

3-Dimensional Services Group

PROTOTYPE. PRODUCTION. PROVEN.

Equipment Type	Quantity
3-Axis Laser	6
5-Axis Laser	32
CNC Mill 5-Axis	26
CNC Mill 2-Axis to 4-Axis	64
EDM	8
Plastic Injection Mold	26
Press Brake	47
Stamping Press	118
Welding Equipment	147
Cut and Etch Struers	9
Industrial Robot/Cobot	54
Inspection Equipment	70

Quantity	Equipment Type	Manufacturer	Model	Size (in)	Specifications
3	3-Axis Laser	Trumpf	5040 (Connected to Trumpf TruStore Automation)	157x79	12KW
2	3-Axis Laser	Trumpf	2030	118x59	4KW
1	3-Axis Laser	Trumpf	3040	157x79	8KW
7	5-Axis Laser	Trumpf	7040	157x79	6KW
5	5-Axis Laser	Trumpf	7040 (With Rotary)	157x79	6KW
4	5-Axis Laser	Trumpf	5030	118x59	3KW
2	5-Axis Laser	Trumpf	5030	118x59	4KW
2	5-Axis Laser	Trumpf	7040	157x79	3KW
12	5-Axis Laser	NTC	TLM-610	122x75	
2	CNC Mill 5-Axis	Bavius	Aerocell 160	173x69	30,000 RPM
1	CNC Mill 5-Axis	Starrag	Ecospeed F 1540	170x63	30,000 RPM
1	CNC Mill 5-Axis	Fooke	Endura 704	138x86	24,000 RPM
1	CNC Mill 5-Axis	Fooke	Endura 715	138x86	24,000 RPM
1	CNC Mill 5-Axis	Fooke	Endura 715 XL	216x138	24,000 RPM
1	CNC Mill 5-Axis	Fooke	Endura 915 XL	216x138	24,000 RPM
7	CNC Mill 5-Axis	Hermle	C650U	42x36	20,000 RPM
1	CNC Mill 5-Axis	Hermle	C400	34x28	18,000 RPM
2	CNC Mill 5-Axis	Haas	UMC-750	30x20	12,000 RPM
5	CNC Mill 5-Axis	Haas	VM-3	40x26	10,000 RPM
3	CNC Mill 5-Axis	Haas	VR-11	120x40	20,000 RPM
1	CNC Mill 5-Axis	TriMill	VFC 3021	118x82	14,000 RPM
1	CNC Mill 2-Axis	YCM	GT-300LMB	51x11	3,000 RPM
1	CNC Mill 2-Axis	Haas	ST 20	8x23	4,000 RPM
1	CNC Mill 3-Axis	Makino	A-51	22x22	12,000 RPM
2	CNC Mill 3-Axis	Makino	V-56	36x22	20,000 RPM
3	CNC Mill 3-Axis	Hurco	BMC-30	30x17	8,000 RPM
2	CNC Mill 3-Axis	Hurco	VMX 42i	42x24	12,000 RPM
7	CNC Mill 3-Axis	YCM	D212-DM	79x48	Up to 15,000 RPM
2	CNC Mill 3-Axis	YCM	DCV-3016B	120x63	Up to 10,000 RPM
1	CNC Mill 3-Axis	YCM	DCV-4025B	160x98	10,000 RPM
1	CNC Mill 3-Axis	YCM	NDC-4022	165x87	10,000 RPM
2	CNC Mill 3-Axis	YCM	NSV-102	40x24	15,000 RPM
6	CNC Mill 3-Axis	YCM	NTV-158B	64x30	Up to 15,000 RPM
1	CNC Mill 3-Axis	YCM	T15DM	64x30	15,000 RPM
1	CNC Mill 3-Axis	YCM	T15DM/NTV-158	60x30	15,000 RPM
1	CNC Mill 3-Axis	YCM	TV 2610B	102x40	6,000 RPM
2	CNC Mill 3-Axis	YCM	CF7G	26x20	20,000 RPM
1	CNC Mill 3-Axis	Haas	ST 20Y	8x23	4,000 RPM
2	CNC Mill 3-Axis	Haas	Super Mini Mill	36x12	15,000 RPM
5	CNC Mill 3-Axis	Haas	VF-2	30x16	8,100 RPM
2	CNC Mill 3-Axis	Haas	VF2-SS	30x16	12,000 RPM
7	CNC Mill 3-Axis	Haas	VF-6	Up to 64x32	Up to 10,000 RPM
6	CNC Mill 3-Axis	Haas	VF-9	Up to 84x40	7,500 RPM
2	CNC Mill 4-Axis	Makino	A-81	36x32	10,000 RPM
3	CNC Mill 4-Axis	Toshiba	BDT-110-R16	78x59	Up to 8,000 RPM
1	CNC Mill 4-Axis	Haas	EC-300	20x18	8,000 RPM
1	CNC Mill 4-Axis	Haas	EC-400	20x20	12,000 RPM

