Geometry combination			Tangent	Align	Orient
Planar face		Planar face	Planar faces are aligned in the same plane.	Planar faces are aligned in the same plane.	Planar faces are oriented so they are parallel.
	+				parallel.
Planar face		Cylinder face	Planar face is aligned tangent to the cylinder.	Planar face and the axis of the cylinder are aligned.	Planar face and axis of cylinder are oriented in the same direction.
	+			diffica.	the same an ection.
Planar face		Conical face	n/a	n/a	Planar face and axis of conical face are oriented
	+				in the same direction.
Planar face		Spherical face	Planar face is aligned to the center point of	Planar face and center of sphere are aligned in	n/a
	+		sphere.	the same plane.	
Planar face		Edge	Planar face is aligned tangent to edge.	Planar face and edge are aligned in the same	Planar face and edge are oriented so the edge is
	+			plane.	perpendicular to the face.
Planar face		Datum plane	Planar face is aligned tangent to plane.	Planar face and datum plane are aligned in the	Planar face and datum plane are oriented so
	+	$\bigcirc$		same plane.	they are parallel.
Planar face		Axis	Planar face is aligned tangent with the axis.	Planar face is aligned with the axis in the same	Planar face and axis are oriented so axis is
	+	```		plane.	perpendicular to the face.
			Planar face is aligned tangent to a sketch	Planar face and sketch curve are aligned in the	Planar face and linear sketch curve are
Planar face		Sketch curve	curve. Only works with linear and arc sketch	same plane.	oriented so the sketch curve is perpendicular to
	+		curves.		the face. Planar face and non-linear sketch curve are oriented so sketch curve is in the plane of the face.
Planar face		Point	Planar face is aligned to the point.	Planar face and point are aligned in the same	n/a
	+	•		plane.	
Cylinder face		Cylinder face	Cylinders are aligned tangent to each other.	Cylinders are aligned along their axes.	Cylinders are oriented so their axes are parallel.
	+				·

Geometry combination			Tangent	Align	Orient
Cylinder face	+	Spherical face	Cylinder is aligned tangent to the sphere.	Cylinder axis and center point of sphere are aligned.	n/a
Cylinder face	+	Conical face	n/a	Axes of cylinder and cone are aligned.	Cylinder and cone are oriented so their axes are parallel.
Cylinder face	+	Edge	Cylinder is aligned tangent to edge.	Cylinder axis and edge are aligned. Only works with linear edge.	Cylinder axis and linear edge are oriented so they are parallel. Cannot create condition between cylinder and non-linear edge.
Cylinder face	+	Datum plane	Cylinder is aligned tangent to plane.	Cylinder axis is aligned in the plane of the datum plane.	Cylinder is oriented so its axis is parallel to datum plane.
Cylinder face	+	Axis	Cylinder is aligned tangent to axis.	Cylinder axis and axis are aligned in the same direction.	Cylinder axis and axis are oriented so they are parallel.
Cylinder face	+	Sketch curve	Cylinder is aligned tangent to sketch curve. Only works with linear and arc sketch curves.	Cylinder axis is aligned parallel to the plane of the sketch curve.	Cylinder axis is oriented perpendicular to the plane of the sketch curve.
Cylinder face	+	Point	Cylinder is aligned tangent to point.	Cylinder axis and point are aligned.	n/a
Spherical face	+	Spherical face	Spheres are aligned tangent to each other.	Centers of spheres are aligned.	n/a
Spherical face	+	Edge	Sphere is aligned tangent to edge.	Spherical face and edge are aligned. Only works with linear edge.	n/a
Spherical face	+	Datum plane	Sphere is aligned tangent to plane.	Center of sphere and plane are aligned.	n/a

Geometry combination			Tangent	Align	Orient
Spherical face		Axis	Sphere is aligned tangent to axis.	Center of sphere is aligned with axis.	n/a
	+				
Spherical face		Sketch curve	Sphere is aligned tangent to the plane of the sketch curve. Only	Spherical face and sketch curve are aligned. Only works with linear	n/a
	+		works with linear and arc sketch curves.	and arc sketch curves.	
Spherical face		Point	Sphere is aligned tangent to point.	Center of sphere is aligned with the point.	n/a
	+	•			
Edge		Edge	Edges are aligned. Only works with linear edges.	Edges are aligned. Only works with linear edges.	Edges are oriented so they are parallel. Constraint is only
	+				available when you select two linear edges.
