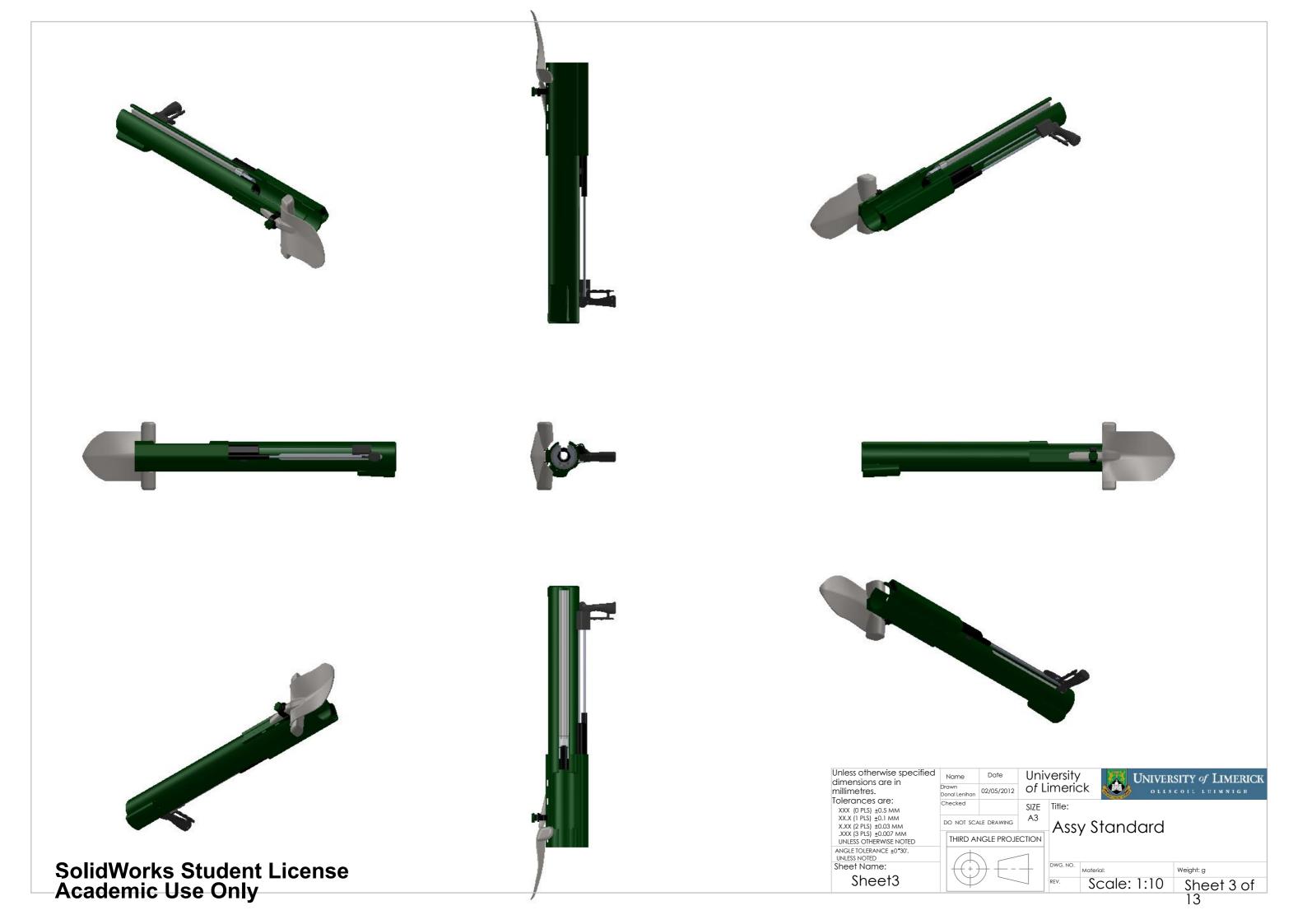
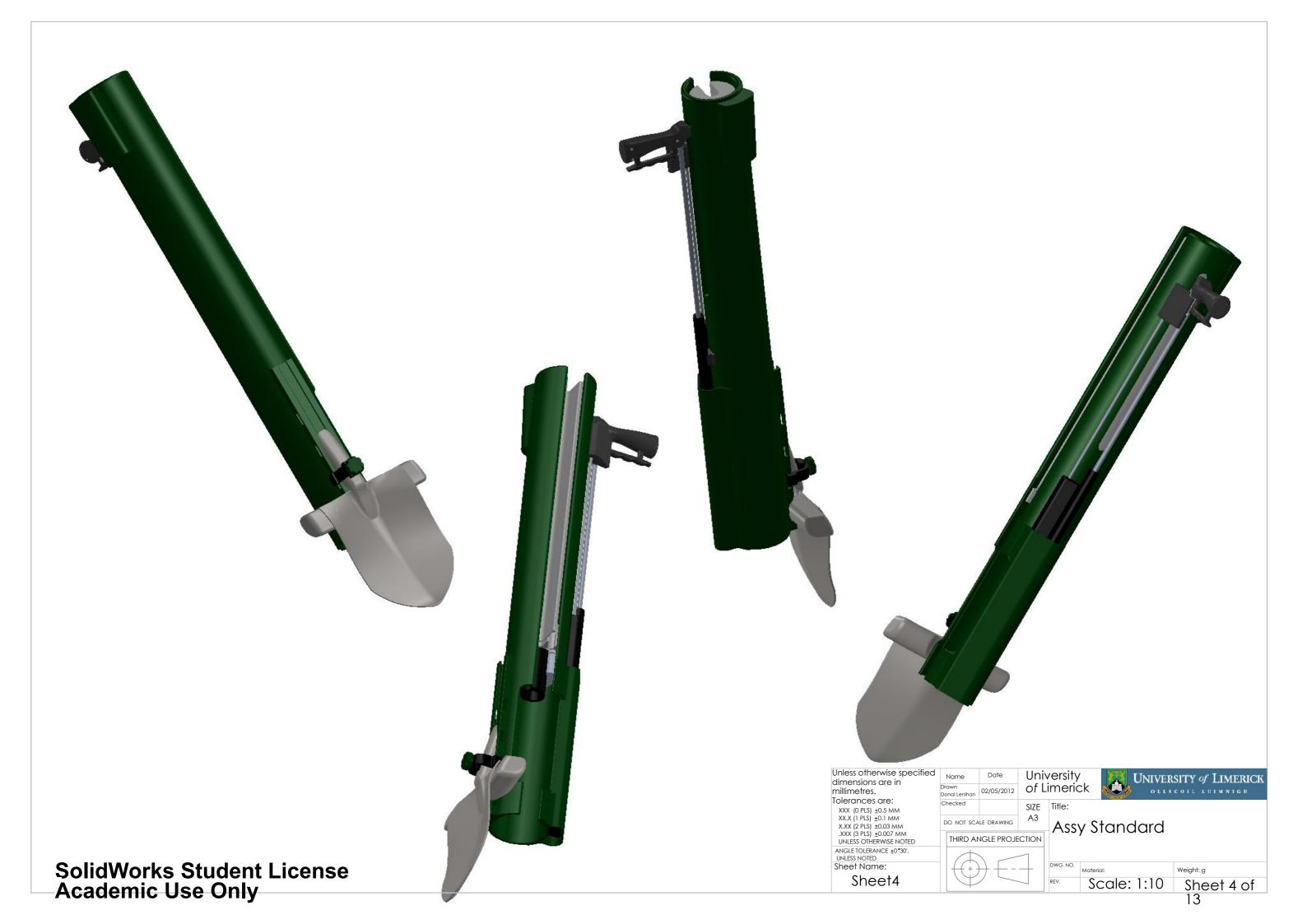
