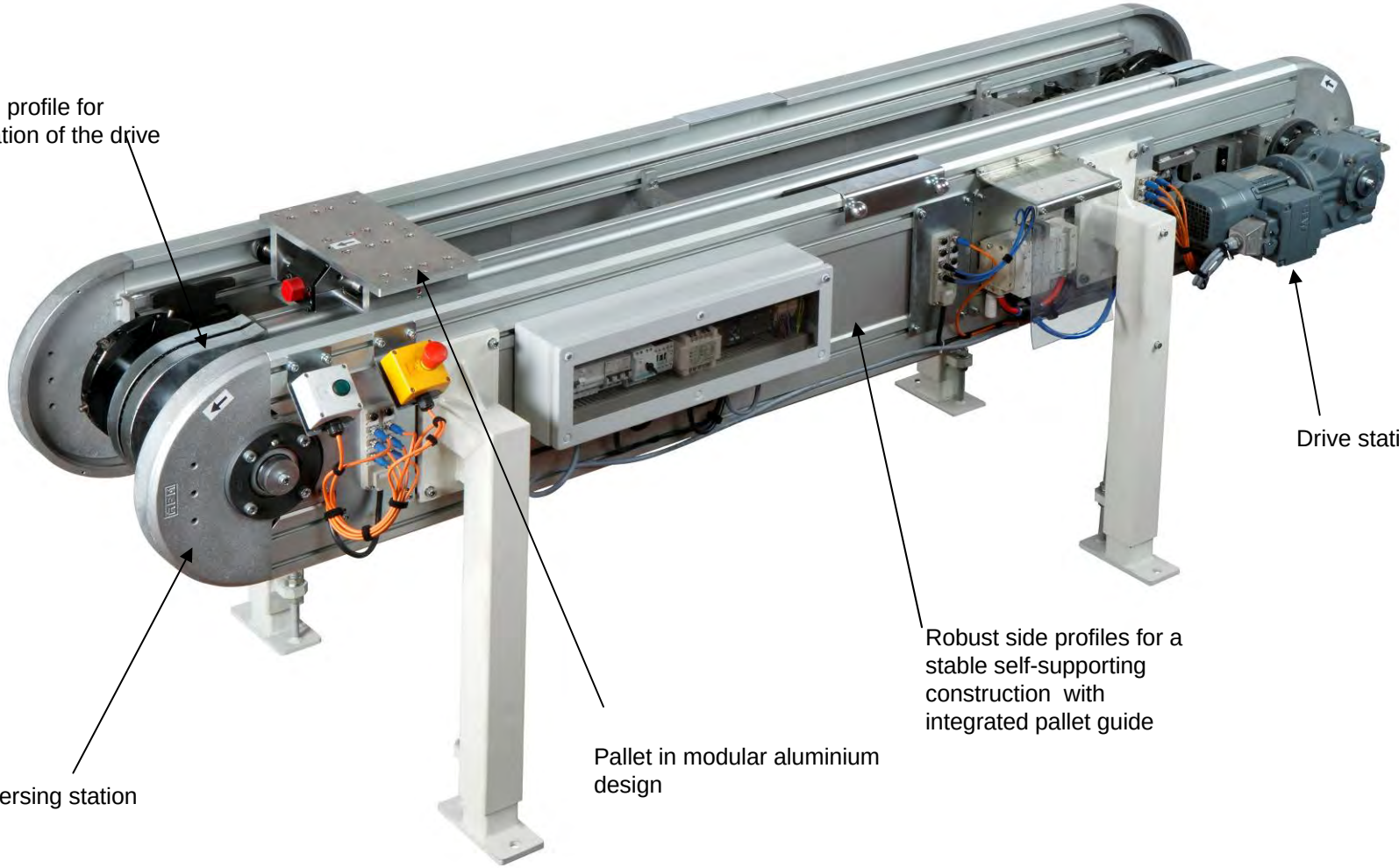
AFS Pallet accumulating conveyor system

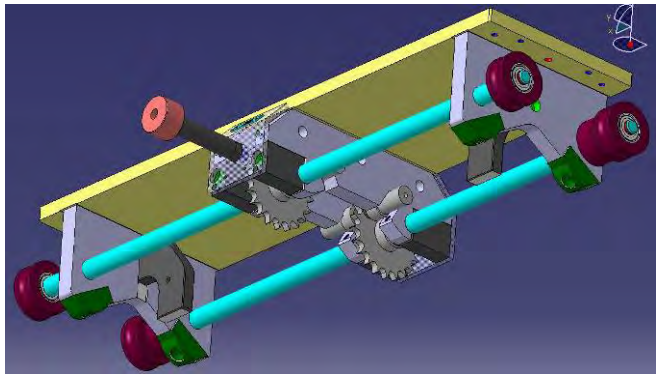
System APM



AFS Accumulationg Conveyor Overview



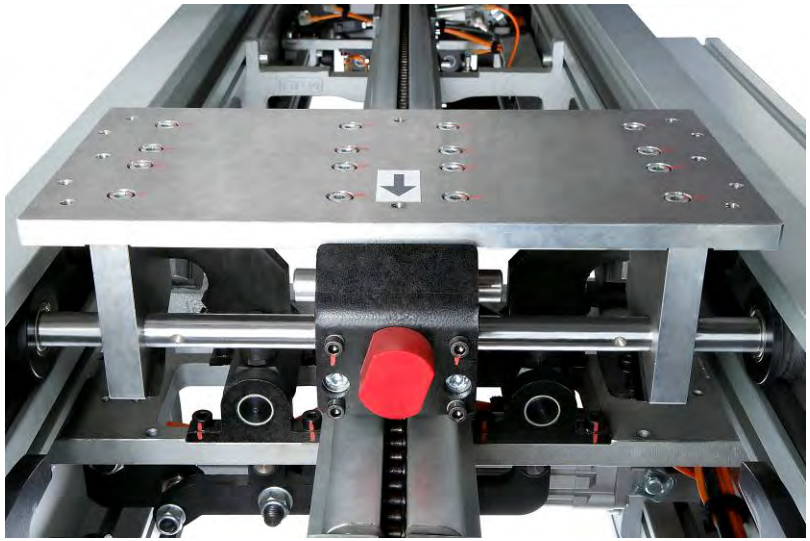
