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UG

3D

1	
2	A () A () A A
3	
4	() AutoCAD () B () UG () 3 UG Autoform () PLC Solidwork
5	() AutoCAD () B () Matlab Autoform Solidwork
6	Python (AutoCAD) () UG () B Autoform 3 UG () C PLC Solidwork Matlab

[illegible]

	00010240		3	2.0	32	24	8			
	D2104271	A()	1	3.5	56	56	0			
	D2234282	A()	2	4.0	64	64	0			
	D2084270	A	3	3.5	56	56	0			
	D2094270	A	4	3.5	56	56	0			
GA310010			2	0.5	8					

	E3640250		4	3.0	48	40	8			
	D9960240		4	2.0	32	28	4			
	E3260230		4	1.5	24	24	0			
	E3420240		5	2.0	32	32	0			
	E3660250		5	2.5	40	32	8			
	E3410240		5	2.0	32	24	8			
	E1058240		6	2.0	32	32	0			
				35.5	568	508	60			
	E1788260		6	3.0	48	48	0			
	E1798260		7	3.0	48	48	0			
	E0688240		6	2.0	32	32	0			
	E0508240		7	2.0	32	32	0			
	E0598240	Autoform	7	2.0	32	32	0			
	E0618240		6	2.0	32	32	0			
	E0448240		6	2.0	32	32	0			
	B1830240	A	7	2.0	32	32	0			
	A1492240	A	7	2.0	32	32	0			
				10.0	160	160				10
	E2530040	C	6	2.0	32	24	8			
	E2700040		5	2.0	32	24	8			
	E2720040	PLC	6	2.0	32	28	4			
	E2780040		7	2.0	32	28	4			
	E2740040		6	2.0	32	24	8			

	K0180040		8	8	0						8
	B4610261	()	48	42	6		3				
	D1640260		48	24	24		3				
	D8860020	() ()	16	16	0		1				
	N0180020		16	16	0		1				
	N0150040		36	36	0		2				
	N0190011	()	8	8	0		0.5				
	N0020040		32	24	8		2				
	I0140221	()	28	10	18		1				
	N0140040				2	2	2		,		
	D2104271	A()	56	56	0		3.5				
	K0270220		8	6	2		0.5				
	E3770261	()	48	48	0		3				
			400	334	66+ 2	2	25.5				
	K0210060		48	40	8		3				
	K0180040		8	8	0						8
	B4610262	()	48	42	6		3				
	N0200012	()	8	8	0		0.5				

N0160220

2

	D0720240		32	16	16		2				
	D8830240	Python	32	16	16		2				
	E3700250		40	32	8		2.5				
	E0238220	AutoCAD	16	16	0		1				
	D9370242	()	32	32	0		2				
	E2840050		32	24	8		2				
	E0810240	()			2	2	2		,		
			410	320	90+ 2	2	26.0				

	B4610264	()	48	42	6		3				
	D8880010	() ()	8	8	0		0.5				
	F0210220		8	8	0		0.5				
	N0160220		2	0	2						
	I0130224	()	32	8	24		1				
	D2094270	A	56	56	0		3.5				
	K0300260		48	40	8		3				
	D9320240		32	28	4		2				
	E3640250		48	40	8		3				
	D9960240		32	28	4		2				
	E3260230		24	24	0		1.5				
	E0268220				1	1	1		,		
			346	290	56+ 1	1	21.0				
	K0180040		8	8	0						8
	N0160220		2	0	2		0.5				

K0280060



	E2780040		32	28	4		2				
	E2750040		32	24	8		2				
	E1858260				3	3	3		,		
			136	124	12 ⁺ 5	5	13. 0				
	K0180040		8	8	0		2				8
	DA550200	) (			12	12	12		,		
			8	8	12	12	14. 0				
			2134	1772	362 ⁺ 29	29	156. 0				

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69. 5 42. 38% 12. 72

20. 73% 49. 09% 32. 14%