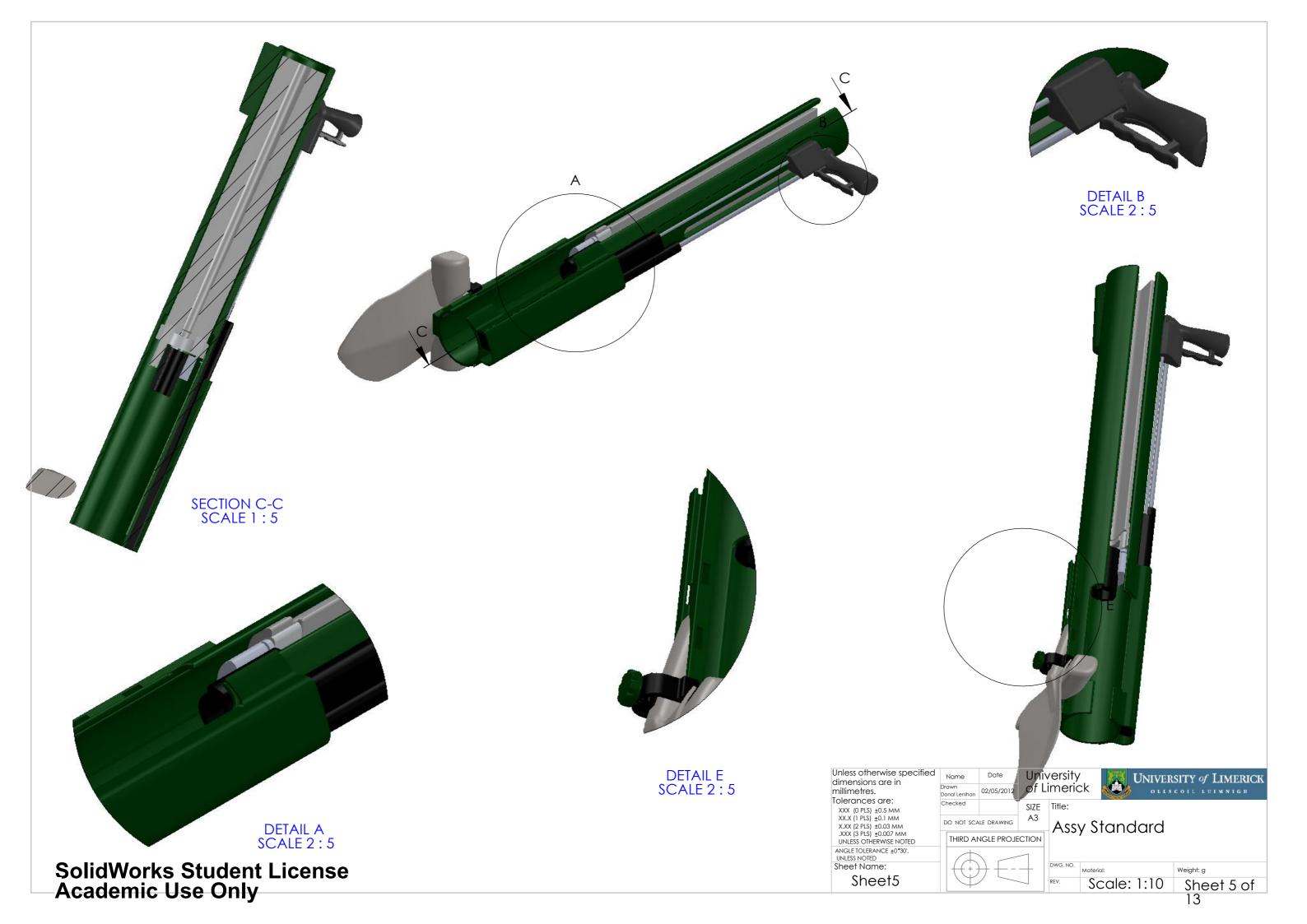