Construction of pallet



Dual friction sprocket

Plastic roller with concave running surface

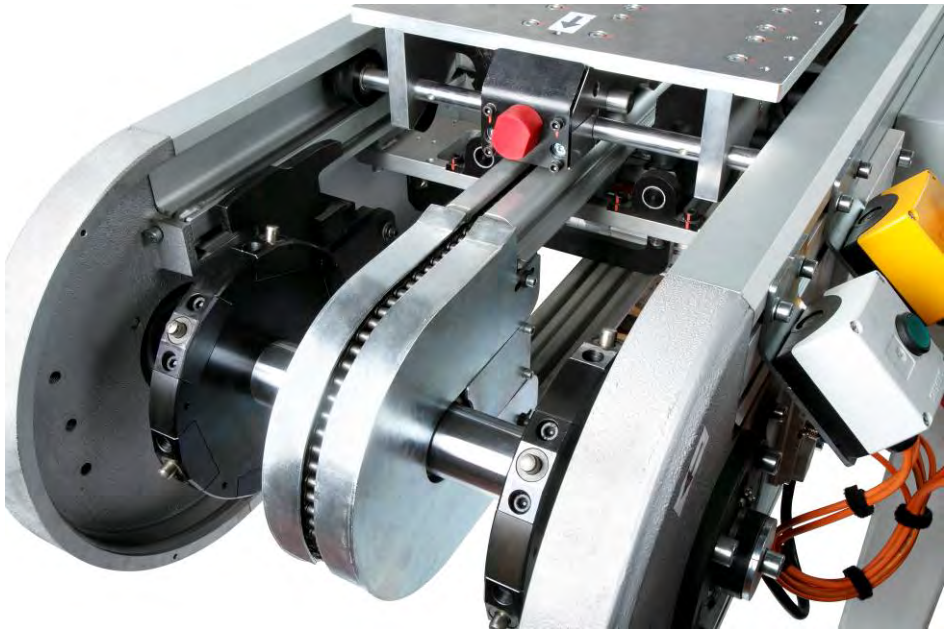
Steel tube guide rail flush-mounted into the profile

