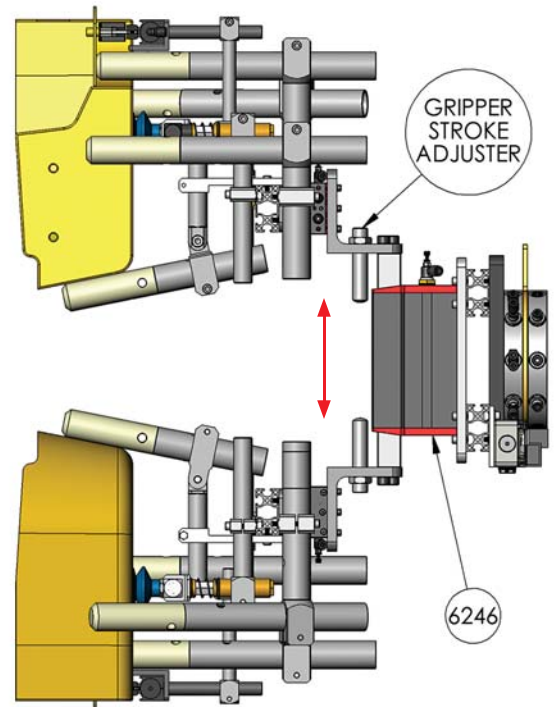
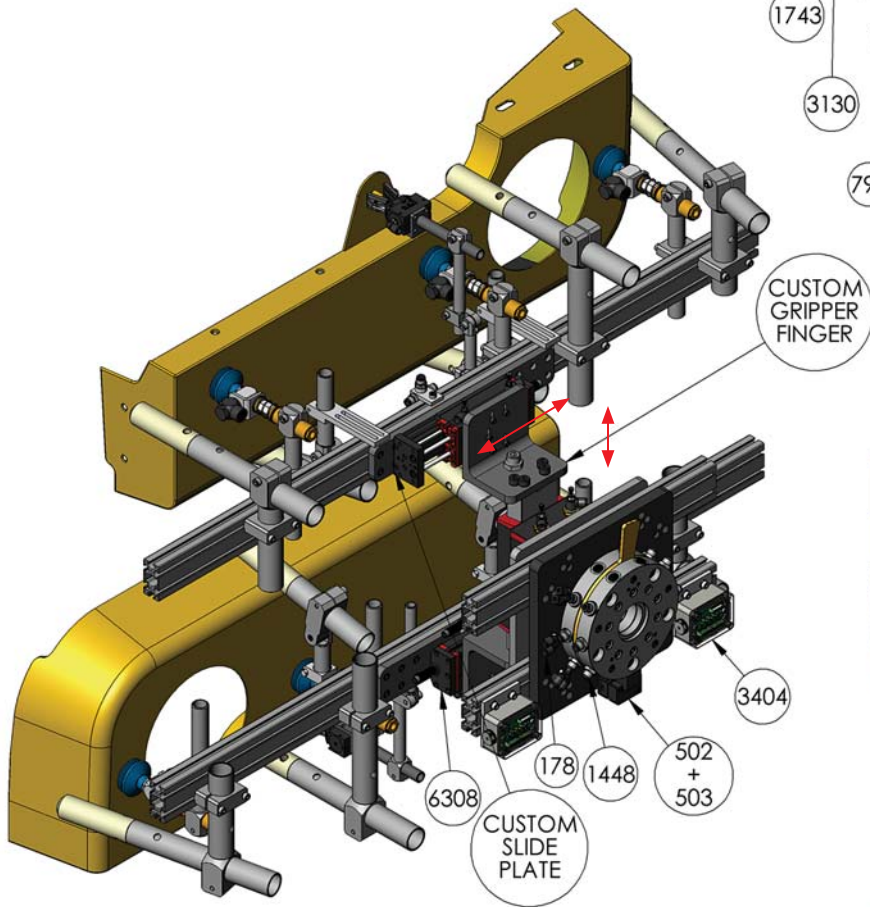
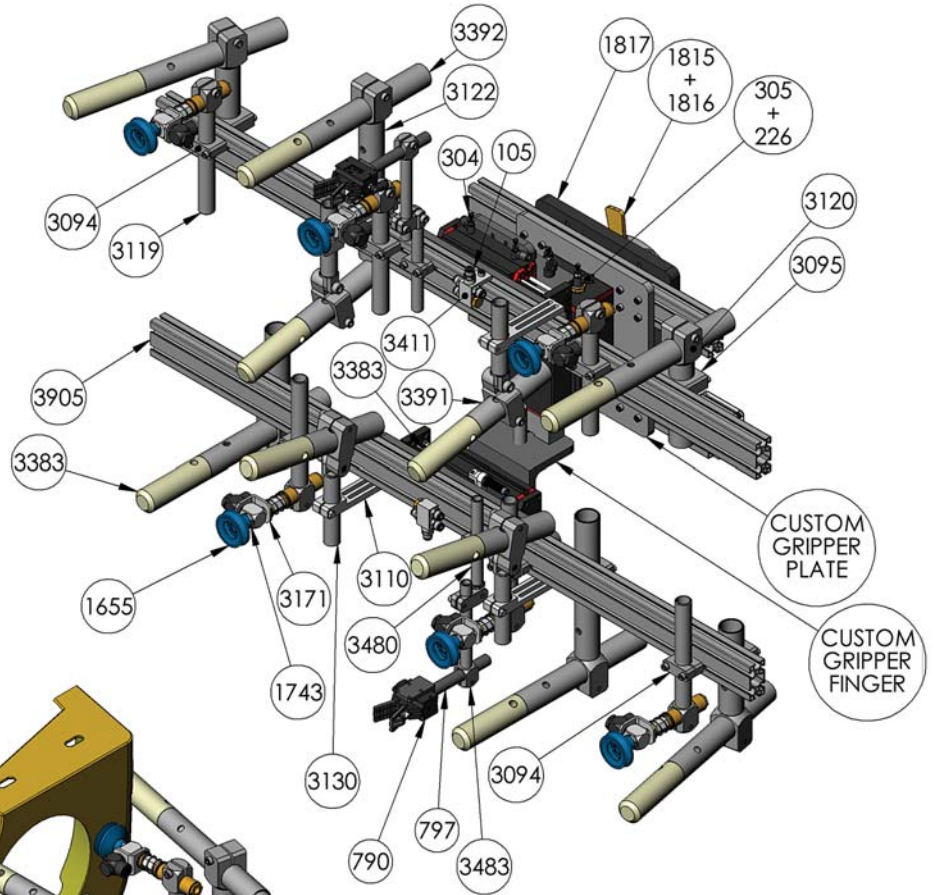
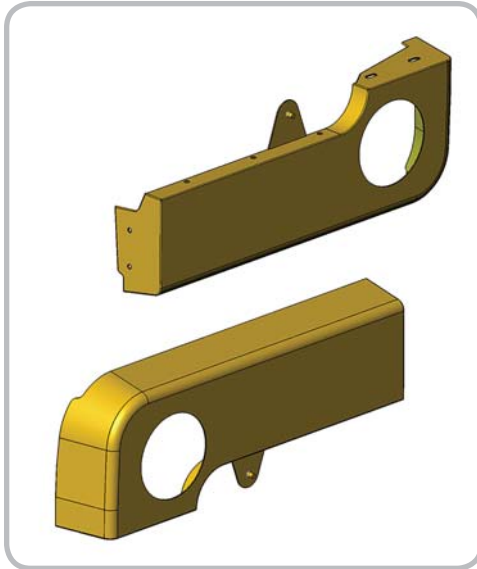
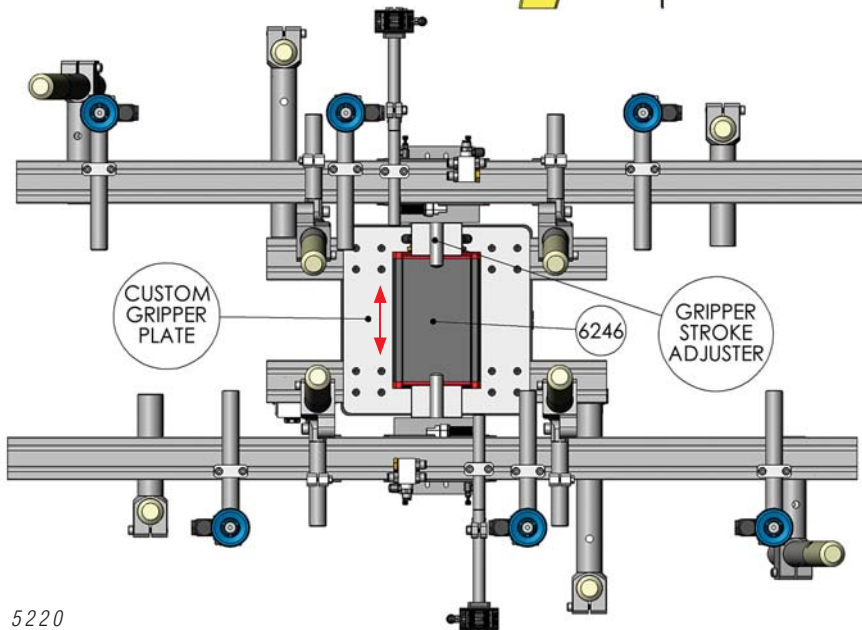
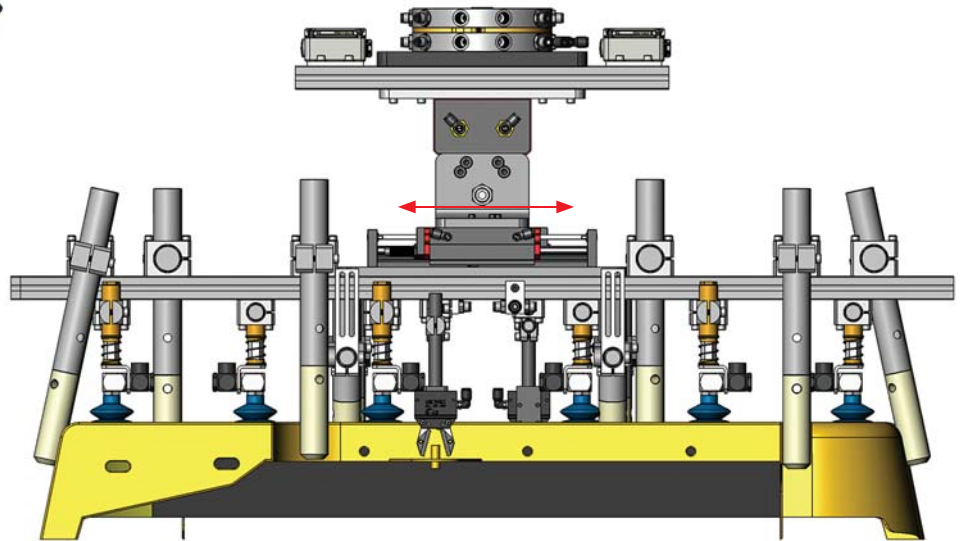
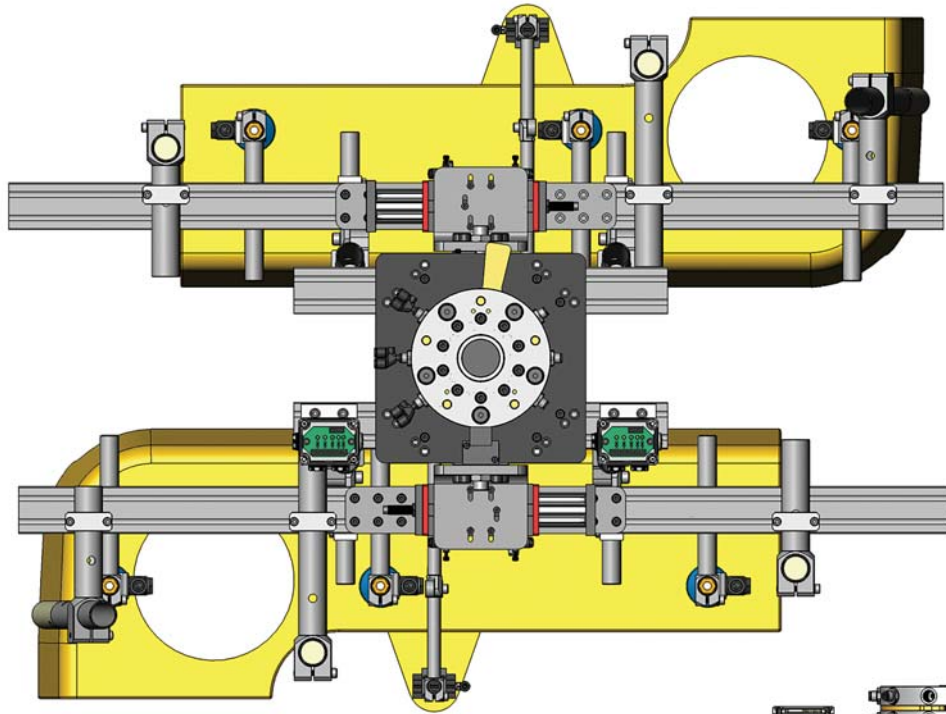


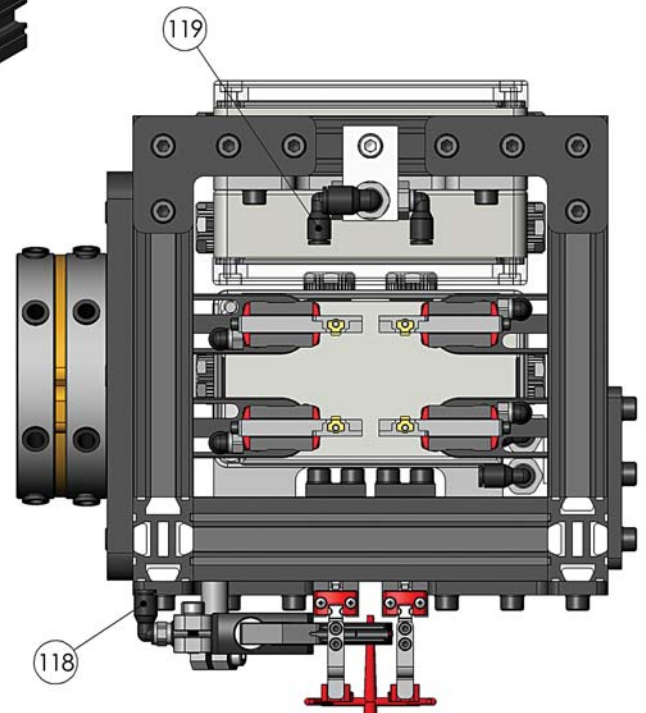
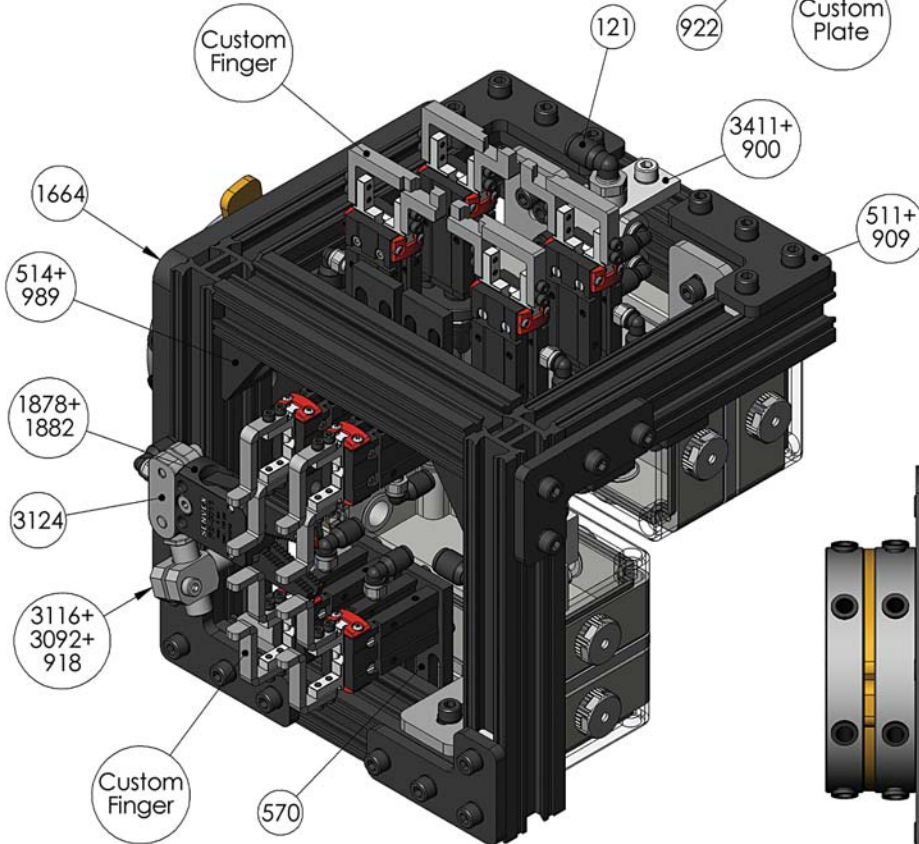
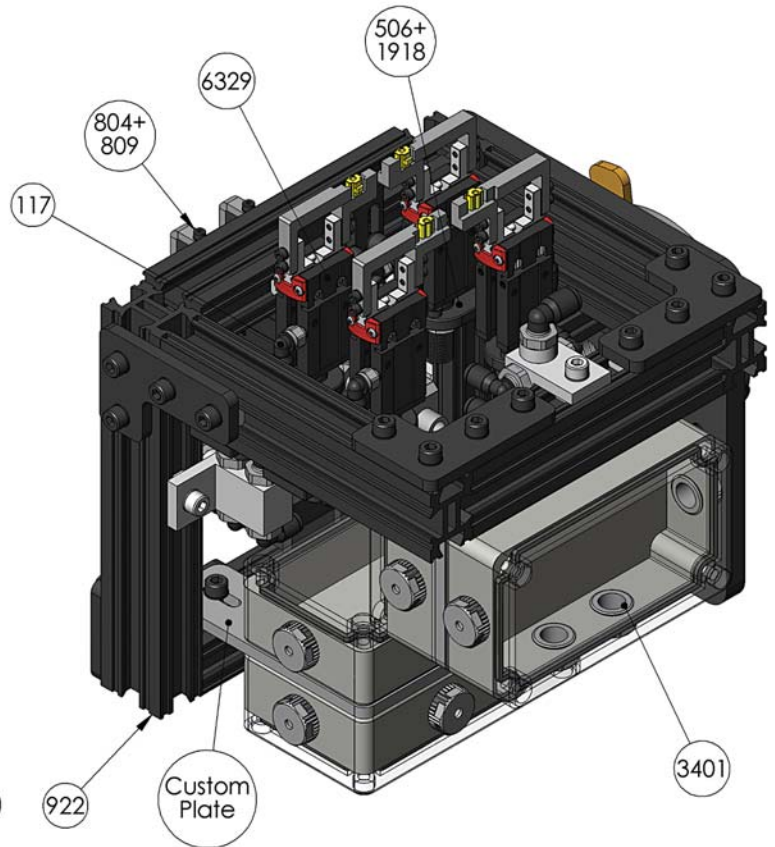
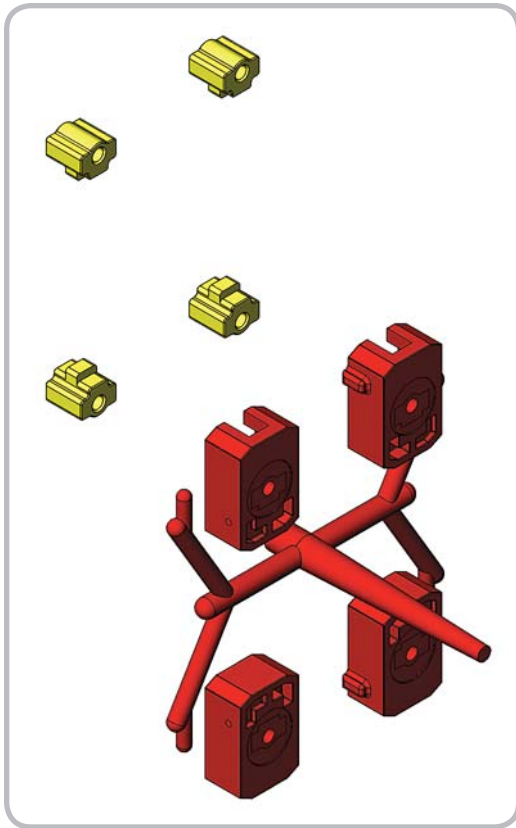
X & Y axis part removal using linear slides and wide angle gripper



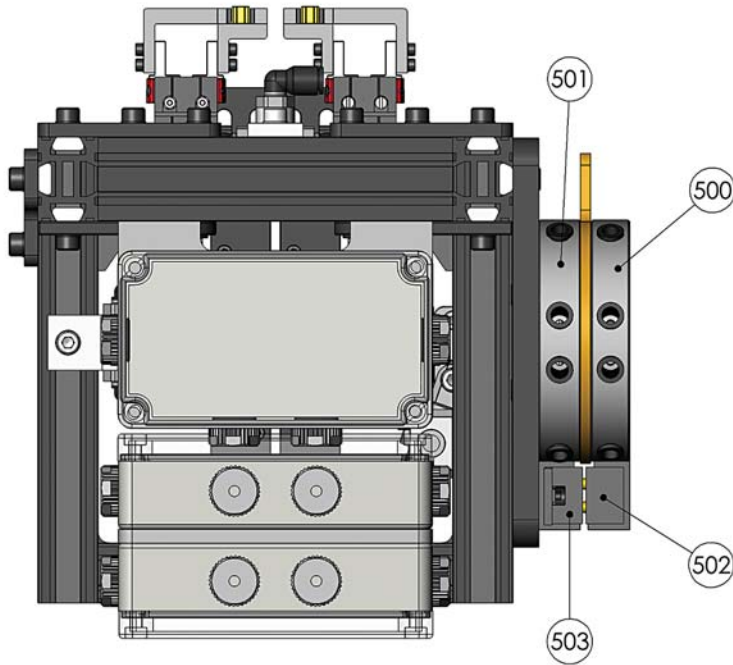
X & Y axis part removal using linear slides and wide angle gripper



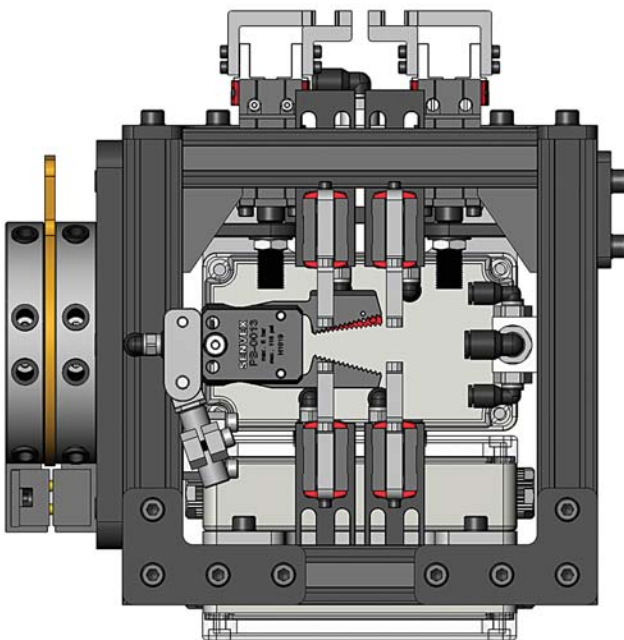
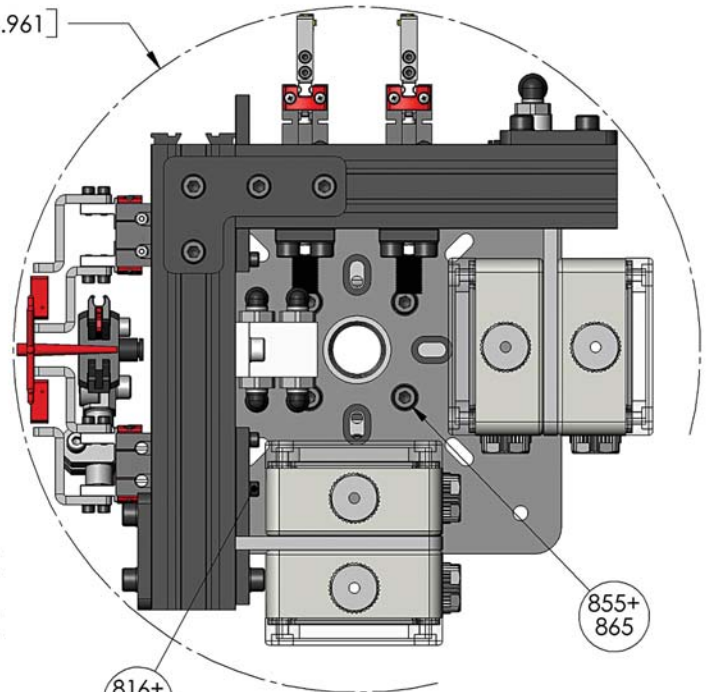
Insert loading from side entry robot



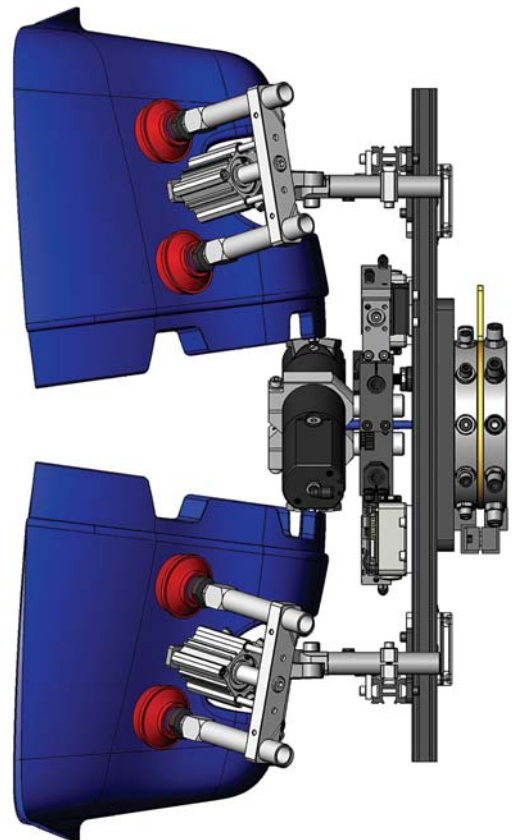
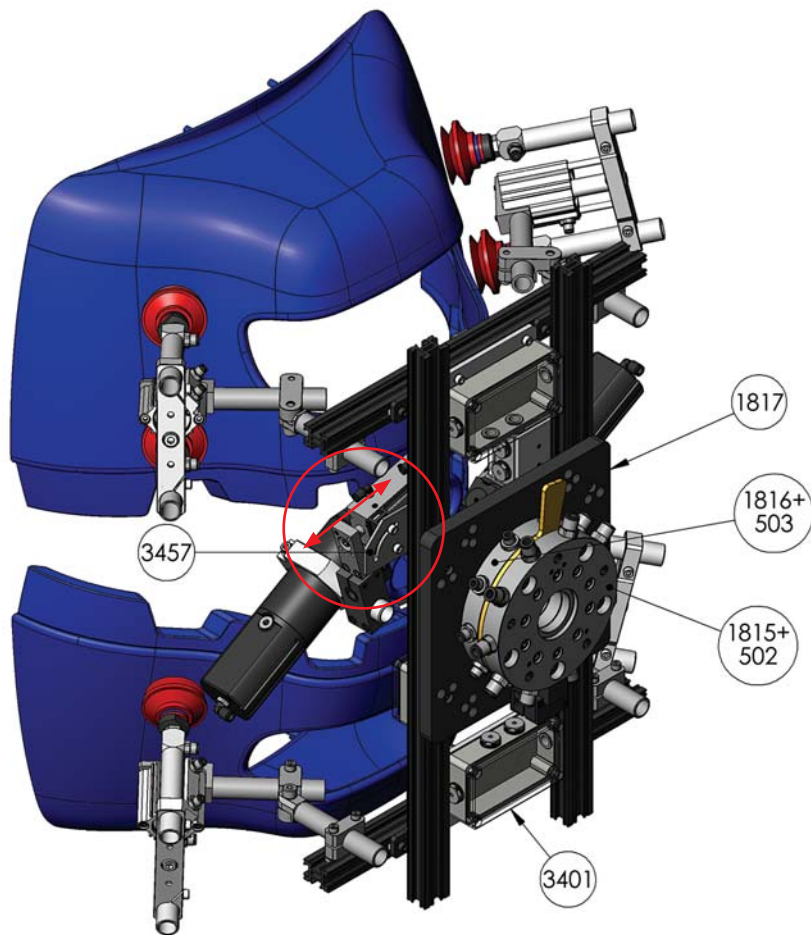
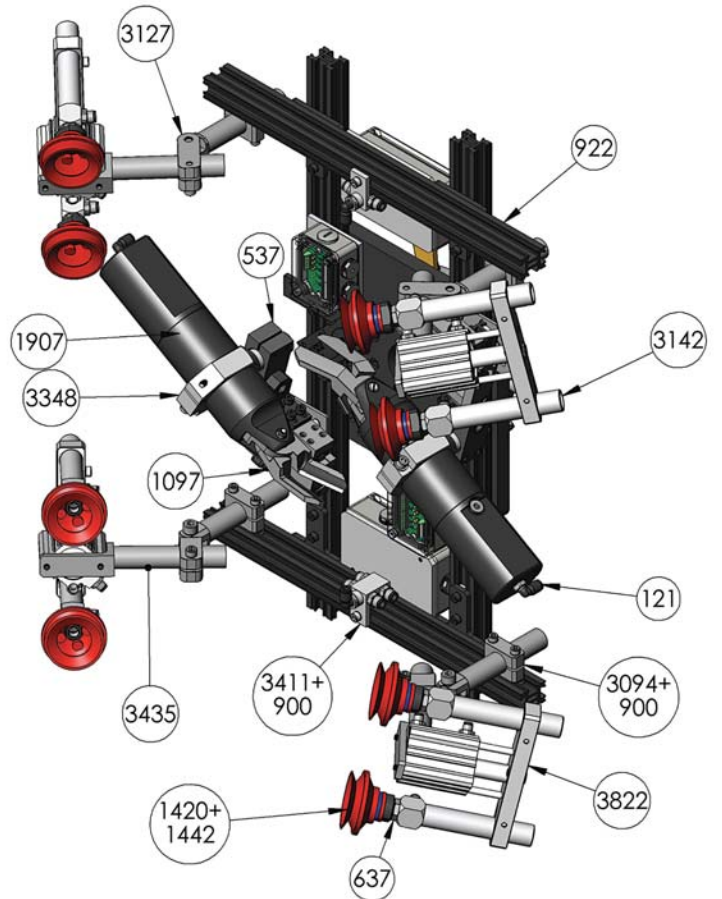
Insert loading from side entry robot



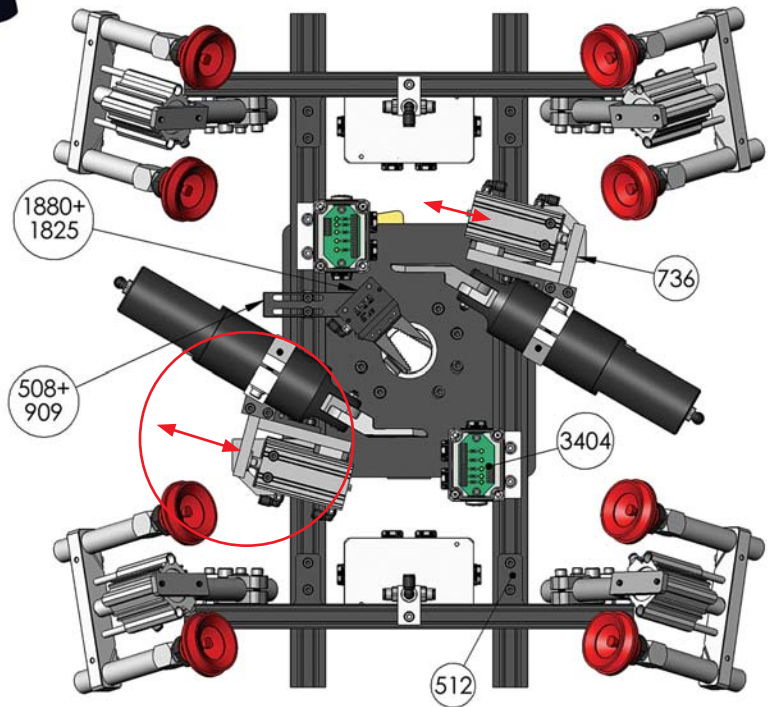
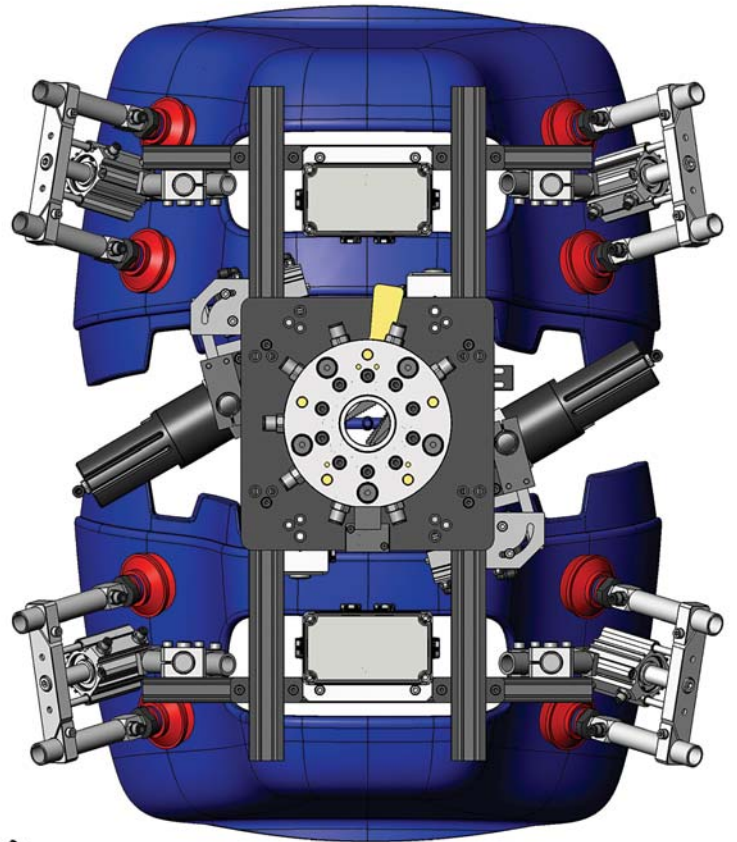
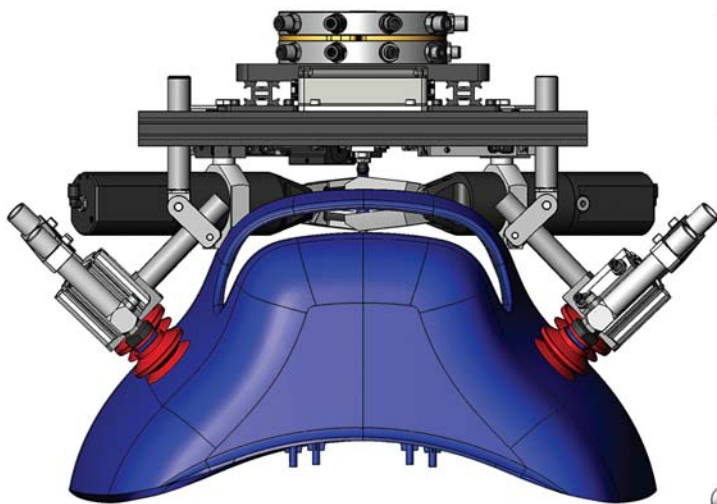
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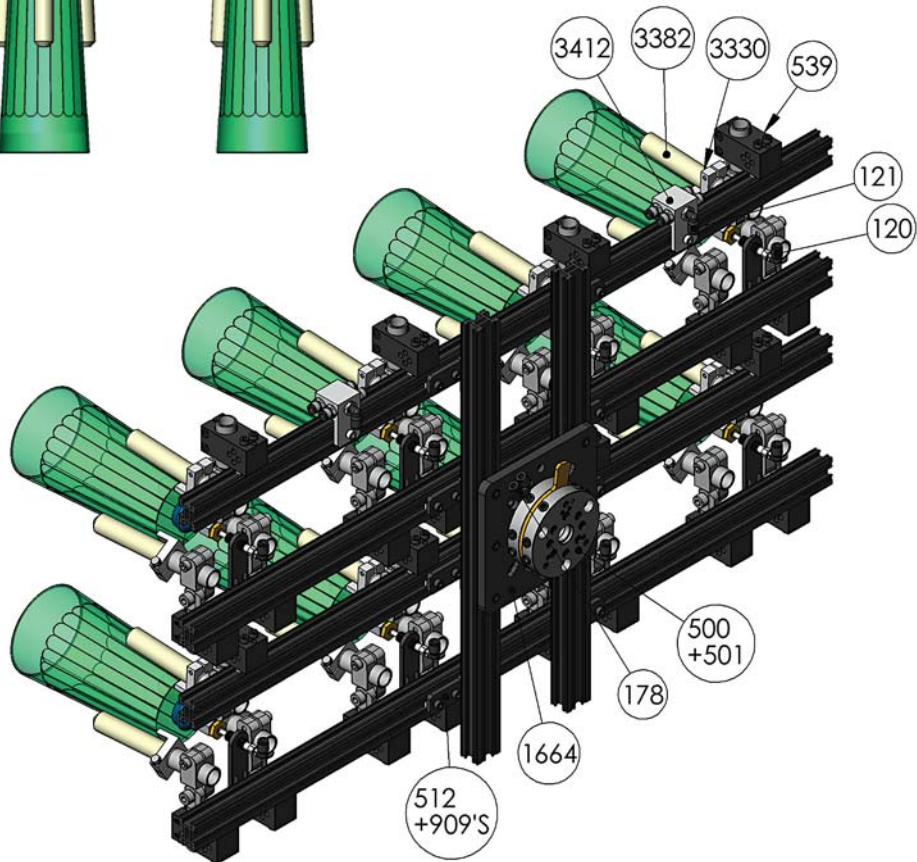
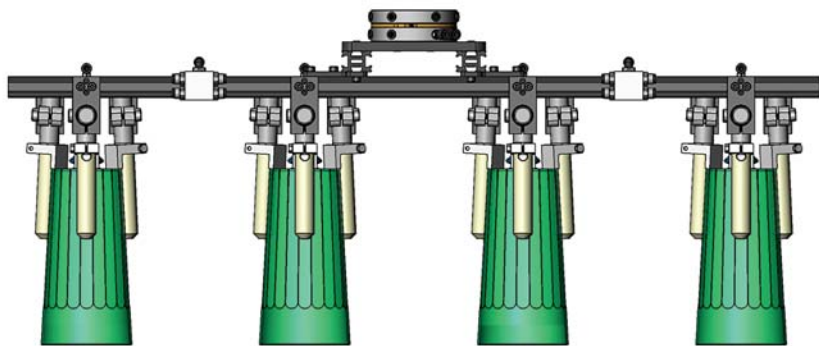
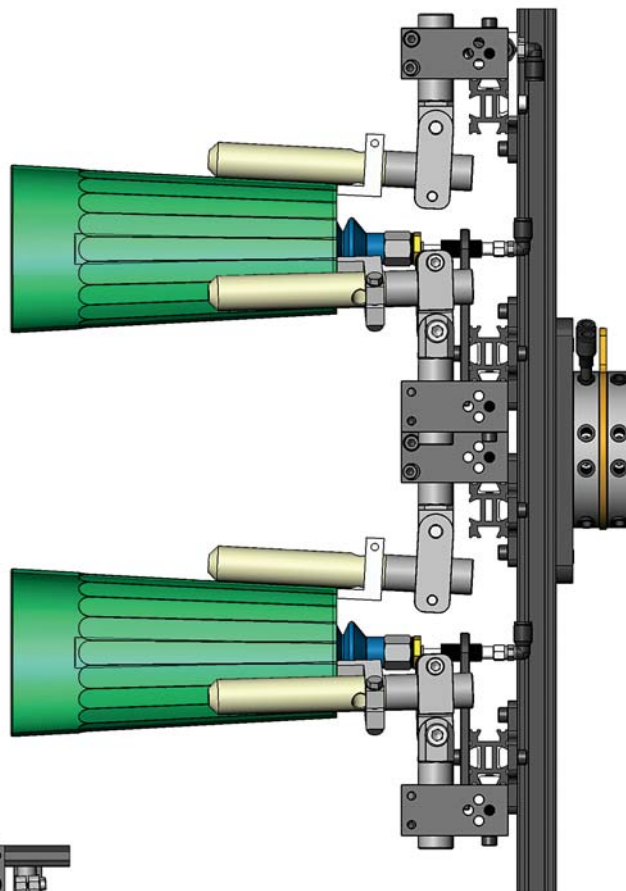
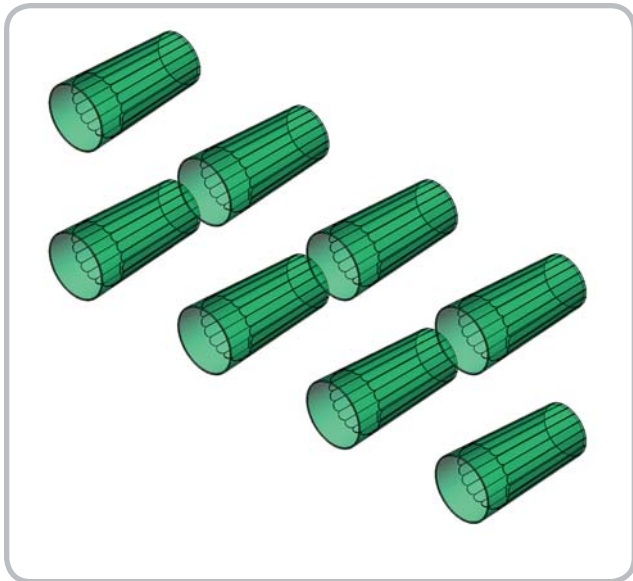
Nippers mounted on linear slides