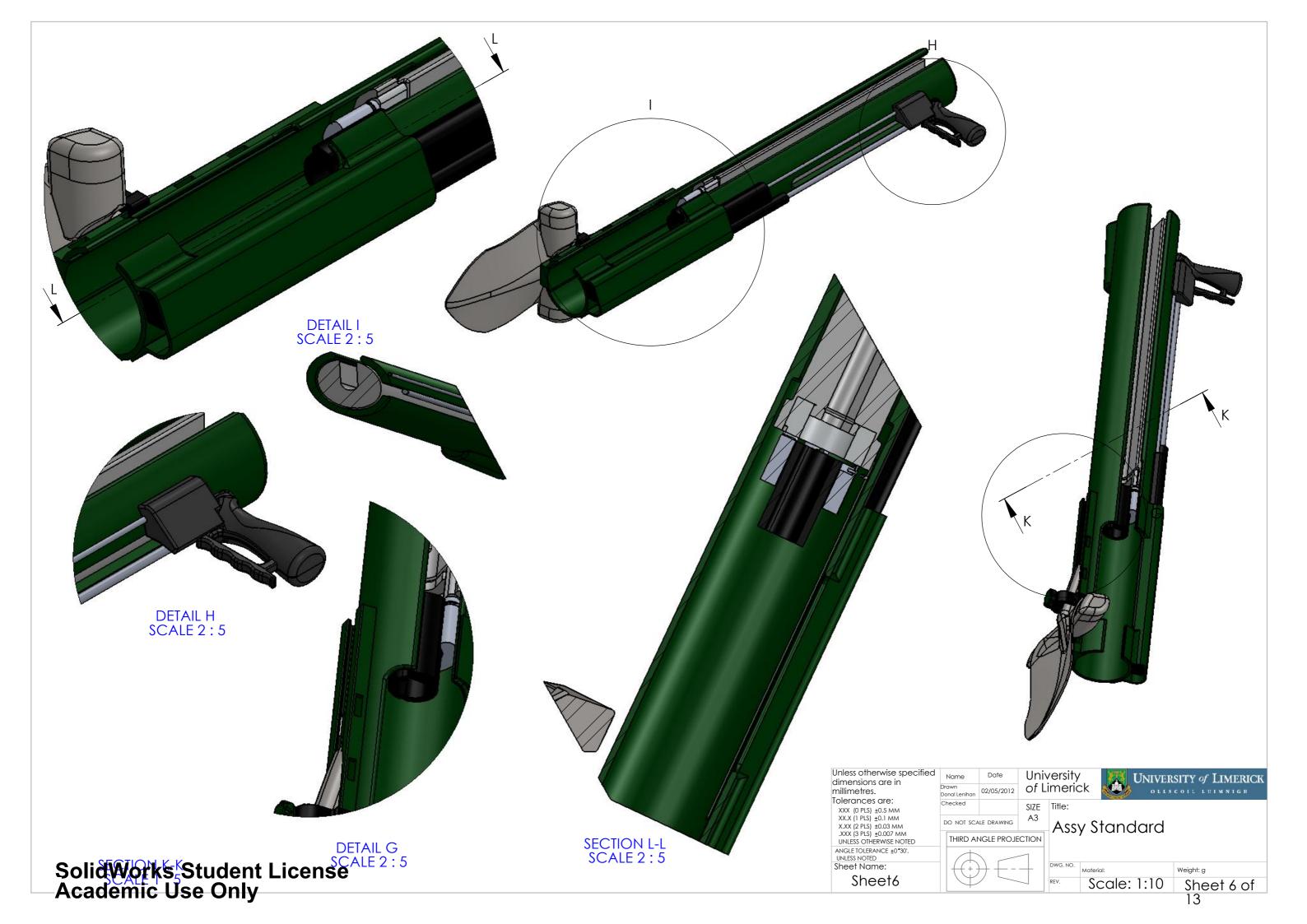
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	Manufacturing Process.
1	Catch Mechanism Sapling R	Catches sapling rubber right.	Aluminium	1	Aluminium Extrusion
2	Push Plate Catch Mechanism	Allows Catch Mechanism to swing open and close.	Aluminium	1	Aluminium Extrusion
3	Catch Mechanism Sapling L	Swings open to allow for insertion of sapling.	Aluminium	1	Aluminium Extrusion
4	Inside Core Sapling Planter	Inside body core of Chestnut Planter	Stainless Steel	1	Extrusion
5	Sapling Hold Rubber L	Catches sapling over root ball.	Rubber	1	Injection Molding
6	Sapling Hold Rubber R	Catches sapling over root ball.	Rubber	1	Injection Molding
7	Main Core Planting Mechanism	Main Frame of the Chestnut Planter.	Stainless Steel	1	Annealing
8	Main Body Gas Spring	Gas Spring frame for Main Push Bar.	Stainless Steel	1	_
9	Main Push Bar Gas Spring	Allows movement up and down of Sapling root and Handle.	Stainless Steel	1	_
10	Main adjacent catch bar	Mechanism that locks the Gas Spring in Place.	Stainless Steel	1	_
11	bolt	Bolt that goes through the Catch Mechanism.	Steel	2	Cold Rolled
12	Nut	Nut that locks Bolt in Place.	Steel	2	Cold Rolled
13	Second adjacent catch bar	Mechanism that locks the Gas Spring in Place.	Stainless Steel	1	_
14	Press open Handle	Opens Catch Mechanism.	Rubber	1	Injection Molding
15	handle frame Right	Handle Chestnut Planter.	Rubber	1	Injection Molding
16	handle frame Left	Handle Chestnut Planter.	Rubber	1	Injection Molding
17	Top Handle	Handle Chestnut Planter.	Stainless Steel	1	Extrusion
