

## Basic CNC Controller BOM - by Savvas Papasavva (www.miscpro.com)

Stages	Item No.	Parts	Total Quantity	Source	Product Code
3	1	ABL Sursum 1 Gang Plug Socket, 13A, Type G - British, Outdoor Use	1	RS Components	824-5646
14	2	Alpha Wire 4 Core Screened Industrial Cable, 0.81 mm <sup>2</sup> (CE, CSA, UL) Grey 30m Reel	1	RS Components	168-1234
12, 14	3	Bootlace Ferrules 0.34mm	34	Ebay	
12	4	Bootlace Ferrules 0.5mm	8	Ebay	
14	5	Bootlace Ferrules 0.75mm	20	Ebay	
9, 12	6	Bootlace Ferrules 1.0mm	10	Ebay	
9	7	Bootlace Ferrules, 1.5mm	13	Ebay	
10	8	Bootlace Ferrules, 2x1.0mm	2	Ebay	
6, 11	9	Brass Hex Standoff, Male/Female, 10mm, M3 x M3	12	RS Components	606-686
2	10	Cable Gland Black, M12 IP68	1	Ebay	
2	11	Cable Gland Black, M16 IP68	4	Ebay	
8	12	Circuit Breaker, 10A 1 Pole Type C Miniature	1	RS Components	798-2192
11	13	DIN rail adapter - PTFIX 1,5-NS35AD	4	Mouser	651-1049498
8, 11	14	DIN rail adapter - PTFIX-NS35	3	Mouser	651-3274054
6	15	DIN-rail 35x7.5mmx130mm	1	RS Components	467-406
8	16	DIN-rail 35x7.5x230mm	1	RS Components	
11	17	Distribution block - PTFIX 2X1,5 BK	10	Mouser	651-1045937
11	18	Distribution block - PTFIX 2X1,5 WH	10	Mouser	651-1045936
11	19	Distribution block - PTFIX 6/12X2,5 GY	1	Mouser	651-3273352
8	20	Distribution block - PTFIX 6X2,5 BN	2	Mouser	651-3273274
8	21	Distribution block - PTFIX 6X2,5 BU	2	Mouser	651-3273266
8	22	Distribution block - PTFIX 6X2,5 GN	1	Mouser	651-3273272
6	23	Distribution Block Mount, 3D Printed	1	DIY	
13	24	Doncaster Cables SY Cable 1.5mm x 3 Core x 10m Coil - 76158	1	Toolstation	76158
11	25	Duet 2 WIFI Controller	1	Ooznest	DUET-W-EA-R
6	26	Duet 2 Wifi Mount, 3D Printed	1	DIY	
14	27	Earth Sleeving, PVC, Green / Yellow, 3mm x various lengths	1	Toolstation	41371
8	28	Eaton Bussmann Series, 10A Ceramic Cartridge Fuse, 10 x 38mm	1	RS Components	703-8386
1	29	Fan Mounting Screws, 16mm	8	Ebay	392377075459
10	30	Forked Crimp, Blue, 3.7mm, Insulated	2	Ebay	203199129222
9, 10, 12	31	Forked Crimp, Red, 3.7mm, Insulated	28	Ebay	203198094844
14	32	Heat Shrink 6.5m x 9.5mm, 40mm	8	Toolstation	82603
11	33	Heatsink, 26.5K/W, 14 x 14 x 10mm, Adhesive Foil	5	RS Components	750-0881
3	34	Idec CW Series Contact Block - 1NC	1	RS Components	813-5268
3	35	Idec YW Emergency Stop Push Button Panel Mount, 22mm Cutout, 2NC, IP65	1	RS Components	168-2546
8	36	Lovato Rail Mount Fuse Holder	1	RS Components	188-1613
4	37	M3x12mm Socket Screws	2	Ebay	

5	<b>38</b>	M3x15mm Countersunk Screws, Washers and Locking Nuts	2	Ebay	
3	<b>39</b>	M4x15mm Socket Screws, Washers and Locking Nuts	4	Ebay	
6	<b>40</b>	M4x8mm Socket Screw	4	Ebay	
8	<b>41</b>	Mean Well MDR Switch Mode DIN Rail Power Supply 85 → 264V ac Input, 24V dc Output, 420mA 10W	1	RS Components	712-7418
6	<b>42</b>	Meanwell LRS350-24 LED DRIVER, 24V DC	1	Mouser	709-LRS350-24
6	<b>43</b>	MHS012 Mounting Brackets 19x16x15mm MEAN WELL	4	Ebay	263953264298
12	<b>44</b>	Molex KK Crimp Terminals to KK Crimp Terminals, 300mm	20	RS Components	126-0325
14	<b>45</b>	Nema 23 Stepper Motor, 1.8deg 1.9Nm (269oz.in) 2.8A 3.2V 57x57x76mm 4 Wires	4	OMC Stepper Online	23HE30-2804S
1	<b>46</b>	PUR Fan Filter for 92mm Fan	2	RS Components	737-4068
1	<b>47</b>	RS PRO ABS, Wall Box, IP65, 195mm x 400 mm x 300 mm	1	Ebay	112869512272
3	<b>48</b>	RS PRO Contact Block - NC	2	RS Components	188-1169
3	<b>49</b>	RS PRO Contact Block - SPNO	2	RS Components	188-1168
3	<b>50</b>	RS PRO Flush Green - Spring Return, 22mm Cutout, Round	1	RS Components	188-1124
3	<b>51</b>	RS PRO Flush Yellow - Spring Return, 22mm Cutout, Round	1	RS Components	188-1126
3	<b>52</b>	RS PRO Green, Red - Spring Return, 22mm Cutout, Double	1	RS Components	188-1200
3	<b>53</b>	RS PRO Light Block - Red, 240 V ac	1	RS Components	188-1192
3	<b>54</b>	RS PRO Light Block - White, 24 V ac/dc	1	RS Components	188-1182
3	<b>55</b>	RS PRO Red Pilot Light Head, 22.5mm Cutout	1	RS Components	188-1201
1	<b>56</b>	RS PRO, 24 V dc, DC Axial Fan, 92.5 x 92.5 x 25mm, 66.3m <sup>3</sup> /h, 1.9W	2	Mouser	490-CFM9232S-230-398
13	<b>57</b>	Schurter C21 Right Angle Cable Mount IEC Connector Socket, 16A, 250 V	1	RS Components	866-2631
5	<b>58</b>	Schurter C22 Panel Mount IEC Connector Male, 16A, 250 V	1	RS Components	866-2640
6, 7, 8	<b>59</b>	Self Tapping Screws	10	Ebay	
8	<b>60</b>	Siemens SIRIUS Innovation 3RT2 3 Pole Contactor - 9 A, 24 V dc Coil, 3NO, 4 kW	1	RS Components	706-1122
7	<b>61</b>	Slotted Panel Trunking - Open Slot, W25 mm x D37.5mm, L1m, PVC	0.5	RS Components	209-9672
14	<b>62</b>	Spring Lever Connectors, In Line, 2 Pole, 32A	8	Toolstation	30952
8	<b>63</b>	Surge Suppressor Unit, 24 V dc, Clip On Mount	1	RS Components	875-1080
4	<b>64</b>	USB Adapter Mount, 3D Printed	1	DIY	
4	<b>65</b>	USB Male to Female Panel Mount Extension Cable, 90 Degree Angled Micro 5 Pin	1	Ebay	233500315497
8	<b>66</b>	Wago, 24V dc SPDT Relay Socket, DIN Rail 788	1	RS Components	180-3037