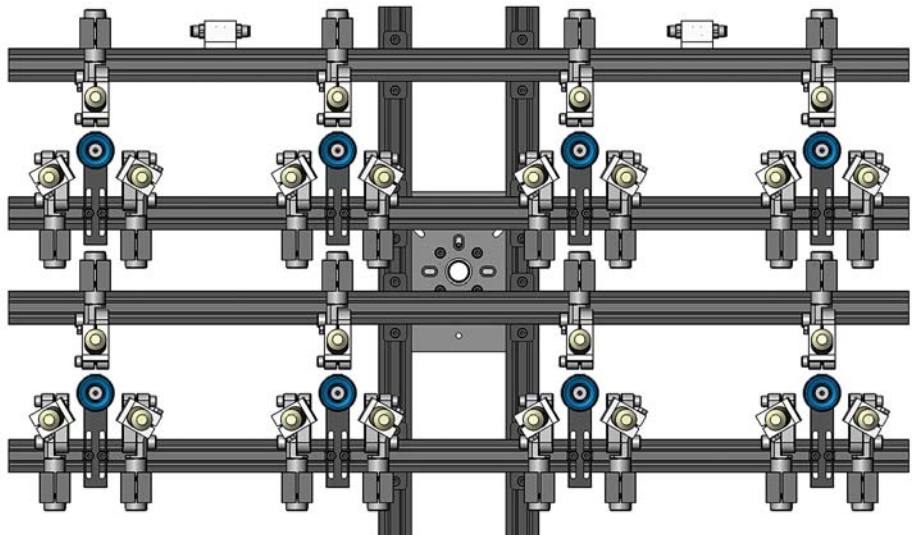
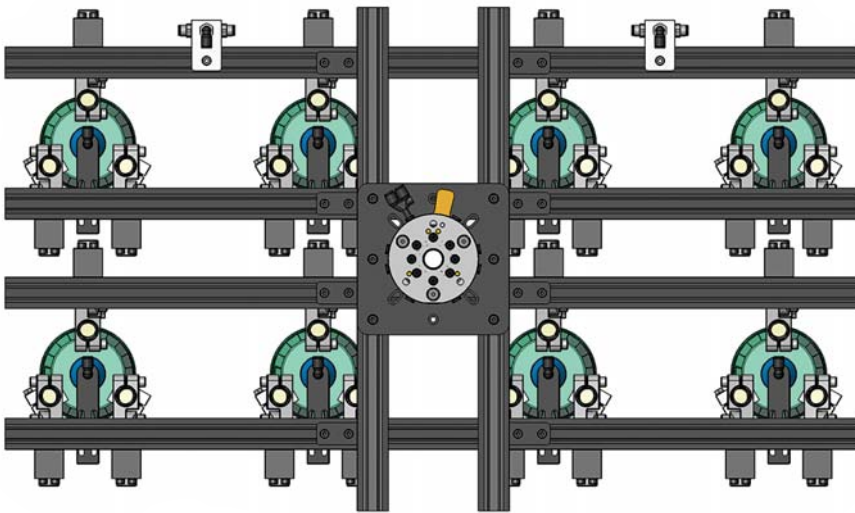
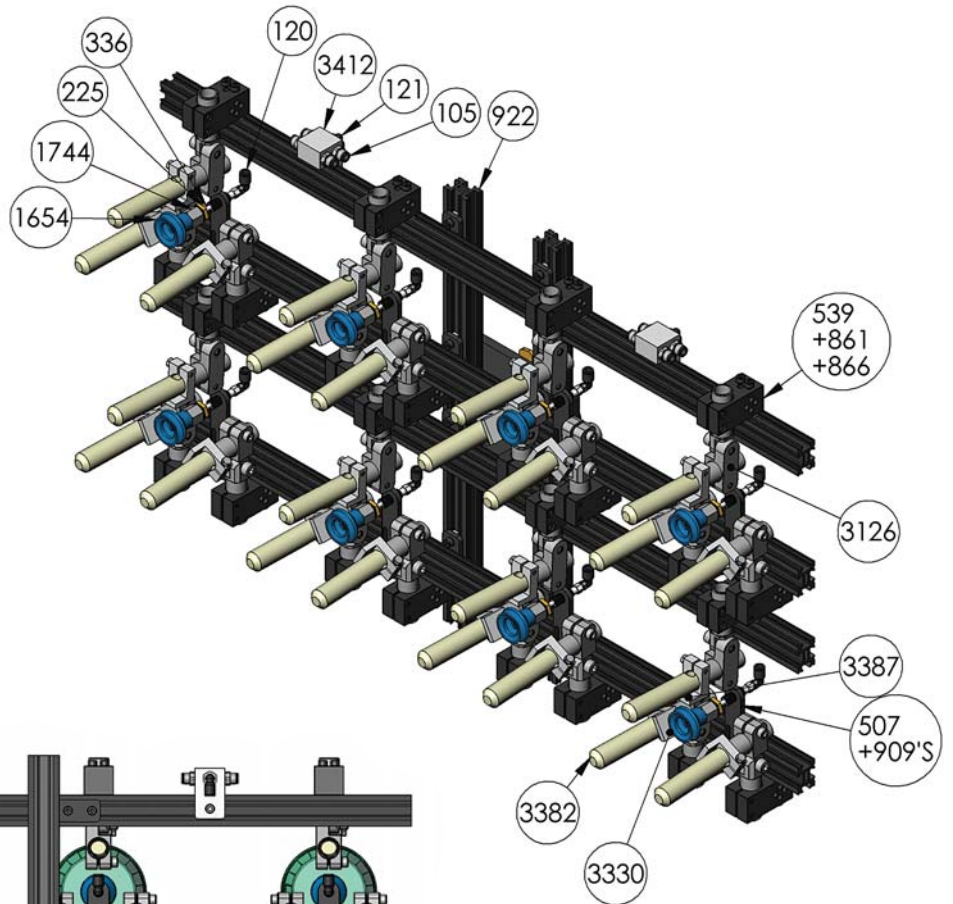
Nippers mounted on linear slides



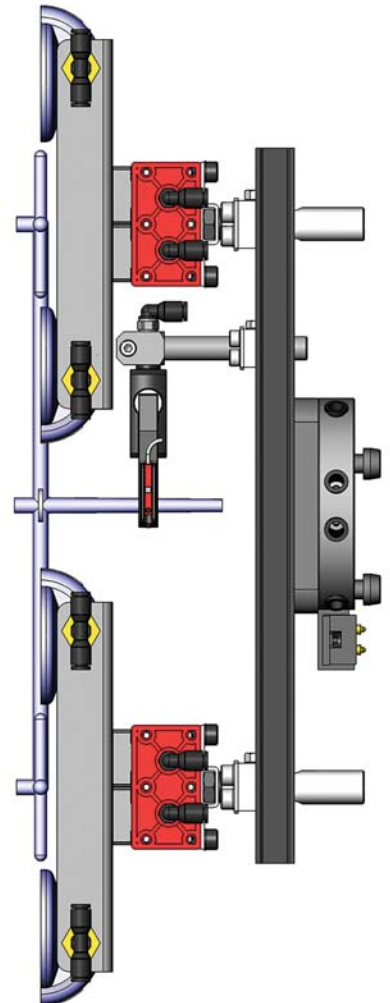
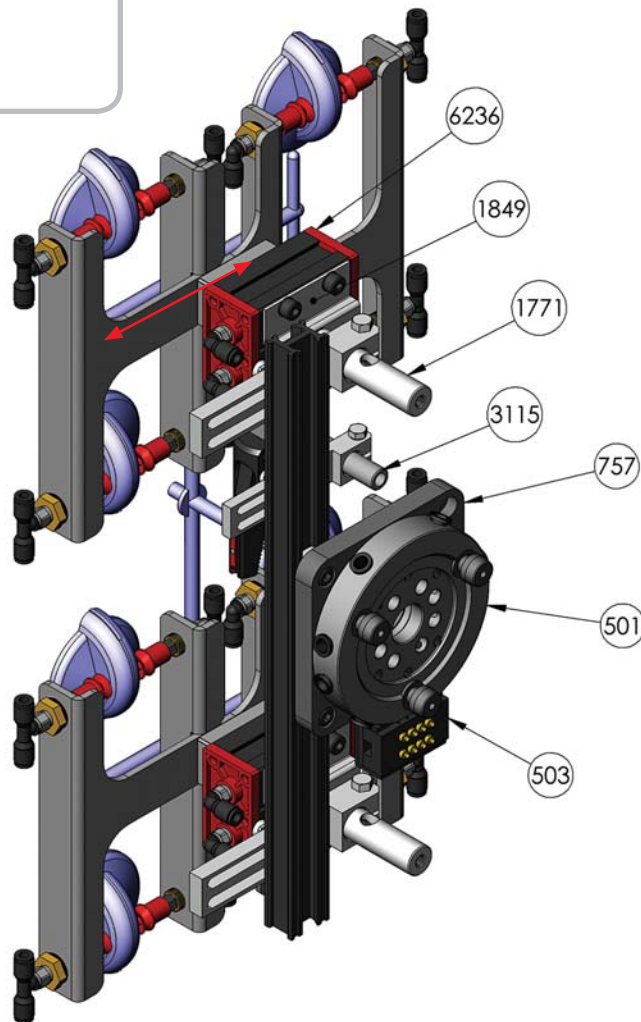
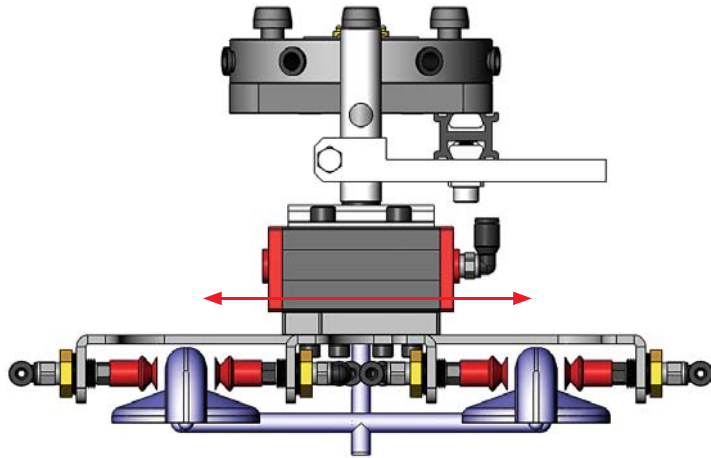
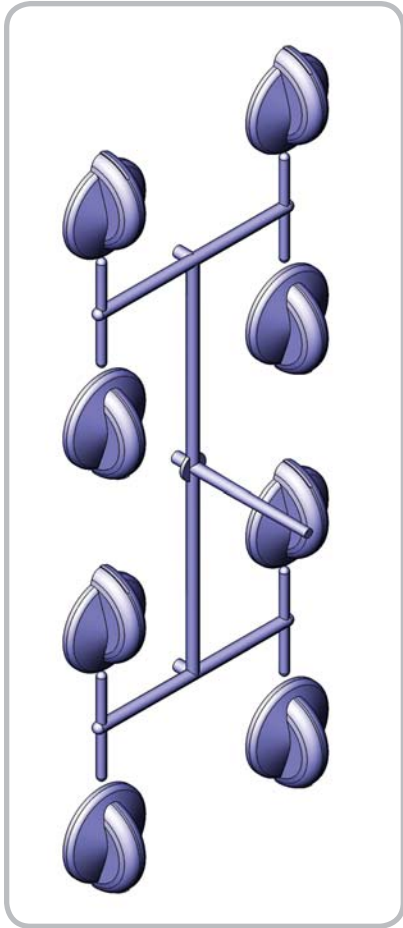
Guide pins to provide part stability



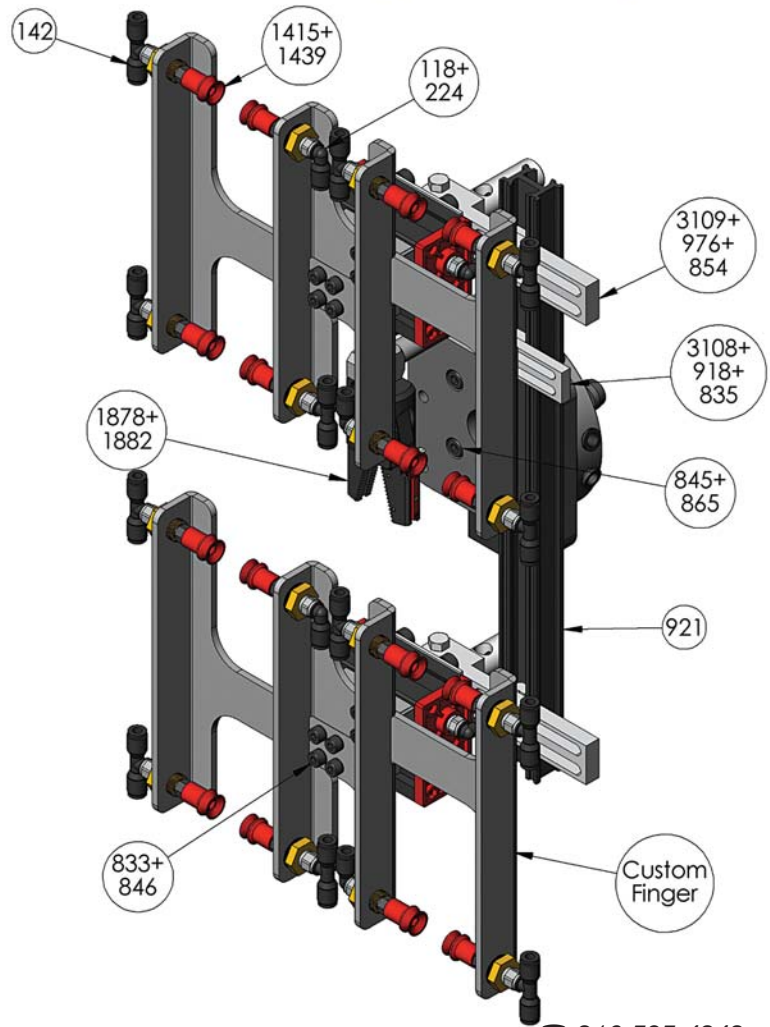
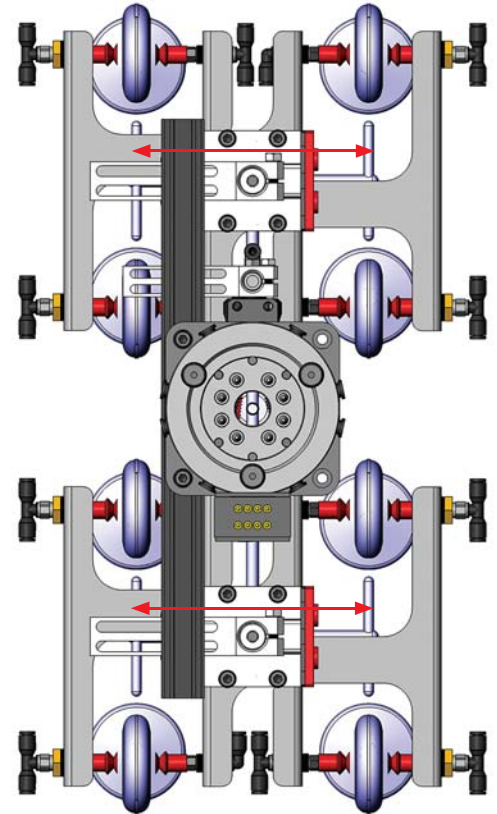
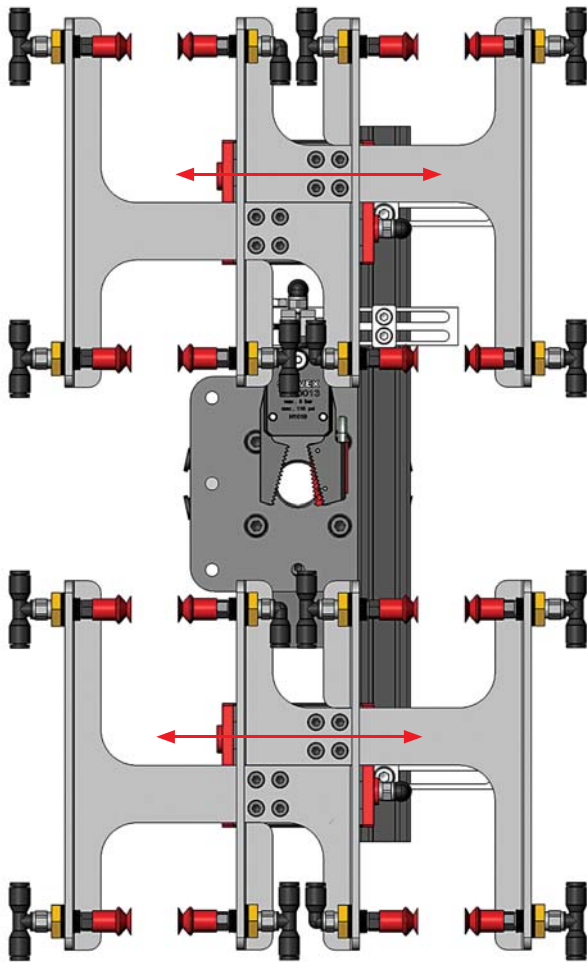
Guide pins to provide part stability



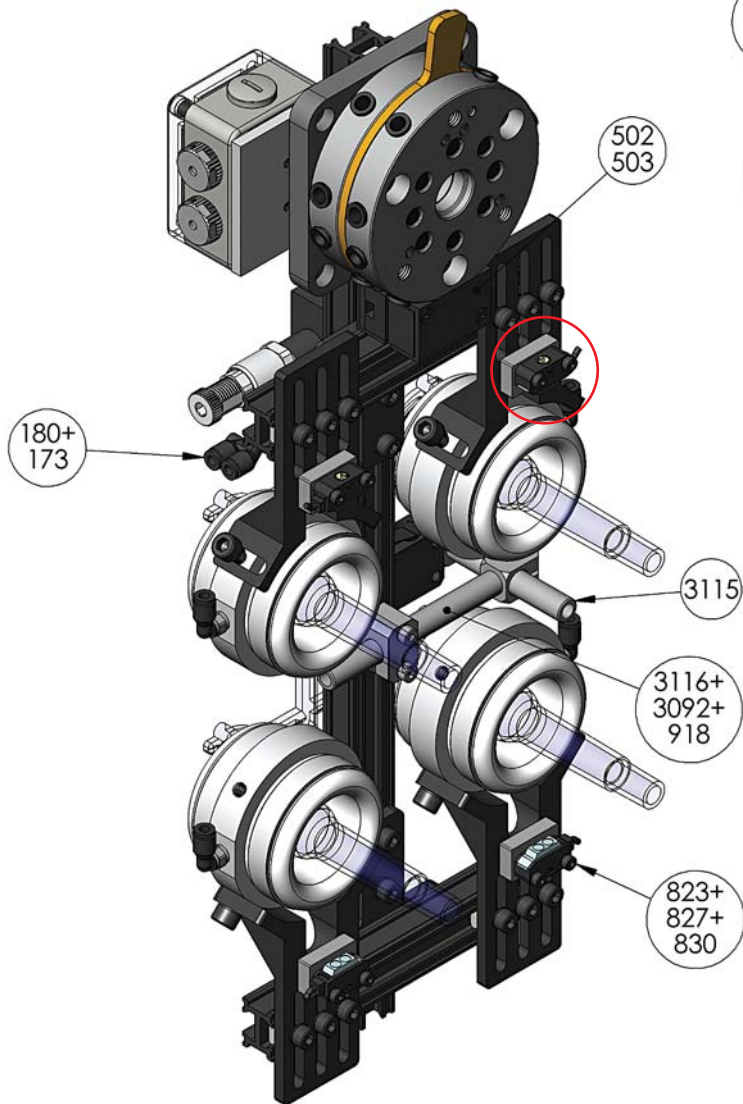
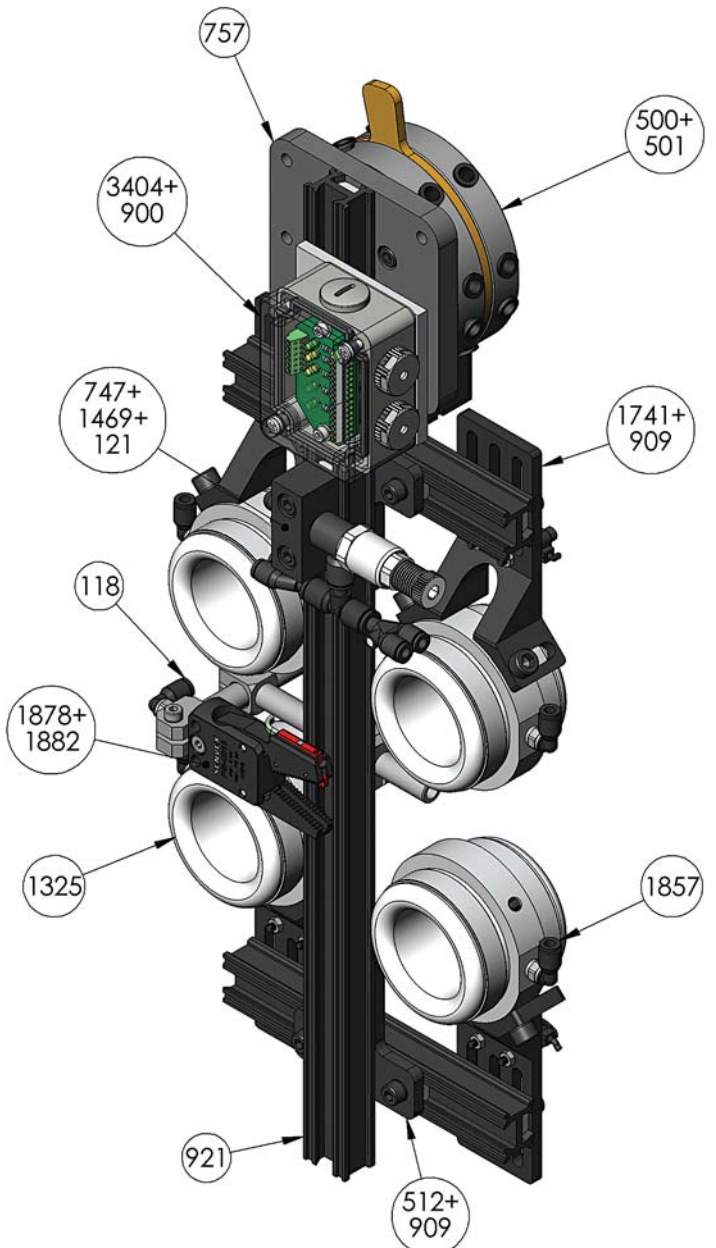
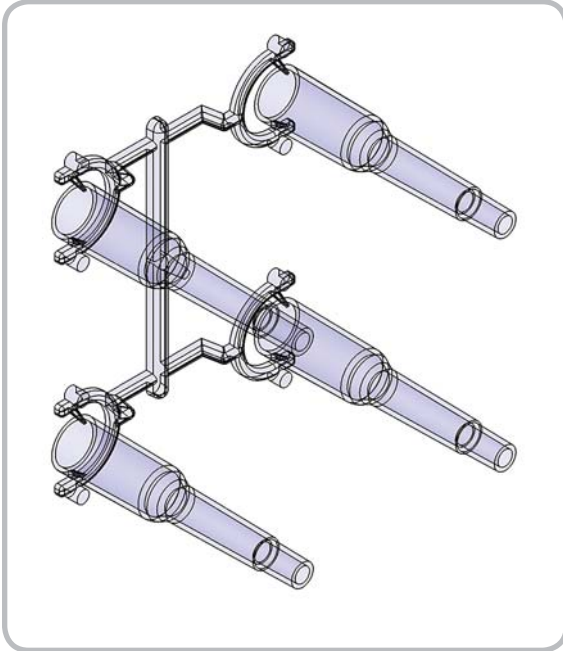
Vacuum cups mounted on grippers



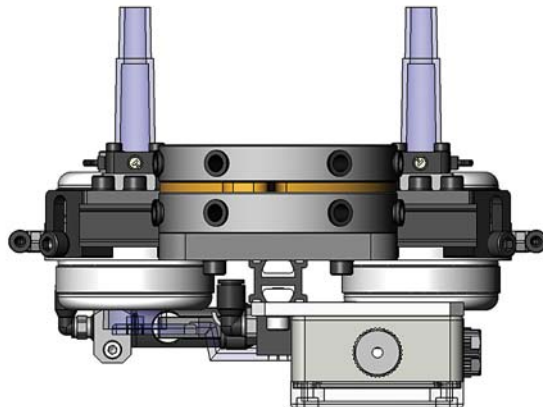
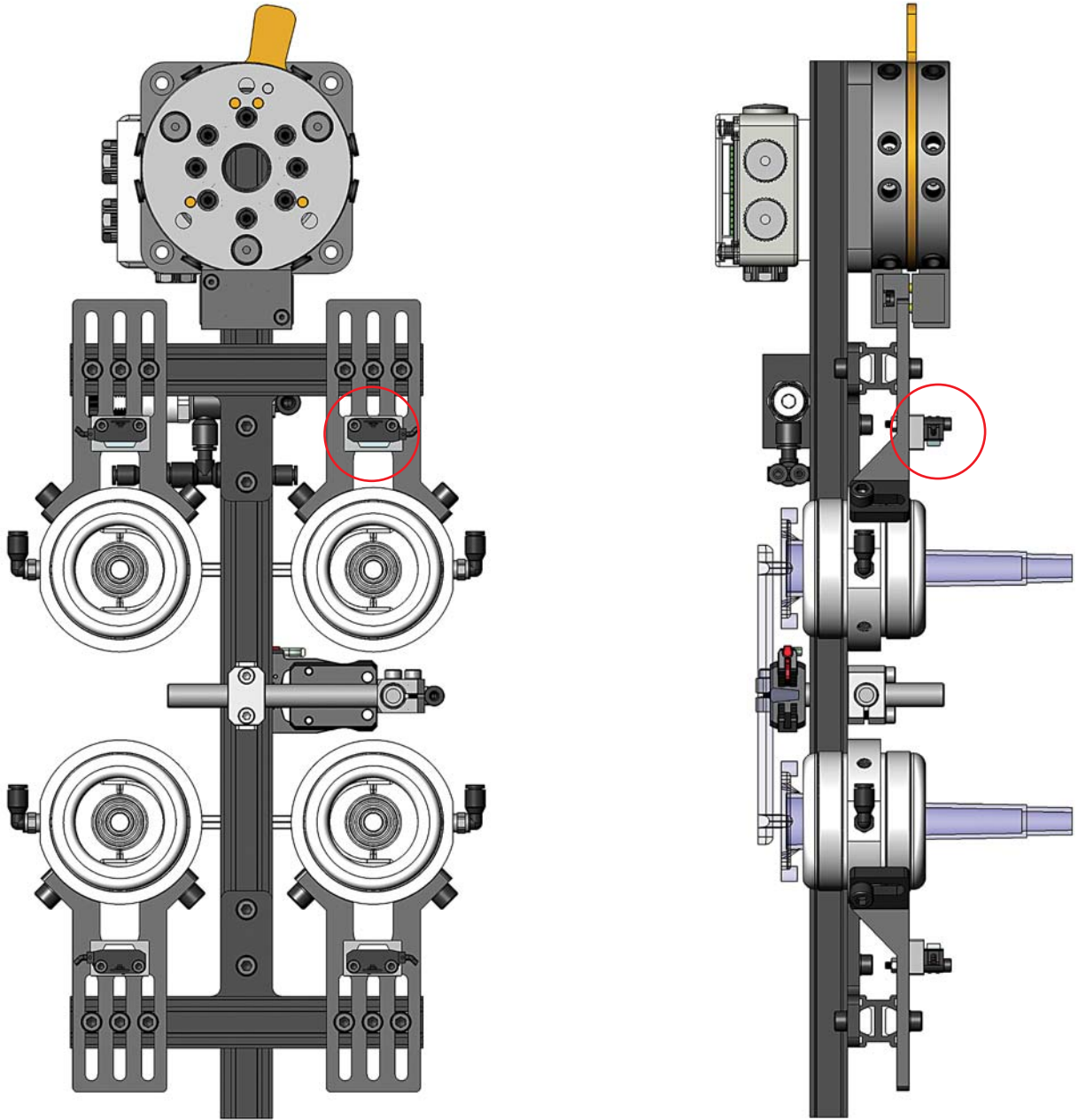
Vacuum cups mounted on grippers



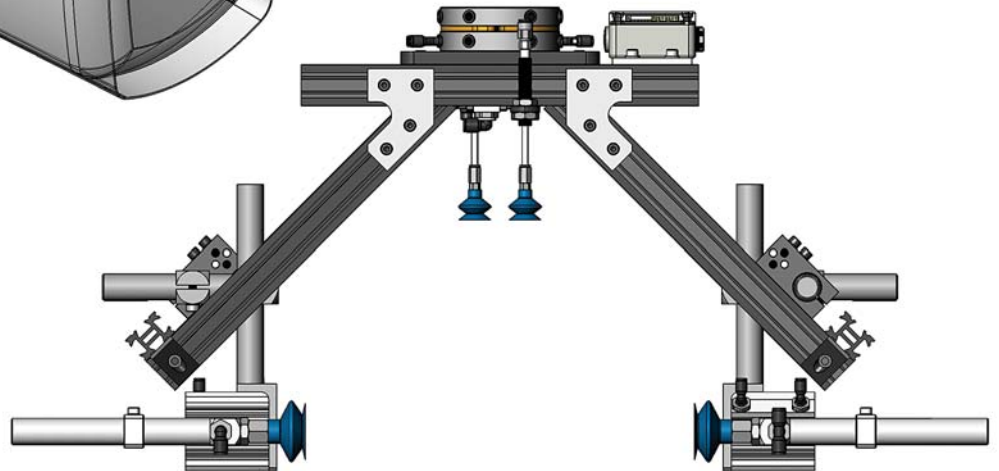
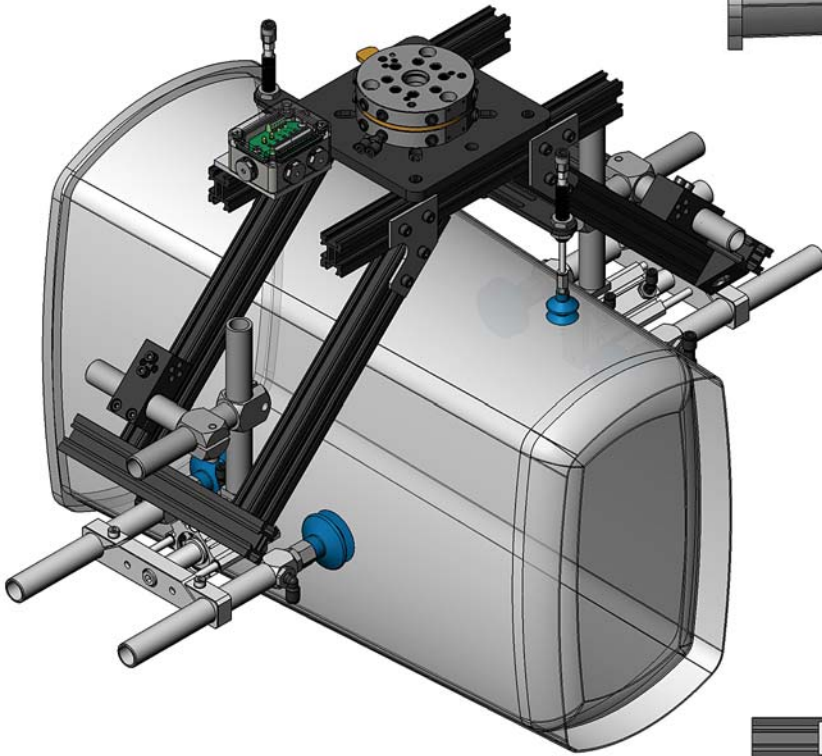
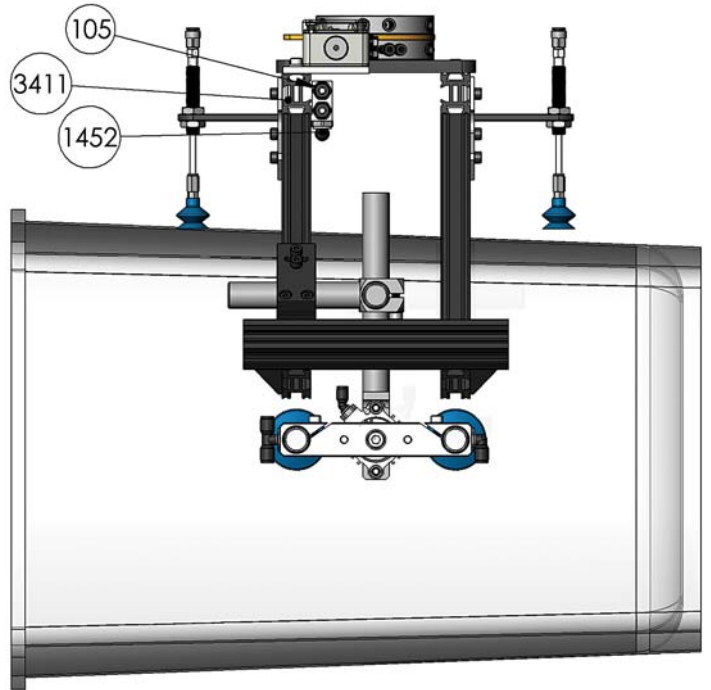
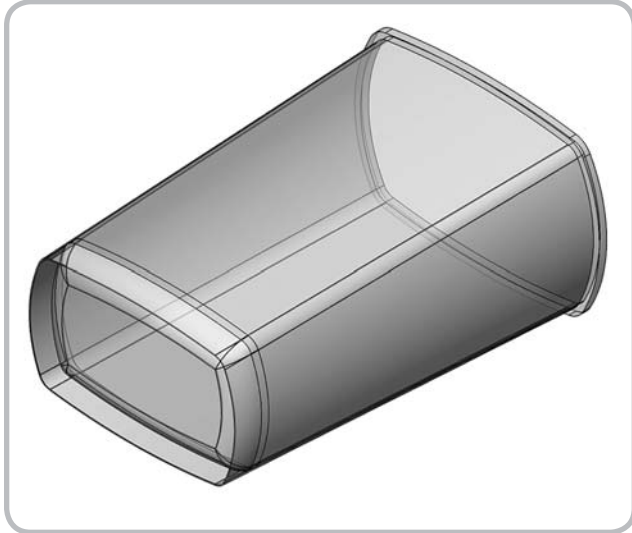
O.D. Air Hands with photoeyes used for part confirmation



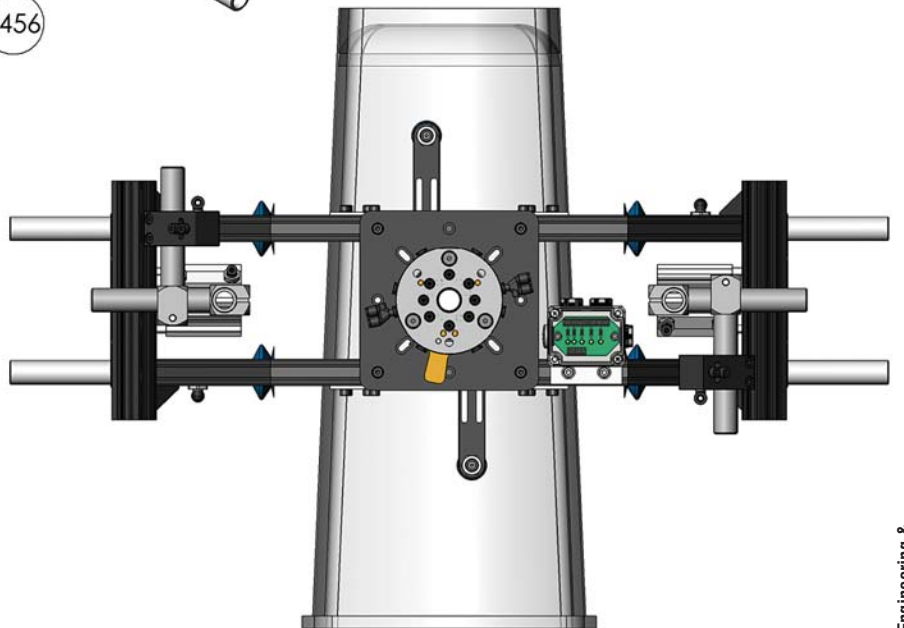
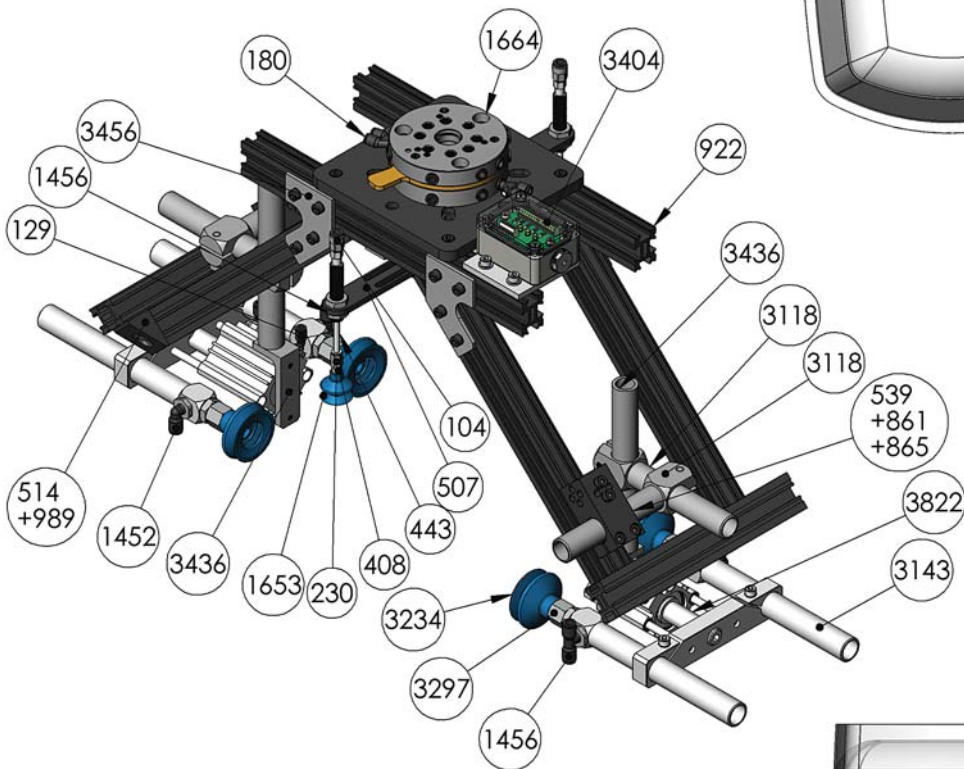
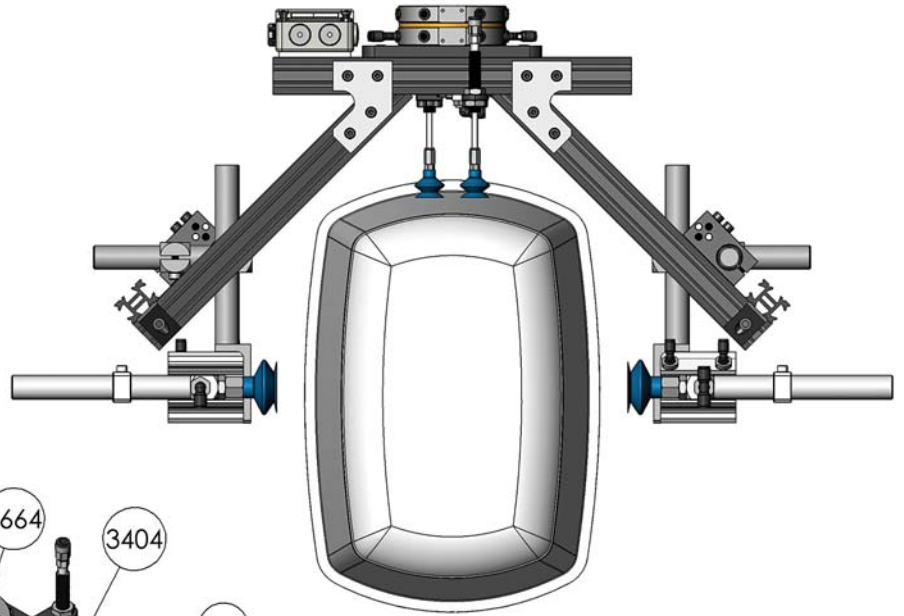
O.D. Air Hands with photoeyes used for part confirmation