18	Solid Shaft	Holds Connector Cable.	Stainless Steel	1	Extrusion
19	Connector Cable	Opens Catch Mechanism.	Wire Rod	1	CNC Wire Coiling
20	shovel planter Mechanism	Digs hole in soil.	Sheet Steel	1	Sheet Forming
21	Shovel moving Mechanism	Adjust height of Shovel	Stainless Steel	1	Extrusion
22	Holding Bracket	Bracket in Moving Mechanism.	Carbon Steel	1	Extrusion
23	Leg support Shovel	Suport for Shovel.	Steel	1	Hot Forging
24	Leg support Shovel2	Suport for Shovel.	Steel	1	Hot Forging
25 26 27	Catch Cable wire	Link cable wire to handle.	Wire Rod	1	CNC Wire Coiling
26	Catch cable wire handle	Link cable wire to handle.	Carbon Steel		Extrusion
2/	Spring 1	Closes catch mechanism.	Stainless Steel	I	CNC Wire Coiling
28	Protective cover Catch mover	Ensures Catch cable Wire does not get Damaged.	Stainless Steel	1	Extrusion
29	bolt handle	Combines handle.	Steel	3	Cold Rolled
30	spring handle	Pushes press handle out.	Stainless Steel	2	CNC Wire Coiling
31	Protective plate	Protects parts of Planter.	Stainless Steel		Extrusion
32	Lock Shovel Mechanism-1	Closes into Moving Mechanism.	Carbon Steel		Extrusion
33	Lock Shovel Mechanism-2	Closes into Moving Mechanism.	Carbon Steel		Extrusion
34	Lock Shovel Mechanism-3	Locks 32, 33 in Place.	Carbon Steel	1	Extrusion
35 36	Lock Shovel Mechanism-4 Lock Shovel Mechanism-5	Bolts into Bracket. Holds Shovel in Place.	Carbon Steel Carbon Steel	<u> </u>   1	Extrusion Extrusion
50	LOCK SHOVEL MECHANISHES	TIOIGS STICKET ITT I ICCE.		nlass athan i isa saa aifi a	LATIUSIUTI

