Product Information Sheet

ACCUTRAK O-FRAME SCANNER

AccuTrak is a high precision, wide-track O-Frame scanner for infrared, laser, nuclear and other web sensors. It combines high scanning speeds, precise alignment and ease of serviceability at an economical cost.

For Scanning On-line Thickness Measurement of Continuous Web Products

ACCUTRAK™

The rugged and reliable AccuTrak can handle the most challenging applications

The NDC AccuTrak family of O-Frame scanners has been specifically designed for today's stringent industrial requirements. Our rugged, simple design utilizes a revolutionary bearing system which provides long-term precise, repeatable performance. In calling on our four decades of experience in the industrial process measurement and control industry, the AccuTrak design provides unmatched serviceability and low cost of ownership.

Design and Construction

NDC's AccuTrak scanners are designed to be the best in the industry. Of design significance are:

- Precision Wide-Track box beam construction
  – Stiffer than an I-Beam
- 30% larger box beam than competitive designs
- Superior power track design with wide (4"/100mm) bend radius
- Unique, innovative bearing design
- Round guide rails
- High torque stepper motor drive system
- All electronics enclosed and protected in steel end bell
- All components designed for continuous operation and with "mean time between failure" of greater than five years

Features and Benefits

- Best scanner alignment in the industry for superior profile representation
- High speed bi-directional scanning up to 20 inches per second
- Supports up to three sensors
- Self-lubricating bearings ensure long life
- Accommodates various pass-line angles
- Sealed beam, explosion proofing and Clean Air Purge Kit options
- Easy serviceability from end column
- Easy head separation

Bearing System

Torlon wear surface features:

- Long life
- Low friction for minimal rail and wheel wear
- Chemical and thermal stability
- Sealed, low clearance double row ball bearings
- Easily replaced rollers

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Specifications, Serviceability

Specifications

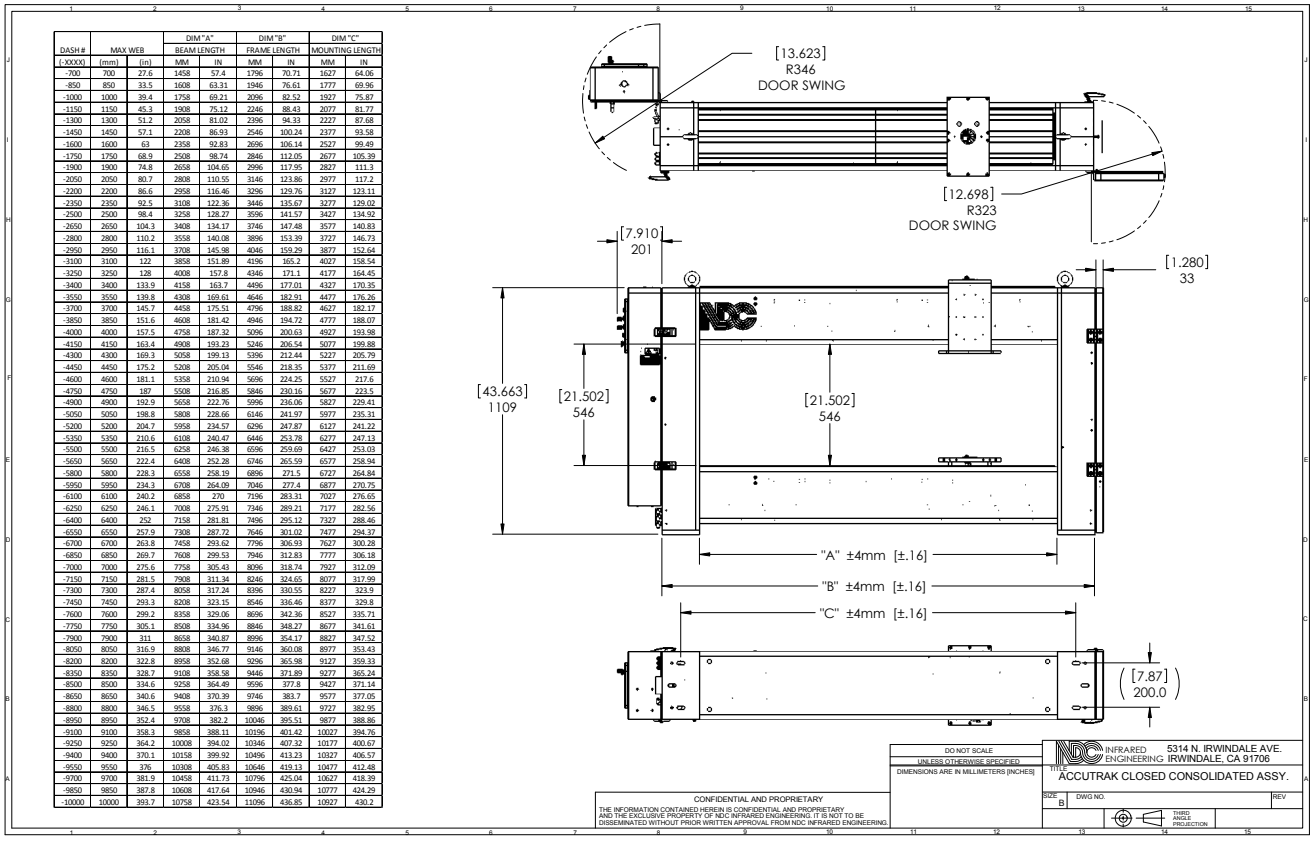
Width**:** Web Width: 24 in. to 394 in. (600mm to 10000mm)
Scanning Load: Three sensors, on both upper and lower carriages; 300 lb total (136kg)
Scanning Speed: 0.50 in/sec to 20.0 in/sec (0.013m/sec to 0.50m/sec)