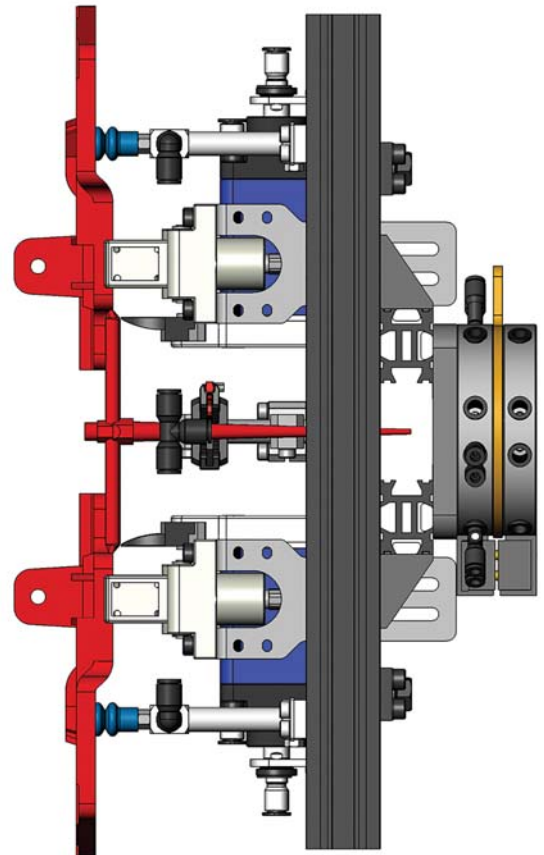
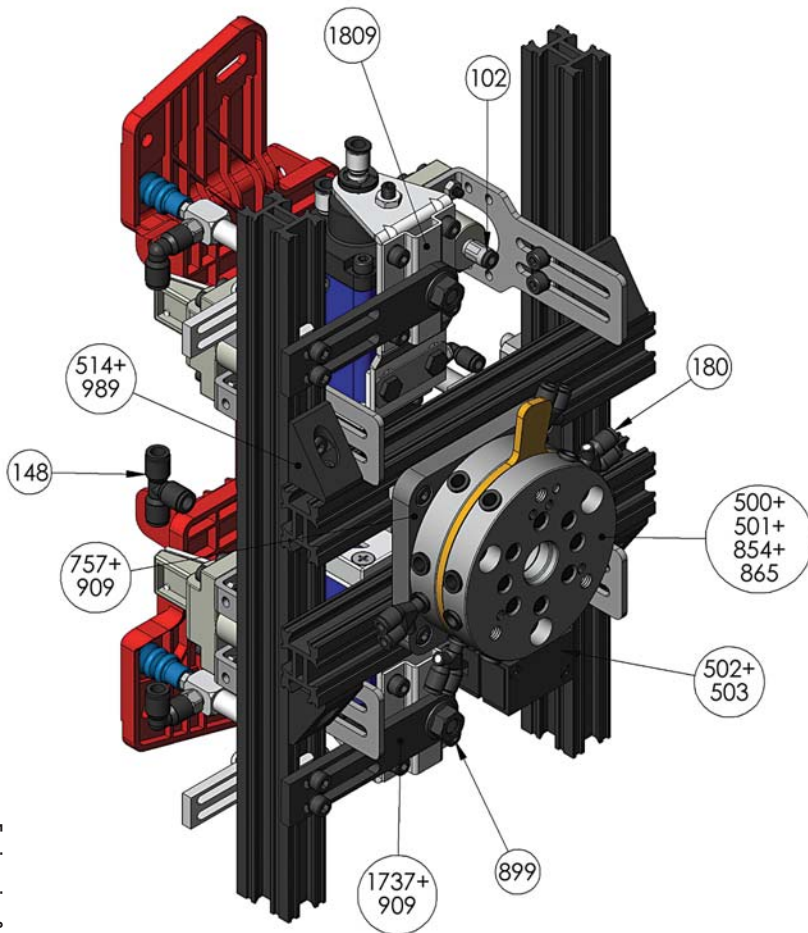
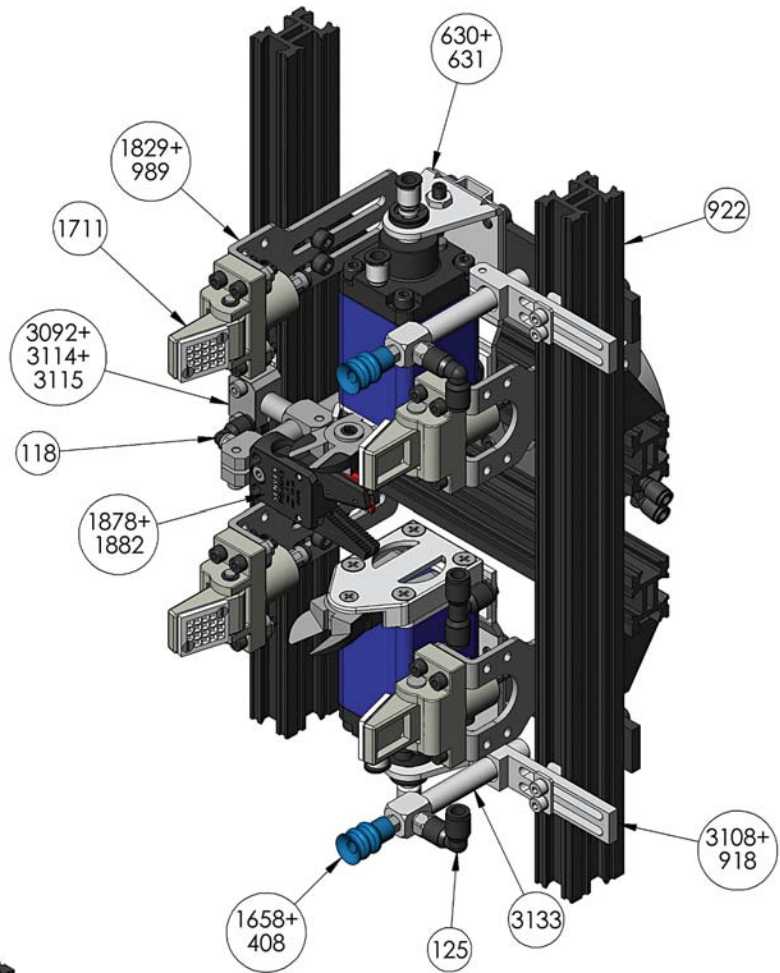
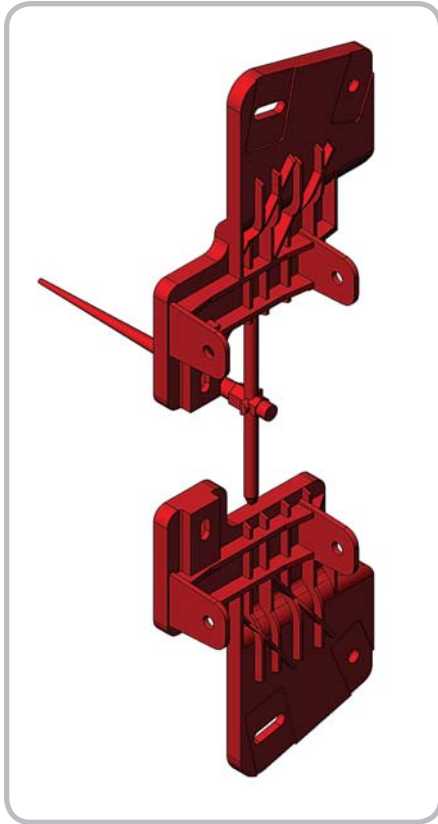
Adjustable width, deep cored part gripping using special cylinders



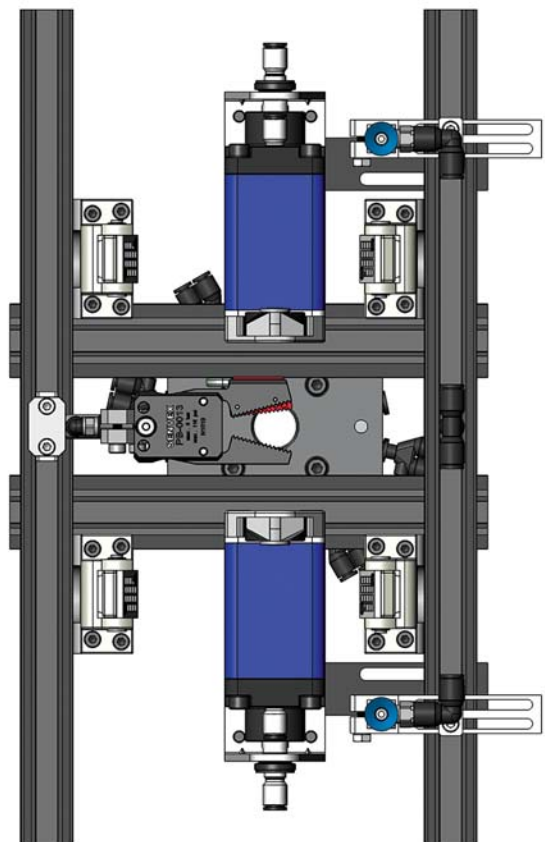
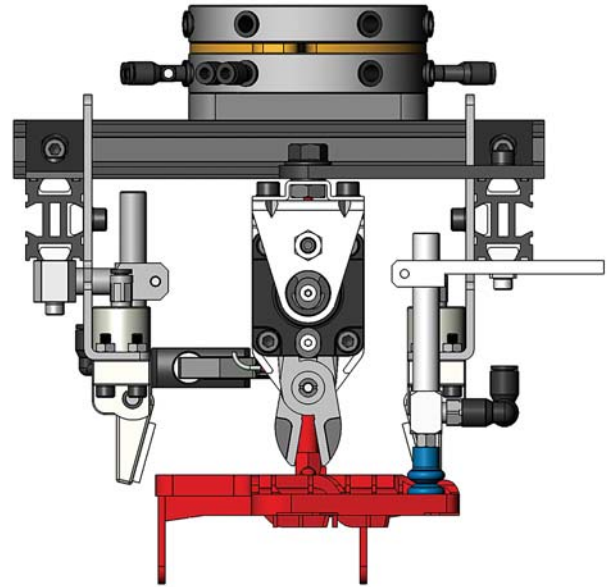
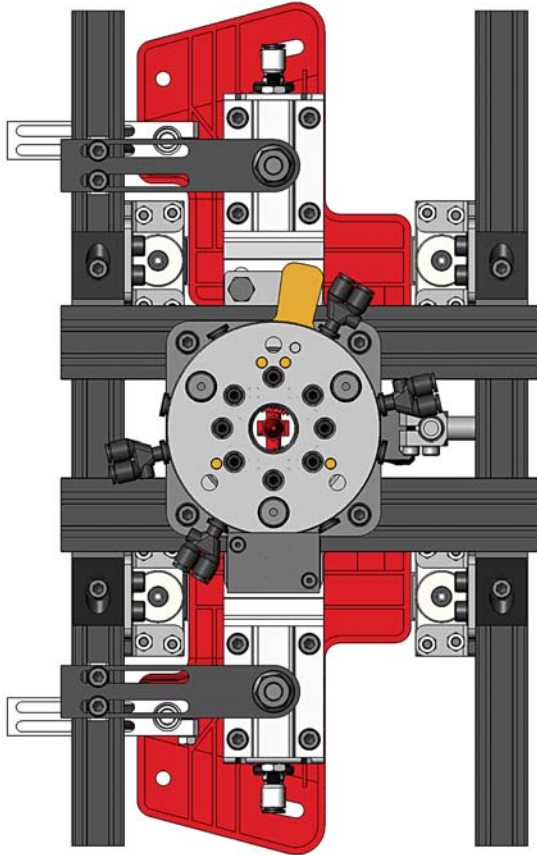
Adjustable width, deep cored part gripping using special cylinders



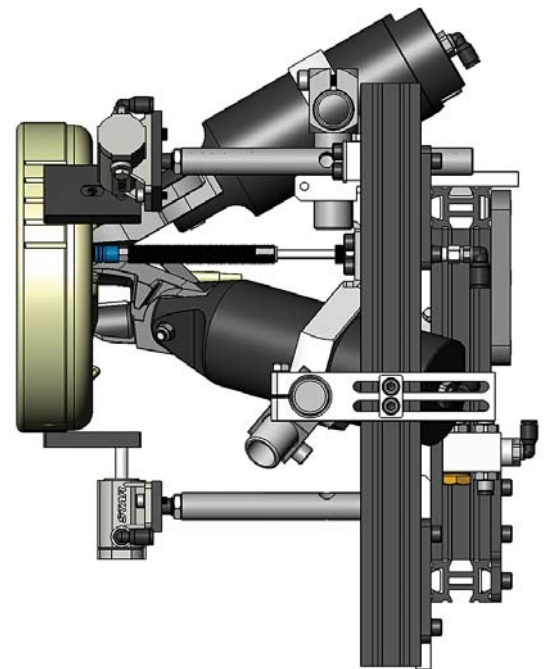
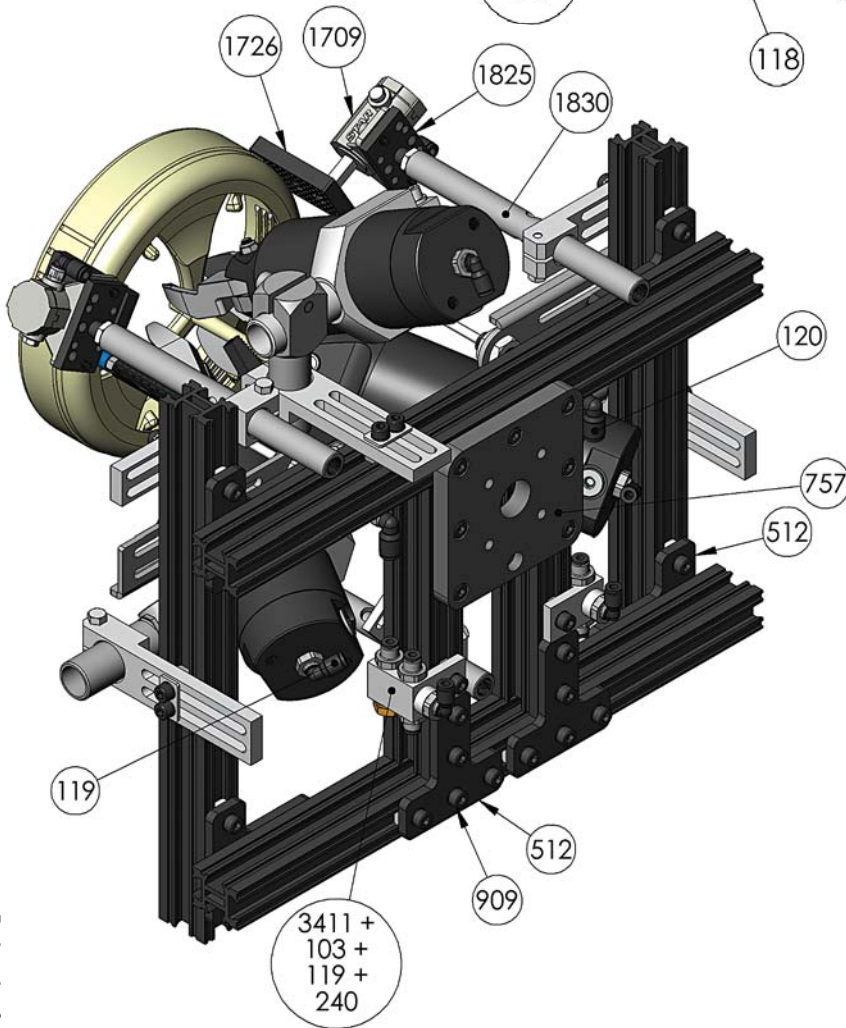
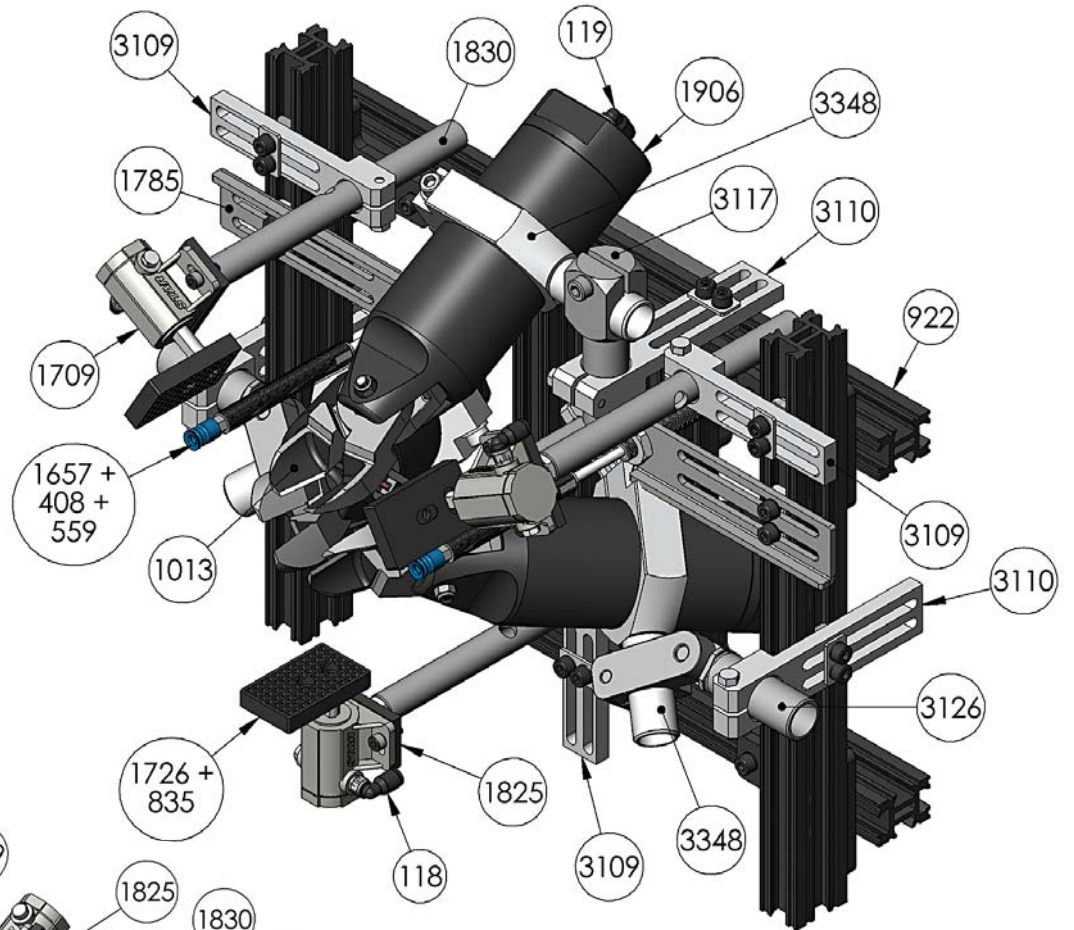
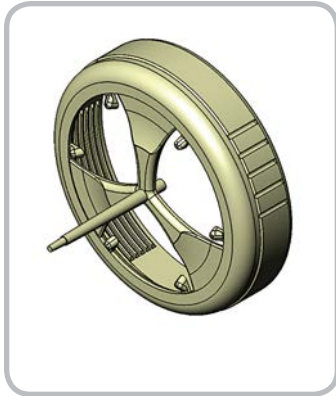
Lightweight finger grippers hold the part while degating



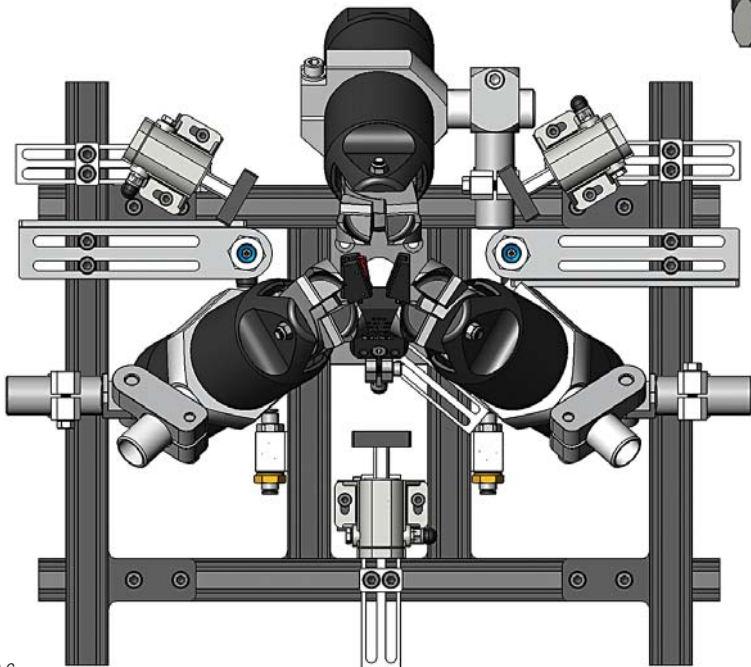
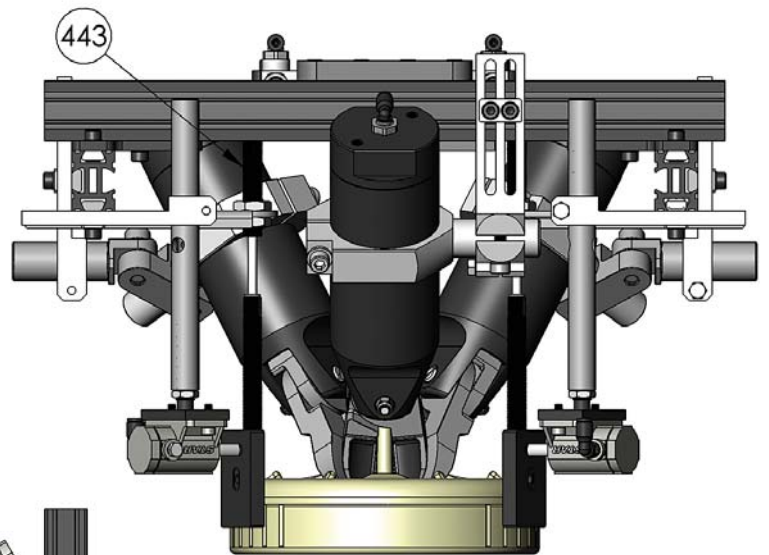
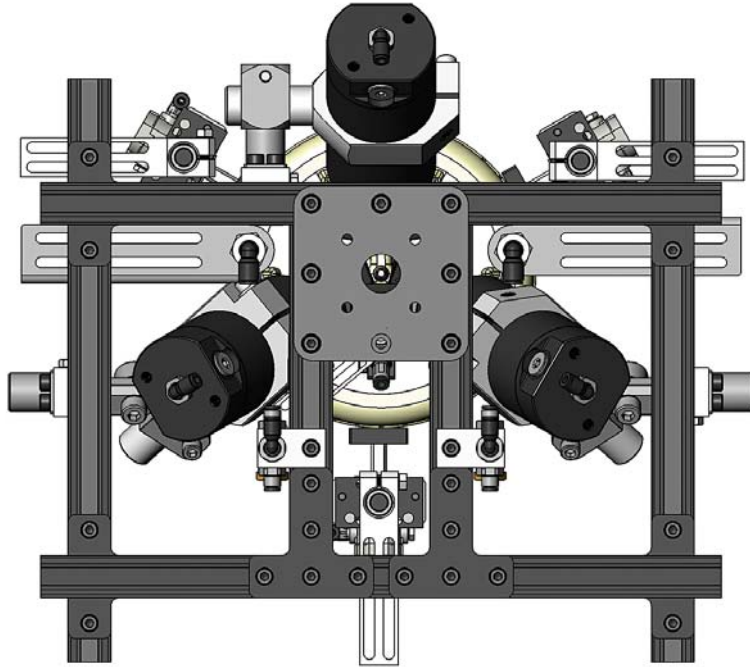
Lightweight finger grippers hold the part while degating



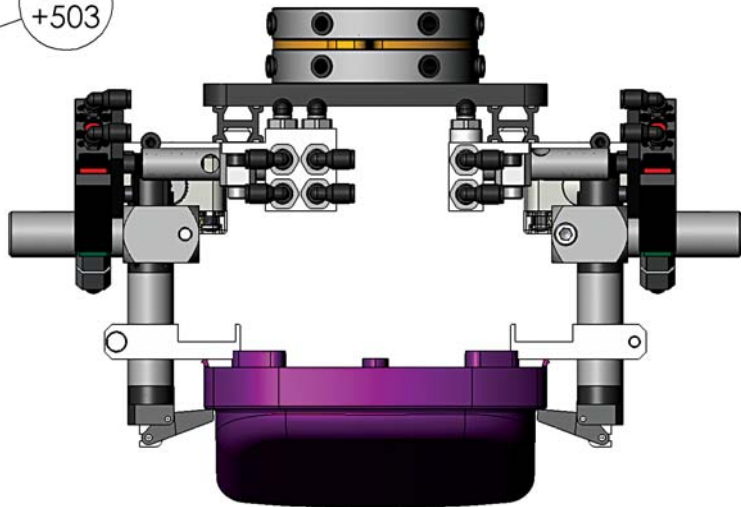
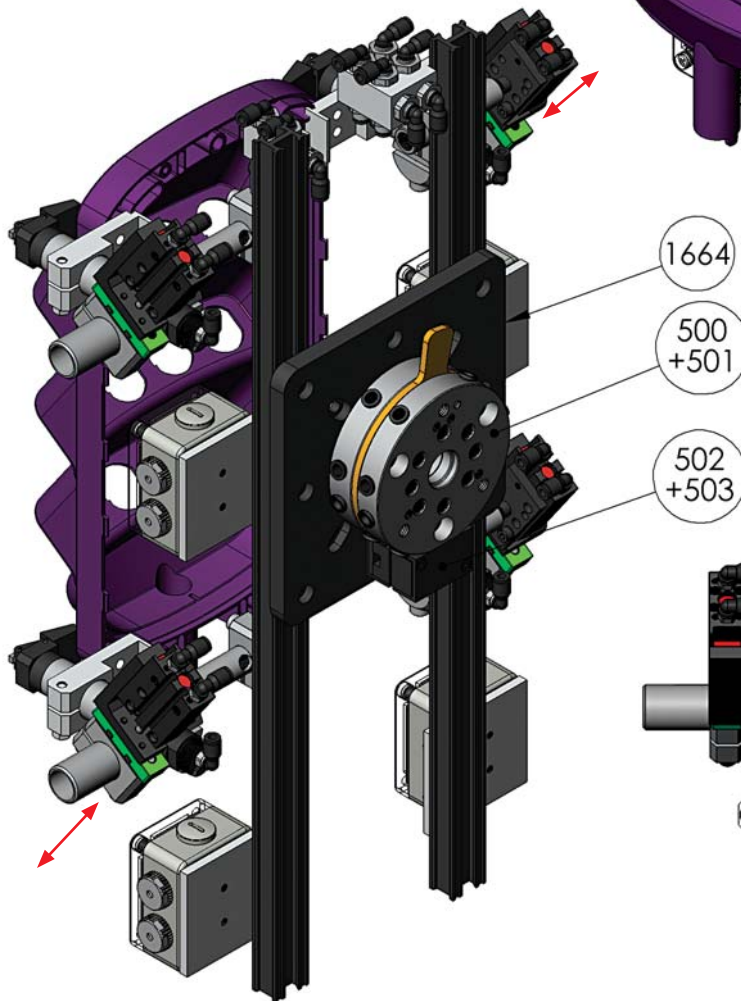
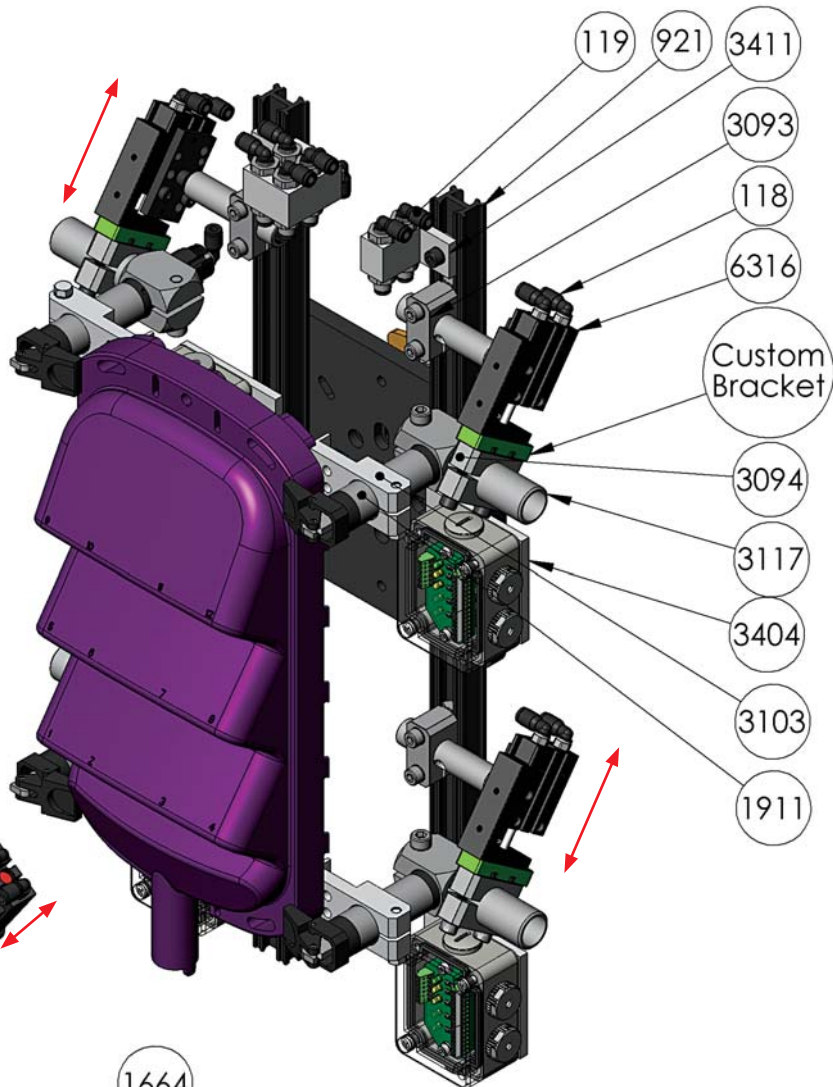
Degating with 3 nippers close together



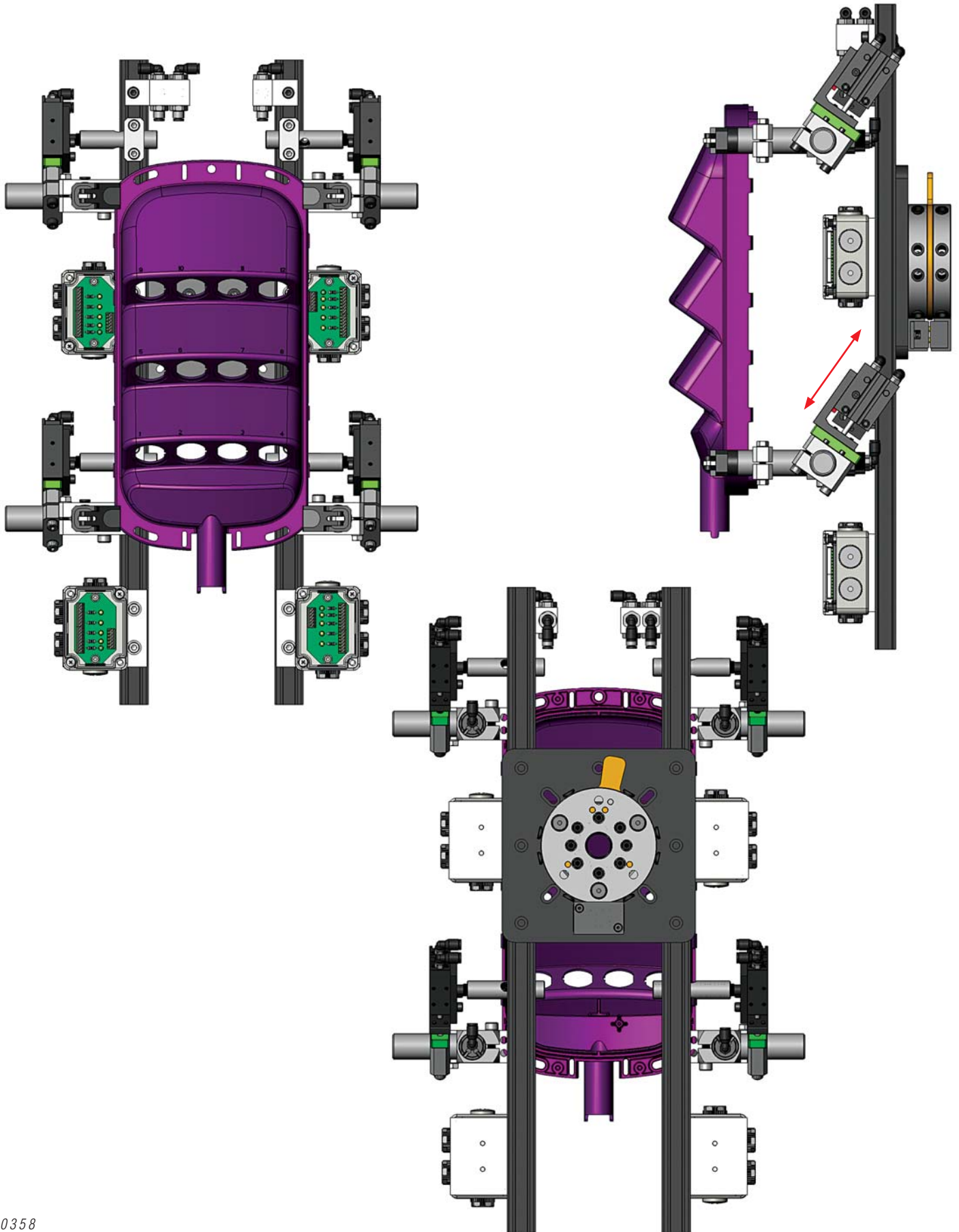
Degating with 3 nippers close together



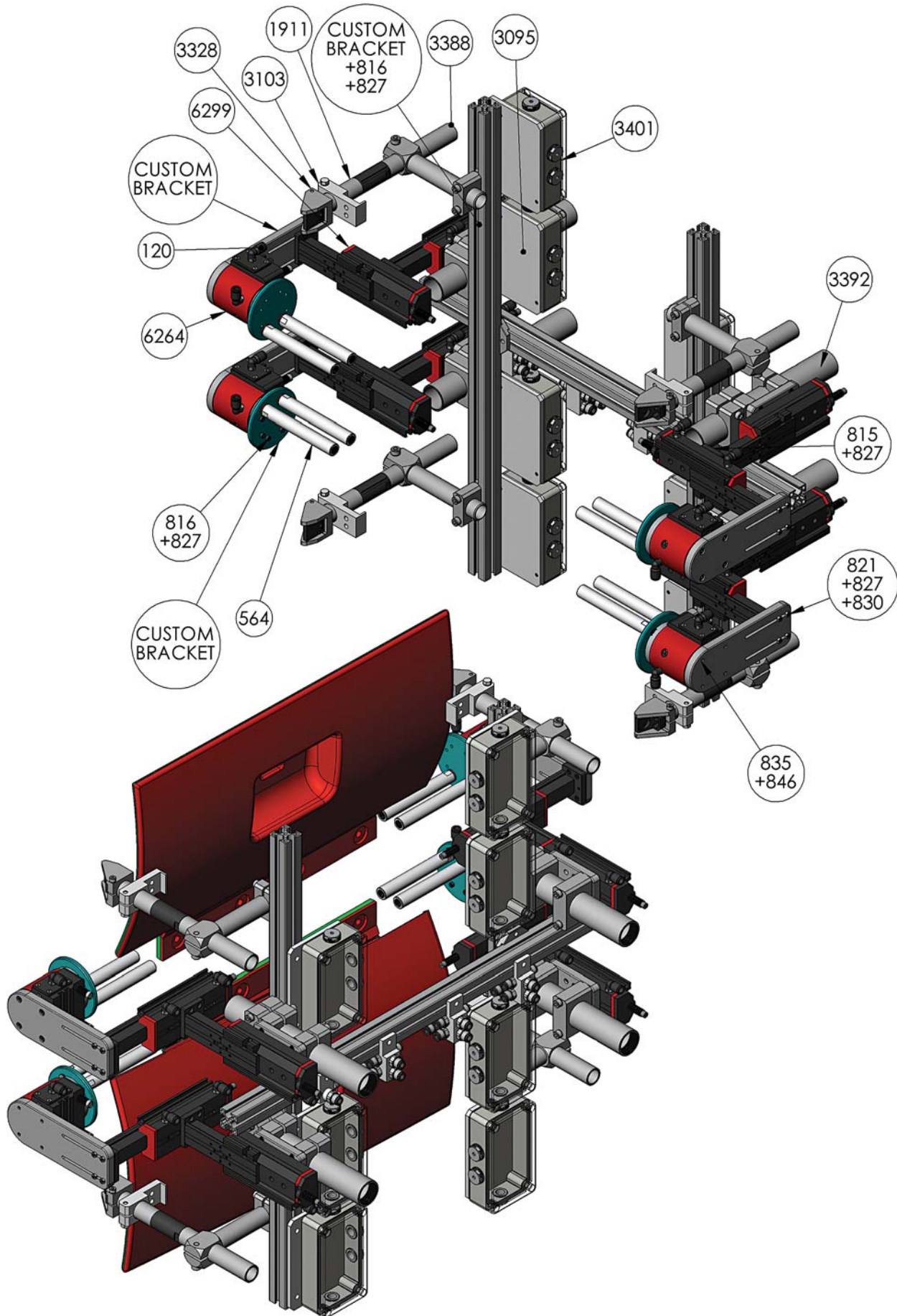
Finger grippers on linear slides to move part over in-mold lifters