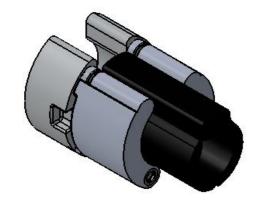
Unless otherwise specified Name University UNIVERSITY of LIMERICK dimensions are in of Limerick millimetres. Tolerances are: Checked SIZE Title: XXX (0 PLS) ±0.5 MM
XX.X (1 PLS) ±0.1 MM
X.XX (2 PLS) ±0.03 MM
.XXX (3 PLS) ±0.007 MM
UNLESS OTHERWISE NOTED A3 DO NOT SCALE DRAWING THIRD ANGLE PROJECTION ANGLE TOLERANCE ±0°30', UNLESS NOTED Sheet Name: Material: Weight: g Sheet2 Scale: 1:20 Sheet 2 of

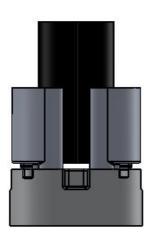


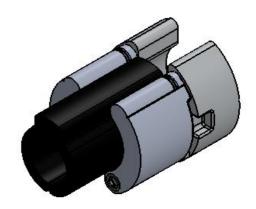


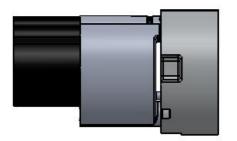




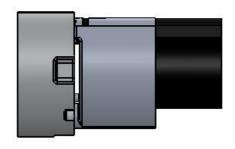


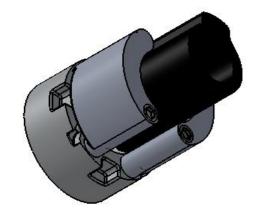


