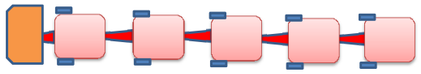
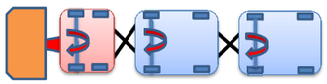
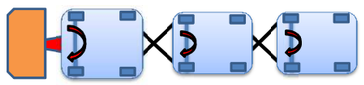
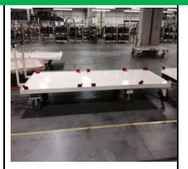
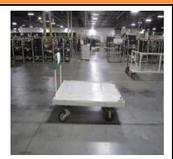
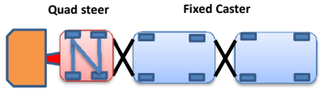
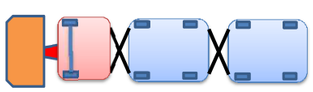
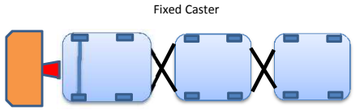
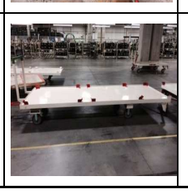
Summary of DTL dolly proposal

	Drawing	Picture	Number of Dolly Train	Pallet Capacity	Dimension of Dolly	Train Length	Turn radius		Kick out	Jacknife Test	Noise Sampling Result (Max 80db)	Team Member Feed Back	Walk Time Man Hour / cycle	Potential Payback	Cost Impact Result
Current	Fixed Caster 		5 Dollies	5	2,150mm x 1,270mm (opportunity to narrow)	13,670 mm (Excessive length)	1,110 mm	X (can't maintain aisle in turn)	O	X	79.6db Near OSHA threshold (noise reduction opportunity)	X	143 Sec (Excessive walk)	—	—
Option 6	Rotating front axle, fixed back axle x-bar (5 Pallet) Rotating Axle 		3 Dollies	5	1,950 x 1,200 / 2,750 x 1,200	7,798 mm (-5,872mm)	2280 (+1,170mm)	O	O	O	72.1db (-7.5)	O	84 Sec (-59)	Walk -.43 m/p	Train cost $9,900 / DTL System $263,400 (26 trains)
Option 7	Rotating front axle, fixed back axle x-bar (6Pallet) Rotating Axle 		3 Dollies	6	3,381 x1,200 / 2,750 x 1,200	9,561 mm (-4,109mm)	2300 (+1,190mm)	O	O	O	72.6db (-7.0)	O	95 Sec (-48)	Walk -.35 Pllt -1.73 total -2.08 m/p	Train cost $10,702 / DTL System $284,265 (26 trains)
Option 1	Fixed Caster x-bar 5 dolly configuration Fixed Caster		5 Dollies	5	1,540mm x 1,200mm	9,910 mm (-3,760 mm)	1,610 mm (+ 500mm)	△	O	x	—	x			—
Option 2	Quad steer 3 dolly design (5 pallet) Quad Steer		3 Dollies	5	2,750mm x 1,200mm	8,450 mm (-5220 mm)	2,720 mm (+1,610 mm)	O	X	O	—	x			—
Option 3	Quad Steer lead x-bar design (5 Pallet) Quad steer Fixed Caster 		3 Dollies	5	2,750mm x 1,200mm	8,450 mm (-5220 mm)	2600mm (+1,490mm)	O	X	O	—	△			—
Option 4	Pivoting front axle, fixed rear axle x-bar design (5 Pallet) Fixed Caster 		3 Dollies	5	1,950 x 1,200 / 2,750 x 1,200	7,798 mm (-5,872mm)	2210 (+1,100mm)	△	O	△	71.4 Decibles	△	84 sec (-59)		Train cost $8,657 / DTL System $231,095 (26 trains)
Option 5	Pivoting front axle,fixed rear axle x-bar design (6 Pallet) Fixed Caster 		3 Dollies	6	3,381 x1,200 / 2,750 x 1,200	9,561 mm (-4,109mm)	—	No Trial	No Trial	No Trial	No Trial	No Trial	95 Sec (-48)		Train cost $9,810 / DTL System $261,073 (26 trains)

Deciding factor due to all other factor being basically the same.