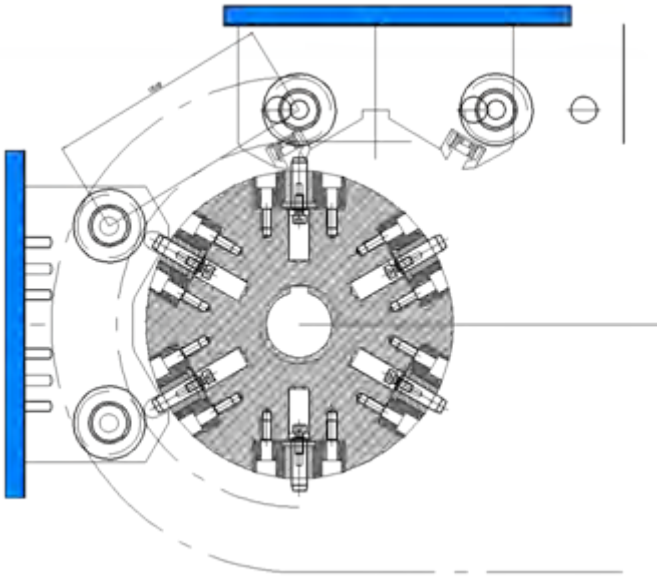


Modular pallet construction in aluminium screw-fitted design

Pallet transportation with positive fit during directional change

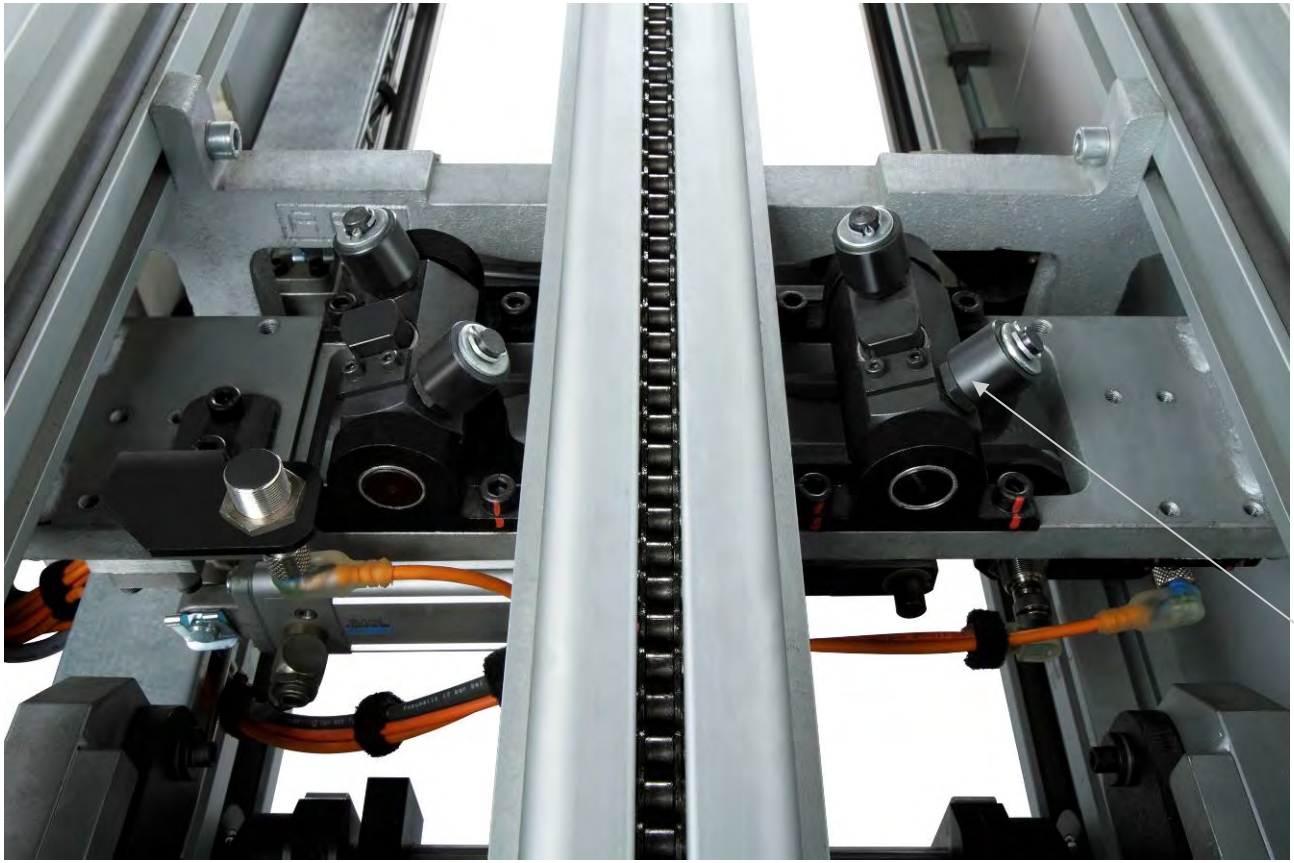
- Through spring-supported pins, the pallet is conveyed by the driving sprocket and changes direction with positive fit





