
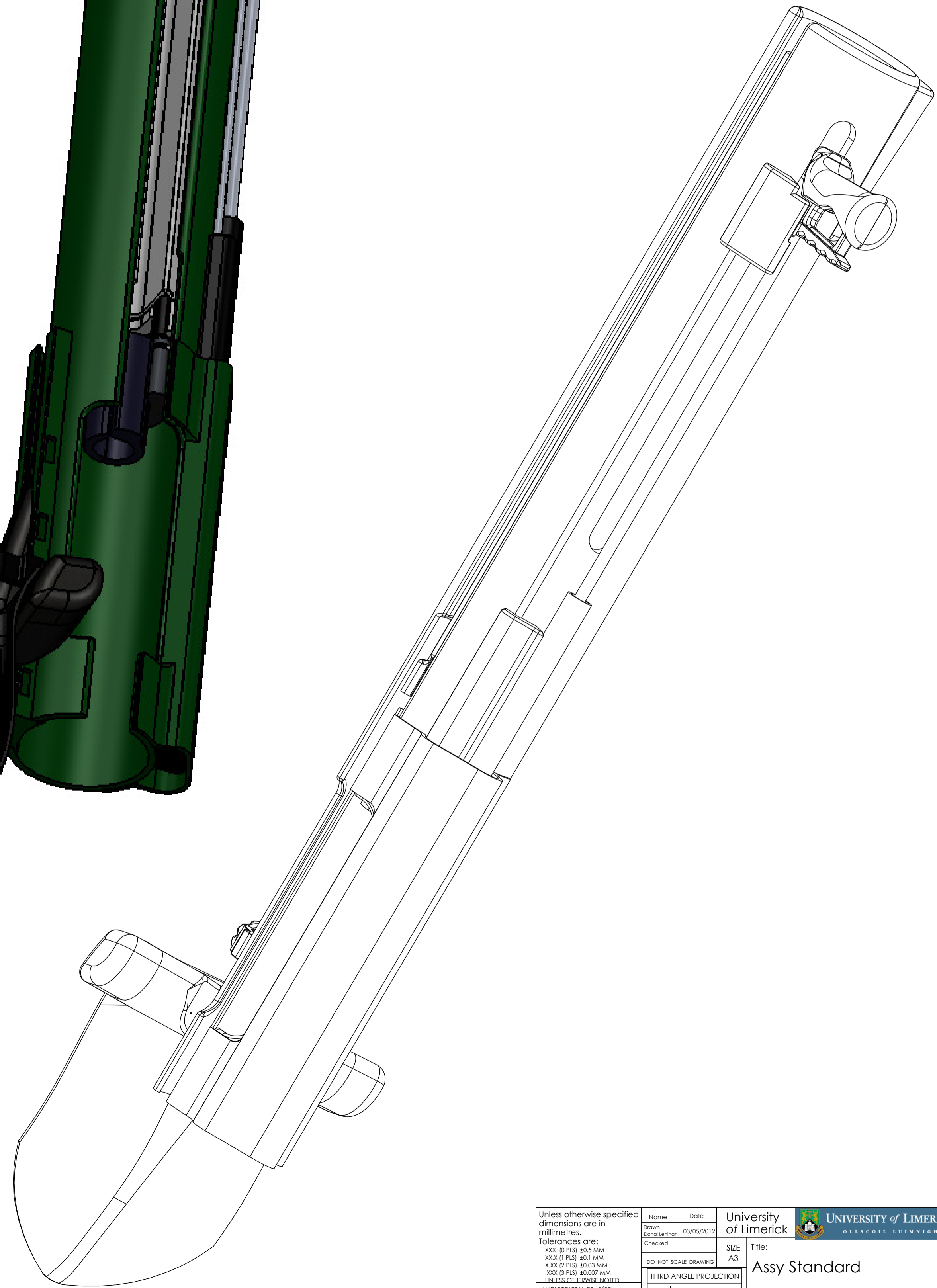
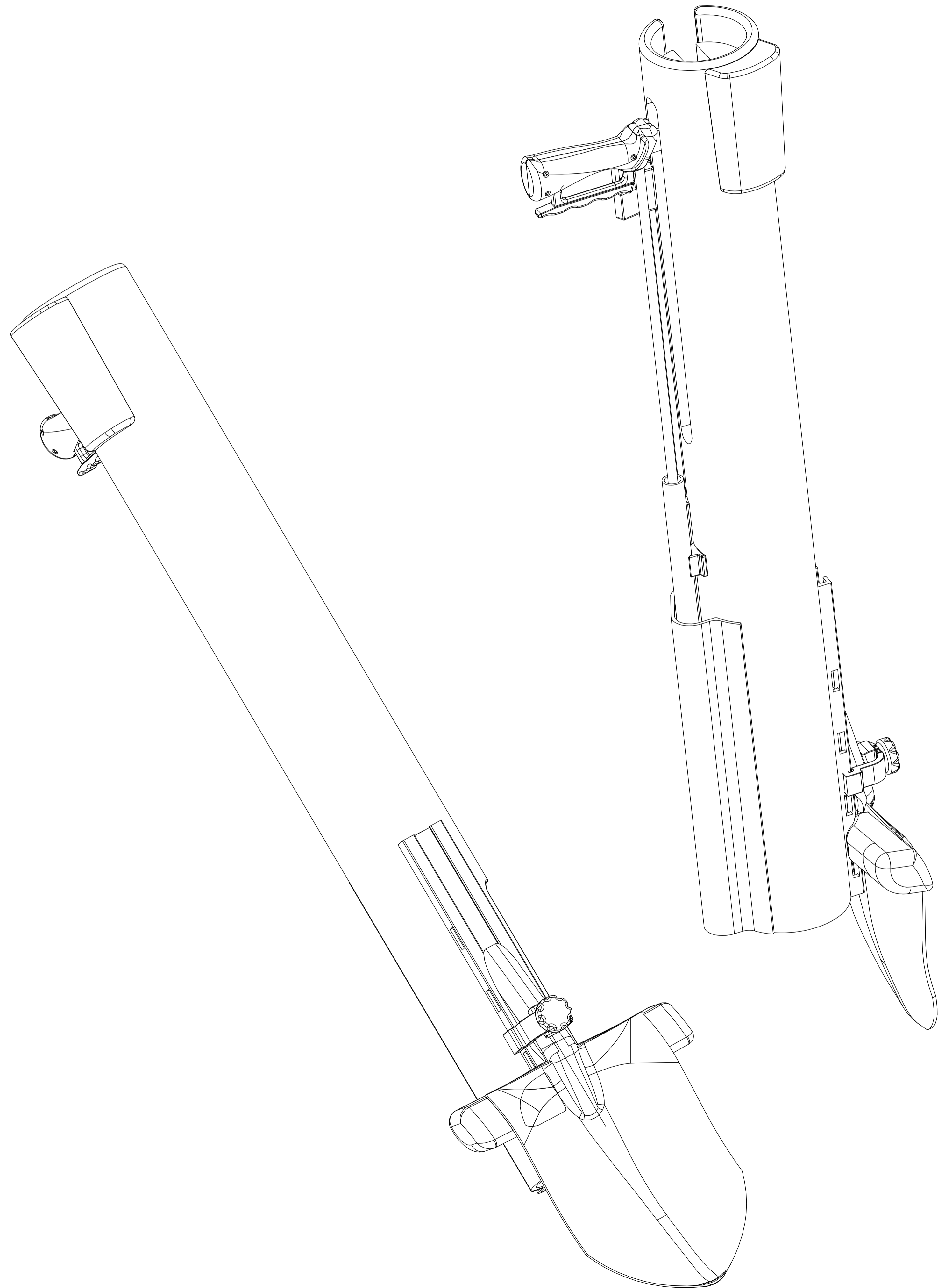