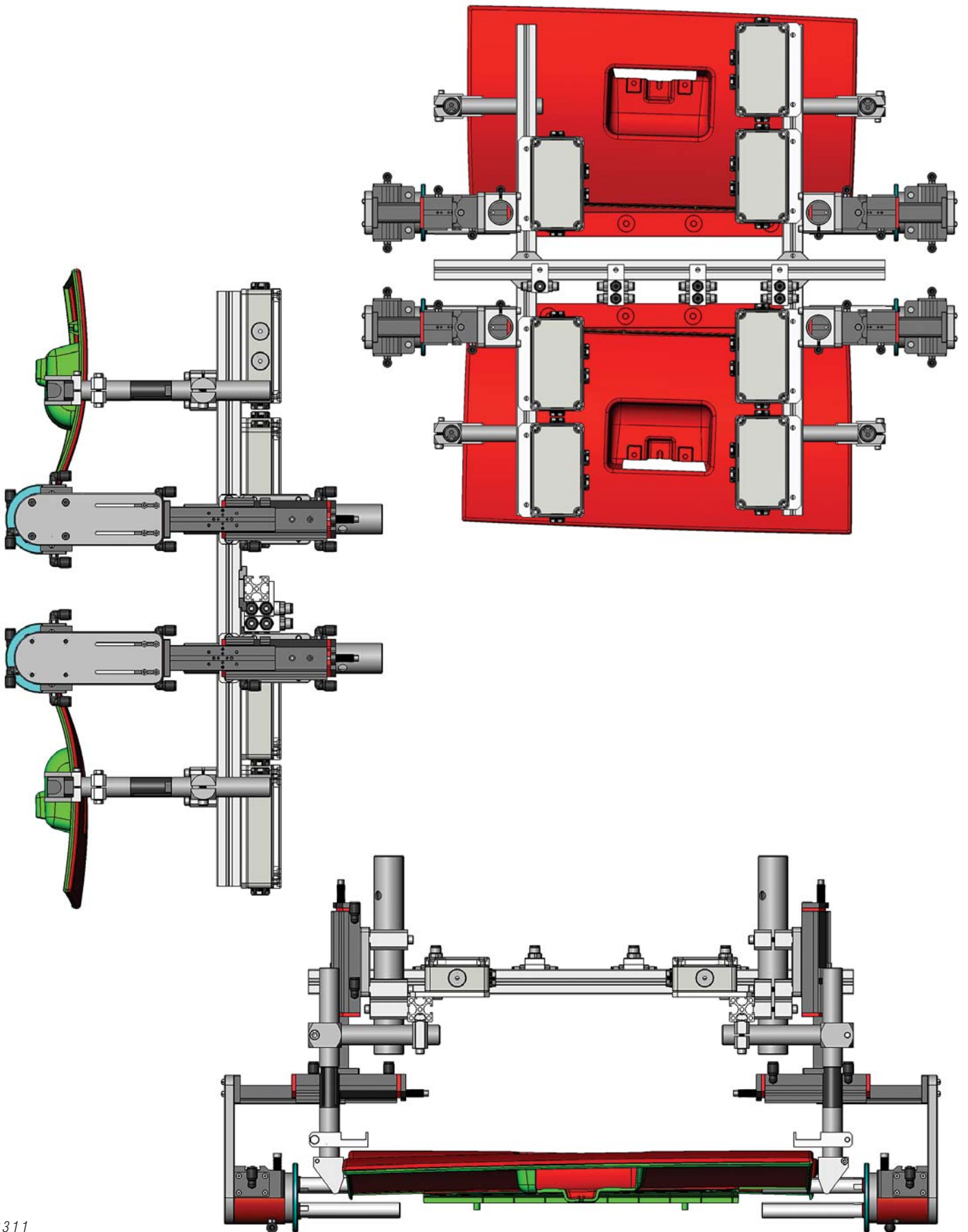
Finger grippers on linear slides to move part over in-mold lifters



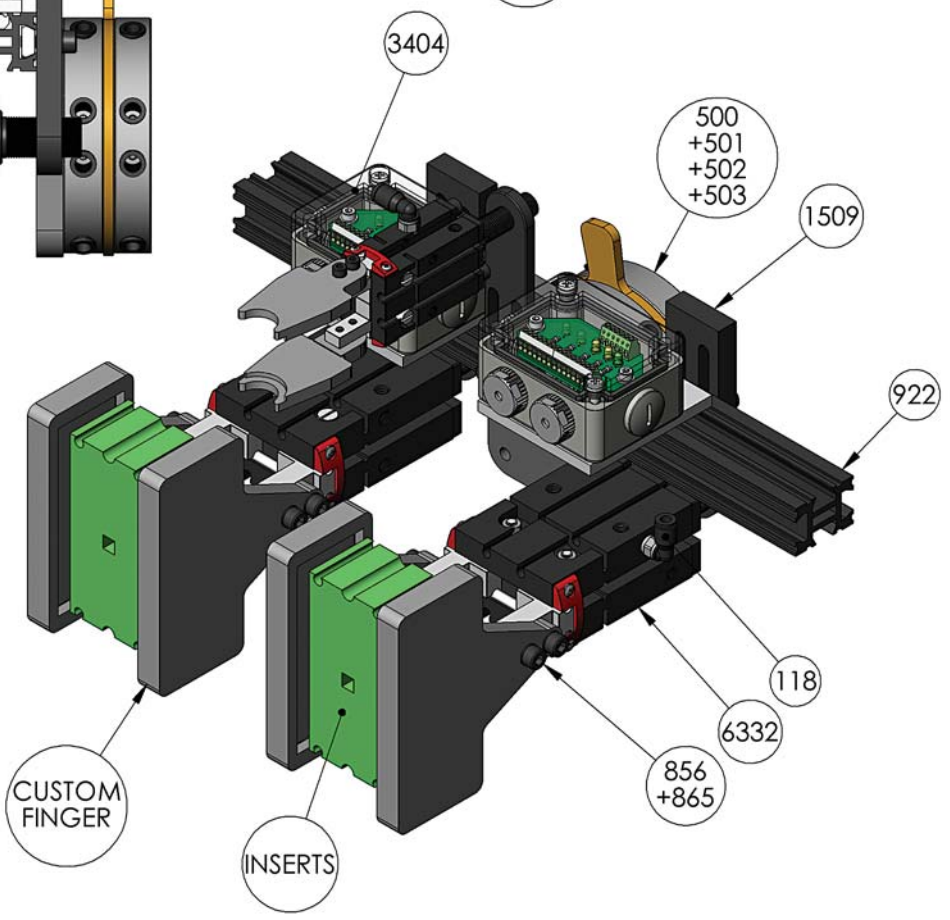
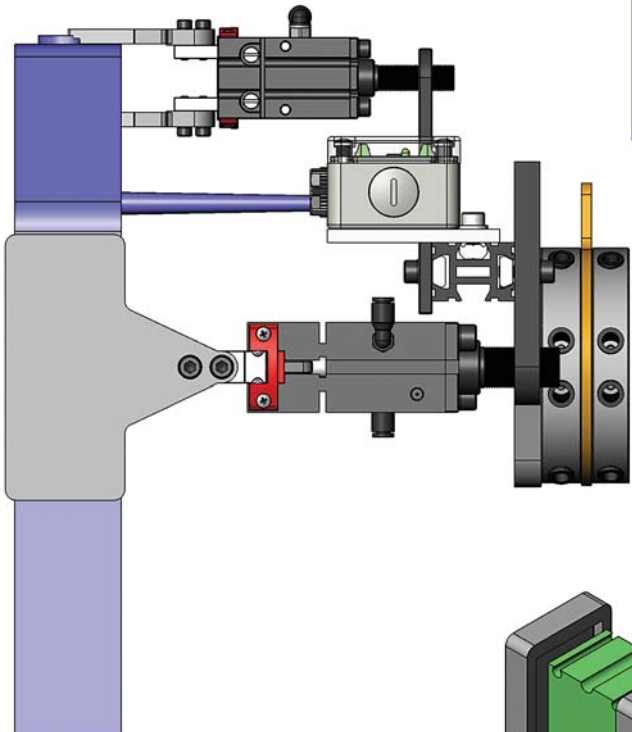
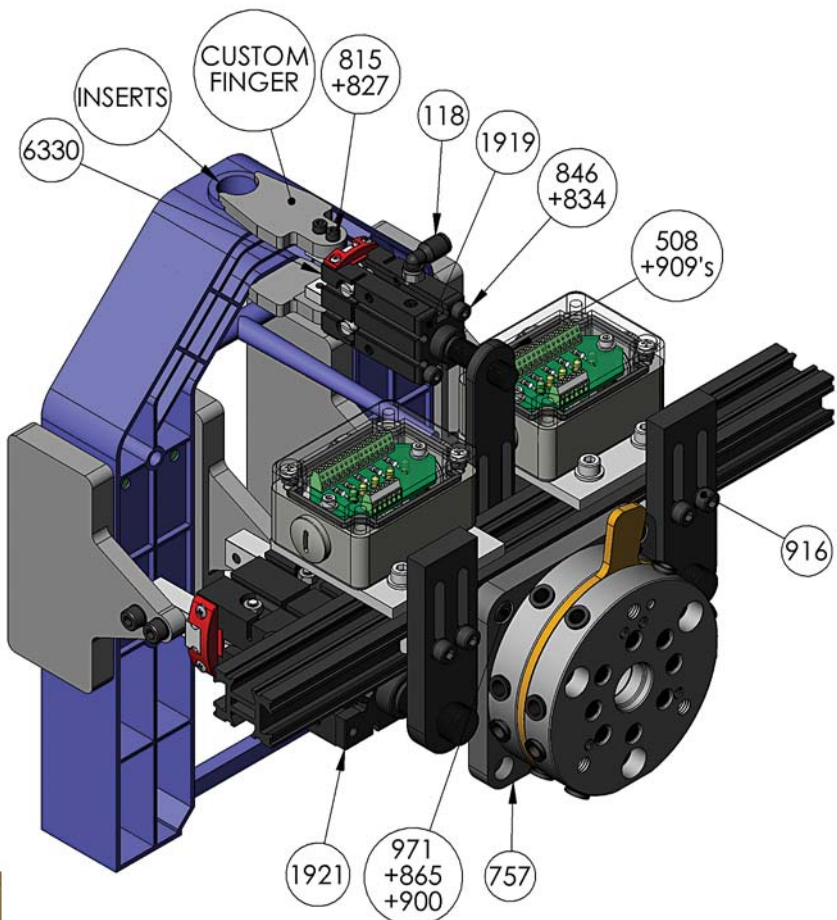
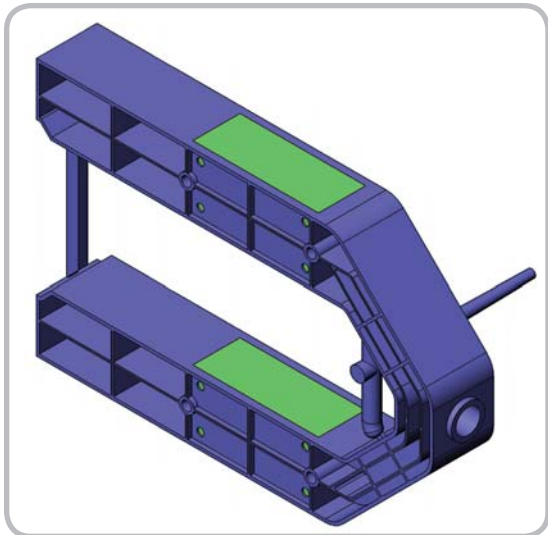
2 rotary actuators used together to rotate live hinge +90° & -90°



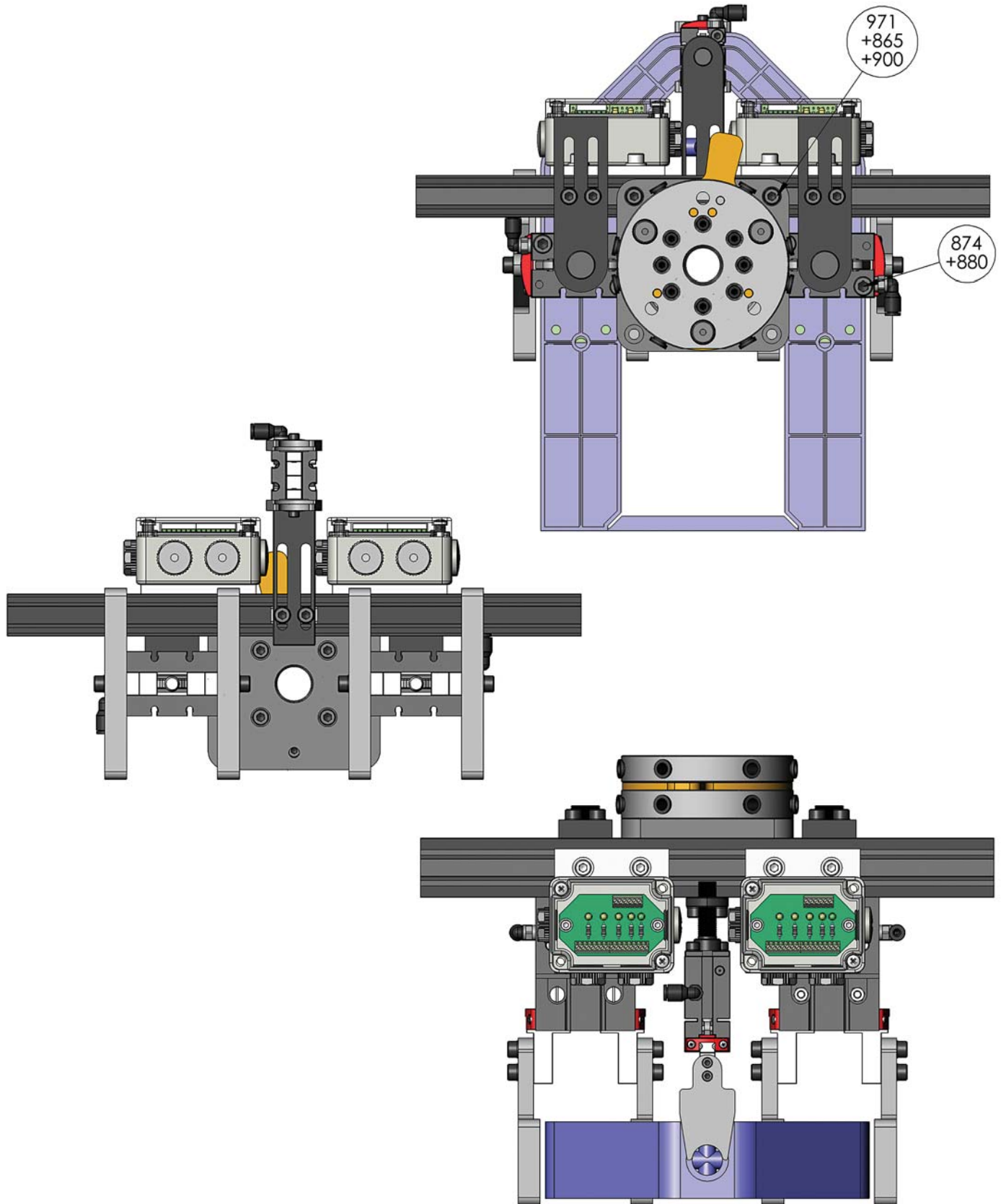
2 rotary actuators used together to rotate live hinge +90° & -90°



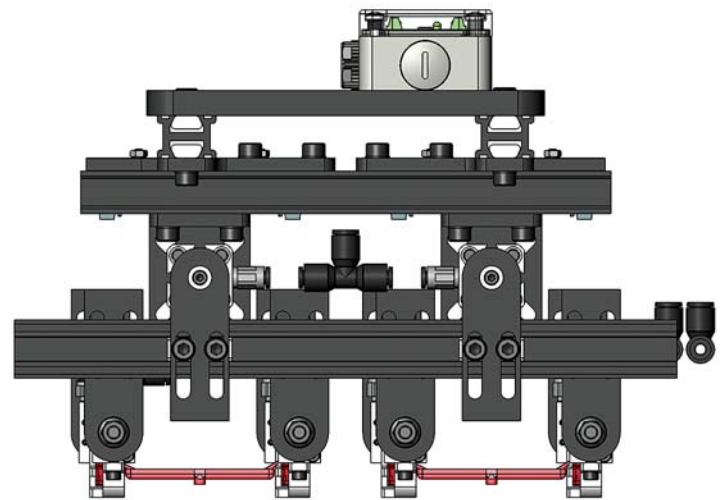
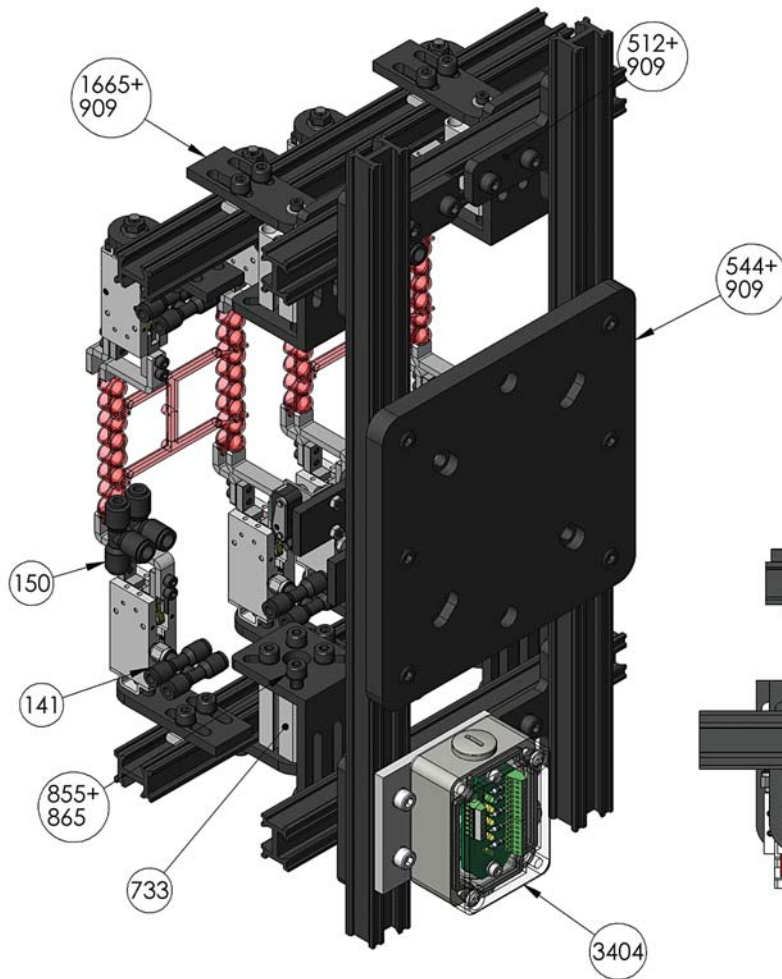
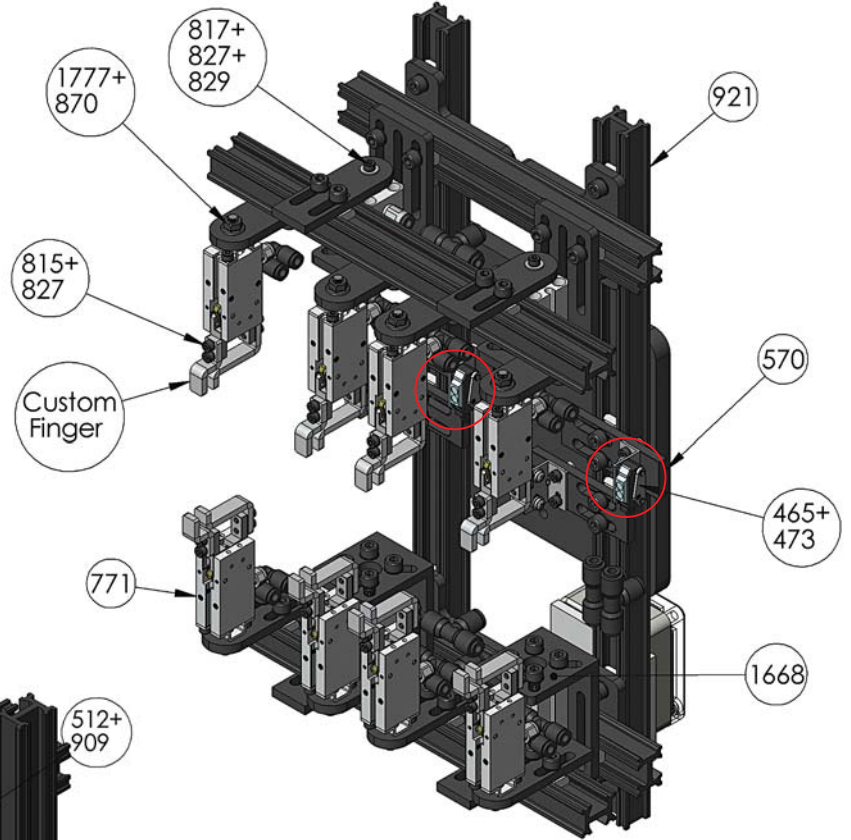
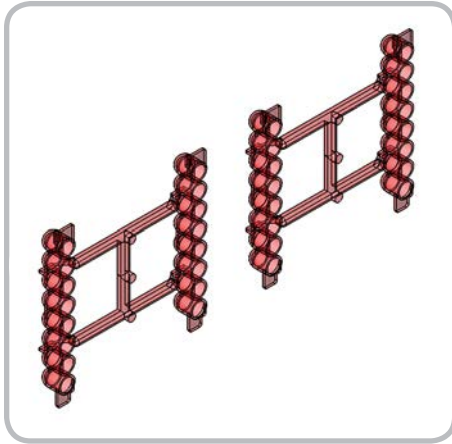
Insert loading



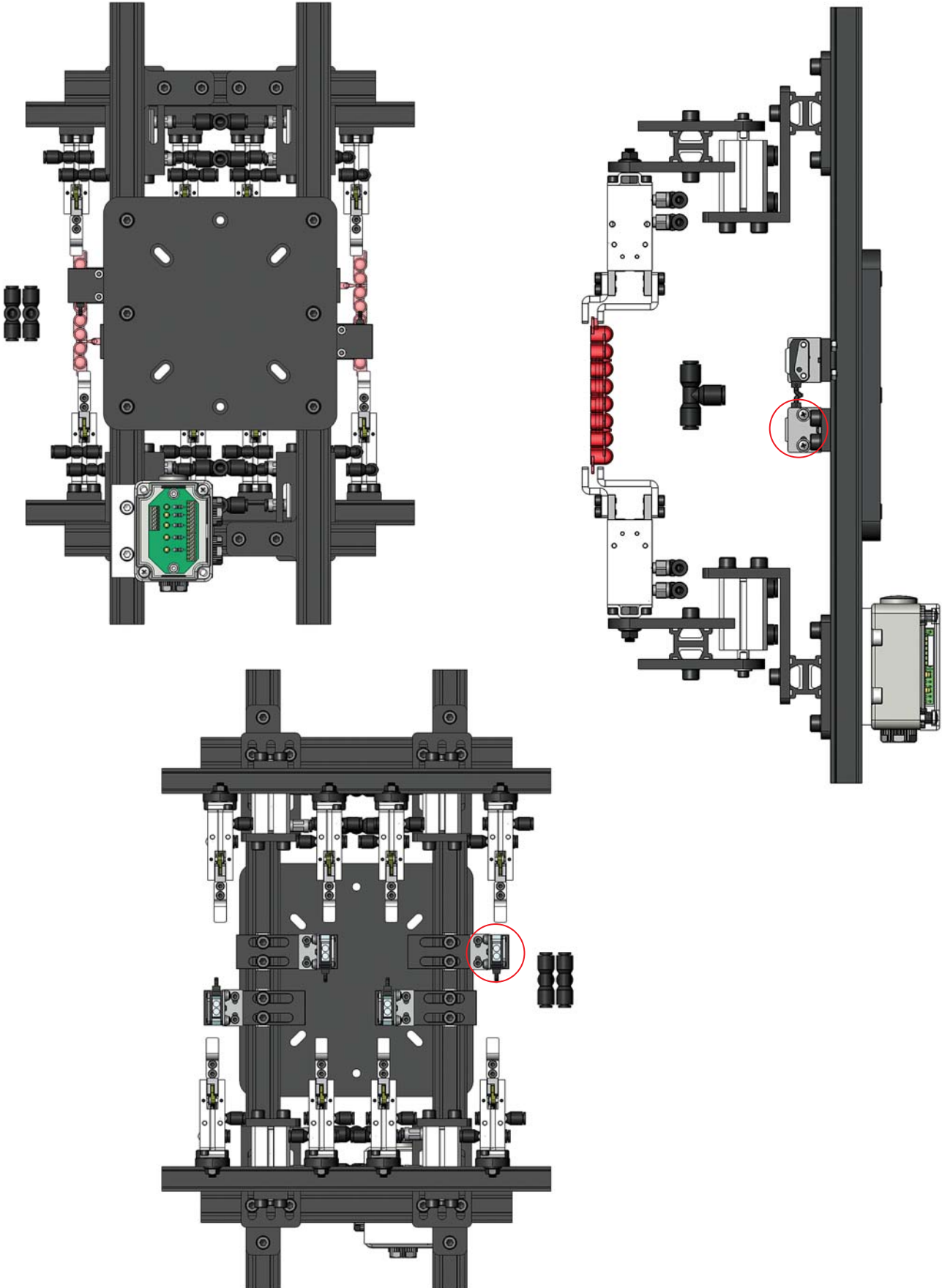
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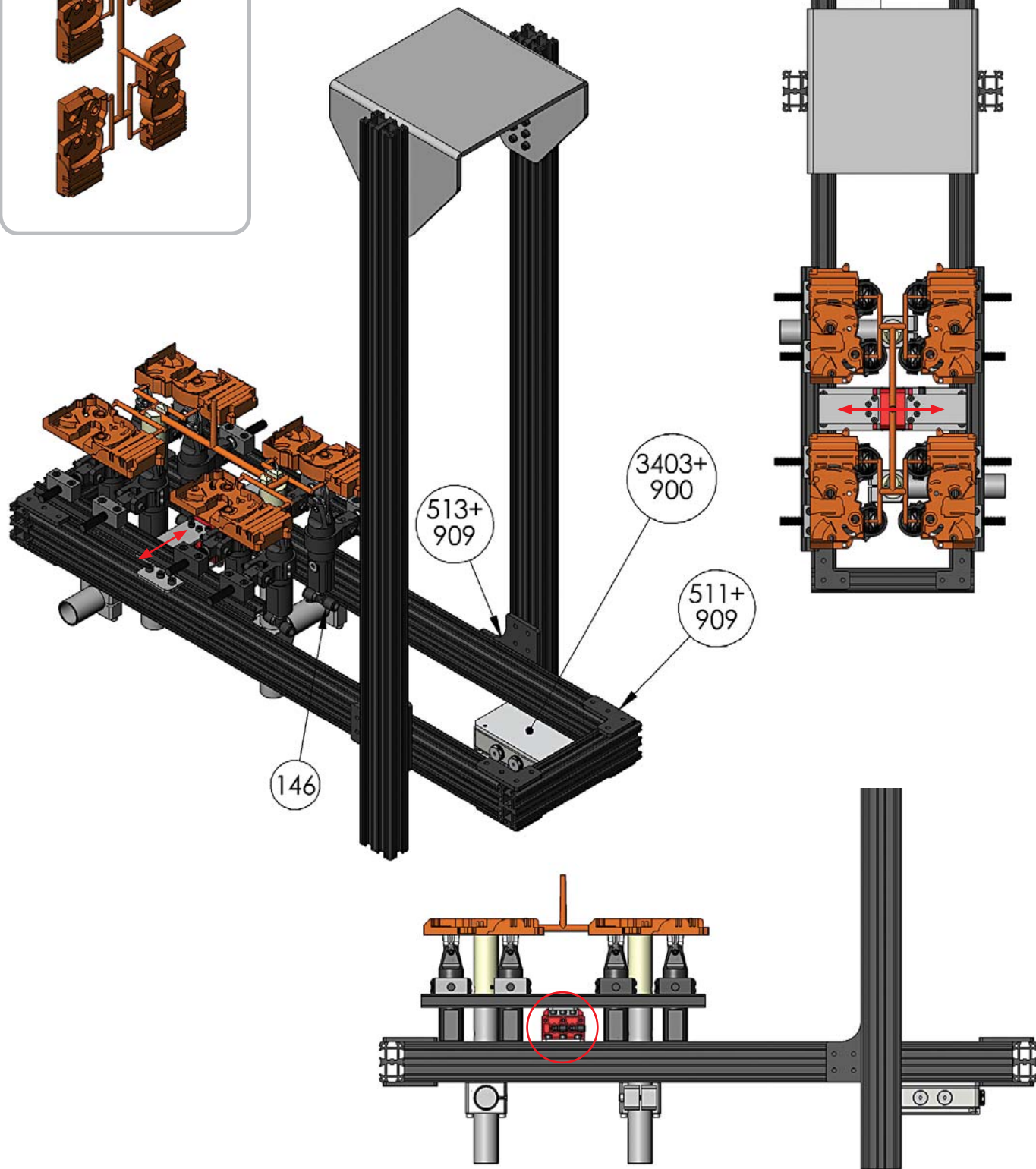
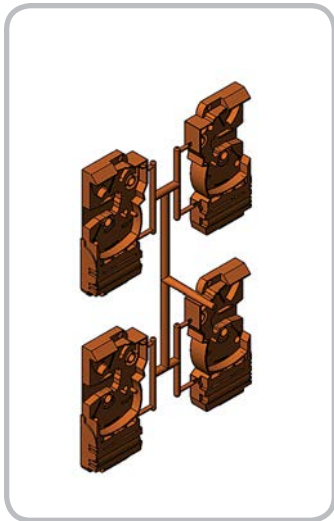
Part verification using photoeyes to sense translucent parts



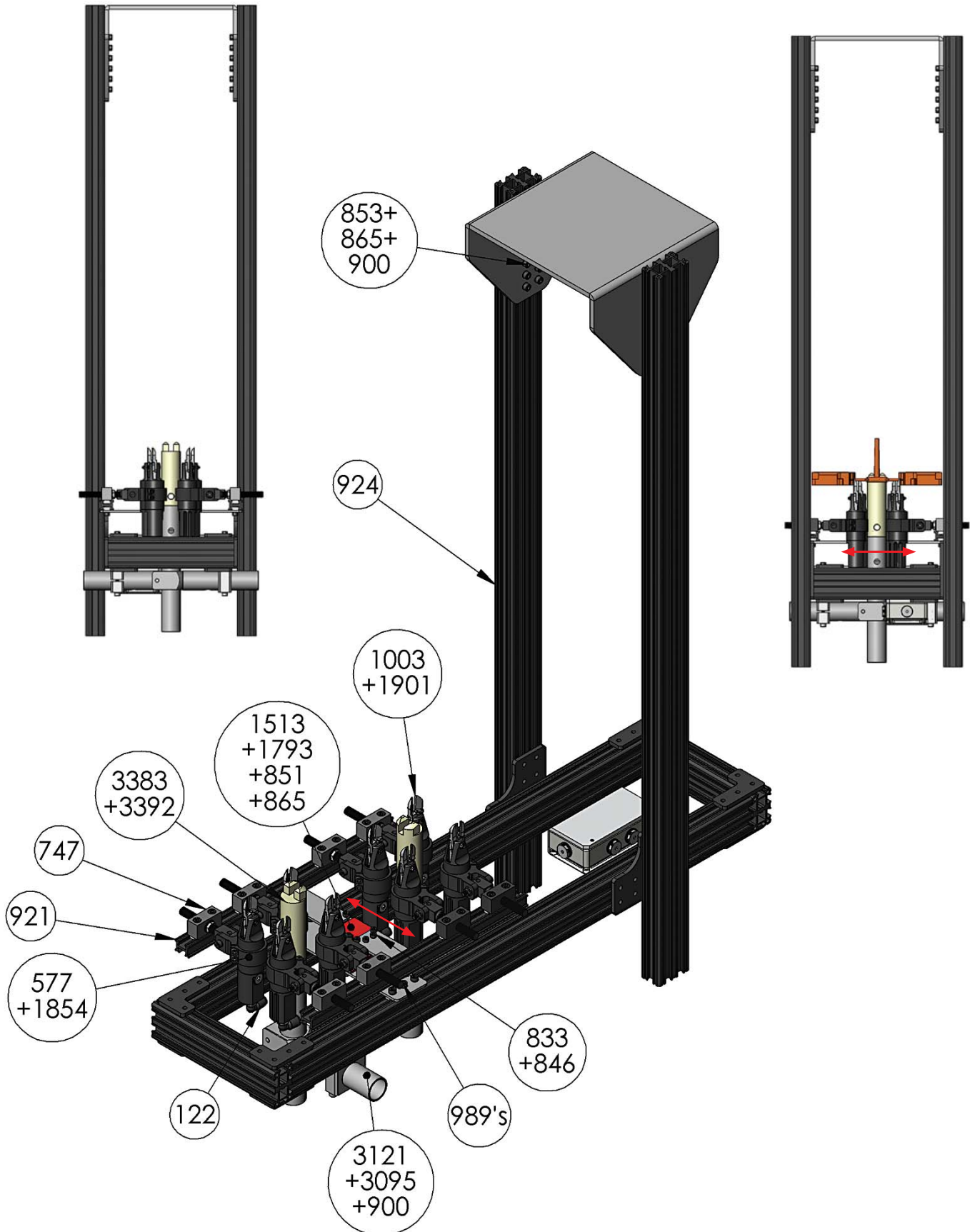
Part verification using photoeyes to sense translucent parts



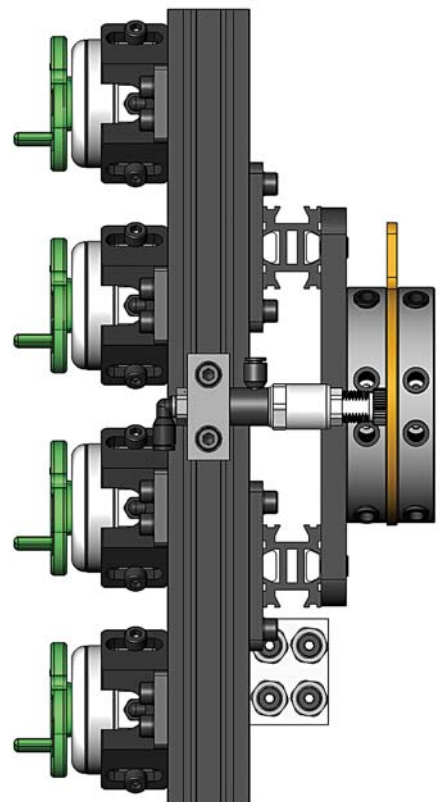
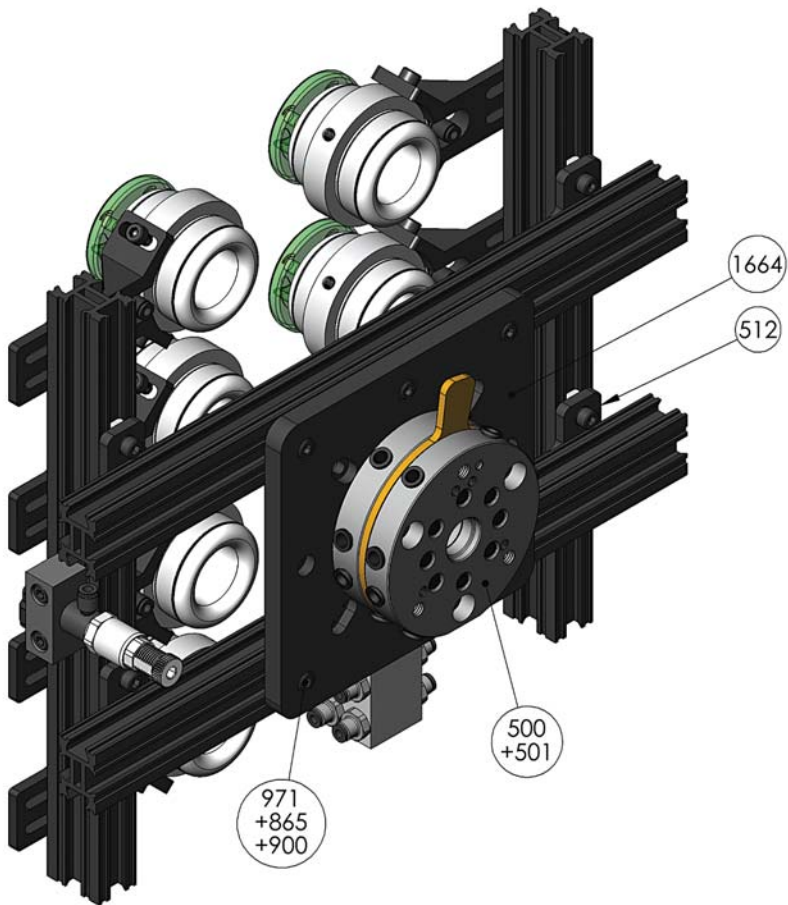
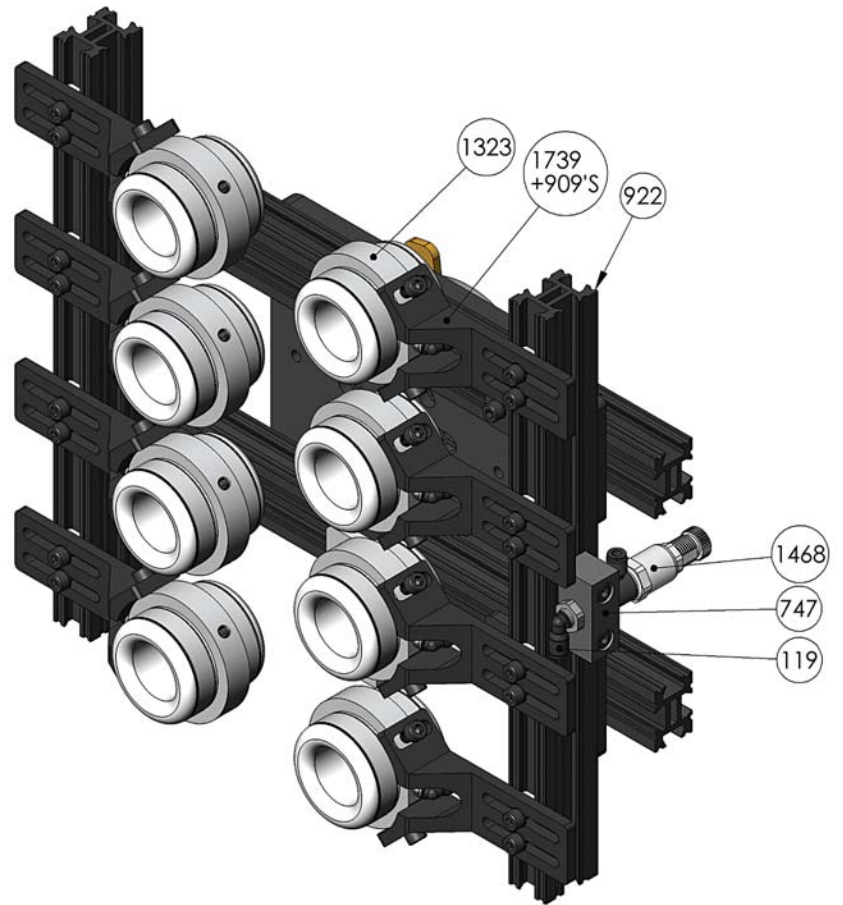
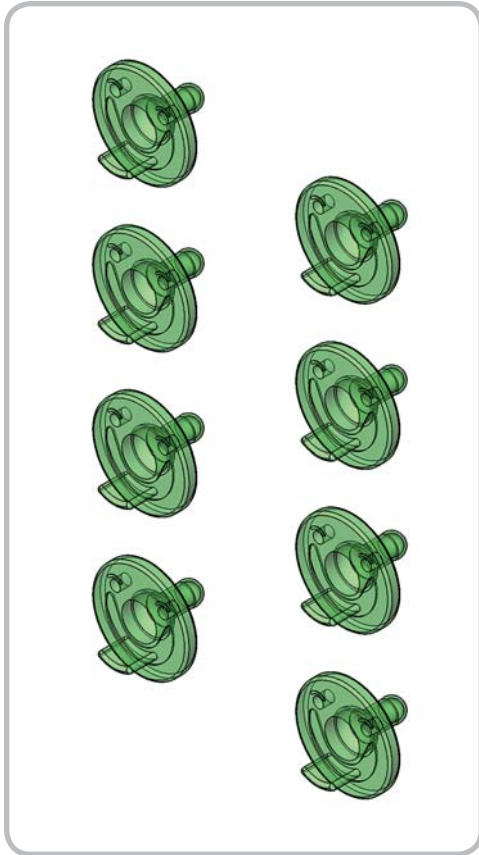
Degating station with 1 heavy-duty slide to position 8 nippers