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1	EDM	Makino	EDNC17	79x53	100A
1	EDM	Makino	EDNC 8	43x28	80A
1	EDM	Makino	EDNC 8 Heat	43x28	100A
1	EDM	Makino	EDNC6	31x22	80A
1	EDM	Belemont	Maxicut S-26	18x12	220V
3	EDM	Fanuc	Series 18i-W	up to 20x14	220V
1	Plastic Injection Mold	Bole	BL1400DK 1500T (235oz Shot)	78x70	1500T
1	Plastic Injection Mold	Cincinnati	VH 850-116 850T (140oz Shot)	64x58	850T
1	Plastic Injection Mold	Bole	BL 620DK 700T (84oz Shot)	54x50	700T
2	Plastic Injection Mold	Bole	BL 470EKS 518T (53oz Shot)	45x42	518T
1	Plastic Injection Mold	Cincinnati	MTS-400 400T (41oz Shot)	40x40	400T
1	Plastic Injection Mold	Bole	BL 350EKS 386T (35oz Shot)	39x37	386T
3	Plastic Injection Mold	Bole	BL 280EKS 309T (31oz Shot)	36x34	309T
4	Plastic Injection Mold	Bole	BL 230EKS 254T (19oz Shot)	32x30	254T
1	Plastic Injection Mold	Cincinnati	MTS-225 225T (26oz Shot)	32x32	225T
1	Plastic Injection Mold	Sodick	TR200VRE 200T (13oz Shot)	20x20	200T
4	Plastic Injection Mold	Bole	BL 140EKS 154T (8oz Shot)	26x24	154T
2	Plastic Injection Mold	Bole	BL 170EKS 187T (11oz Shot)	30x27	187T
2	Plastic Injection Mold	Cincinnati	VSX 85 - 2.27 85T (2oz Shot)	24x22	85T
1	Plastic Injection Mold	Cincinnati	VSX 85 - 4.44 85T (4oz Shot)	24x22	85T
1	Plastic Injection Mold	Cincinnati	ROBO 55R-55 55T (1oz Shot)	21x18	55T
1	Press Brake	Cincinnati	225T	168	225T
1	Press Brake	Cincinnati	175T	144	175T
6	Press Brake	Trumpf	5130	127	133T
22	Press Brake	Accurpress	100T	96	100T
7	Press Brake	Accurpress	60T	60	60T
5	Press Brake	Trumpf	7050	60	51T
2	Press Brake	Bystronic	Expert 40	41	44T
3	Press Brake	Bantum Breaks	12T	24	12T
1	Stamping Press	HPM	Hydraulic Press 5000T	144x71	5000T
1	Stamping Press	Williams & White	Hydraulic Press 3000T	84x60	3000T
1	Stamping Press	Macrodyne	Hydraulic Press 2500T	102x53	2500T
3	Stamping Press	St. Lawrence	Hydraulic Press 2000T	Up to 115x55	2000T
1	Stamping Press	Williams & White	Hydraulic Press 2000T	120x96	2000T
1	Stamping Press	Wemhoner	Hydraulic Press 1800T	145x96	1800T
2	Stamping Press	RMT	Hydraulic Press 1650T	Up to 150x102	1650T
1	Stamping Press	Birdsboro	Hydraulic Press 1600T	62x59	1600T
1	Stamping Press	Macrodyne	Hydraulic Press 1500T	98x62	1500T
1	Stamping Press	St. Lawrence	Hydraulic Press 1500T	192x120	1500T
1	Stamping Press	Birdsboro	Hydraulic Press 1200T	52x48	1200T
1	Stamping Press	Homring	Hydraulic Press 1200T	161x90	1200T
1	Stamping Press	Pacifica	Hydraulic Press 1200T	168x84	1200T
1	Stamping Press	Williams & White	Hydraulic Press 1100T	82x52	1100T
1	Stamping Press	Rodgers	Hydraulic Press 1000T	30x30	1000T
1	Stamping Press	Williams & White	Hydraulic Press 1000T	Up to 130x66	1000T
1	Stamping Press	Dake	Hydraulic Press 800T	80x70	800T
1	Stamping Press	Williams & White	Hydraulic Press 750T	60x48	750T
1	Stamping Press	MPH	Mechanical Press 700T	118x59	700T
1	Stamping Press	Stamtec	Mechanical Press 660T	Up to 144x55	660T
1	Stamping Press	APT	Hydraulic Press 650T	95x63	650T
4	Stamping Press	Link	Hydraulic Press 600T	64x36	600T
1	Stamping Press	St. Lawrence	Hydraulic Press 600T	77x60	600T
2	Stamping Press	Universal	Hydraulic Press 600T	97x48	600T
1	Stamping Press	Williams & White	Hydraulic Press 600T	60x36	600T
6	Stamping Press	APT	Hydraulic Press 500T	Up to 99x51	500T
1	Stamping Press	Lake Erie	Hydraulic Press 500T	72x60	500T
2	Stamping Press	Macrodyne	Hydraulic Press 500T	72x48	500T
1	Stamping Press	Minster	Hydraulic Press 500T	98x51	500T
6	Stamping Press	Williams & White	Hydraulic Press 500T	Up to 48x36	500T
2	Stamping Press	APT	Hydraulic Press 450T	95x63	450T
10	Stamping Press	HPF/Kaast	Hydraulic Press 400T	48x40	400T
2	Stamping Press	Macrodyne	Hydraulic Press 400T	72x48	400T
1	Stamping Press	Stamtec	Mechanical Press 400T	122x39	400T
1	Stamping Press	APT	Hydraulic Press 350T	95x63	350T
1	Stamping Press	Dake	Hydraulic Press 300T	46x41	300T
1	Stamping Press	Danly	Hydraulic Press 300T	72x48	300T
1	Stamping Press	Doyle	Hydraulic Press 300T	70x66	300T