- Situation of pallet shortly before it engages into the driving sprocket

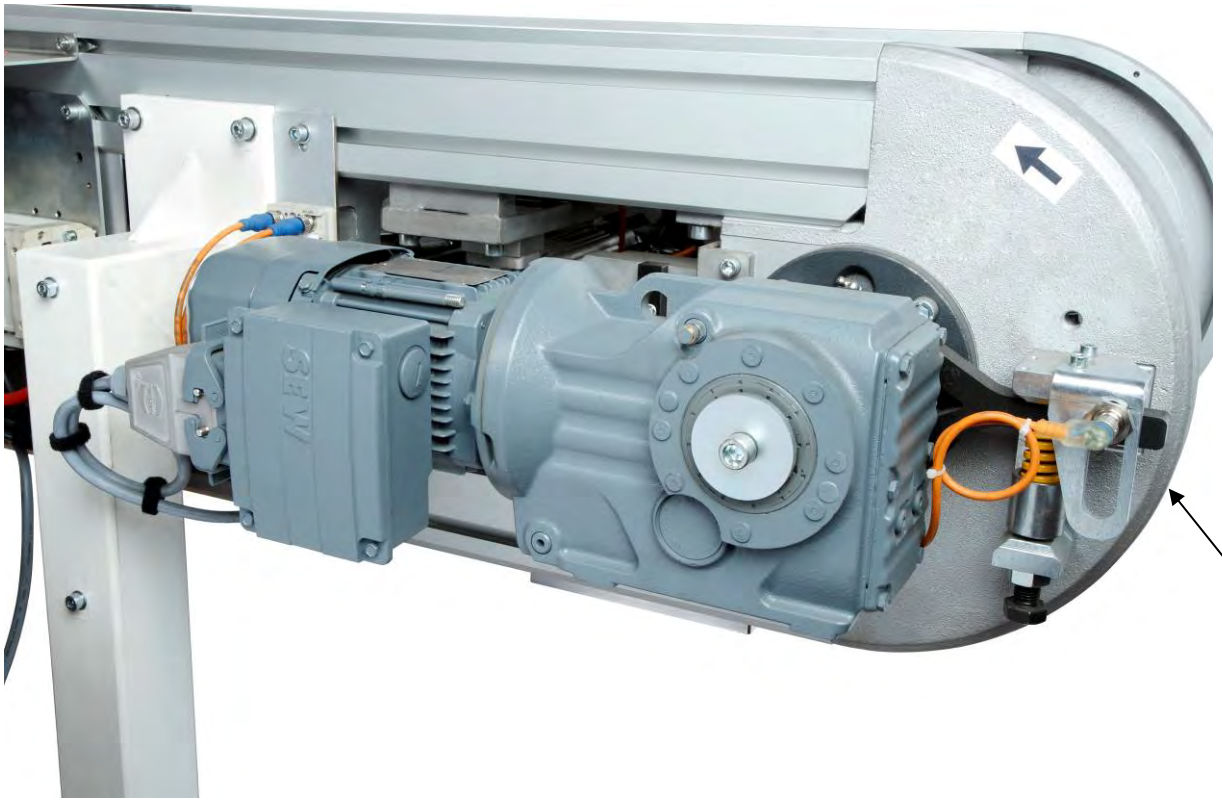
Detail: Isolation of pallets



Synchronised rockers with one stopping and one isolating roller each

Detail: Geared motor with overload switch

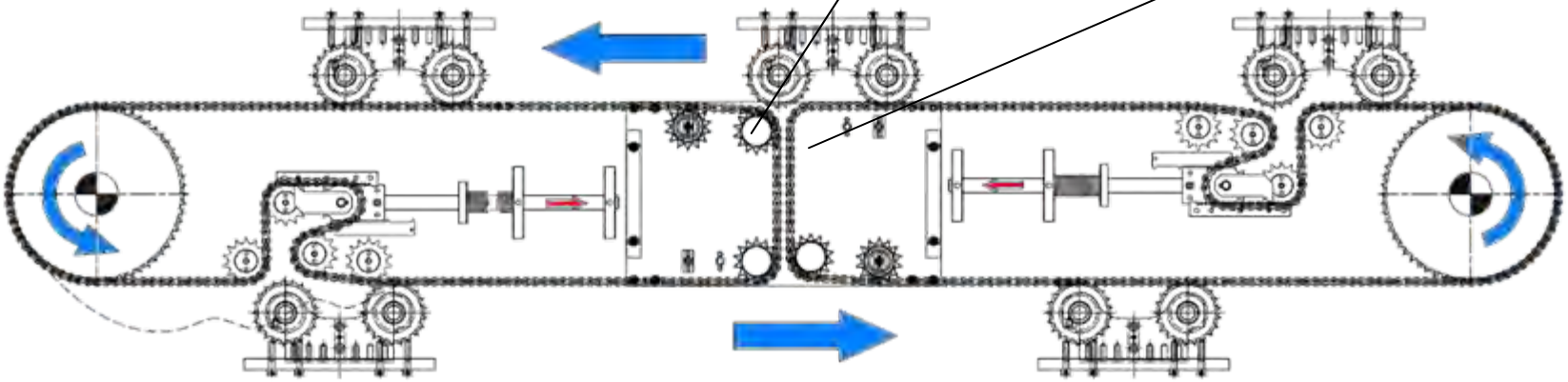
- If the predefined load torque is exceeded, e.g. due to pallet crash etc., the drive unit is switched off