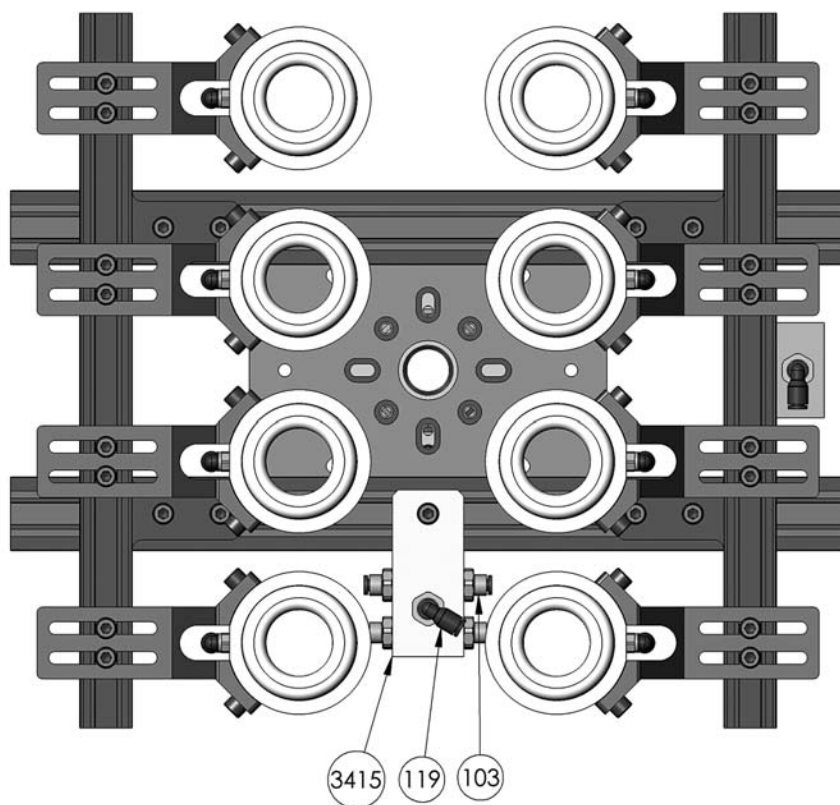
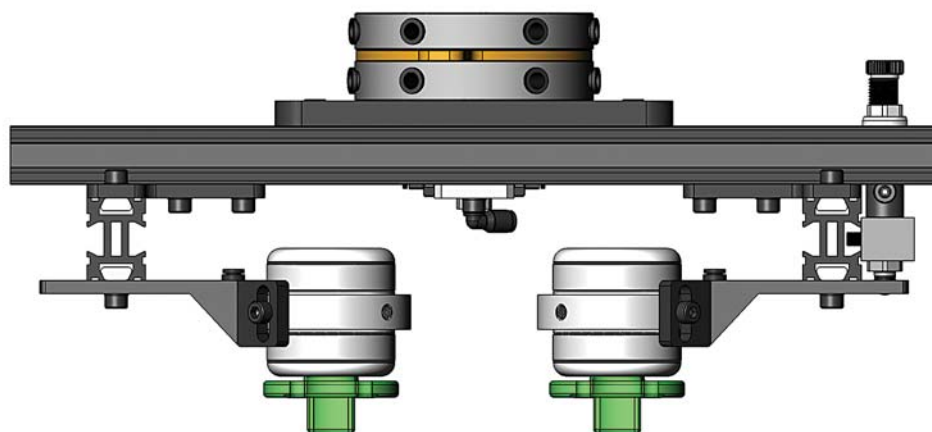


Degating station with 1 heavy-duty slide to position 8 nippers

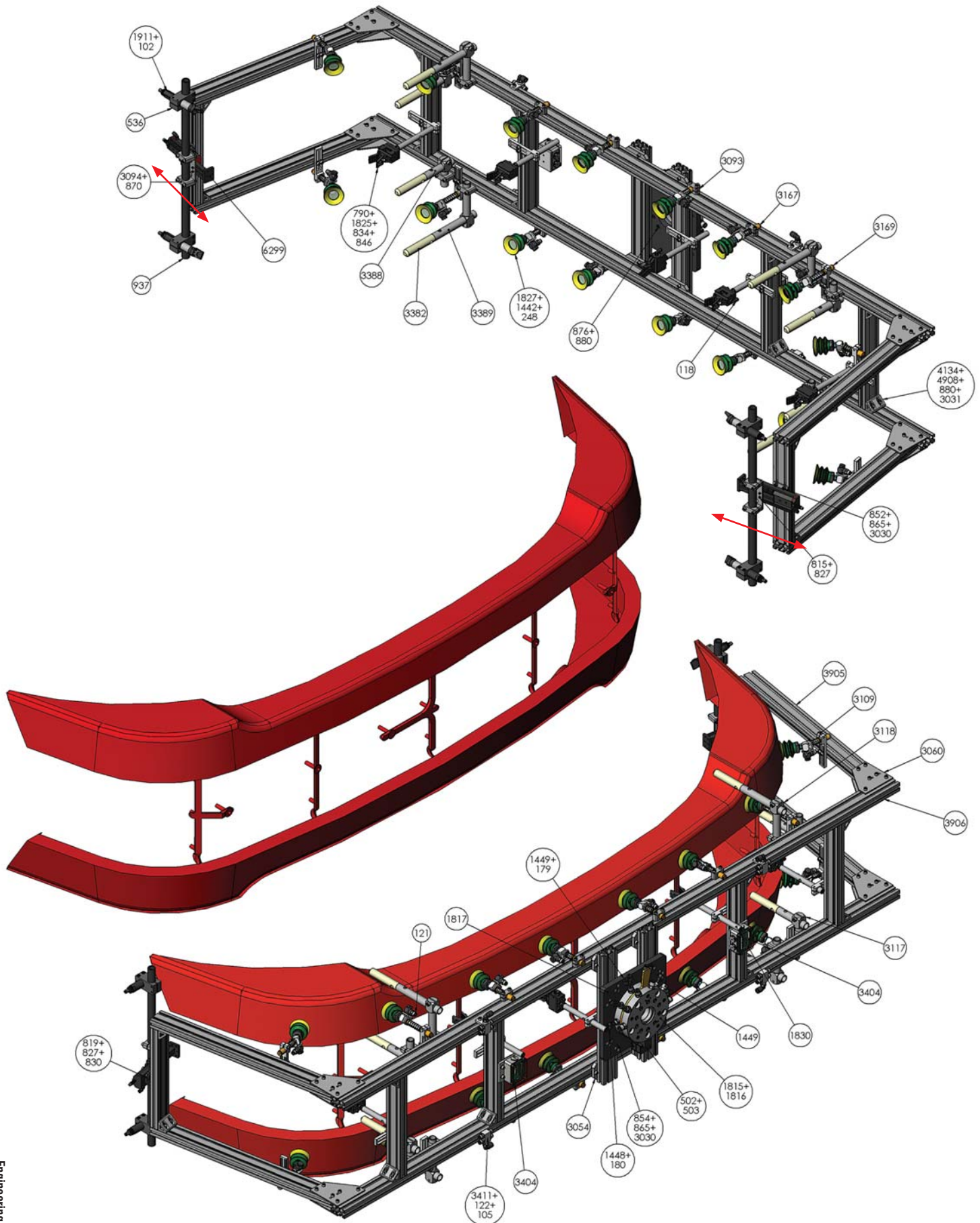


O.D. Air Hands

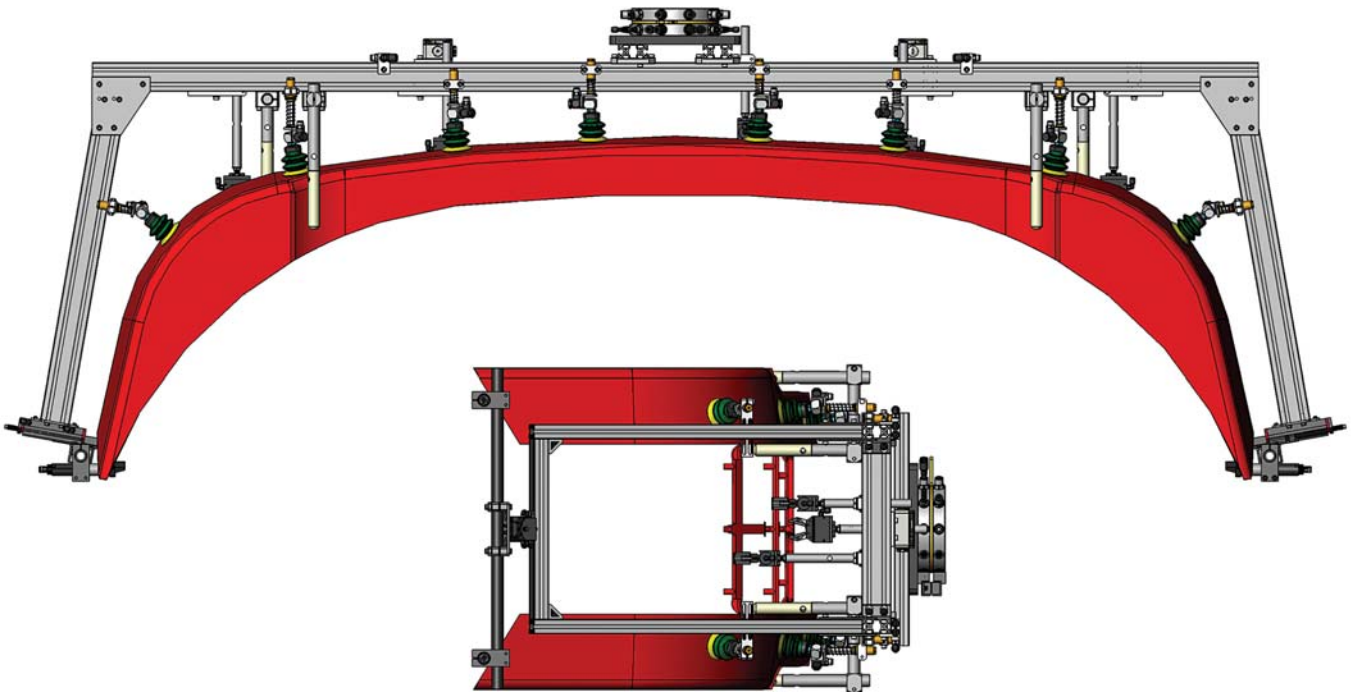
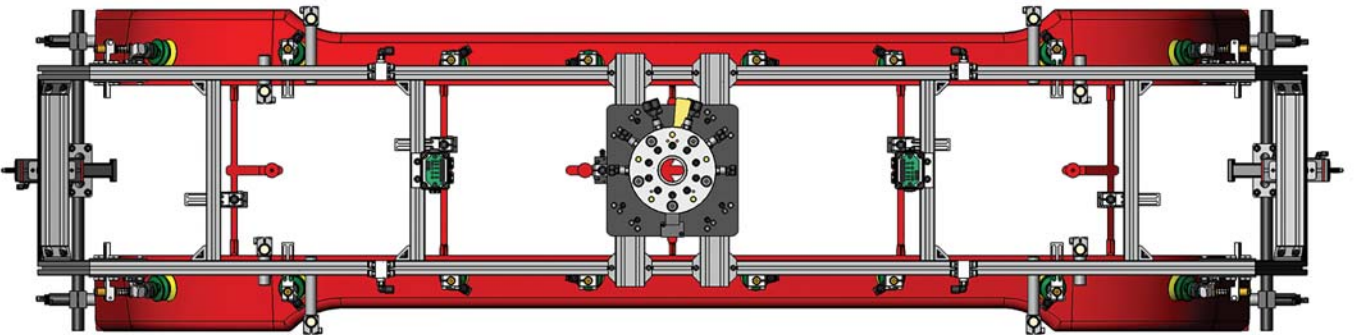
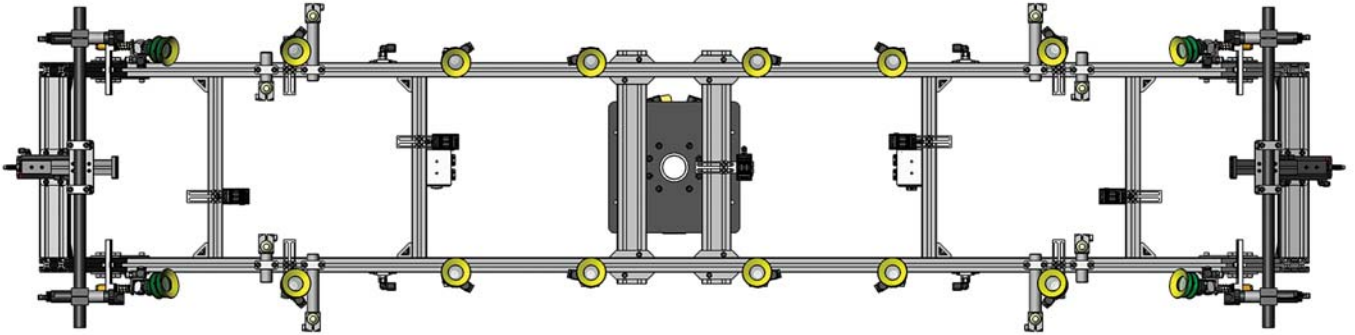




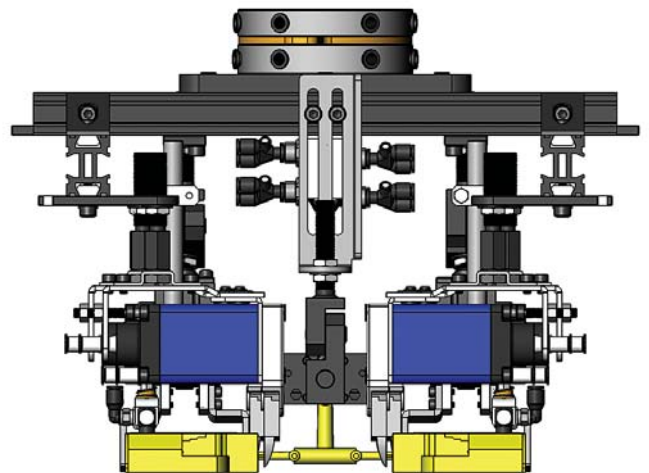
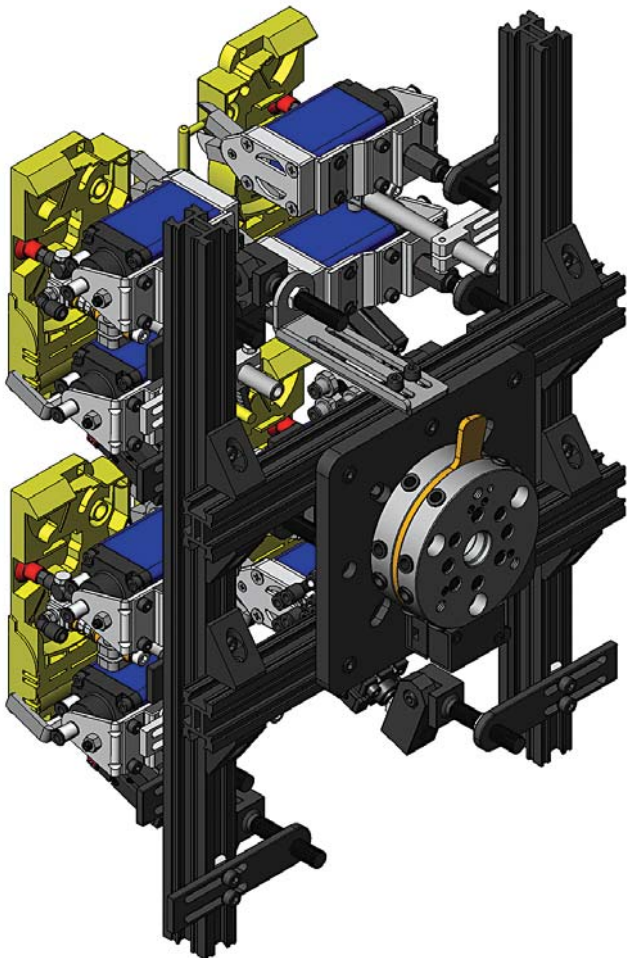
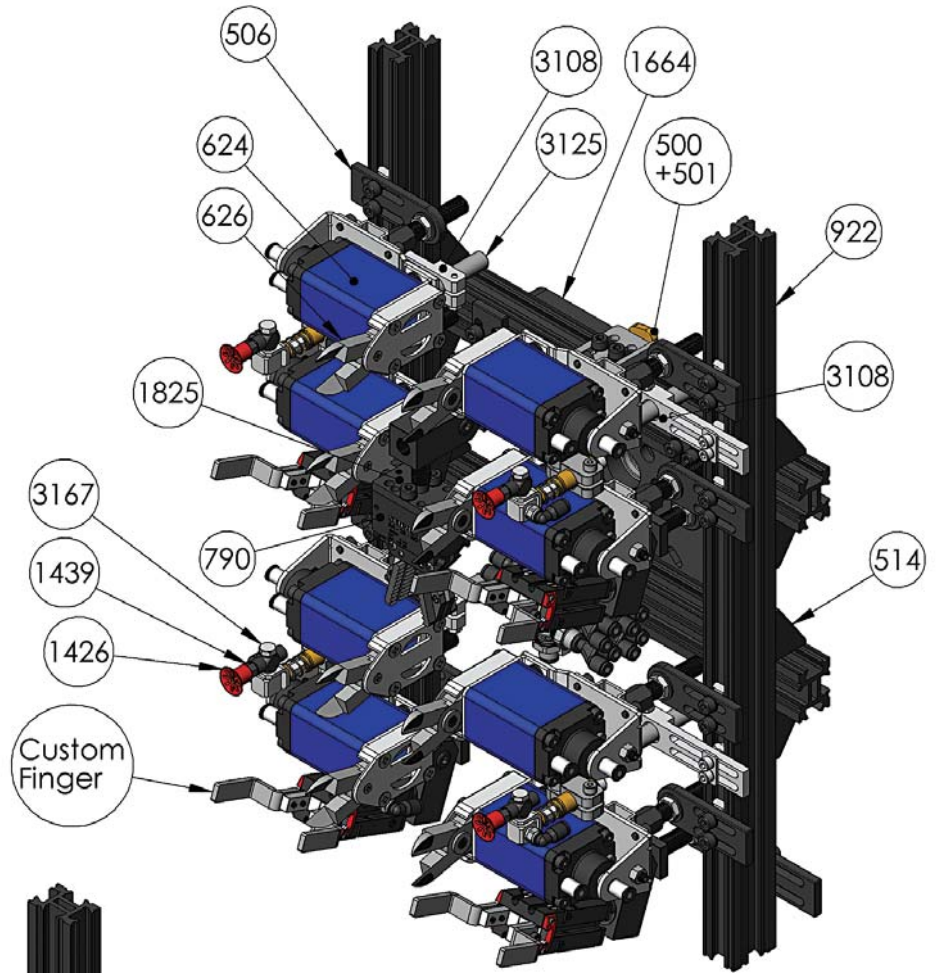
Gripper fingers mounted on linear slides to strip part ends off of mold



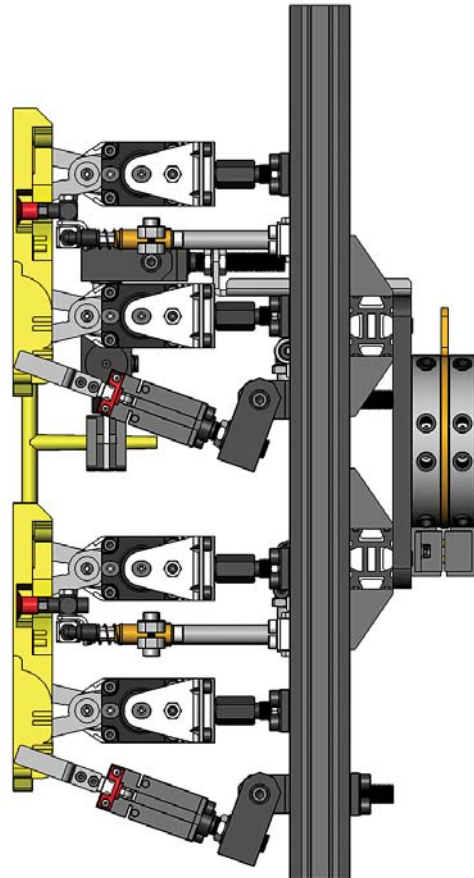
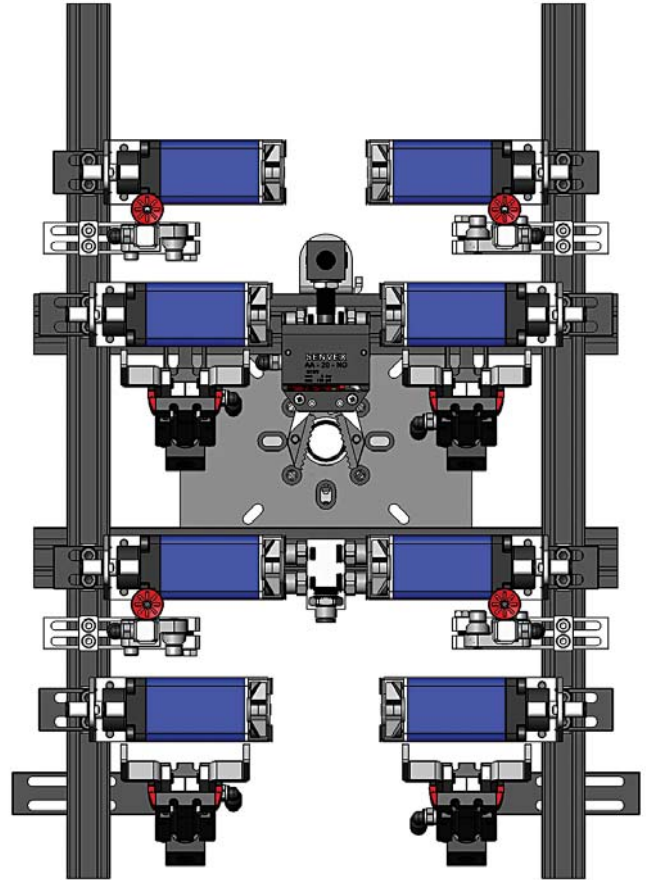
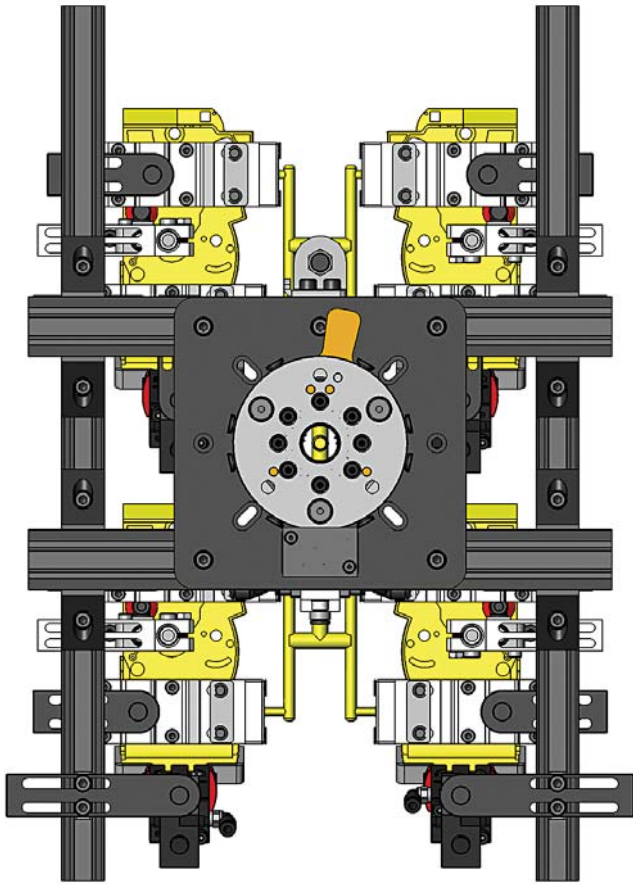
Gripper fingers mounted on linear slides to strip part ends off of mold



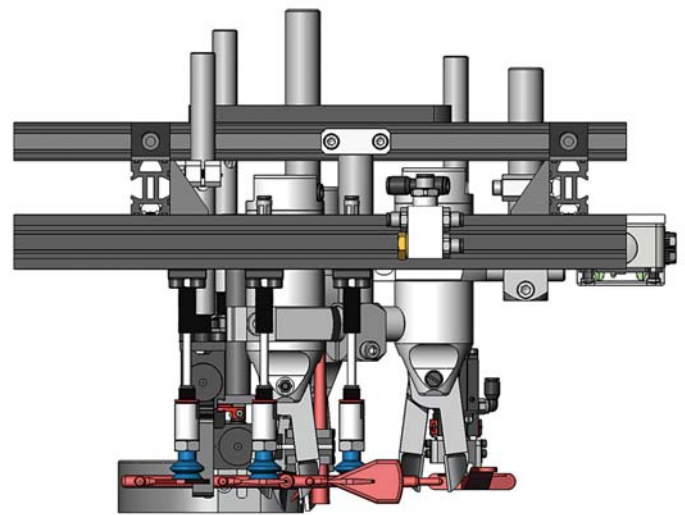
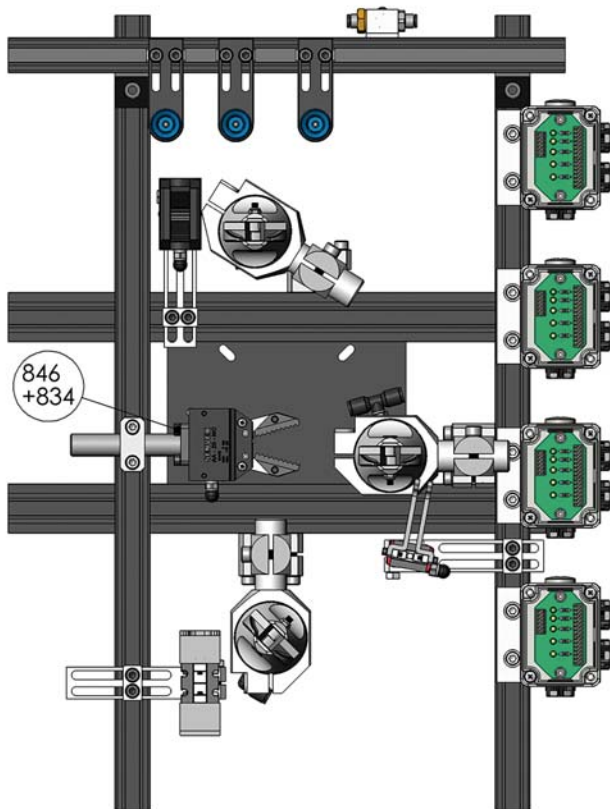
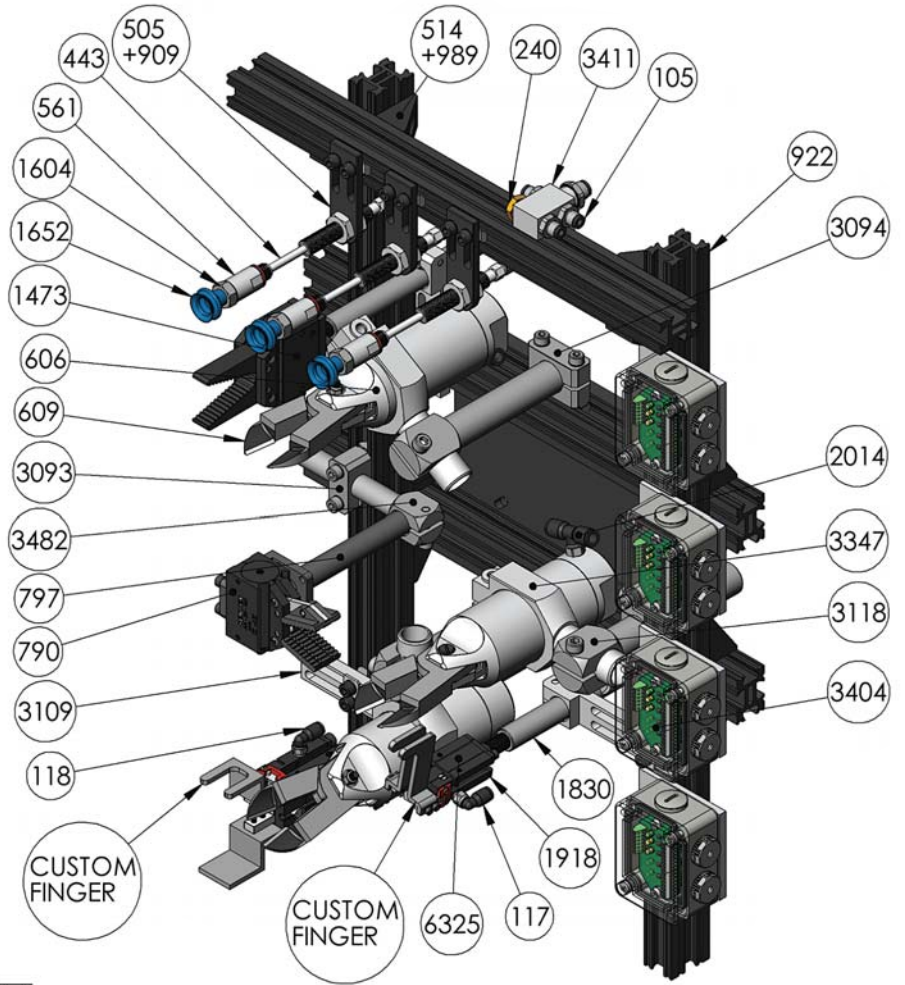
Degating on the EOAT



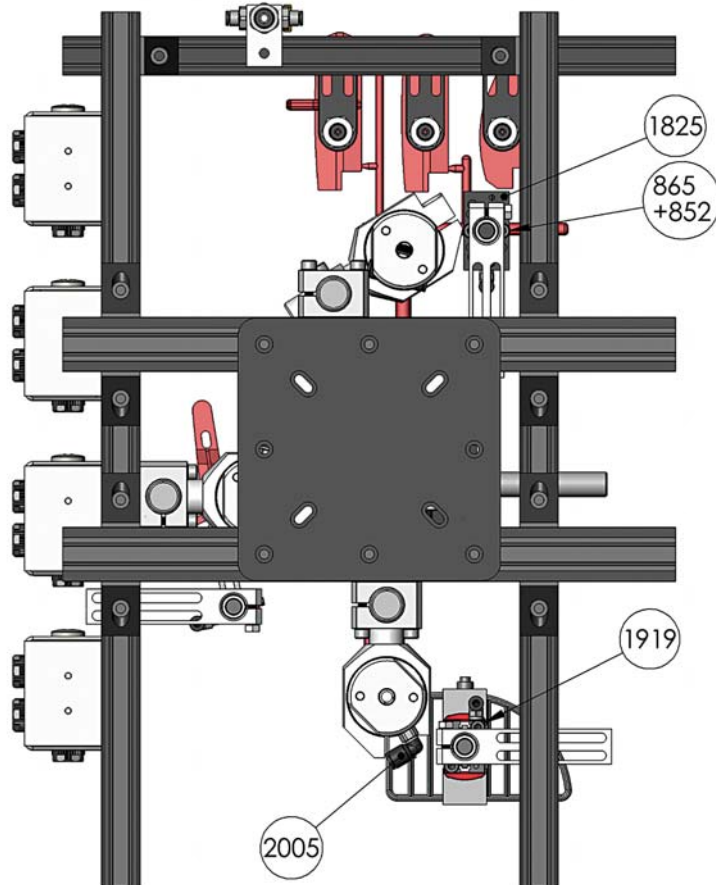
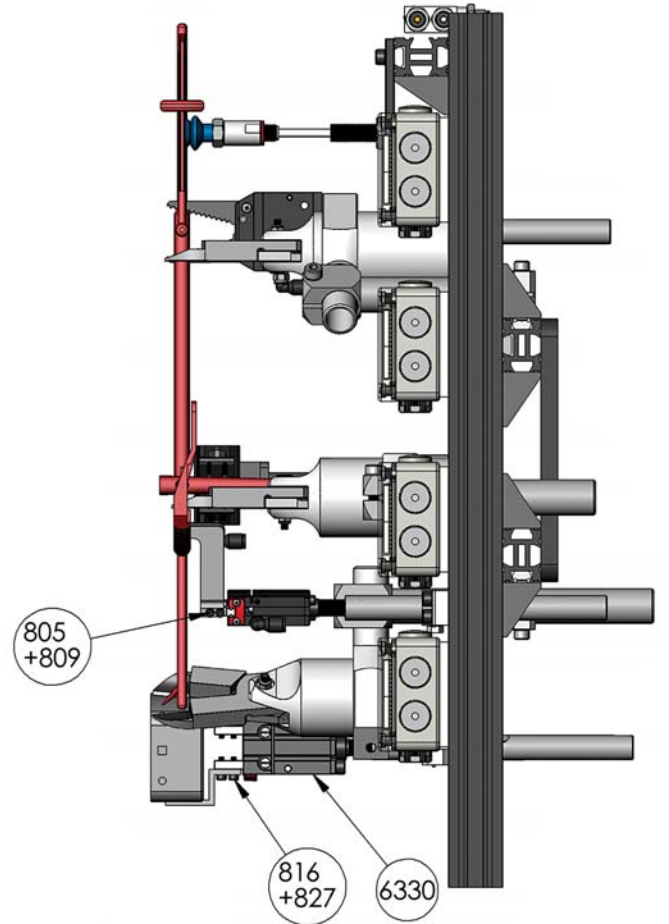
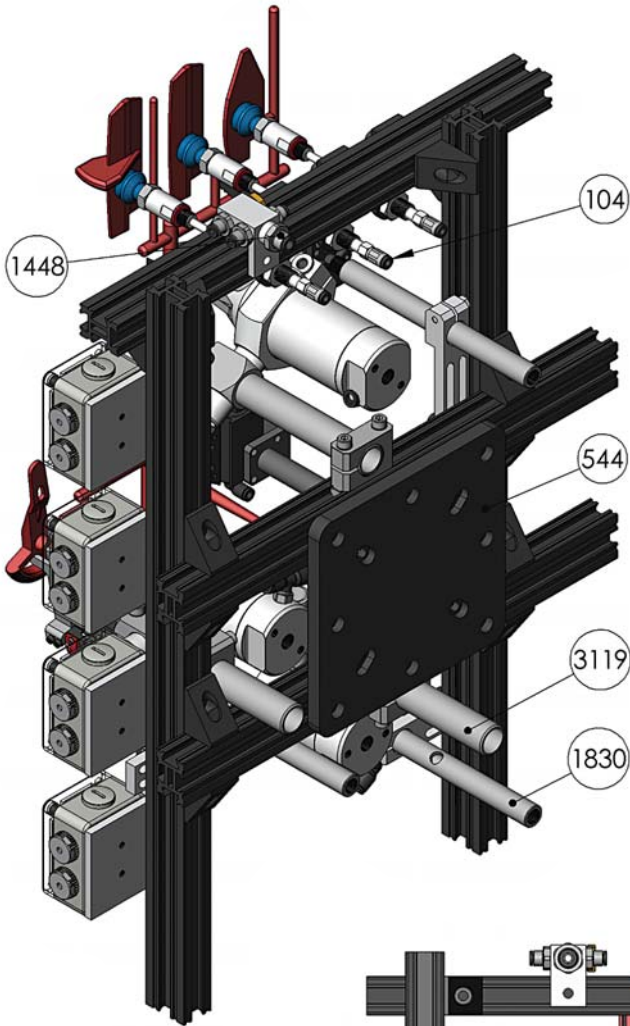
Degating on the EOAT



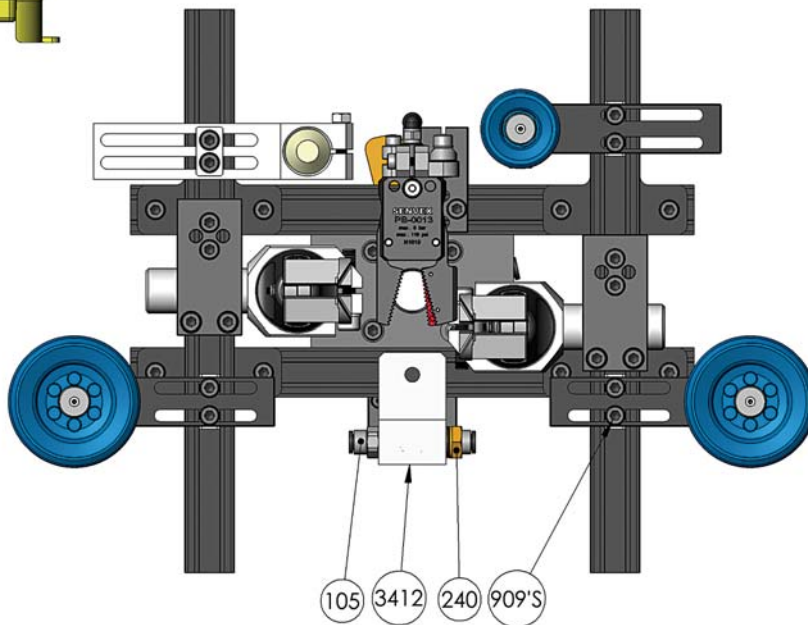
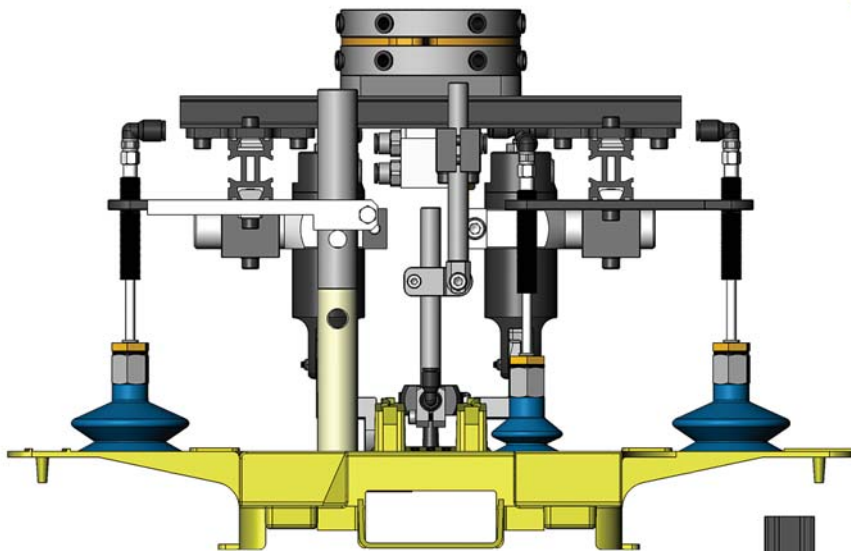
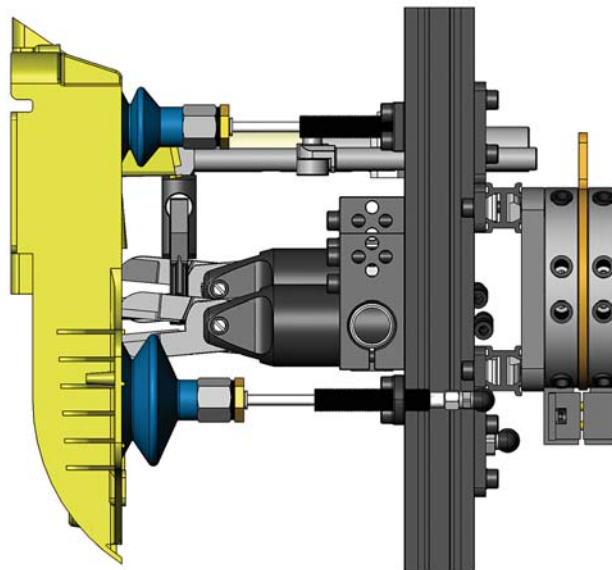
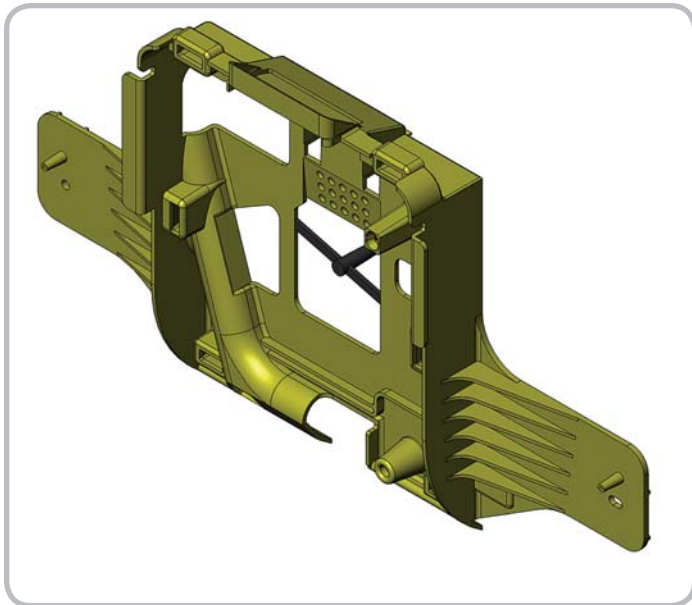
Family mold with nipping and sprue gripping