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1	Stamping Press	HPM	Hydraulic Press 300T	37x37	300T
1	Stamping Press	MPH	Mechanical Press 300T	59x40	300T
2	Stamping Press	PH Company	Hydraulic Press 300T	48x48	300T
1	Stamping Press	MPH	Mechanical Press 250T	55x40	250T
2	Stamping Press	Stamtec	Mechanical Press 250T	up to 83x28	250T
1	Stamping Press	Sutherland	Mechanical Press 220T	73x26	220T
6	Stamping Press	HPF/Kaast	Hydraulic Press 200T	39x16	200T
16	Stamping Press	Knuth	Hydraulic Press 200T	Up to 39x20	200T
1	Stamping Press	Savage	Hydraulic Press 200T	30x30	200T
1	Stamping Press	Stamtec	Mechanical Press 200T	73x26	200T
1	Stamping Press	Williams & White	Hydraulic Press 200T	48x72	200T
1	Stamping Press	Bliss	Mechanical Press 175T	65x30	175T
2	Stamping Press	Bliss	Mechanical Press 110T	28x23	110T
1	Stamping Press	Stamtec	Mechanical Press 110T	26x19	110T
1	Stamping Press	English and Miller	Hydraulic Press 100T	24x27	100T
8	Stamping Press	Knuth	Hydraulic Press 100T	Up to 28x14	100T
1	Stamping Press	Bliss	Mechanical Press 70T	17x13	70T
3	Stamping Press	Knuth	Hydraulic Press 70T	28x14	70T
1	Stamping Press	Stamtec	Mechanical Press 60T	20x15	60T
28	Welding Equipment	Tregaskis	Air Cooled MIG		350A
1	Welding Equipment	Lynx Fusion	Drawn Arc Stud		800A
1	Welding Equipment	Panasonic	TIG Head		350A
1	Welding Equipment	Fronius	TTW 500A TIG		500A
1	Welding Equipment	Miller/Tregaskiss	Tough gun 350A MIG		350A
1	Welding Equipment	Miller/Dinse	Opti-Drive push pull 500A MIG		500A
7	Welding Equipment	ARO	X-Gun		235 KVA
3	Welding Equipment	ARO	C-Gun		310 KVA
10	Welding Equipment	ARO	Ibox Weld Controller		180 KVA
2	Welding Equipment	Trumpf	TruDisk 6602		6KW
2	Welding Equipment	Trumpf	TruDisk 8002		8KW
2	Welding Equipment	Trumpf	TrueDisk 12001		12KW
29	Welding Equipment	Various Brands	Spot Welding Pedestals		65-270KVA
51	Welding Equipment	Various Brands	Manual Weld Stations - MIG & TIG		Up to 480V
1	Welding Equipment	Trumpf	PFO20 Laser Weld Head		6KW
1	Welding Equipment	Trumpf	PFO33-2 Laser Weld Head		8KW
4	Welding Equipment	Trumpf	PFO 3D-2 Laser Weld Head		8KW
1	Welding Equipment	Scansonic/Abicor	AL03/Ebox Laser Weld Head		8KW