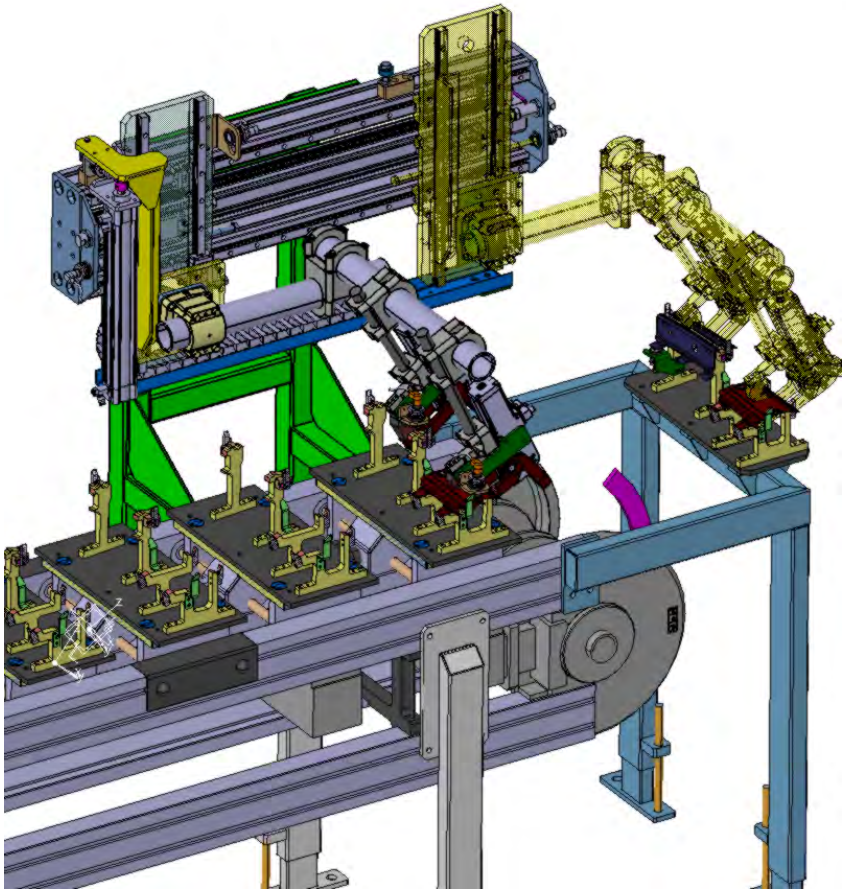
Realisation of special lengths > 20 m

TÜNKERS
Ingenuity in series.

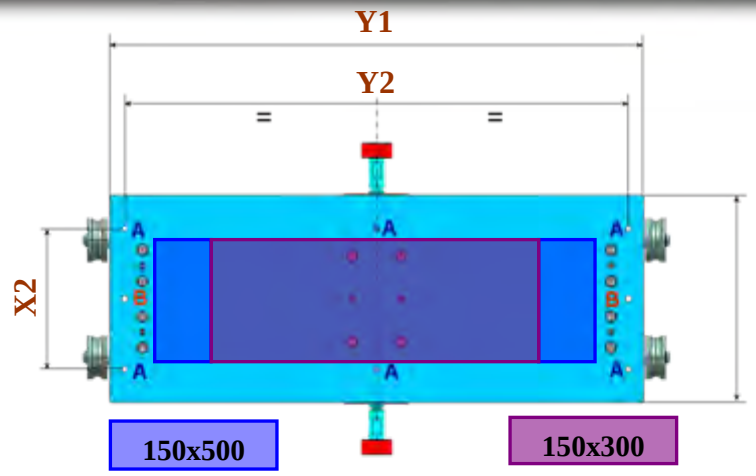
- Connection of individual segments through synchronous operation



Option: Automated component unloading / Transmittor



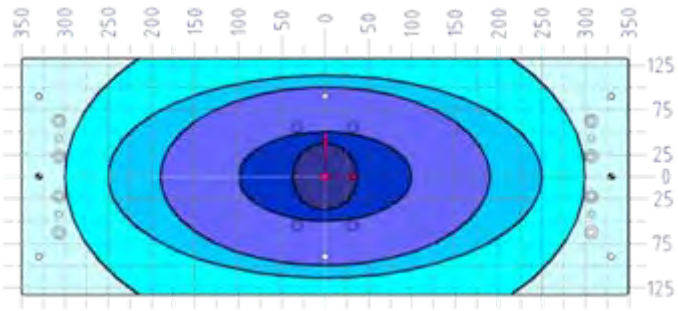
Pallet load design guidelines

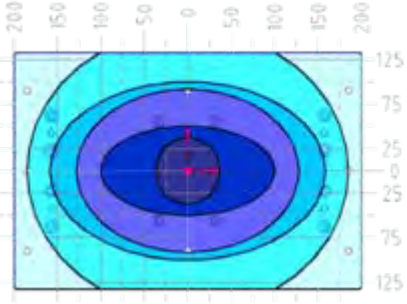


	PALLET WIDTH [mm]	
Y1	700	400
Y2	660±0.05	370±0.05
X1	265	265
X2	180±0.2	180±0.2
A	(x6)M8	(x6)M8
B	(x2)Ø8H7	(x2)Ø8H7

1.2 - Weight: workpiece + workpiece carrier

As to conveyance, we have to consider the following graphic illustrations for the distribution of the centre of gravity in relation to the sum of the weights **(P1+P2)**:





100 Kg
50 Kg
90 Kg
30 Kg
75 Kg
10 Kg

Mass centre of gravity of the empty tool (*P1*)
Centre of the workpiece to be transported (*P2*)

Application example 1
Horizontal accumulating conveyor

Application example 2
90° accumulating conveyor

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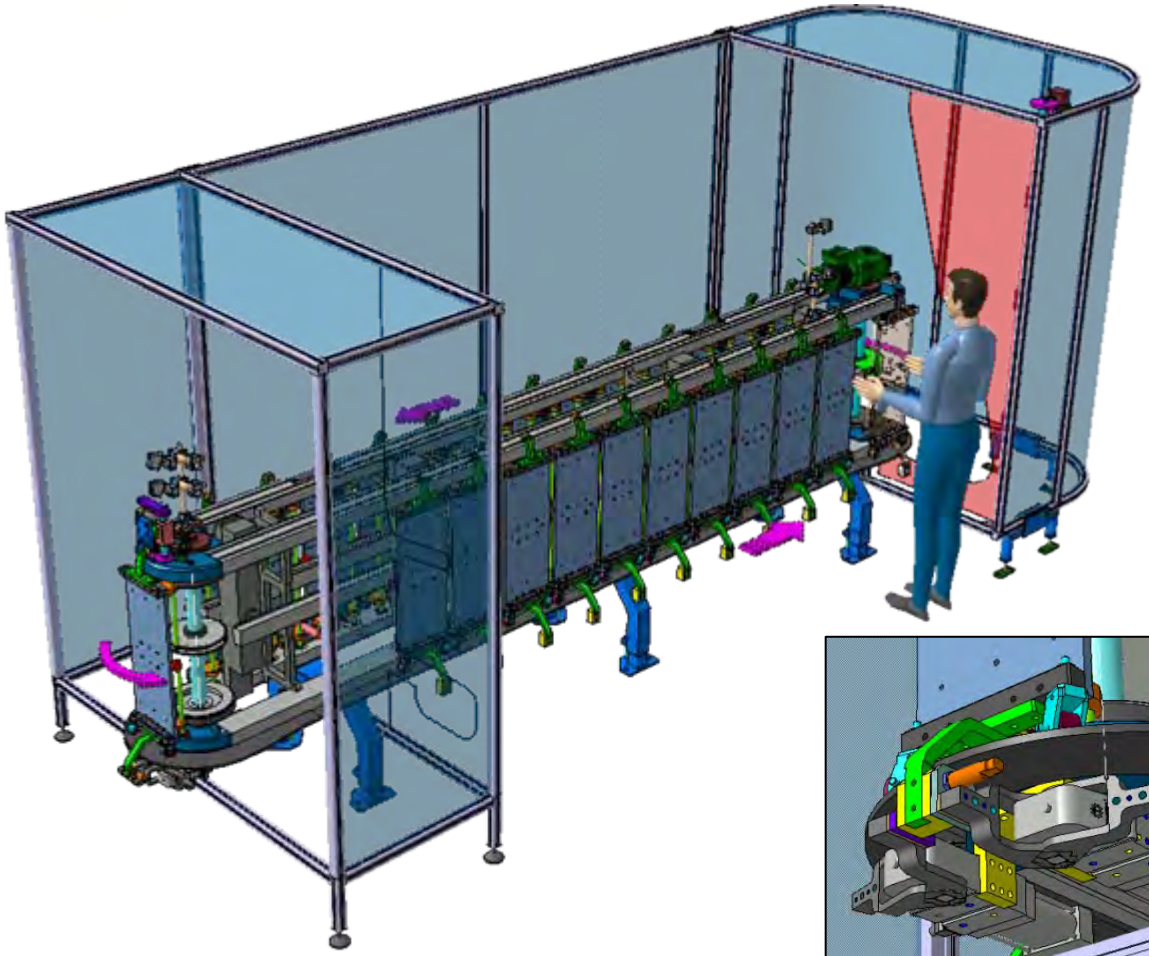
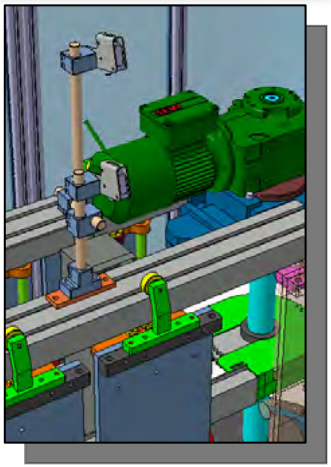
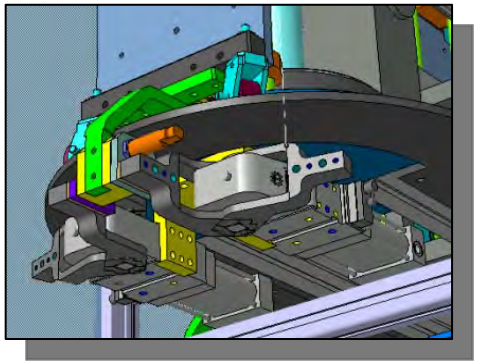
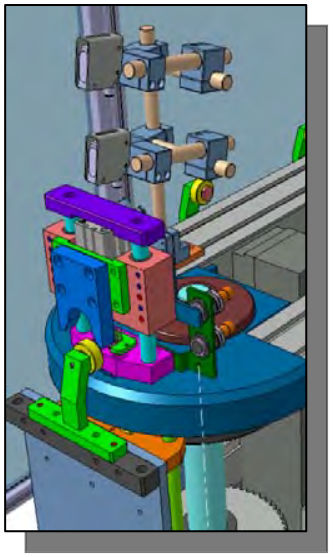
Ingenuity in series.