Edge		Datum plane	Edge is aligned tangent to the datum plane.	Edge is aligned in the same plane as the	Edge is oriented perpendicular with the
	+	$\bigcirc$	Only works with linear edges.	datum plane. Only works with linear edges.	datum plane. Constraint is only available when you select a linear edge.
Edge		Axis	Edge is aligned tangent to axis.	Edge is aligned with axis. Constraint is only	Edge and axis are oriented so they are
	+			available when you select two linear edges.	parallel. Constraint is only available when you select a linear edge.
Edge		Sketch curve	Edge aligned tangent to the plane of the sketch curve. Only works with	Edge is aligned with sketch curve. Only works with linear sketch	Edge is oriented parallel with sketch curve. Constraint is only
	+		linear and arc sketch curves.	curves.	available when you select a linear edge and a linear sketch curve.
Edge		Point	Edge is aligned tangent to point.	Edge and point are aligned. Constraint is	n/a
	+	•		only available when you select two linear edges.	
Datum plane		Datum plane	Datum planes are aligned so they are	Datum planes are aligned in the same	Datum planes are oriented so they are
	+		coplanar.	plane.	parallel.
Datum plane		Axis	Datum plane is aligned tangent to axis.	Datum plane is aligned in the same plane as the	Datum plane is oriented so the axis is
	+			axis.	perpendicular to the plane.

Geometry o	oml	oination	Tangent	Align	Orient
Datum plane	+	Sketch curve	Datum plane is aligned tangent with the plane of the sketch curve. Only works with linear and arc sketch curves.	Datum plane is aligned with point in the plane.	Datum plane and linear sketch curve are oriented so the sketch curve is perpendicular to the face. Datum plane and non-linear sketch curve are oriented so sketch curve is in the plane of the face.
Datum plane	+	Point	Datum plane is aligned with the point in the plane.	Datum plane is aligned with point in the plane.	n/a
Axis	+	Axis	Axes are aligned along the same trajectory.	Axes are aligned along the same trajectory.	Axes are oriented so they are parallel.
Axis	+	Sketch curve	Axis is aligned tangent to the plane of the sketch curve. Only works with linear and arc sketch curves.	Axis is aligned with the linear sketch curve. Constraint is only available when you select two linear sketch curves.	Axis and linear sketch curve are oriented so they are parallel. Axis and non-linear sketch curve are oriented so axis is perpendicular to the plane of the sketch curve.
Axis	+	Point	Axis is aligned so the point lies along the axis' trajectory.	Axis is aligned with the point.	n/a
Sketch curve	+	Sketch curve	Sketch curves are aligned so they are tangent. Only works with linear sketch curves.	Sketch curves are aligned in the plane of the curves.	Two linear sketch curves are oriented so they are parallel. One linear and one non-linear sketch curve are oriented so the linear sketch curve is perpendicular to the plane of the non-linear sketch curve.
Sketch curve	+	Point	Sketch curve is aligned so the point lies inside the curve.	Sketch curves are aligned in the plane of the curve.	n/a
Point	+	Point	Points are aligned so they are in the same location.	Points are aligned .	n/a

Rigid constraints can be created with any combination of two objects (excluding points). This constrains the two objects so they will not move relative to each other.

Anchor constraints can be created with any single object. The object will be anchored in space so it (or its parent object) cannot be translated or rotated.

Geometry combination		Gear		
Planar face	Cylinder face	If neither is anchored or the cylinder is anchored, the planar face moves in a linear direction when the cylinder rotates. If the		
+		planar face is anchored, the cylinder rotates along the plane.		
Planar face	Conical face	If neither is anchored or the conical face is anchored, the planar face moves in a linear direction when the conical face rotates. If the planar face is anchored, the		
+		conical face rotates along the plane.		
Cylinder face	Cylinder face	The cylinders rotate around each other. Right-click the constraint in the Structure tree and select Reverse Sense and the two gears will move in the same direction as if connected by a belt.		
+	(0)	same ancedion as it connected by a serie		
Cylinder face	Conical face	The cylinder and the conical face rotate around each other.		
+				
Datum plane	Cylinder face	If neither is anchored or the cylinder is anchored, the plane moves in a linear direction when the cylinder rotates. If the plane is anchored, the cylinder		
+		rotates along the plane.		
Datum plane	Conical face	If neither is anchored or the conical face is anchored, the plane moves in a linear direction when the conical face rotates. If the plane is anchored, the conical face rotates along the plane.		
→		conical face rotates along the plane.		