1	Welding Equipment	Trumpf	PFO33-3 Laser Weld Head		12KW
3	Cut and Etch Struers	Struers	Weld Expert Tower		
1	Cut and Etch Struers	Struers	Durascan		
1	Cut and Etch Struers	Struers	Discotom-10		
1	Cut and Etch Struers	Struers	Tegragarm-in-30		
1	Cut and Etch Struers	Struers	CitoPress 5		
1	Cut and Etch Struers	Struers	Structure Expert		
1	Cut and Etch Struers	Struers	Lavamin		
7	Industrial Robot/Cobot	Fanuc	R2000 F210F		
4	Industrial Robot/Cobot	Fanuc	R2000 F210L		
3	Industrial Robot/Cobot	Fanuc	ARC MATE 120i		
2	Industrial Robot/Cobot	Universal Robots	UR16e Cobot (Used for Laser Ablation)		
6	Industrial Robot/Cobot	Kuka	KR210 3100		
1	Industrial Robot/Cobot	Kuka	KR210 L150		
6	Industrial Robot/Cobot	Panasonic	TA1900		
17	Industrial Robot/Cobot	Panasonic	TM2000 WG3		
2	Industrial Robot/Cobot	Panasonic	1400 WG3		
2	Industrial Robot/Cobot	Panasonic	1600 WG3		
4	Industrial Robot/Cobot	Panasonic	VR-006L		
6	Inspection Equipment	Brown & Sharp	CMM - Oryzo	Up to 240	
4	Inspection Equipment	Brown & Sharp	CMM - Vento	Up to 192	
2	Inspection Equipment	Brown & Sharp	CMM - Classic	Up to 108	
3	Inspection Equipment	Brown & Sharp	CMM - Global	Up to 84	
14	Inspection Equipment	Brown & Sharp	Tesa-Hite Height Measurer	Up to 28	
1	Inspection Equipment	MTS	50LP Tensile Tester		20T
1	Inspection Equipment	Instron	5583 Tensile Tester		60T
12	Inspection Equipment	Hexagon	Absolute Scanner Arm		
1	Inspection Equipment	Hexagon	Scanner	Up to 30'	
1	Inspection Equipment	Hexagon	Bravo R2 Dual Arm CMM (17,637 LBS Capacity)	Up to 23'	
4	Inspection Equipment	Keyence	Vision/Color Imaging CA-H2100C		

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Quantity	Equipment Type	Manufacturer	Model	Size (in)	Specifications
4	Inspection Equipment	Keyence	Laser Profiler - Weld Seam Tracking LJ-X8060		
2	Inspection Equipment	Keyence	Laser Profiler - Weld Seam Tracking LJ-X8200		
2	Inspection Equipment	Keyence	Profilometer VR-6100		
8	Inspection Equipment	Keyence	Vision/Color Imaging IV3-500CA		
1	Inspection Equipment	Better Engineering	S-60 Immersosonic System (Part Washer)		
4	Inspection Equipment	Keyence	Laser Marking System		