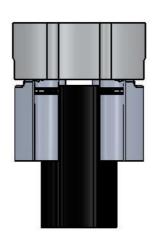


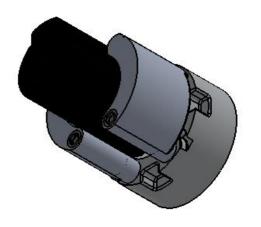


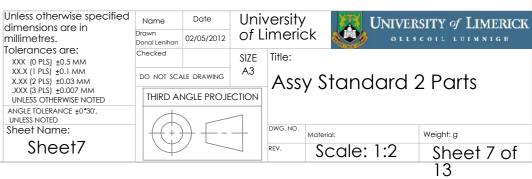


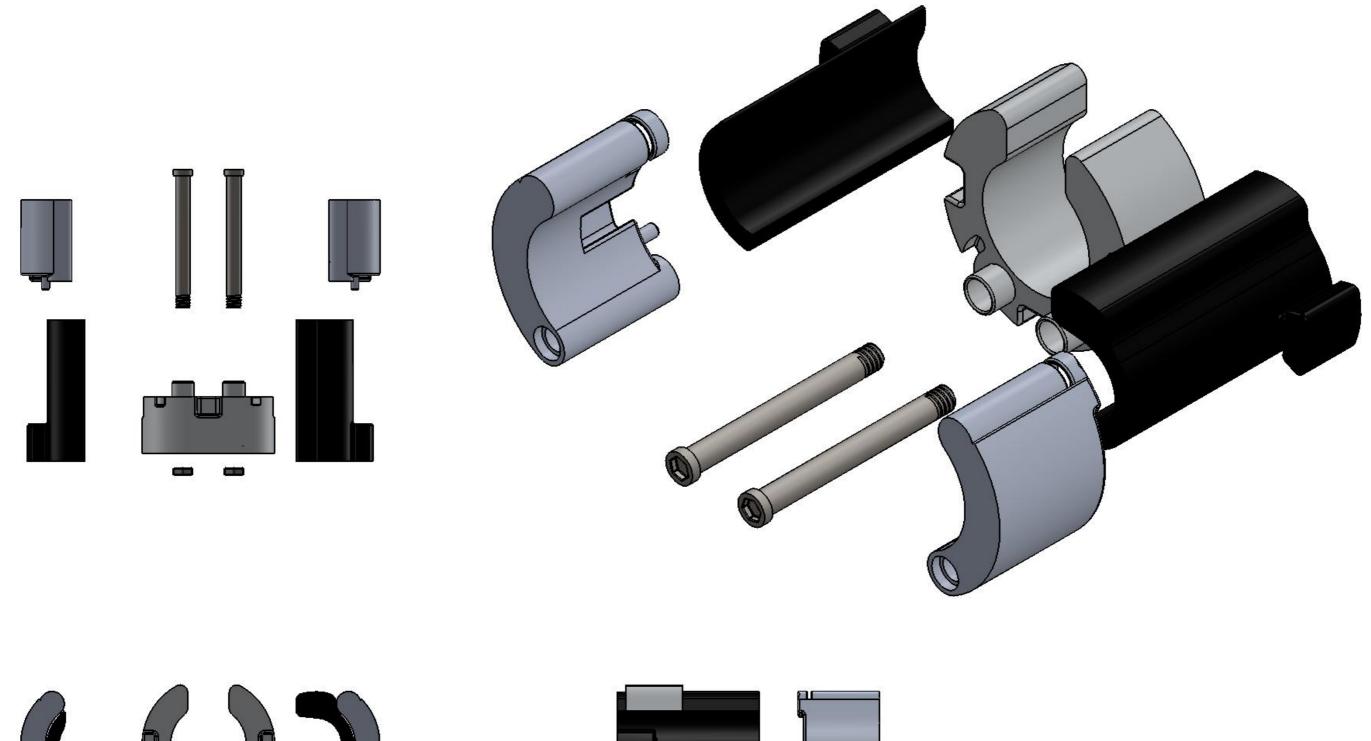




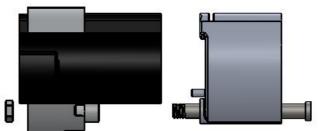


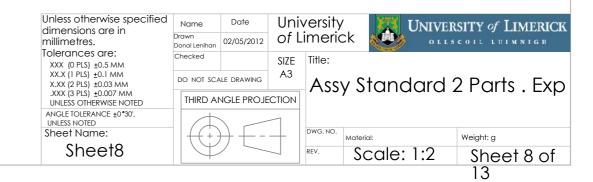


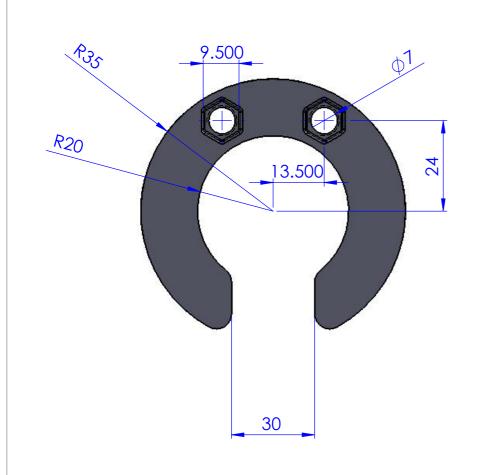


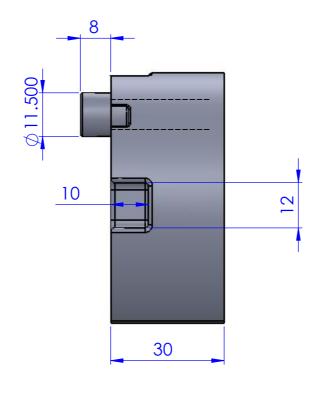


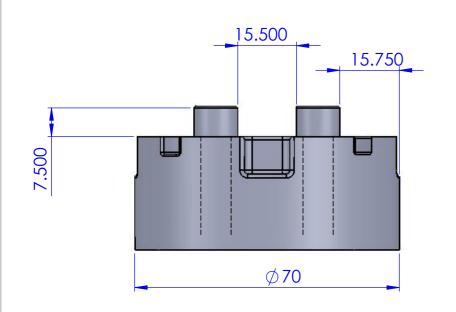


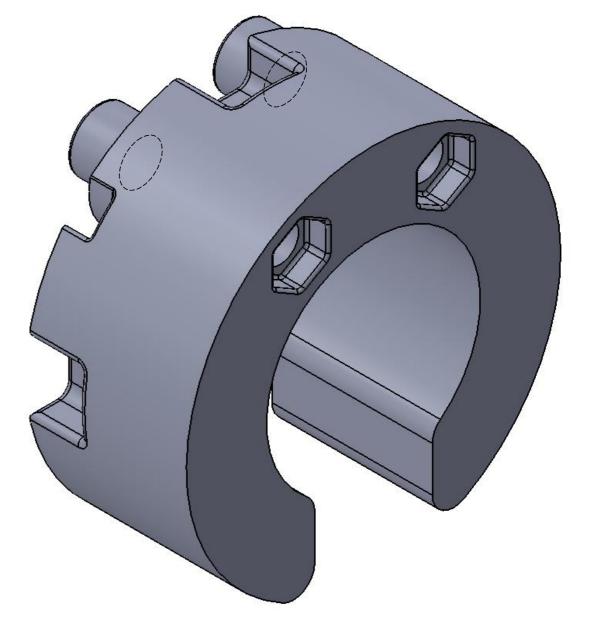












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.XXX (3 PLS) ±0.007 MM
UNLESS OTHERWISE NOTED DO NOT SCALE DRAWING ANGLE TOLERANCE ±0°30', UNLESS NOTED Sheet Name: Sheet9