Unless otherwise specified dimensions are in millimetres. Tolerances are: XXX (P L/S) ±0.5 MM XXX (F L/S) ±0.1 MM XXX (P L/S) ±0.02 MM XXX (F L/S) ±0.02 MM UNLESS OTHERWISE NOTED *ANGLE REFERENCE IS 90° UNLESS NOTED.	Name	Date	University of Limerick 
	Drawn	03/05/2012	
Sheet Name:	Sheet2	Scale:	1:10
Weight:	g	Material:	
REV		Scale:	1:10
		Sheet 2 of	7

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 Shaff	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	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	1	Extrusion
27	Spring 1	Closes catch mechanism.	Stainless Steel	1	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	1	Extrusion
32	Lock Shovel Mechanism-1	Closes into Moving Mechanism.	Carbon Steel	1	Extrusion
33	Lock Shovel Mechanism-2	Closes into Moving Mechanism.	Carbon Steel	1	Extrusion
34	Lock Shovel Mechanism-3	Locks 32, 33 in Place.	Carbon Steel	1	Extrusion
35	Lock Shovel Mechanism-4	Bolts into Bracket.	Carbon Steel	1	Extrusion
36	Lock Shovel Mechanism-5	Holds Shovel in Place.	Carbon Steel	1	Extrusion

Unless otherwise specified dimensions are in millimetres. Tolerances are: XXX (0 PLS) ±0.5 MM XXX (1 PLS) ±0.1 MM X.XX (2 PLS) ±0.05 MM XXX (3 PLS) ±0.007 MM UNLESS OTHERWISE NOTED	<table border="1"> <tr> <td>Drawn</td> <td>03/05/2012</td> </tr> <tr> <td>Checked</td> <td></td> </tr> </table>	Drawn	03/05/2012	Checked		<table border="1"> <tr> <td>NAME</td> <td>DATE</td> </tr> <tr> <td>SIZE</td> <td>A1</td> </tr> <tr> <td>TITLE</td> <td></td> </tr> </table>	NAME	DATE	SIZE	A1	TITLE		
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<table border="1"> <tr> <td>THIRD ANGLE PROJECTION</td> </tr> </table>	THIRD ANGLE PROJECTION	<table border="1"> <tr> <td>Scale: 1:20</td> <td>Weight: g</td> </tr> </table>	Scale: 1:20	Weight: g									
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Scale: 1:20	Weight: g												
Sheet Name: Sheet13	REV. 1	Scale: 1:20	Sheet 3 of 7										



Unless otherwise specified dimensions are in millimetres		Drawn: Donal Larkin	Date: 03/05/2012	University of Limerick	UNIVERSITY of LIMERICK
Tolerances are: XXX (Ø PLS) ±0.5 MM XXX (Ø PLS) ±0.1 MM X XX (Ø PLS) ±0.03 MM UNLESS OTHERWISE NOTED		Checked:	DO NOT SCALE DRAWING	SIZE: A3	Title: Assy Standard
ANGLE TOLERANCE: ±0°30'		THIRD ANGLE PROJECTION		DWG. NO: 10000000	
Sheet Name: Sheet4		REV:		Scale: 1:10	Weight: g