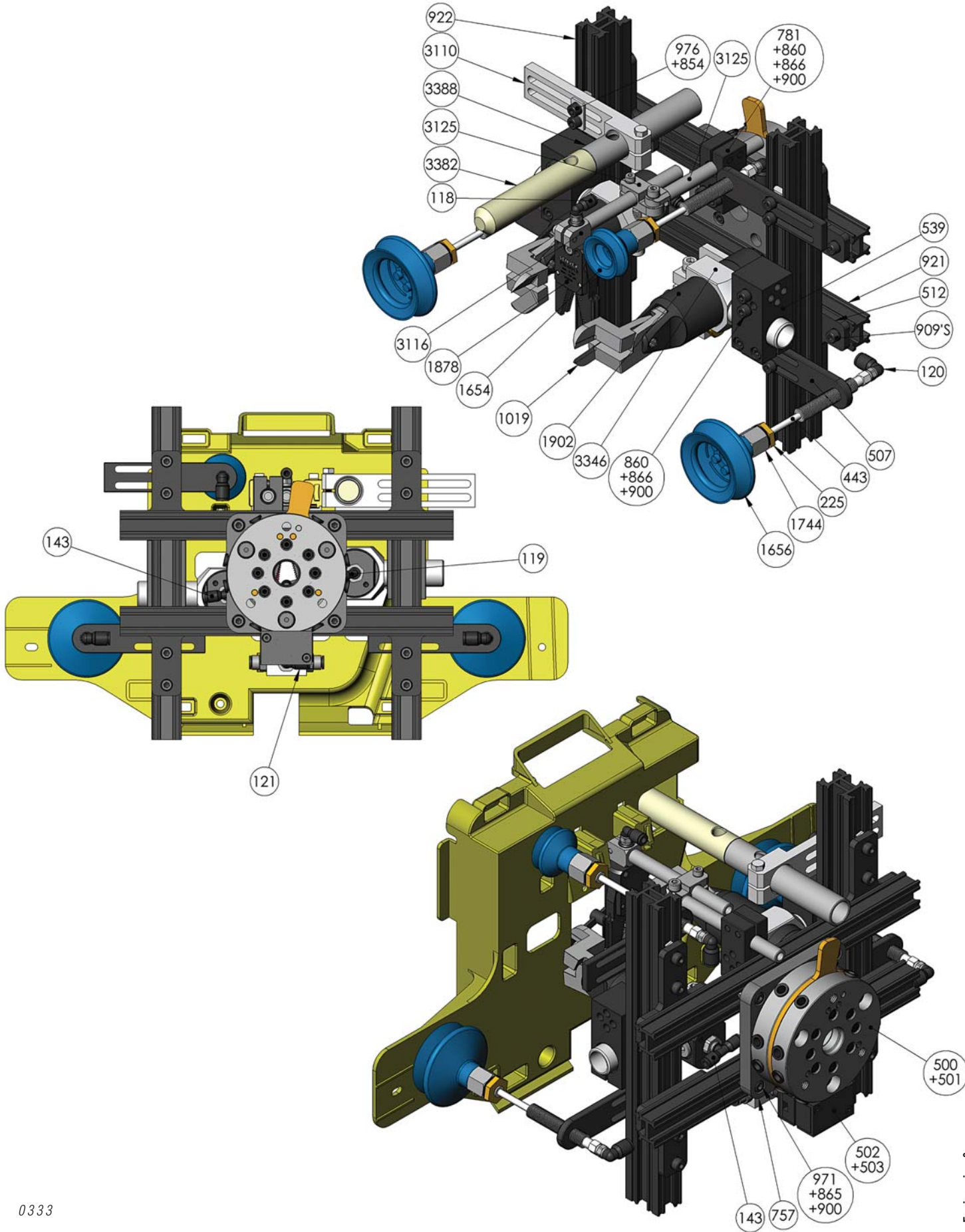
Family mold with nipping and sprue gripping



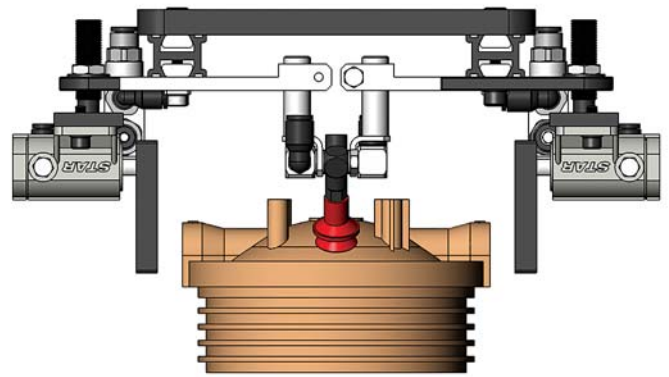
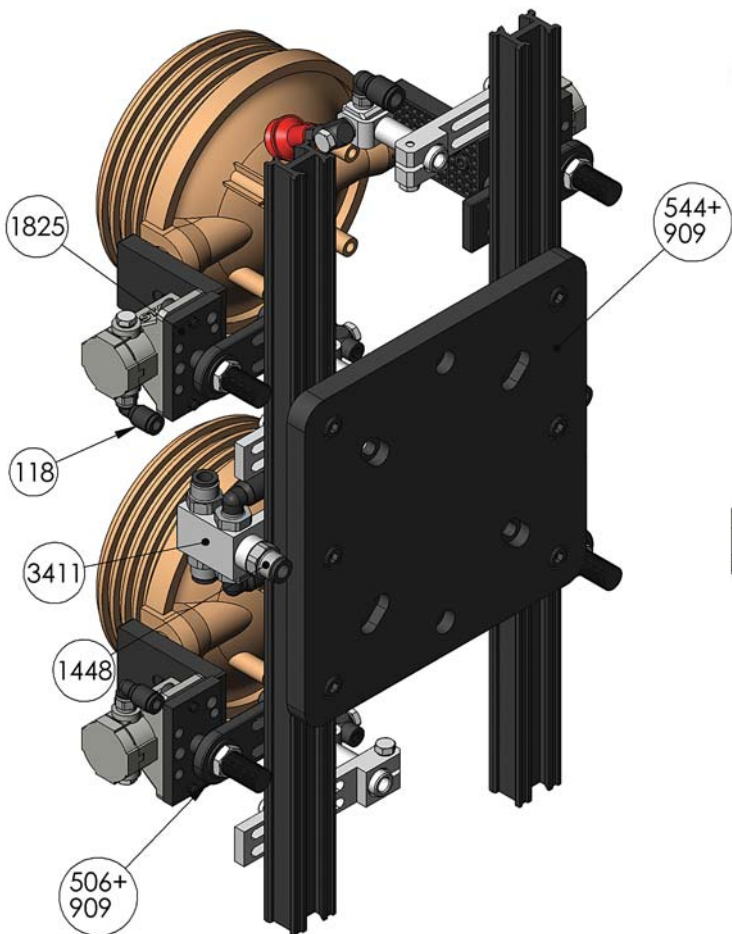
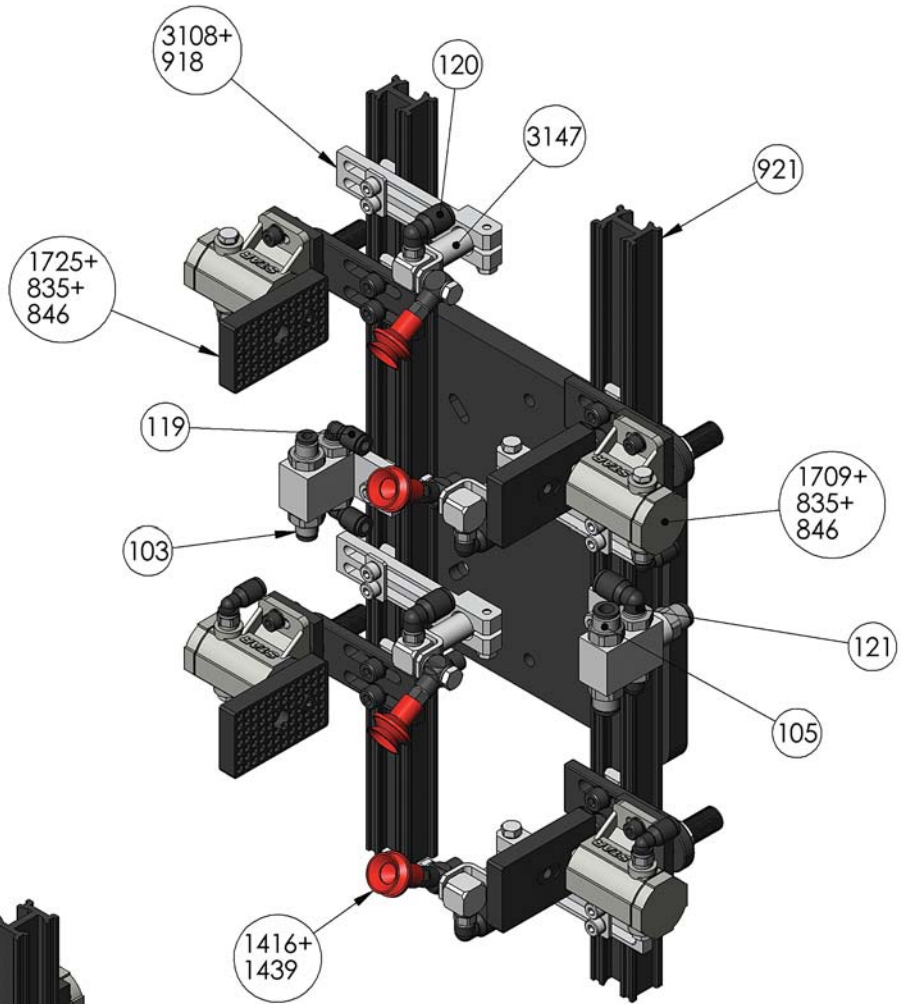
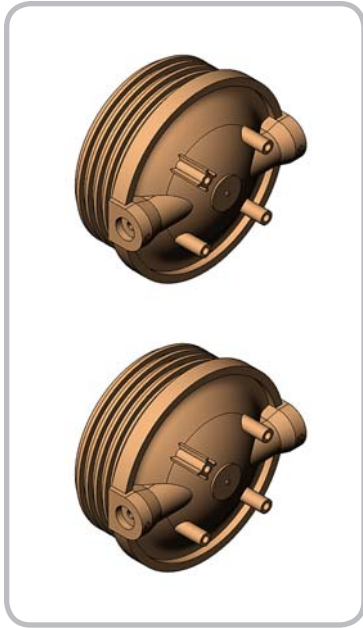
Degating using offset-reverse nipper blades



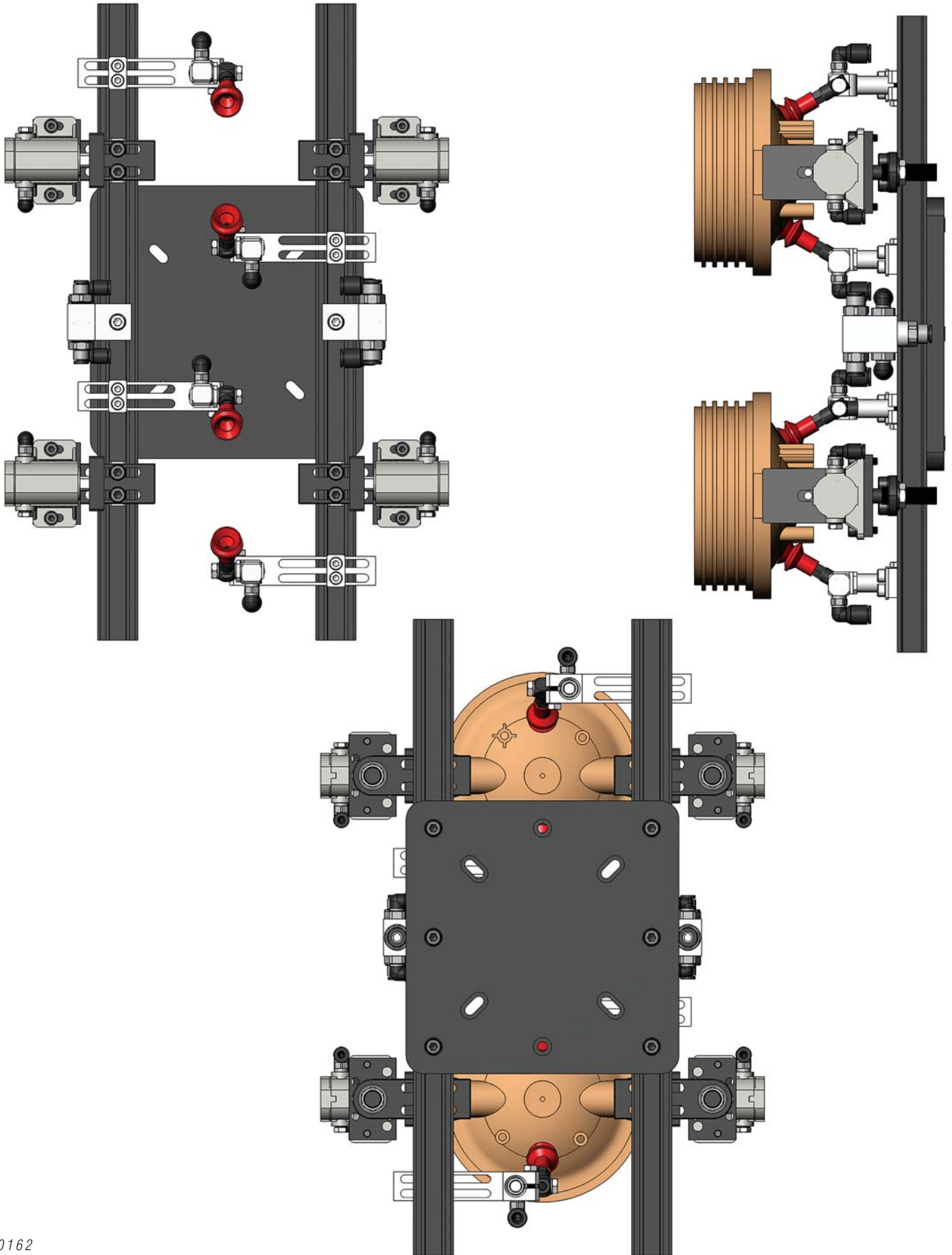
Degating using offset-reverse nipper blades



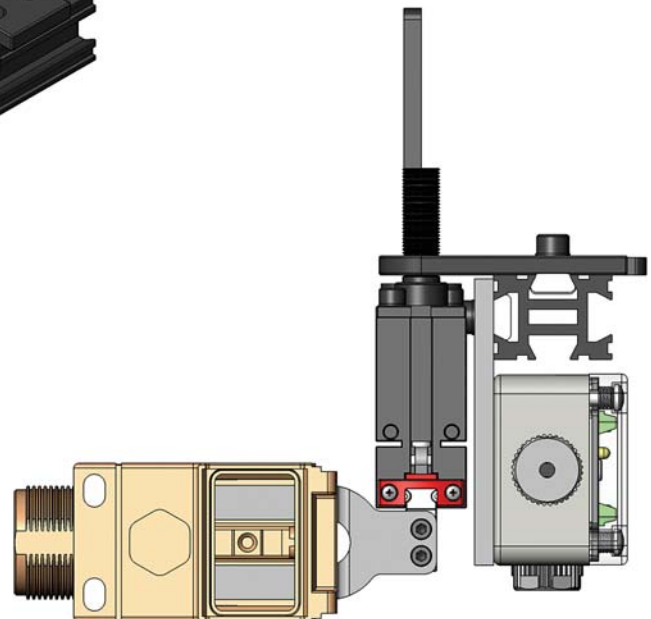
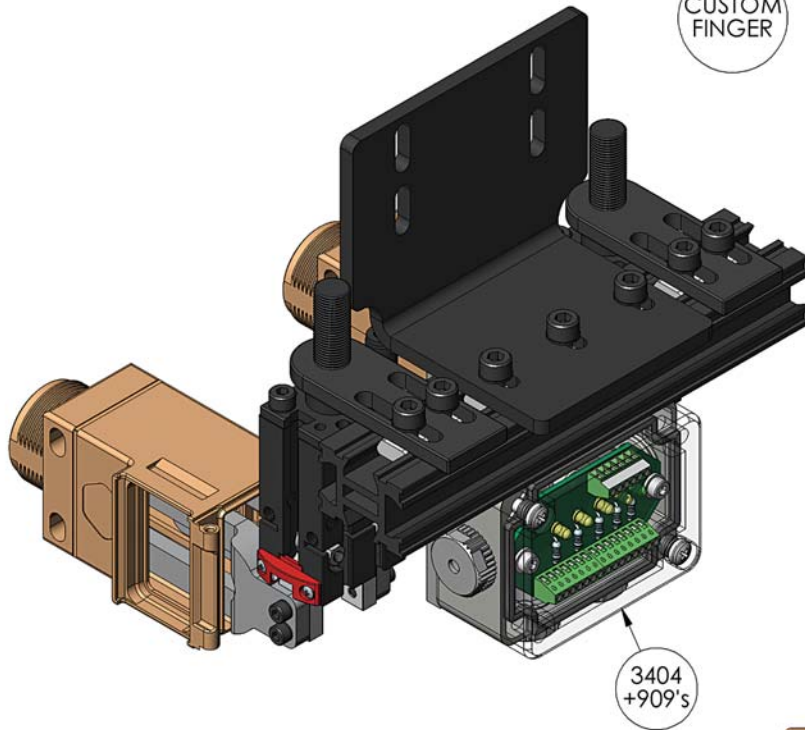
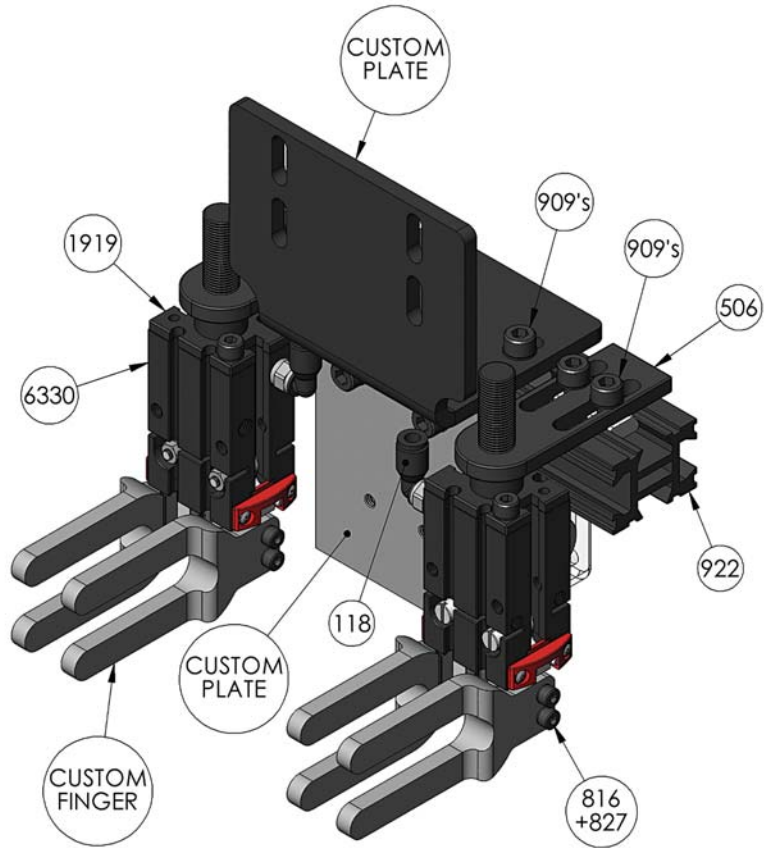
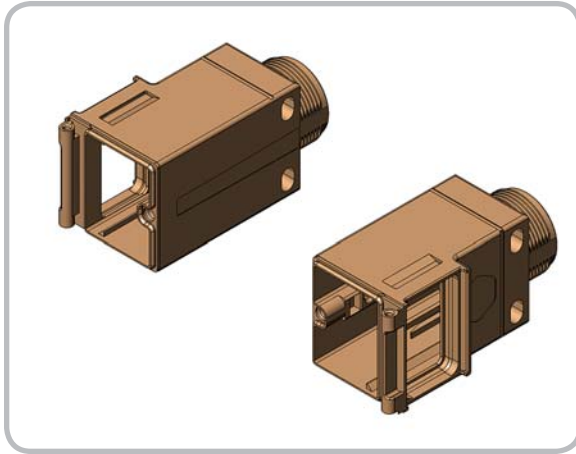
Lightweight cylinders to grip the part, vacuum cups to stabilize it



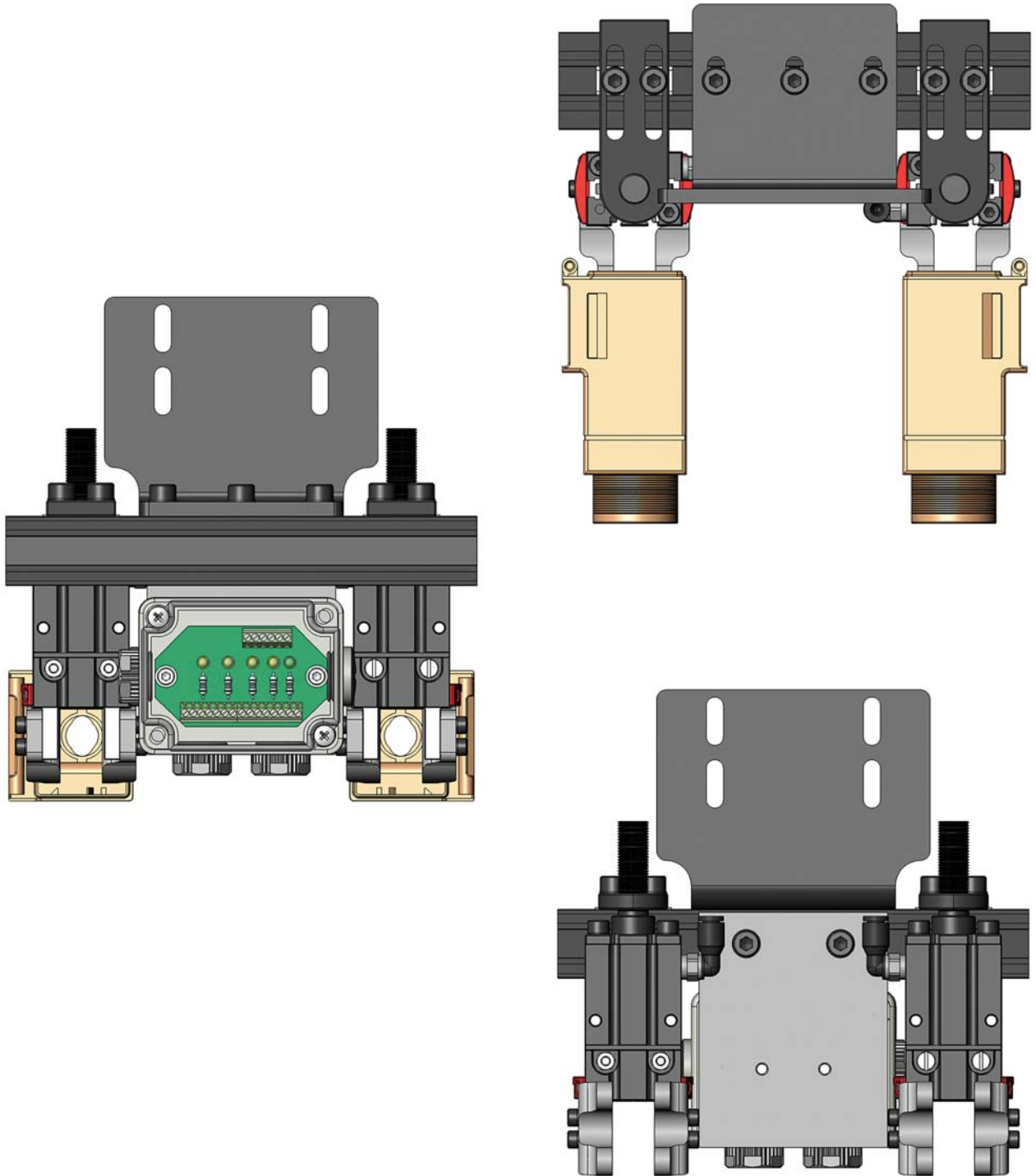
Lightweight cylinders to grip the part, vacuum cups to stabilize it



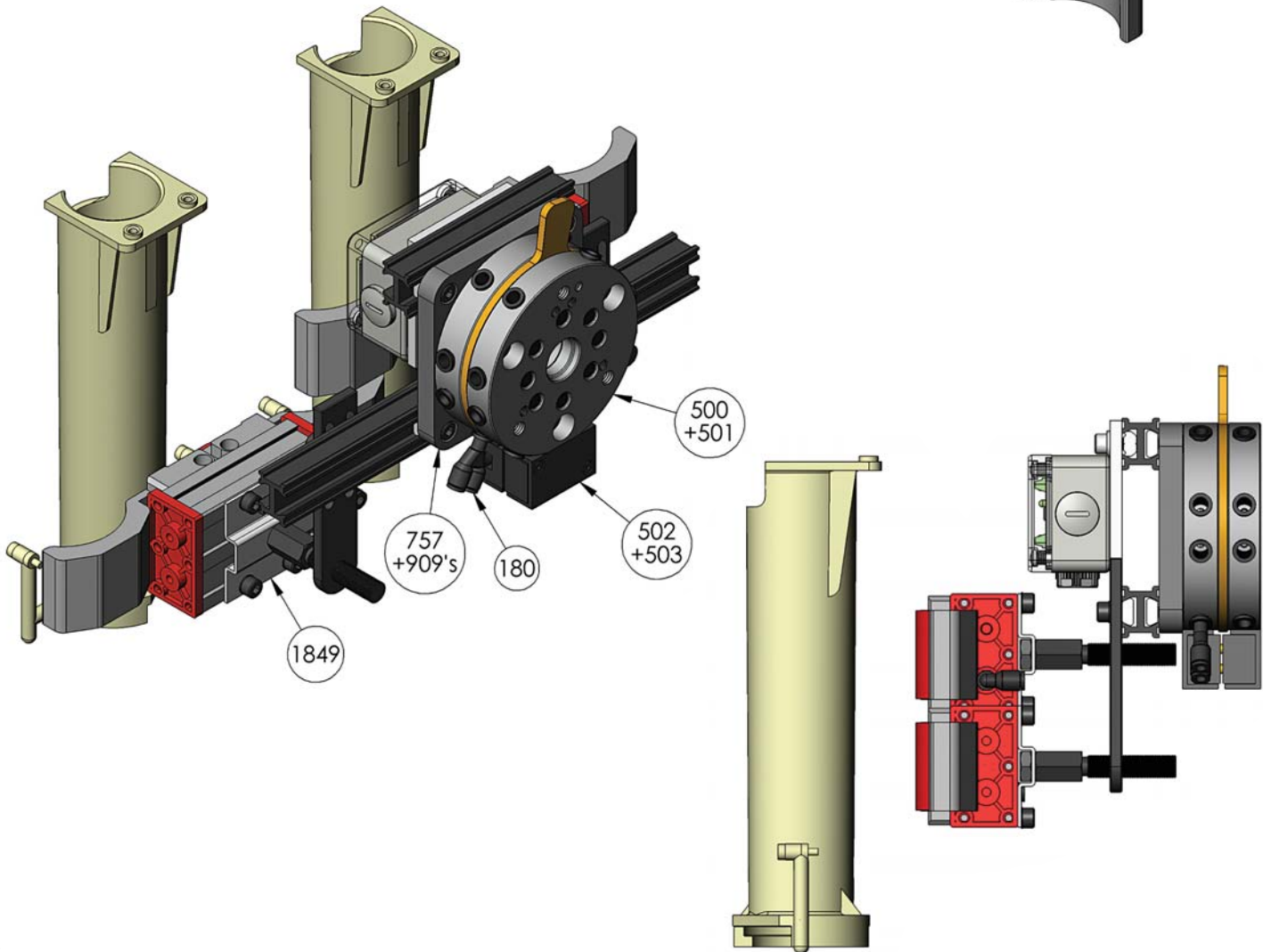
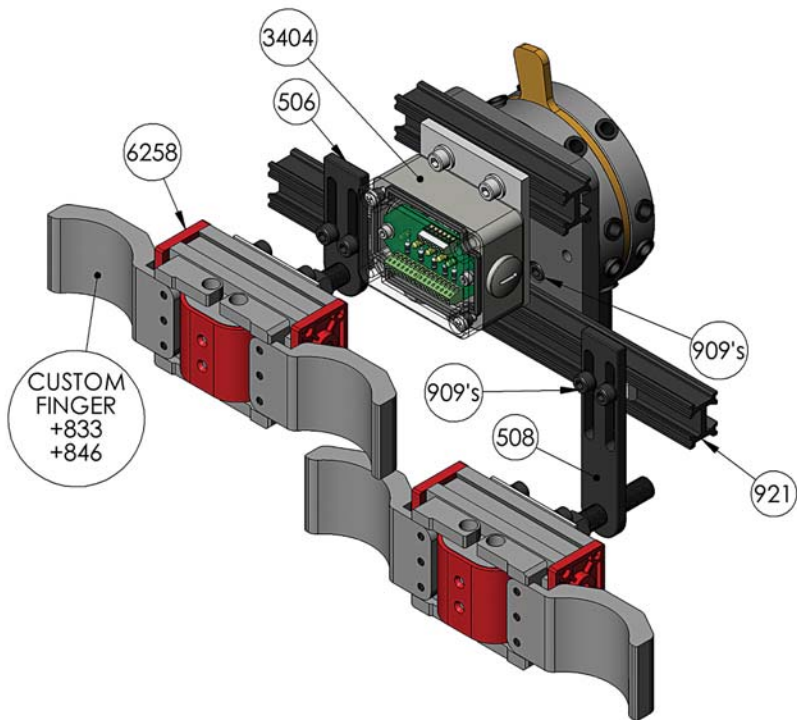
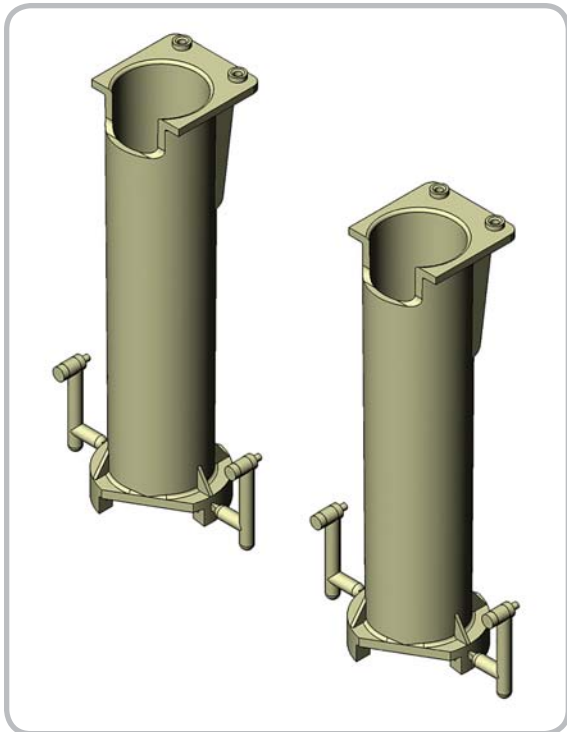
EOAT for a 6½" mold opening



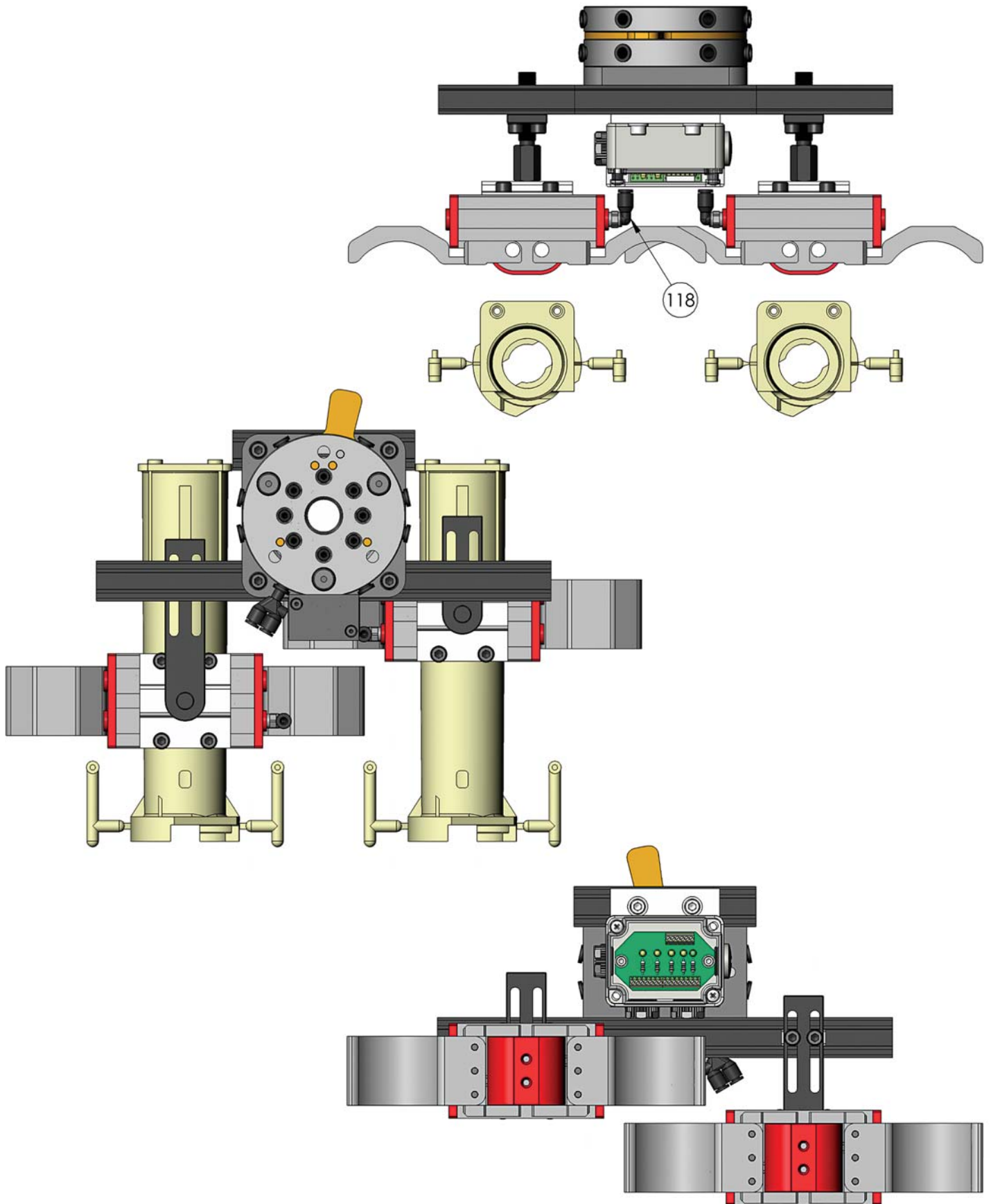
EOAT for a 6½" mold opening



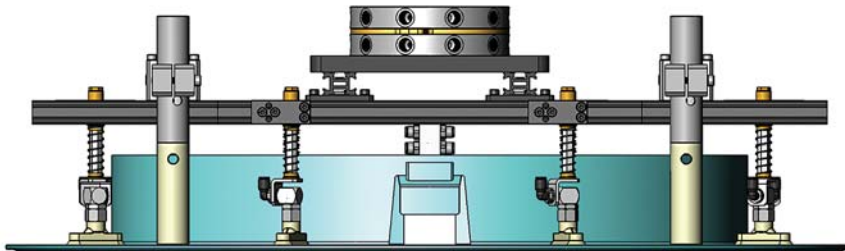
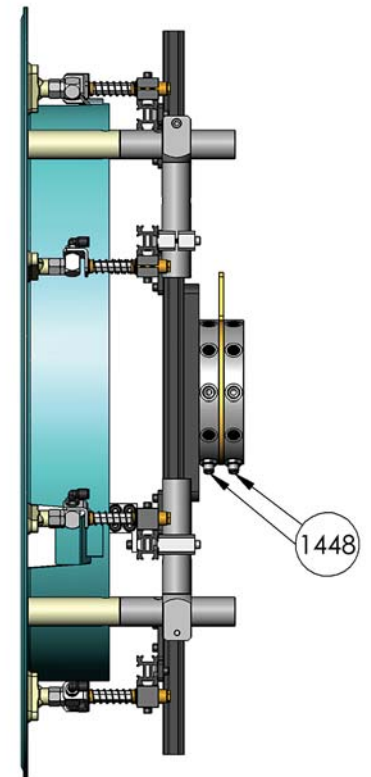
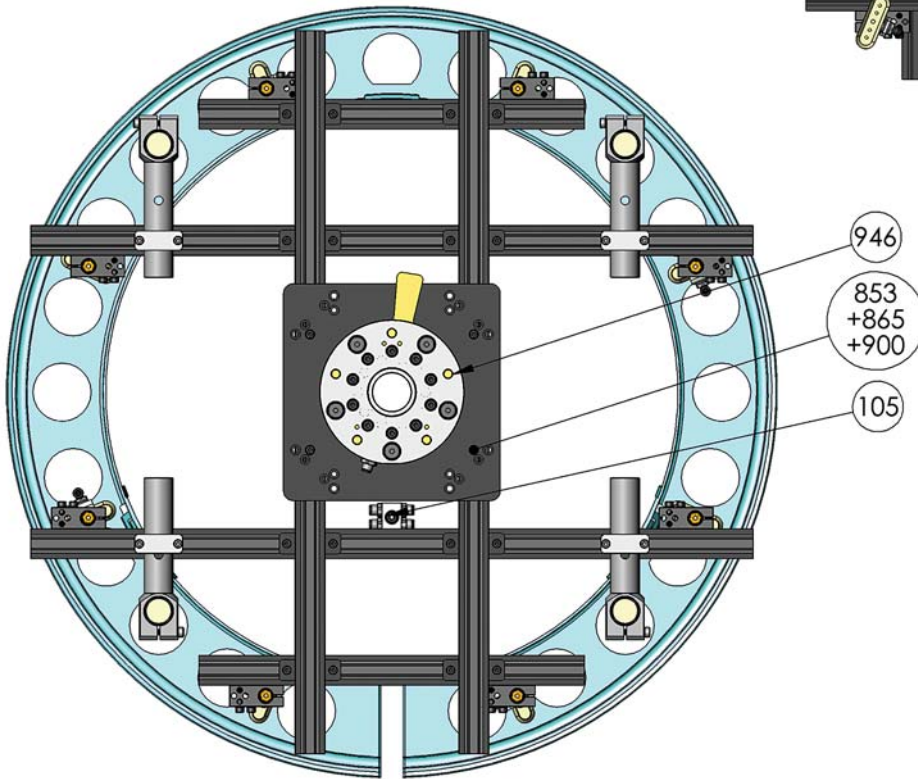
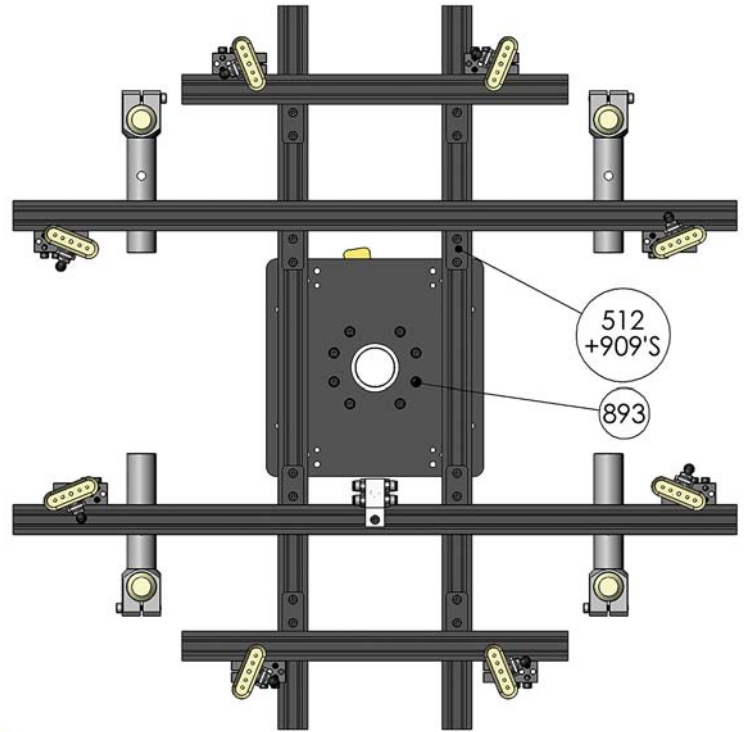
Radial grippers to pull parts from mold then set parts upright on conveyor