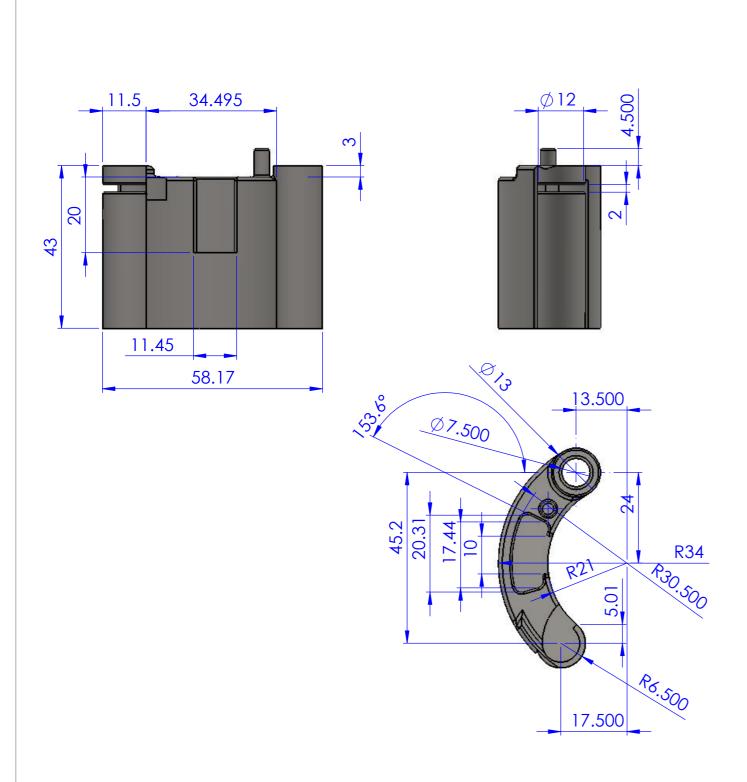
University of Limerick 02/05/2012 SIZE

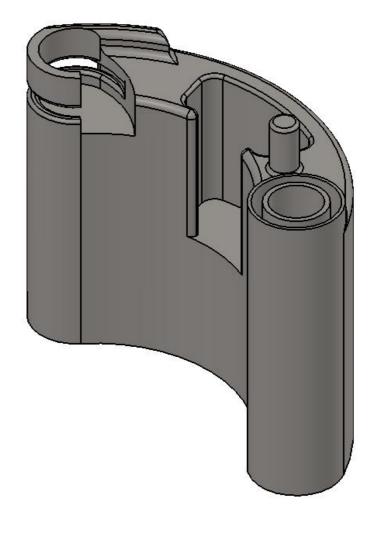
THIRD ANGLE PROJECTION

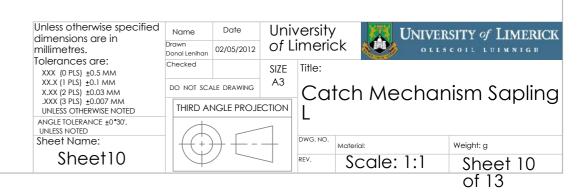
UNIVERSITY of LIMERICK

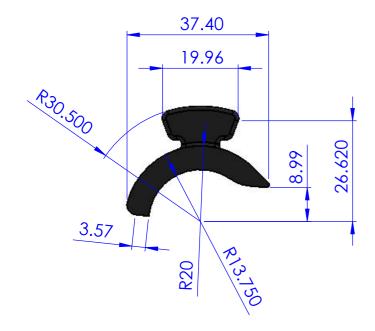
Push Plate Catch Mechanism

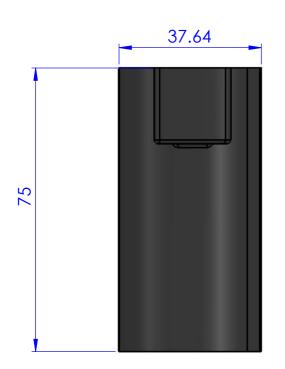
Weight: g Scale: 1:1 Sheet 9 of

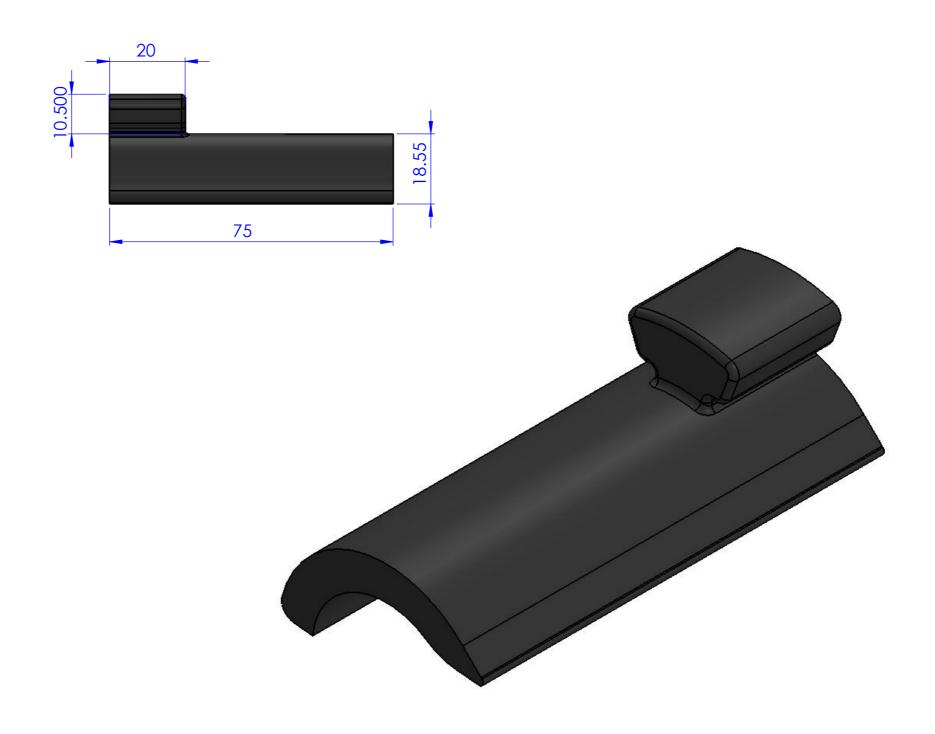


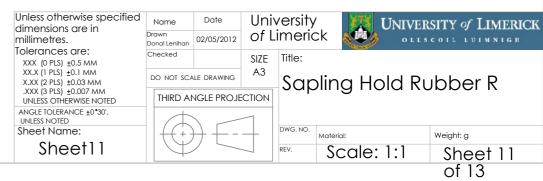


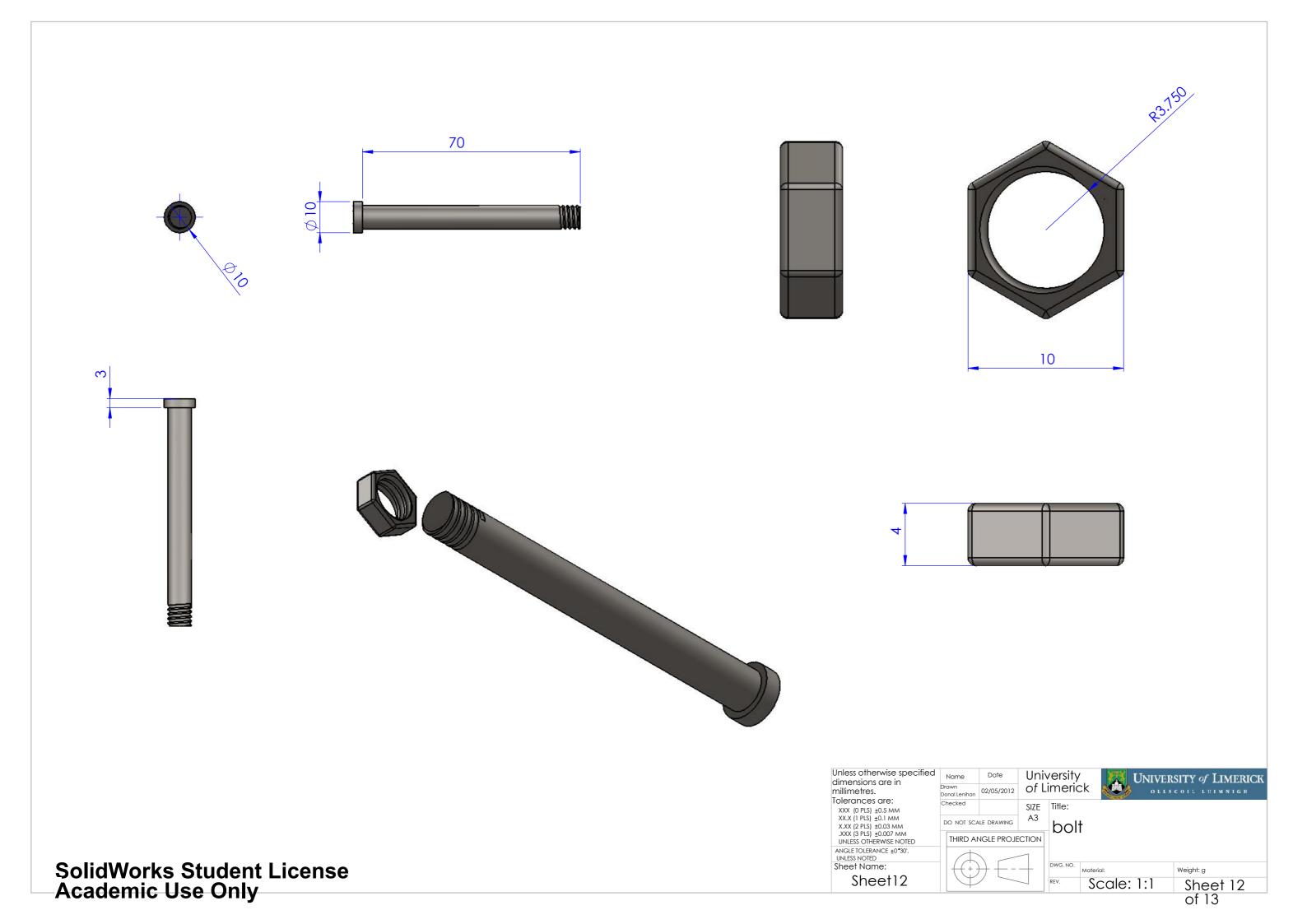