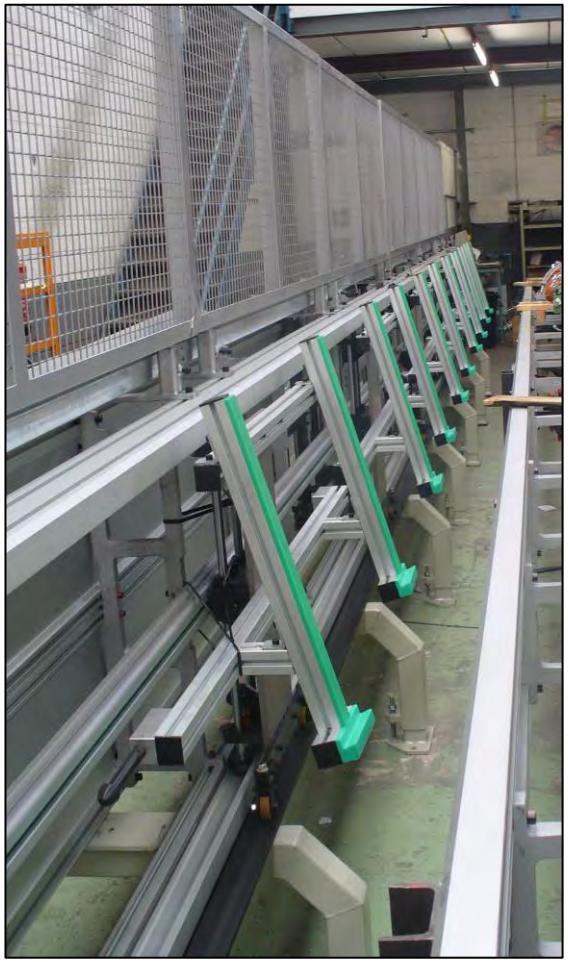


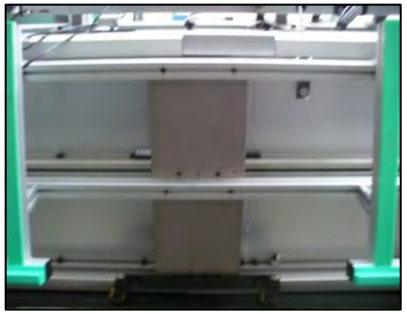




Application example 3
90° accumulating conveyor

TÜNKERS
Ingenuity in series.





Application example 4
90° accumulating conveyor “around the bend“