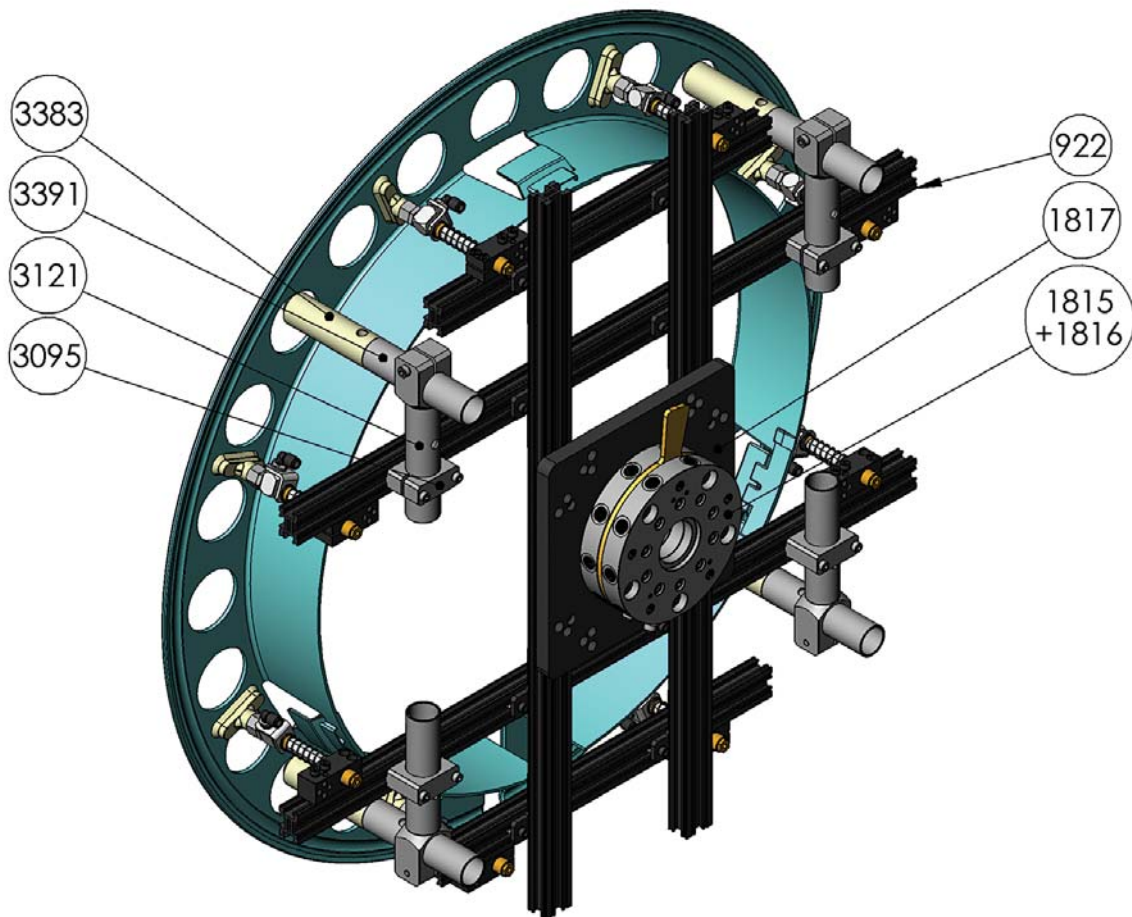
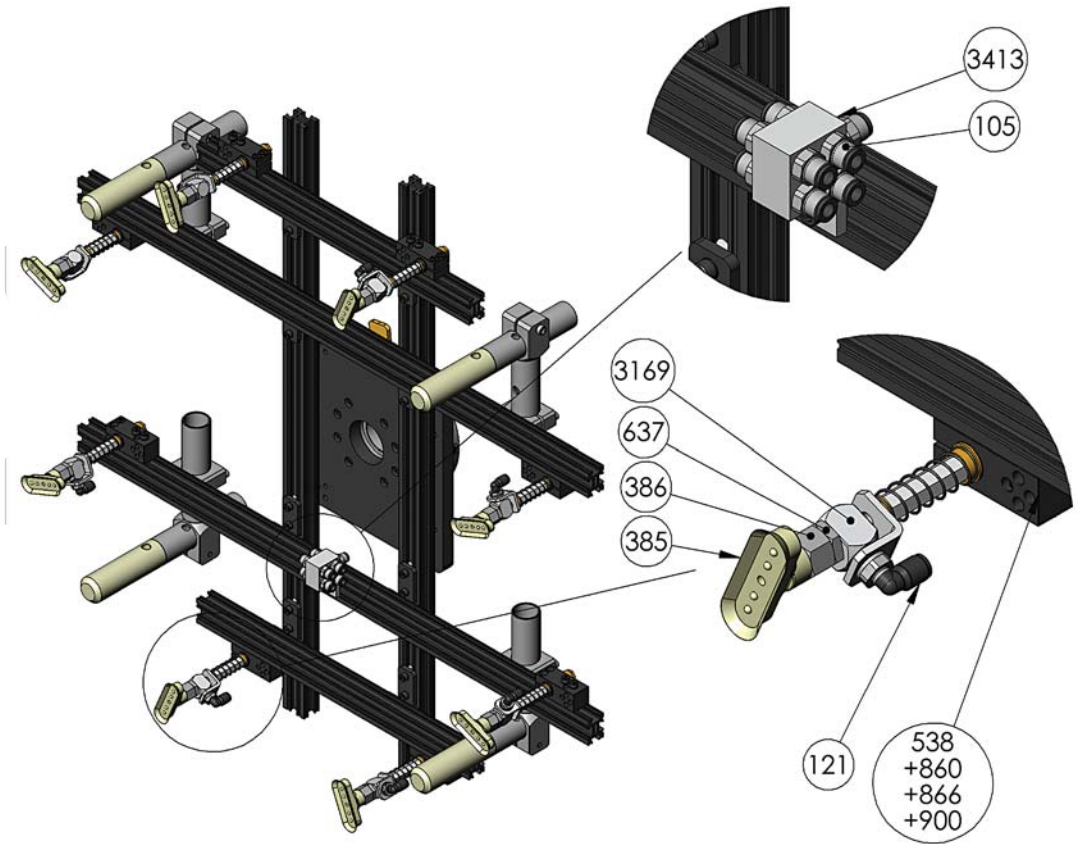
Radial grippers to pull parts from mold then set parts upright on conveyor



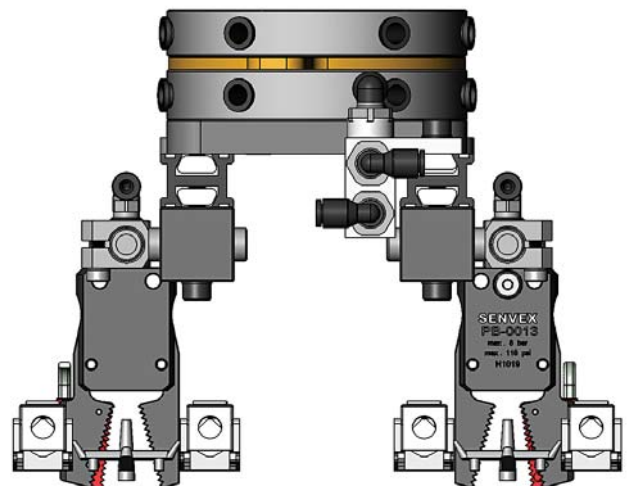
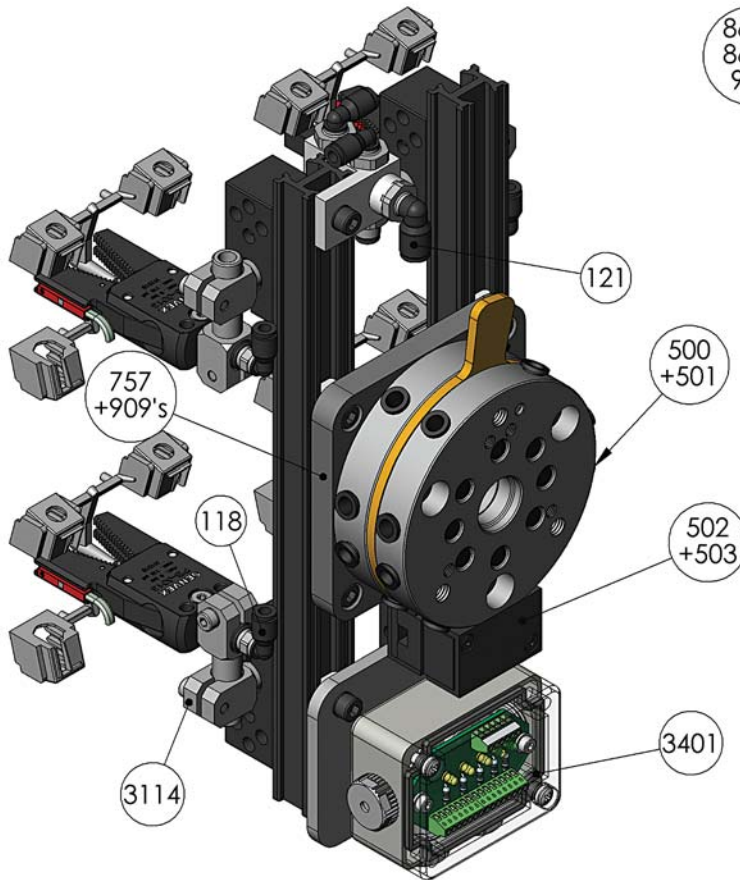
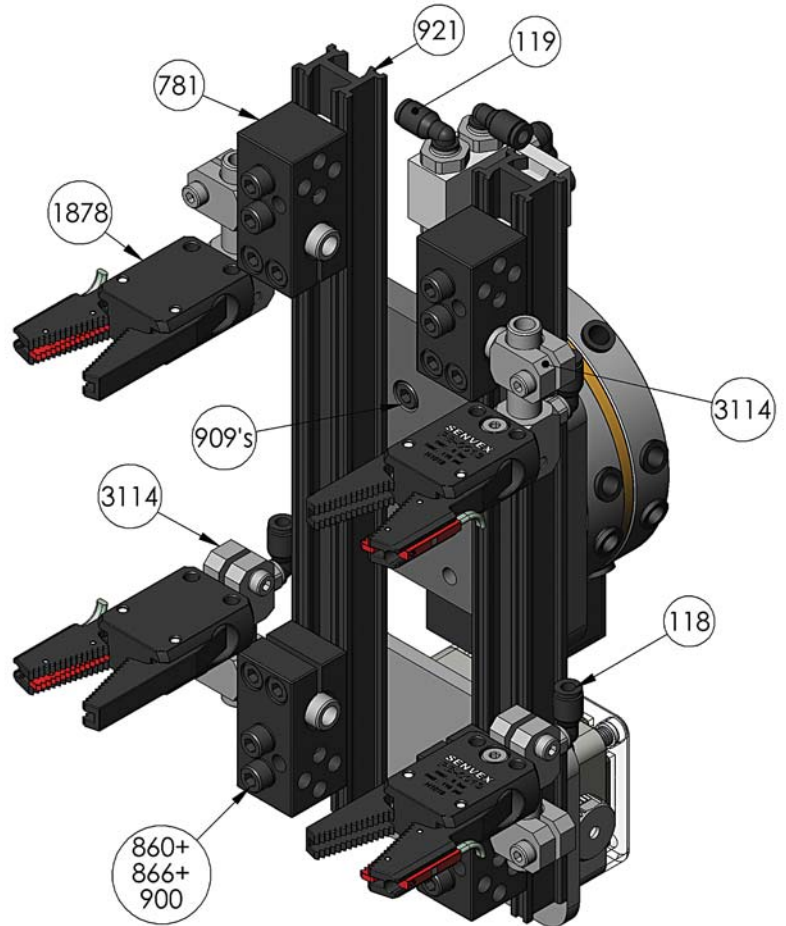
Oval vacuum cup use



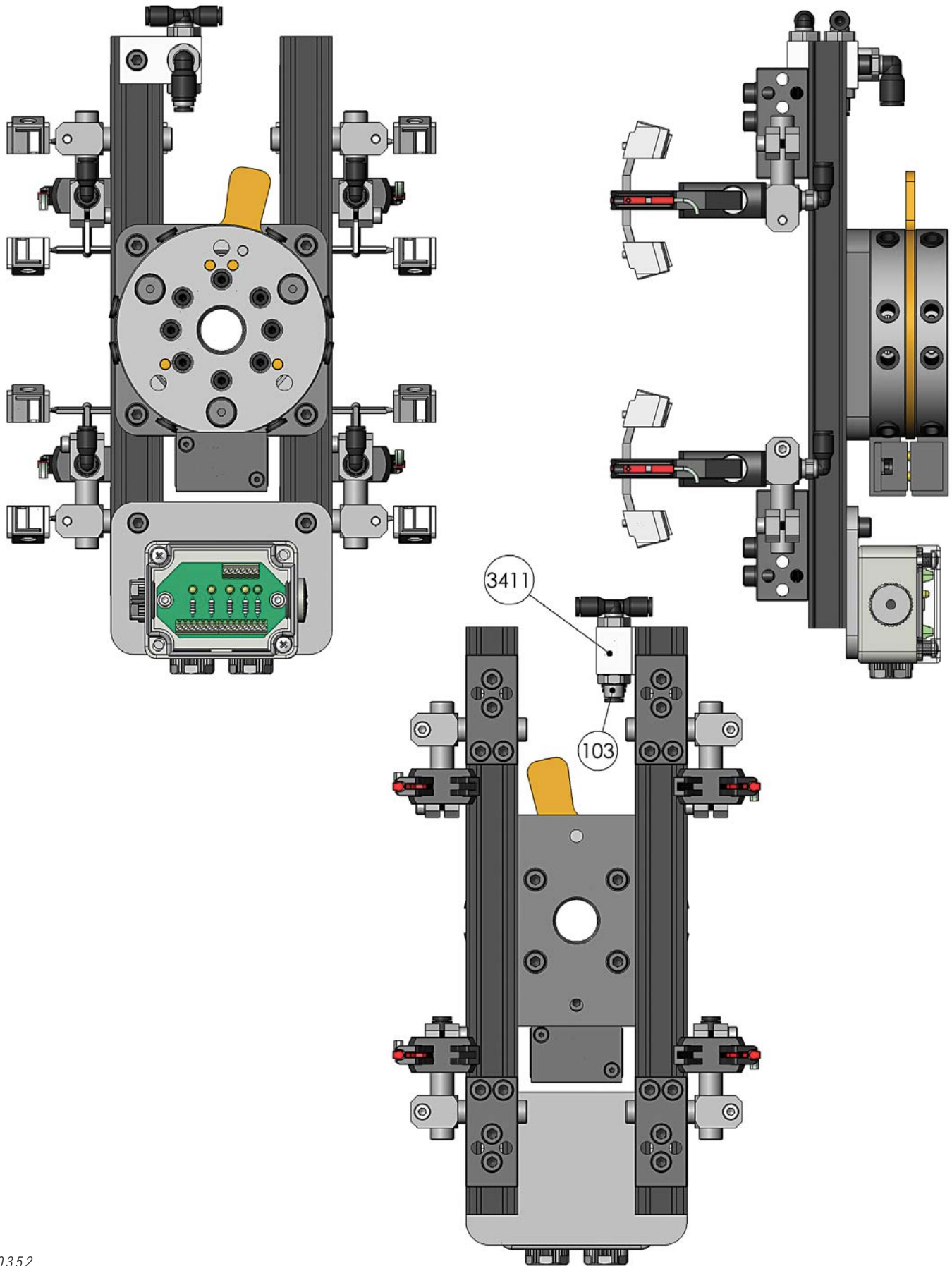
Oval vacuum cup use



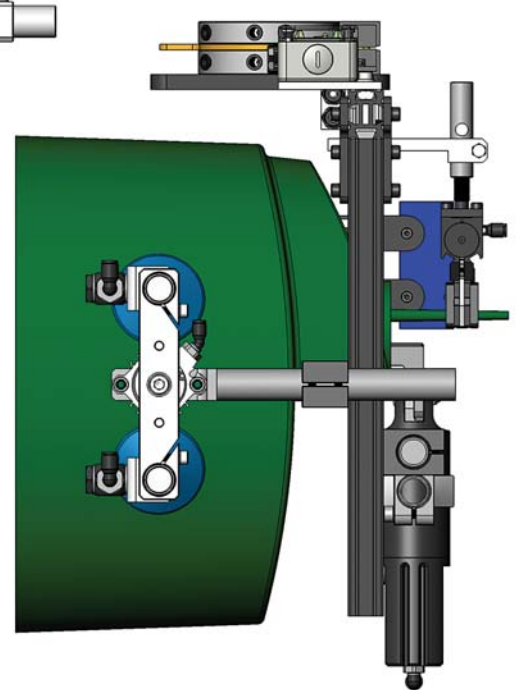
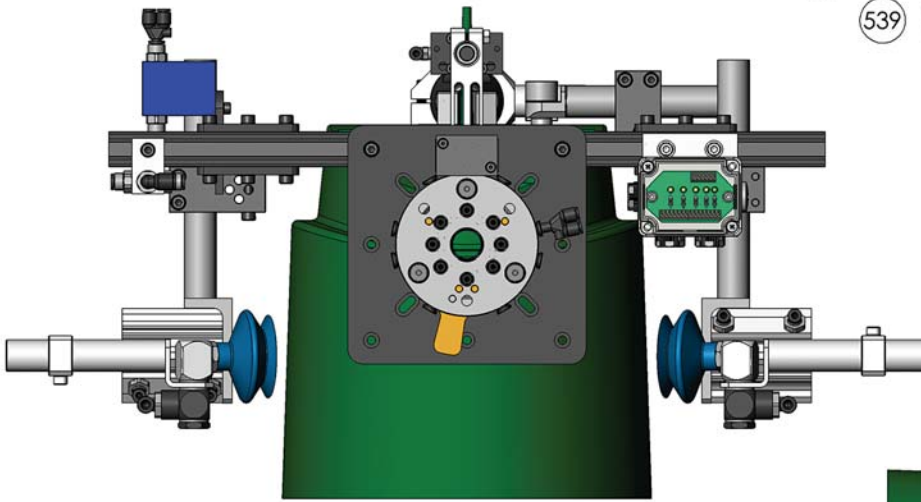
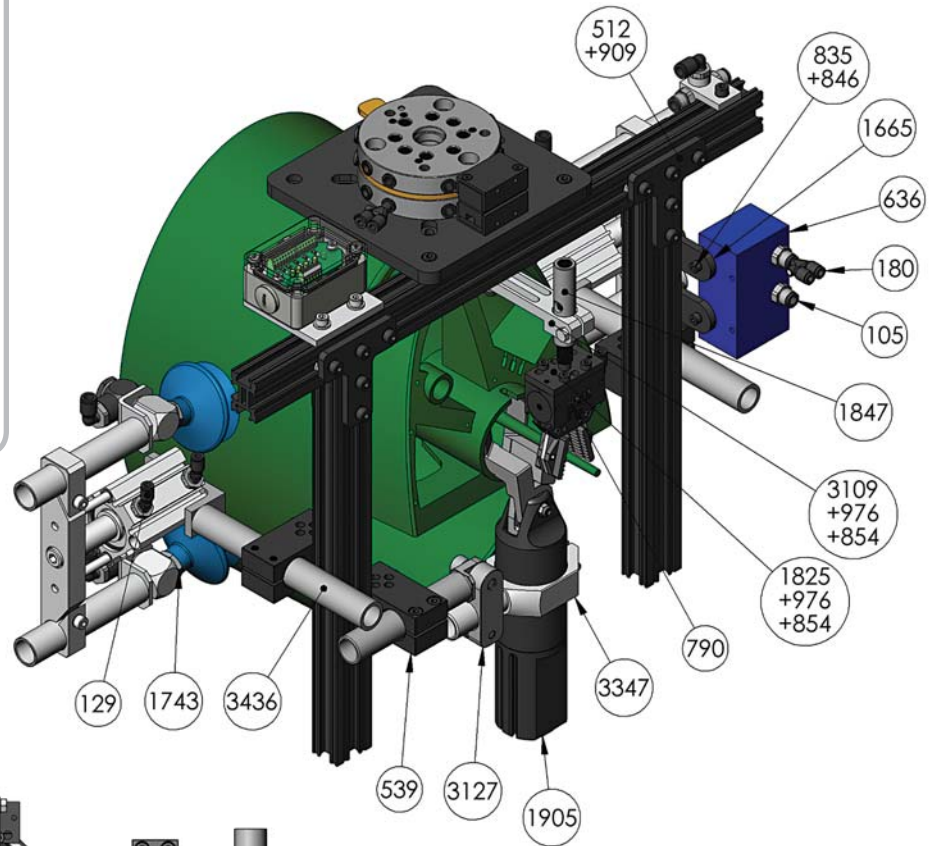
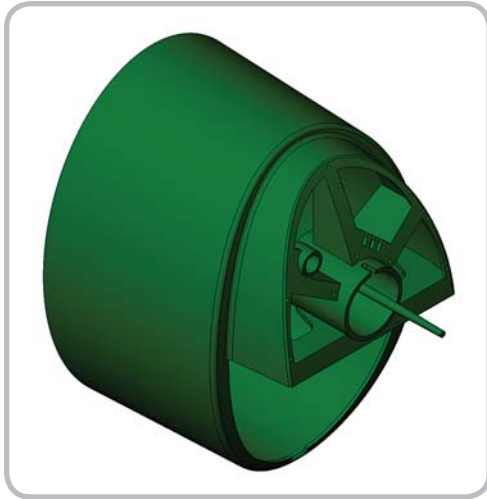
Simple EOAT using sprue grippers



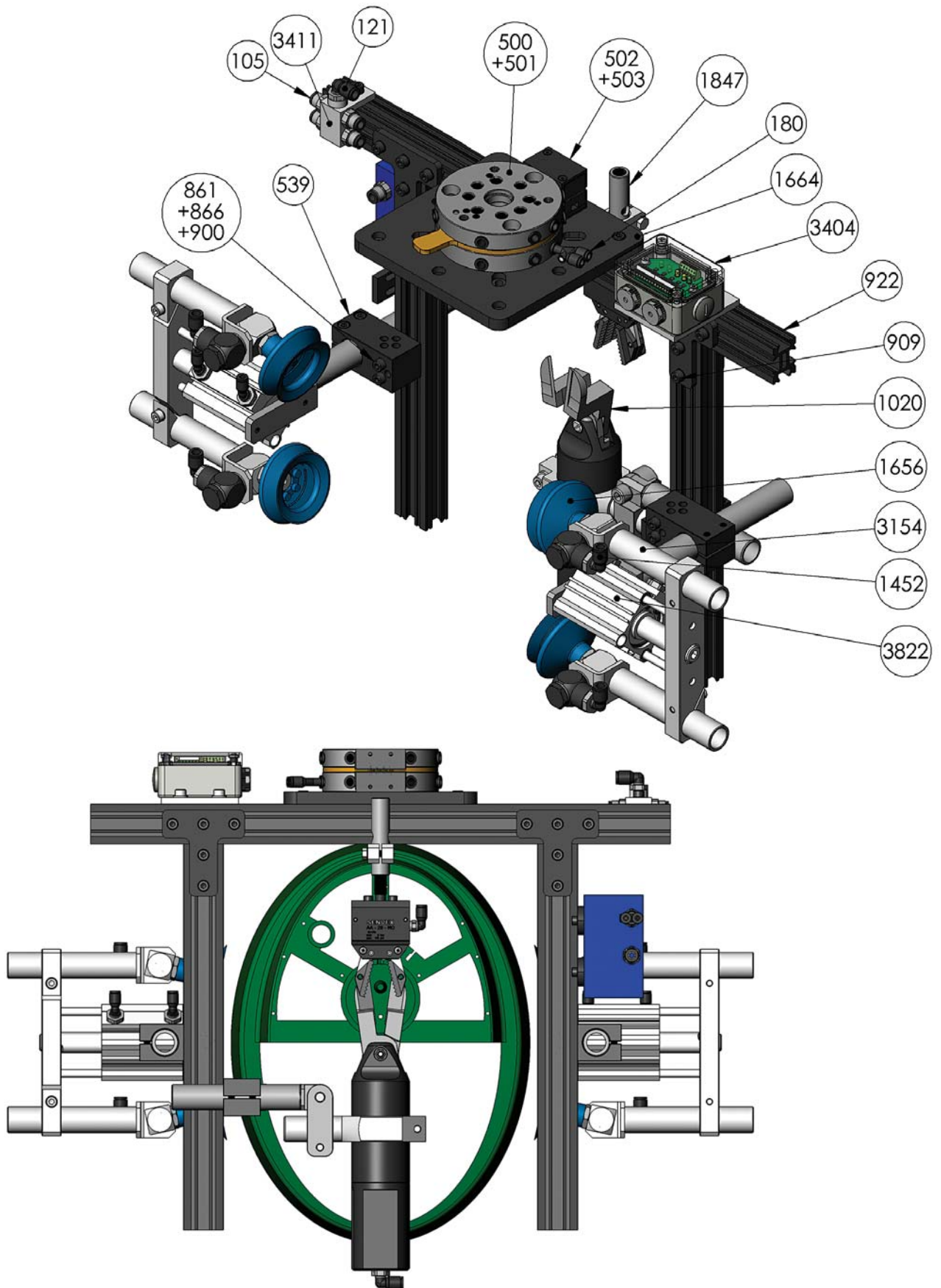
Simple EOAT using sprue grippers



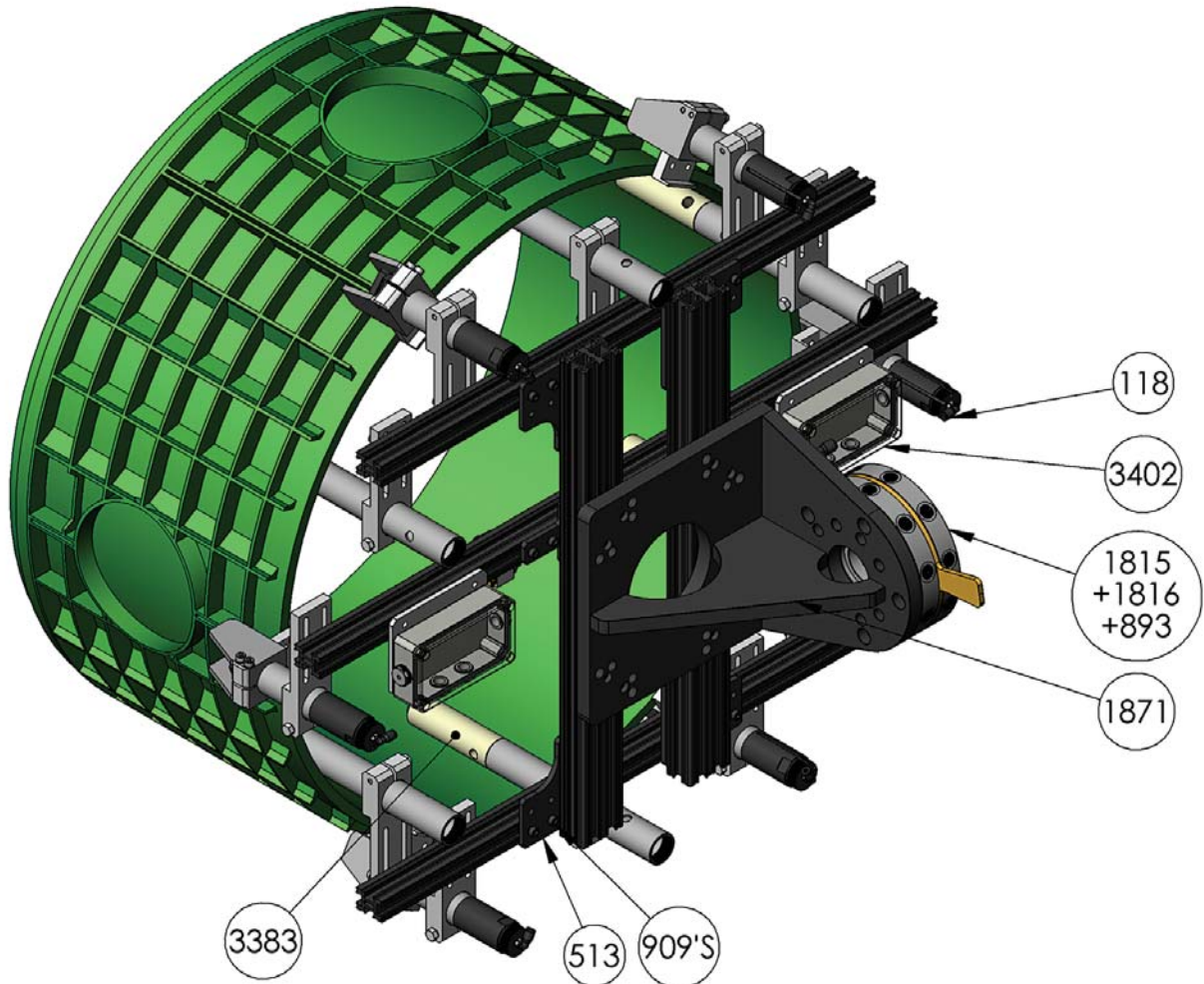
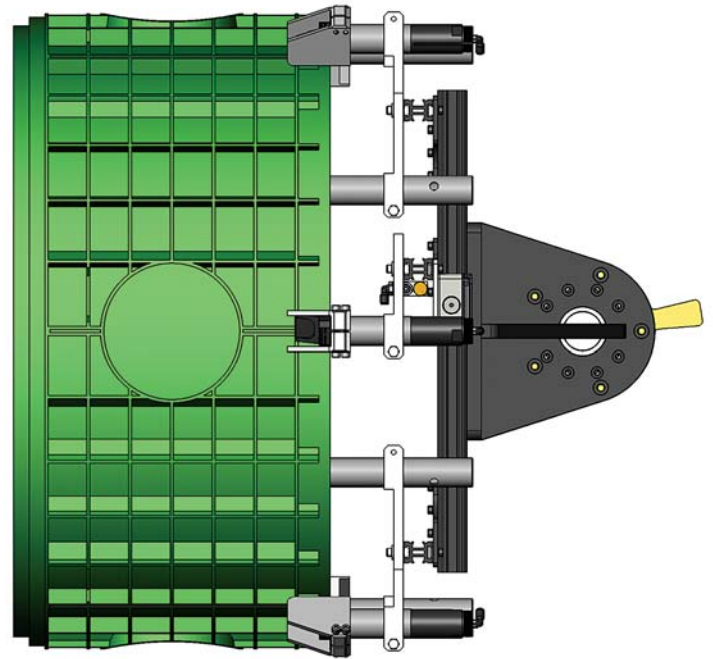
Offset nipper blade to degate inside of part



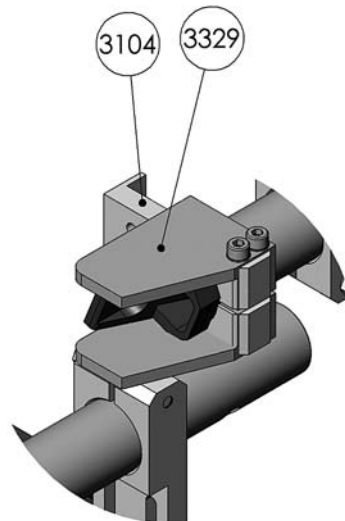
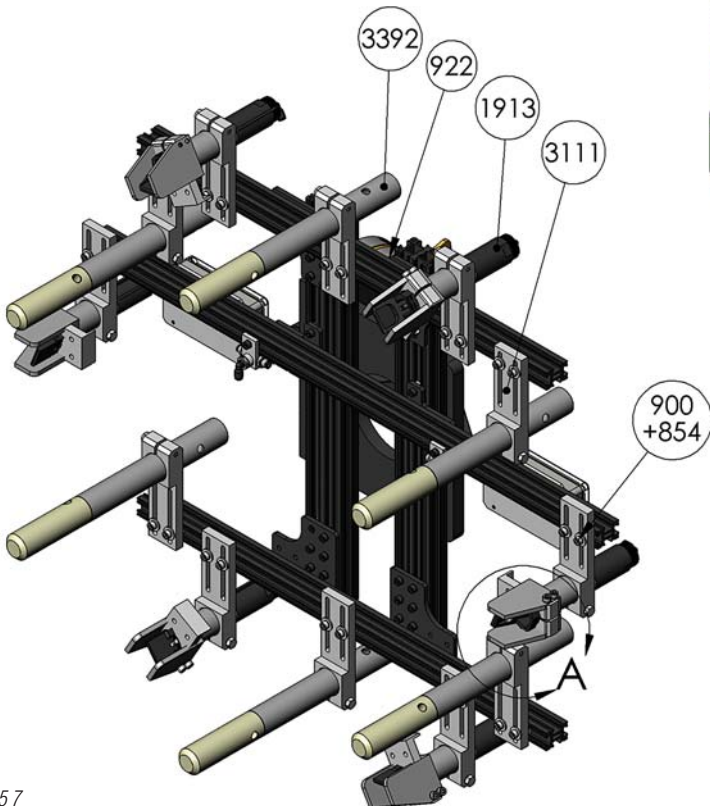
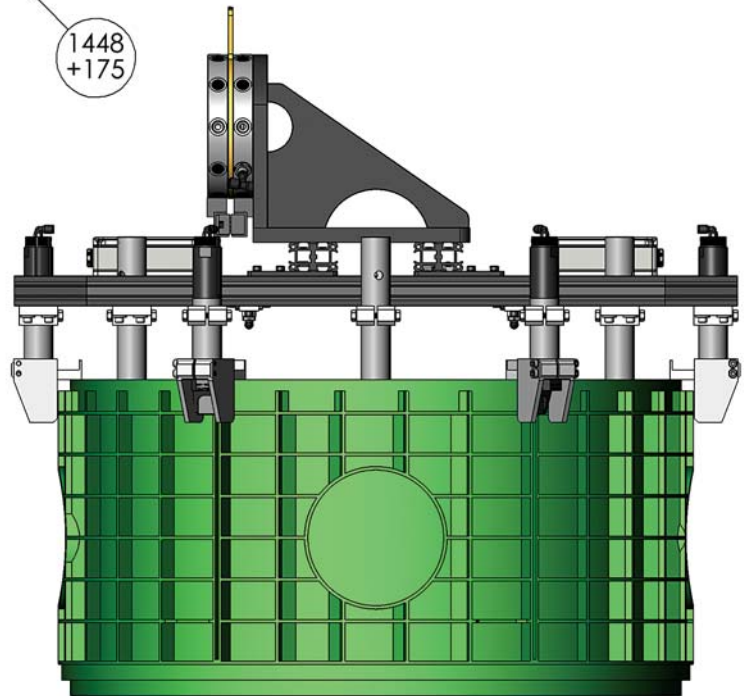
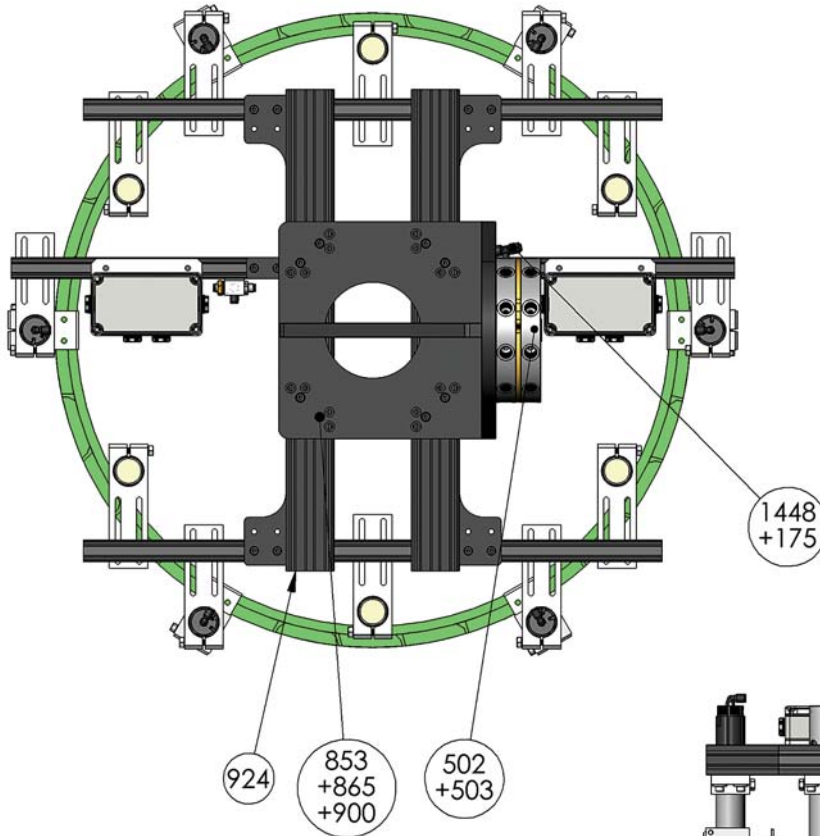
Offset nipper blade to degate inside of part