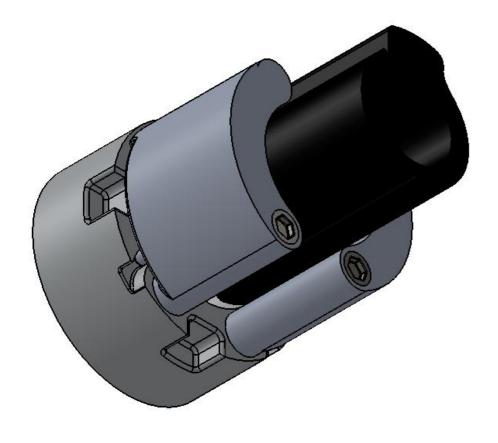


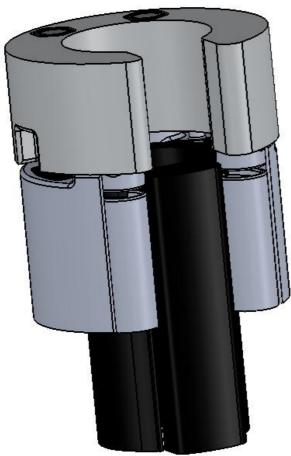




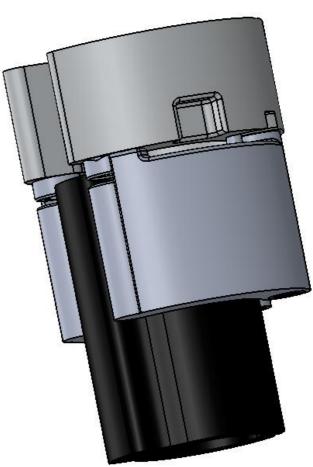












Date University of Limerick Unless otherwise specified University of Limerick dimensions are in millimetres. Toller Tes.

Tolerances are:

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UNLESS OTHERWISE NOTED SIZE Assy Standard 2 Parts THIRD ANGLE PROJECTION ANGLE TOLERANCE ±0°30′, UNLESS NOTED Sheet Name: Weight: g Sheet13 Scale: 1:2 Sheet 13 of 13