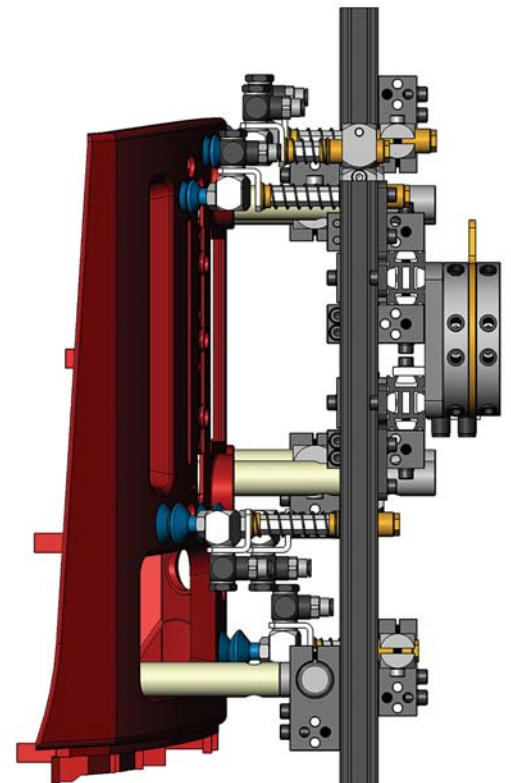
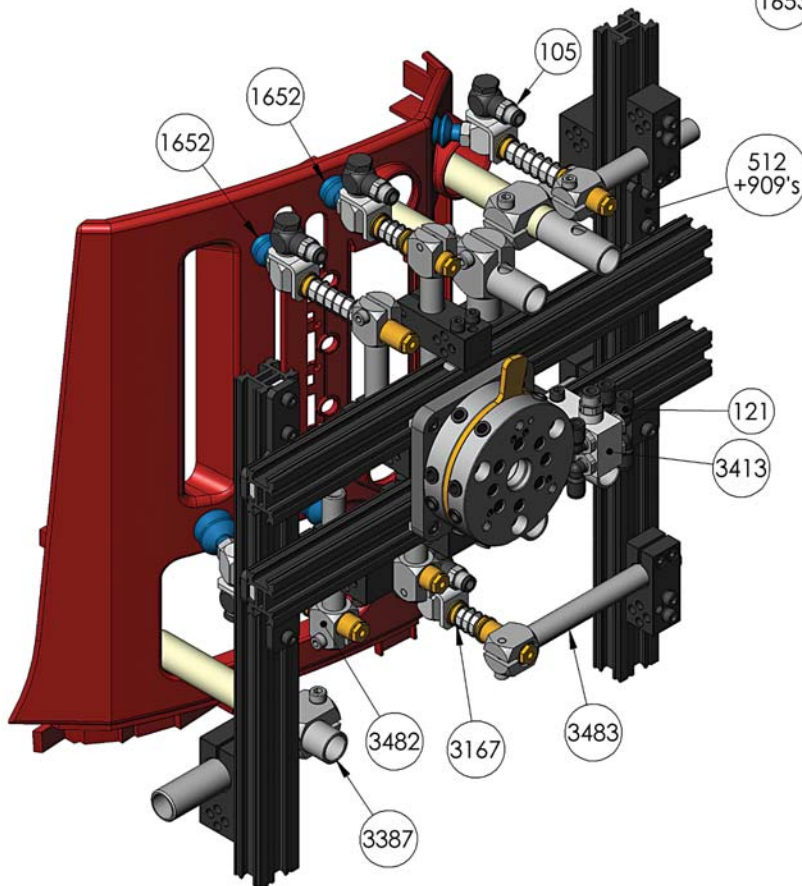
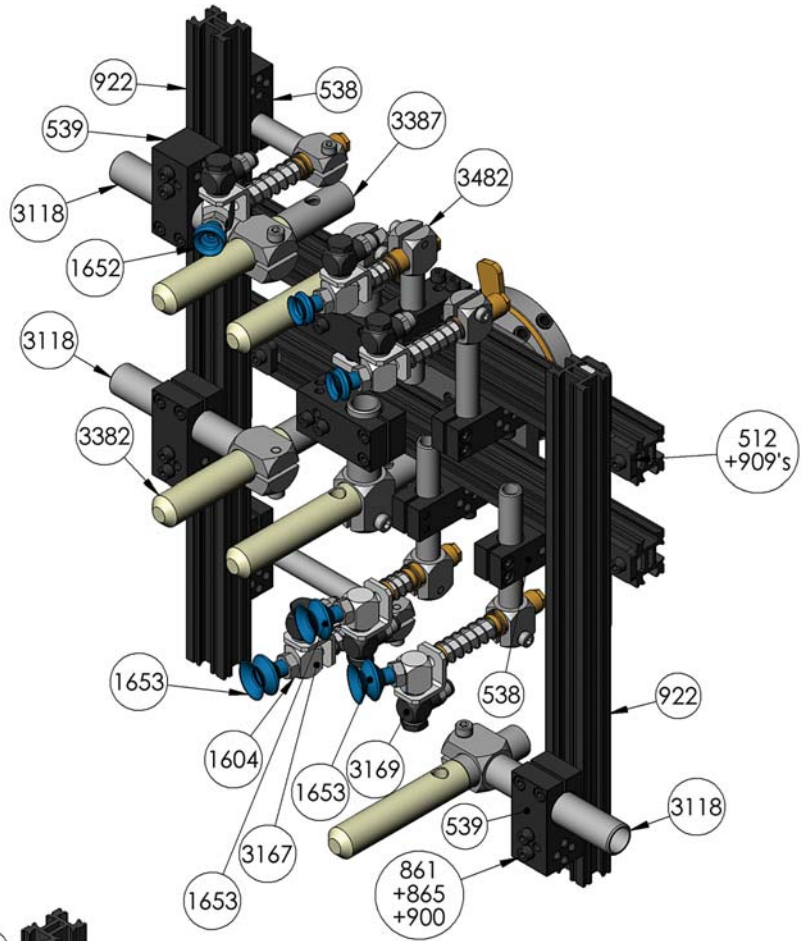
Only 3" of part exposed outside mold to grab onto—use finger grippers



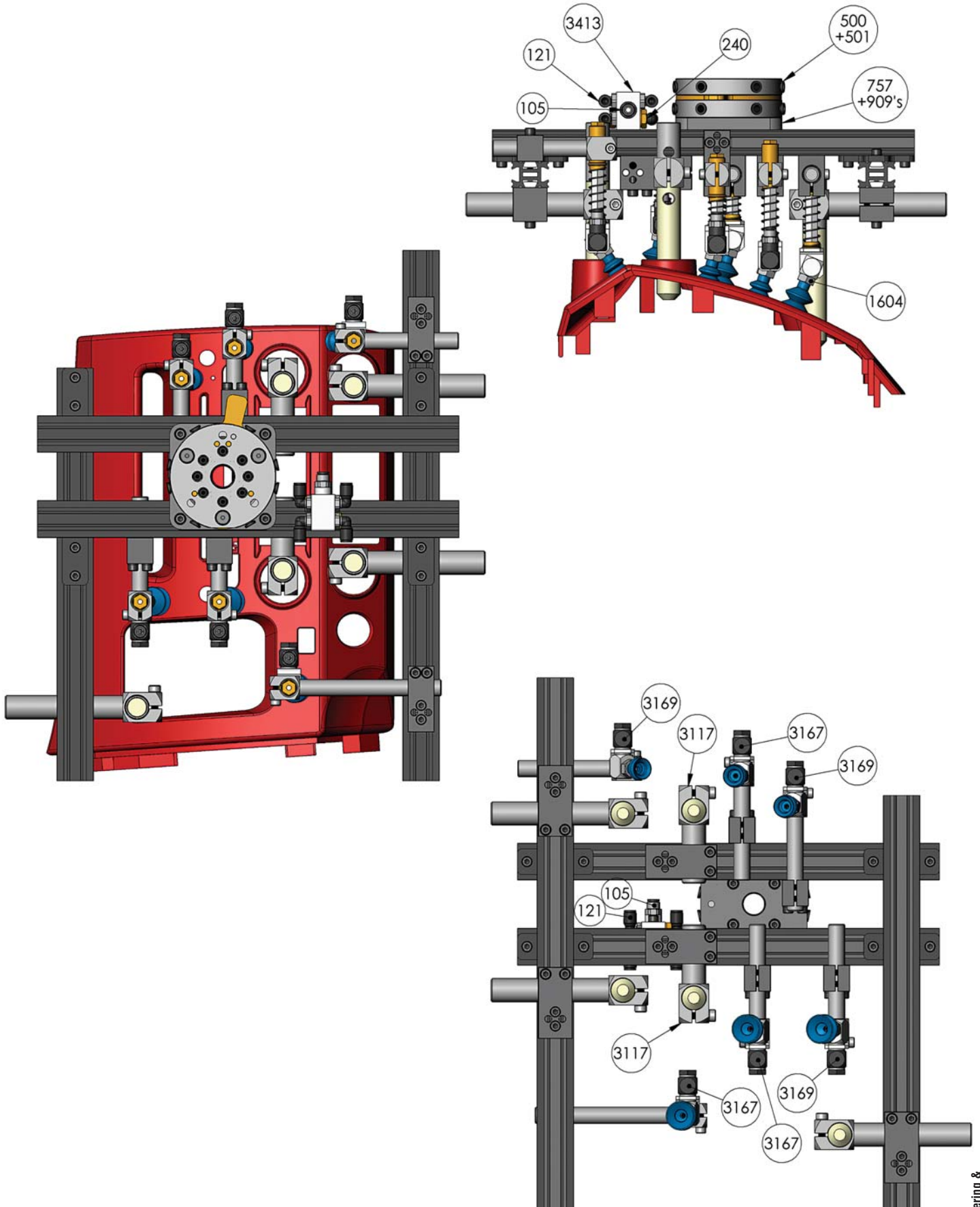
Only 3" of part exposed outside mold to grab onto—use finger grippers



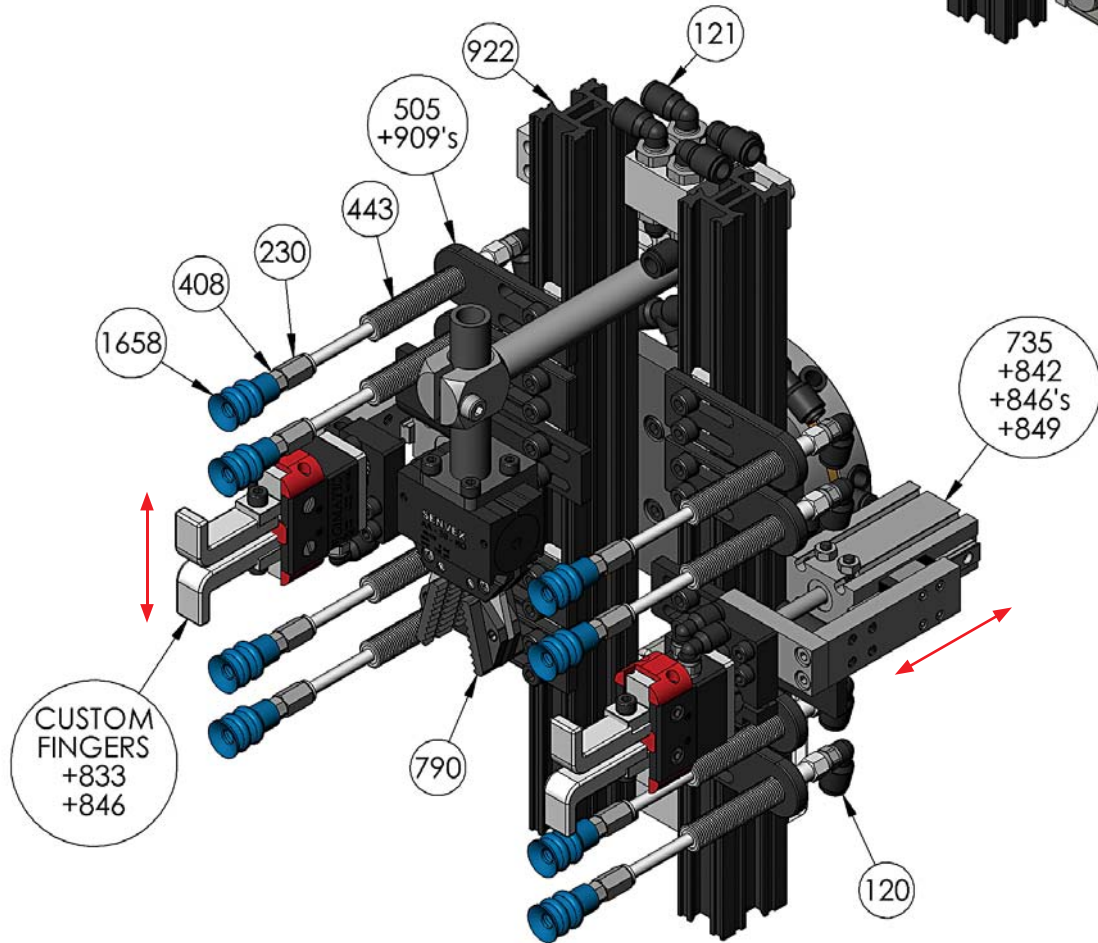
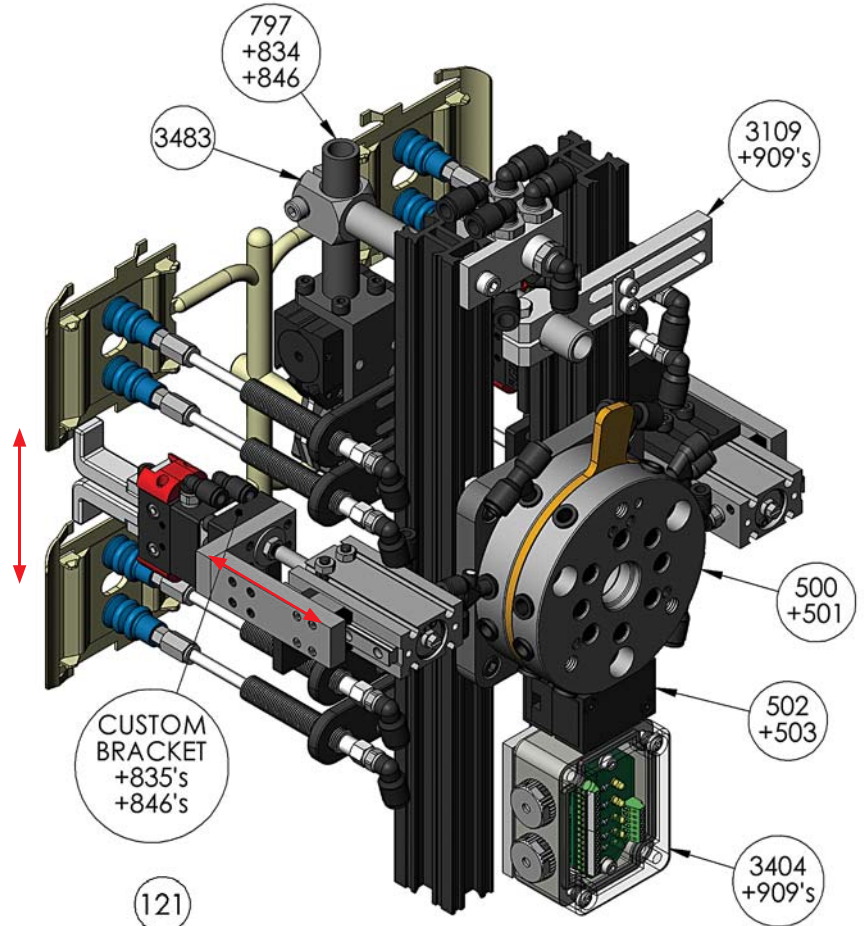
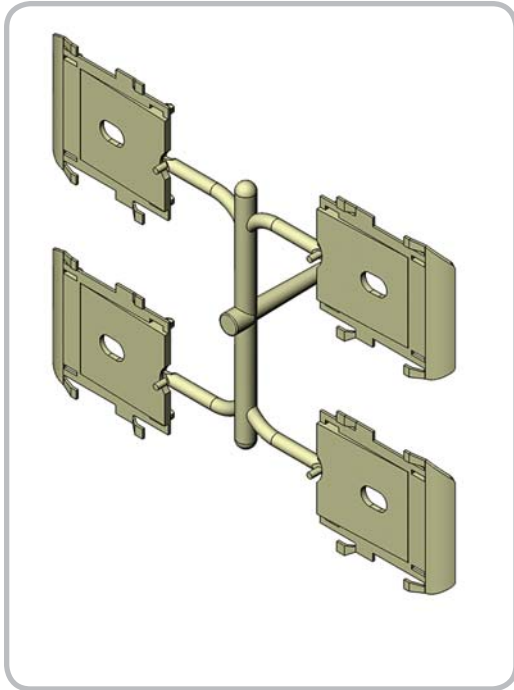
Using centering pins in combination with vacuum cups to provide part stability



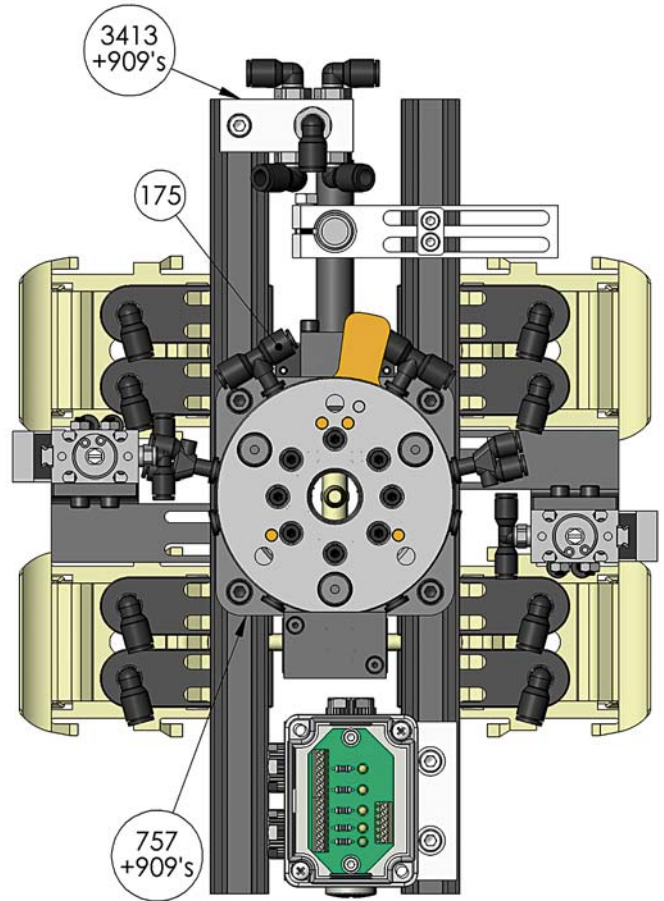
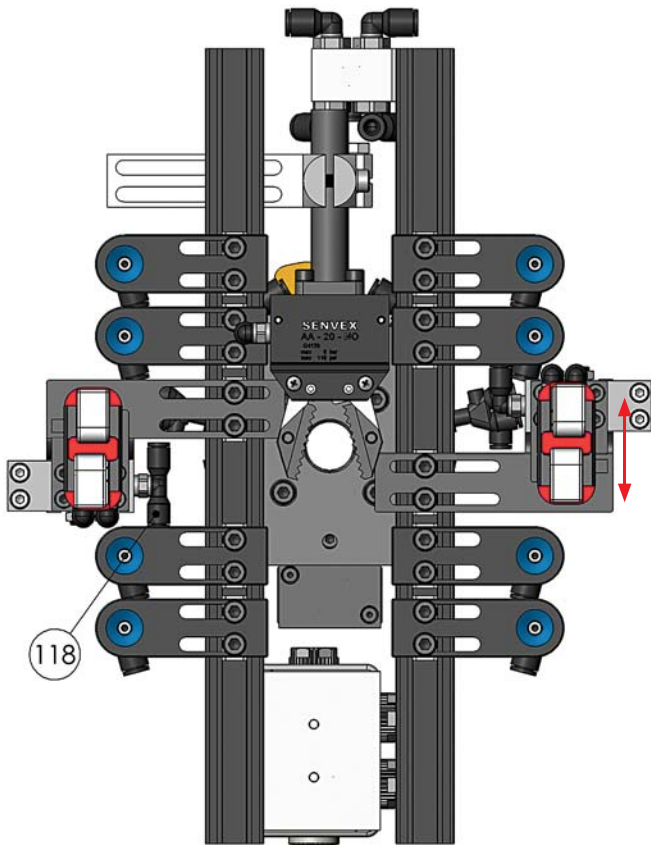
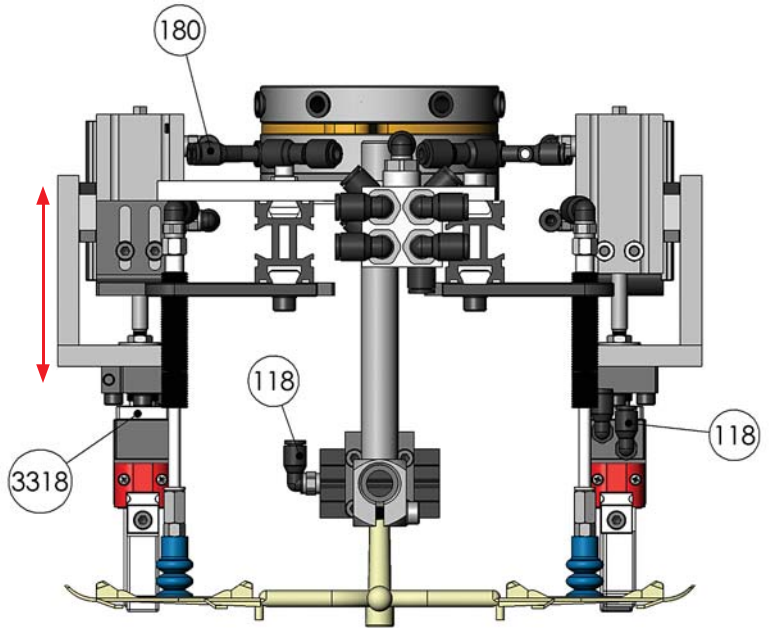
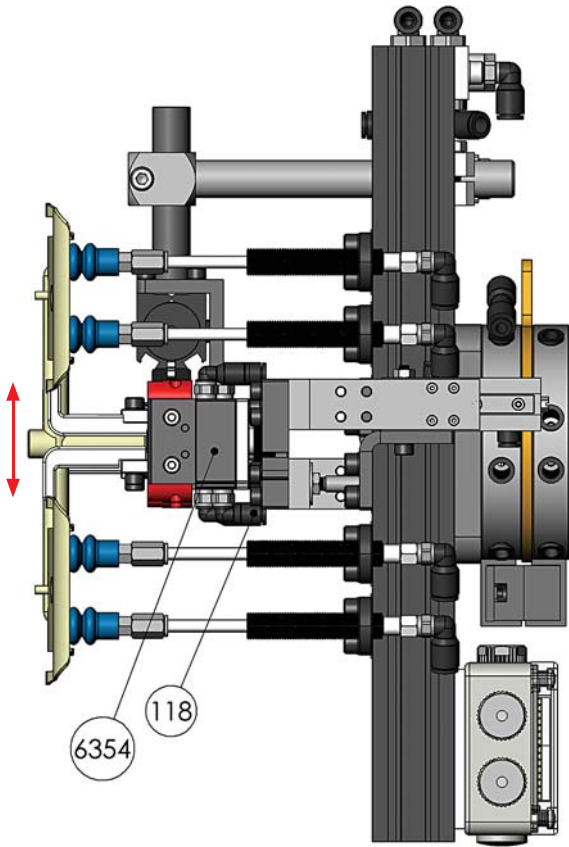
Using centering pins in combination with vacuum cups to provide part stability



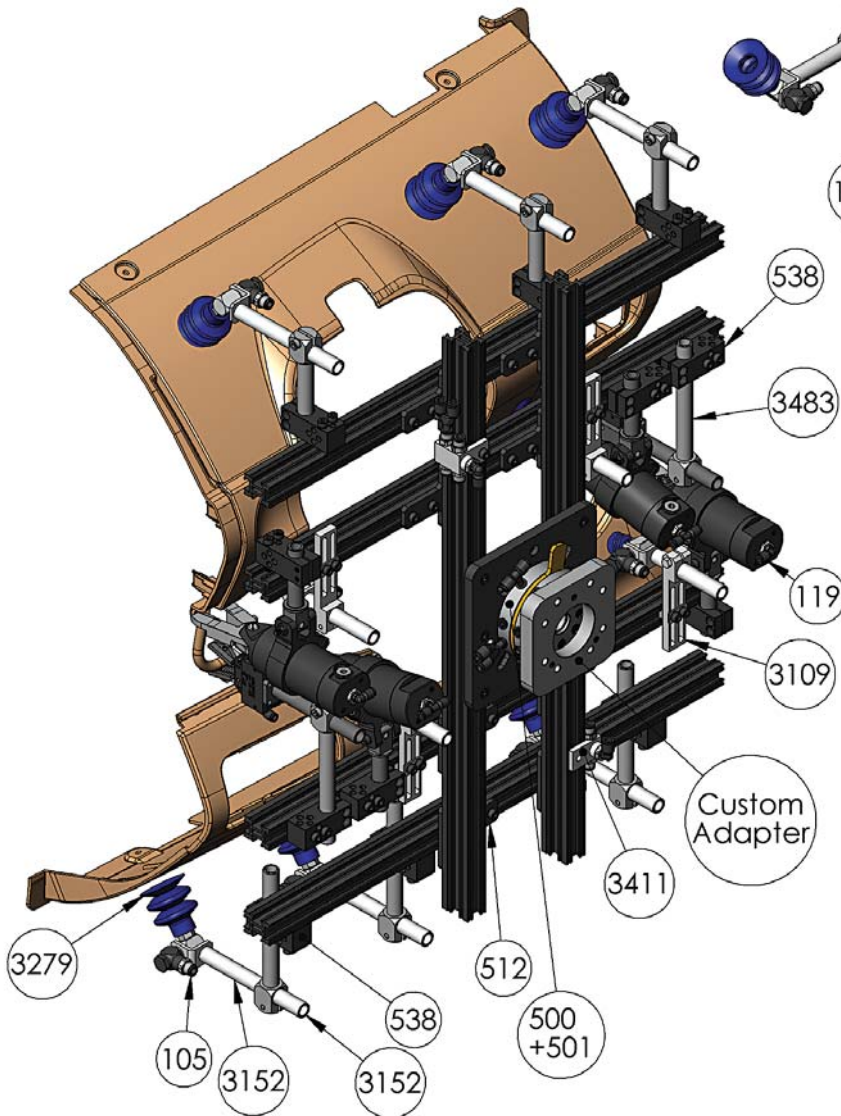
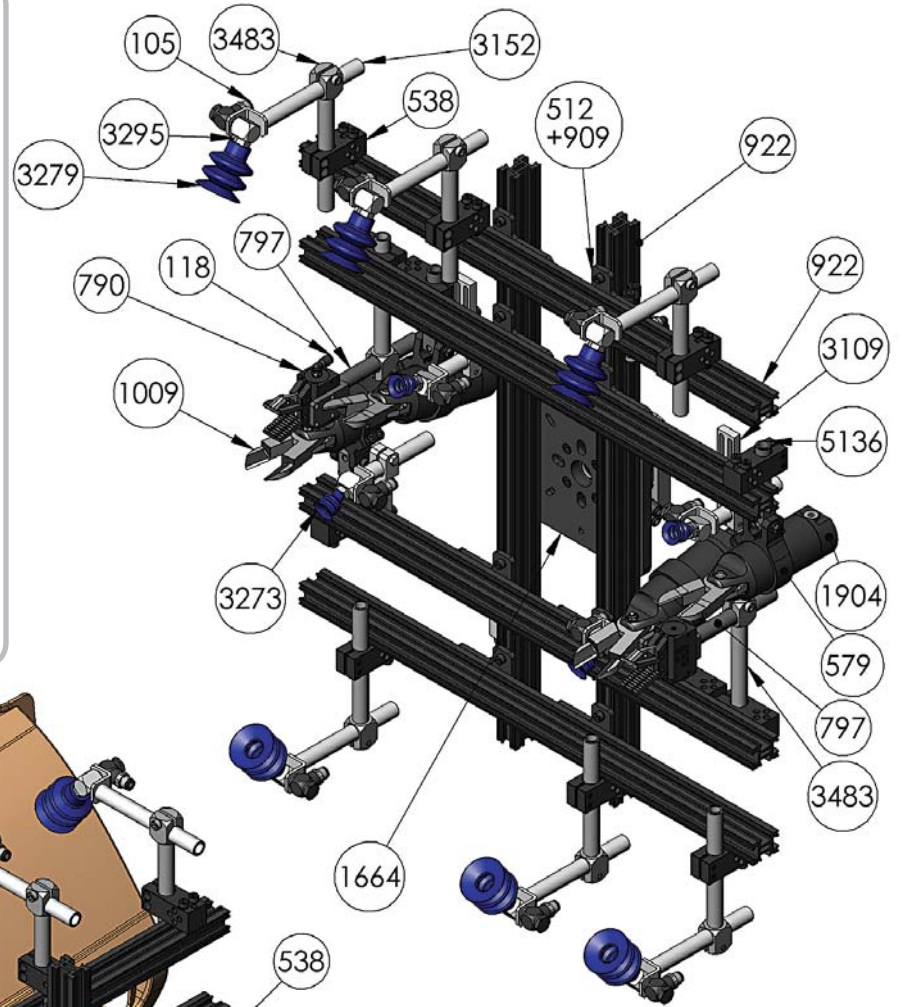
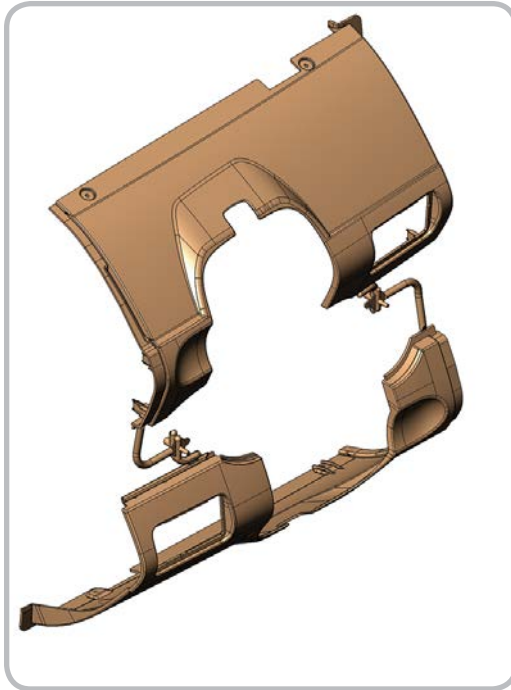
Degating using grippers to 'snap' parts from runners



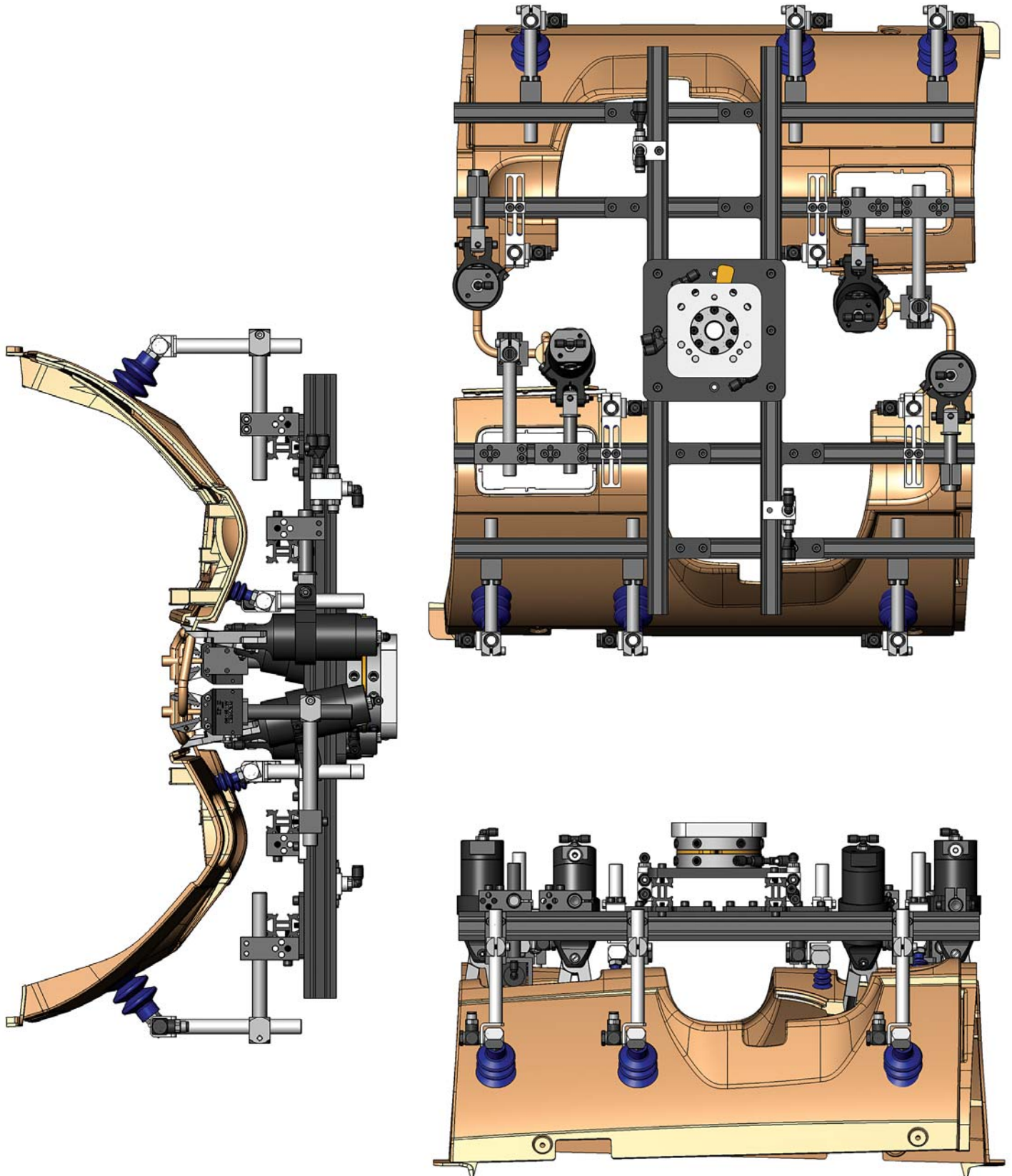
Degating using grippers to 'snap' parts from runners



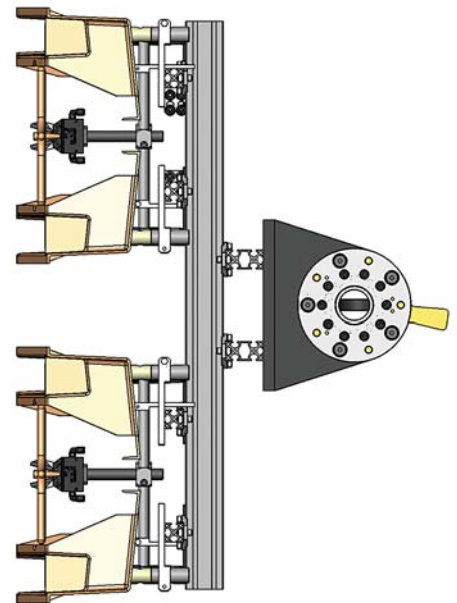
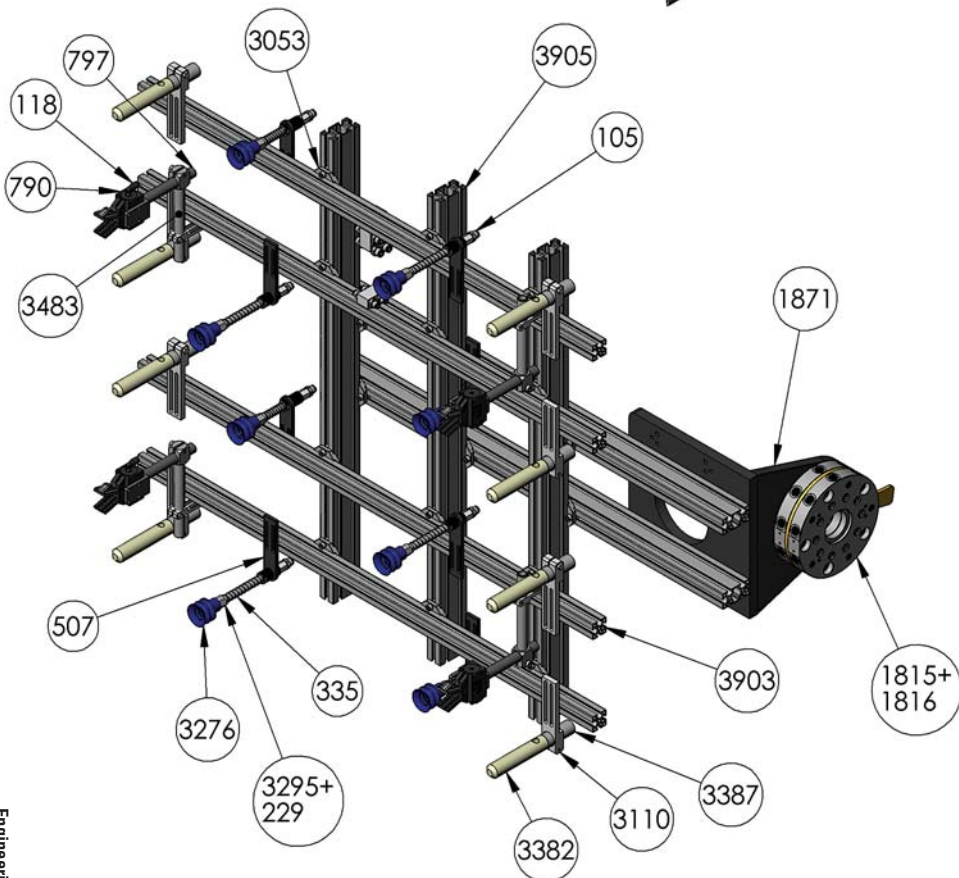
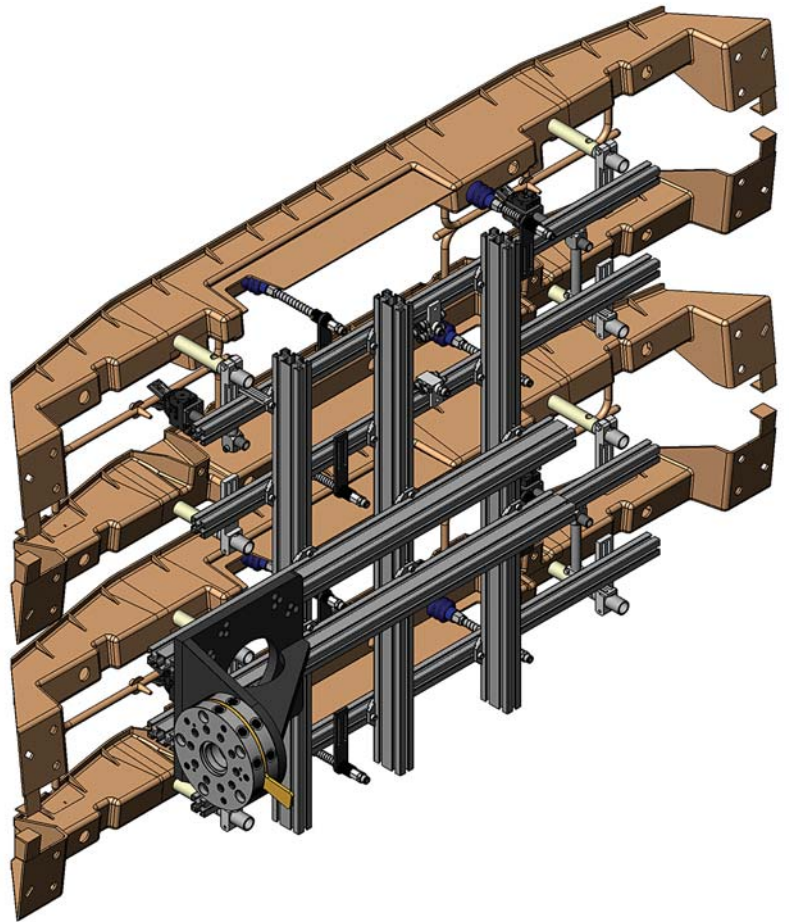
Degating on the EOAT



Degating on the EOAT



EOAT with 6-axis adaptor and quick changer



EOAT with 6-axis adaptor and quick changer