Position Repeatability: ±0.010 in (±0.25mm)
X-, Y-, Z-Axis Precision: X (Scan Direction: ±0.010 in (±0.25mm); Y (Machine Direction): ±0.010 in (±0.25mm); Z (Vertical Direction): ±0.006 in (±0.15mm)
Operating Temperature: 32° to 170° F (0° to 70°C)
Explosion Proofing: Air purgeable to meet Class I, Division I, Group D requirements

Serviceability

The carriage and/or bearings, cat track and cabling, drive belt and even the optional seal band can be replaced easily and safely. There are no exposed fasteners above the web. There is no lubrication required on linear guides, and rollers can be easily replaced and adjusted without removing the guides. The AccuTrak also provides simple head separation.

DASH #	MAX WEB		DIM "A" BEAM LENGTH		DIM "B" FRAME LENGTH		DIM "C" MOUNTING LENGTH	
(-XXXX)	(mm)	(in)	MM	IN	MM	IN	MM	IN
-700	700	27.6	1458	57.4	1796	70.71	1627	64.06
-850	850	33.5	1608	63.31	1946	76.61	1777	69.96
-1000	1000	39.4	1758	69.21	2096	82.52	1927	75.87
-1150	1150	45.3	1908	75.12	2246	88.43	2077	81.77
-1300	1300	51.2	2058	81.02	2396	94.33	2227	87.68
-1450	1450	57.1	2208	86.93	2546	100.24	2377	93.58
-1600	1600	63	2358	92.83	2696	106.14	2527	99.49
-1750	1750	68.9	2508	98.74	2846	112.05	2677	105.39
-1900	1900	74.8	2658	104.65	2996	117.95	2827	111.3
-2050	2050	80.7	2808	110.55	3146	123.86	2977	117.2
-2200	2200	86.6	2958	116.46	3296	129.76	3127	123.11
-2350	2350	92.5	3108	122.36	3446	135.67	3277	129.02
-2500	2500	98.4	3258	128.27	3596	141.57	3427	134.92
-2650	2650	104.3	3408	134.17	3746	147.48	3577	140.83
-2800	2800	110.2	3558	140.08	3896	153.39	3727	146.73
-2950	2950	116.1	3708	145.98	4046	159.29	3877	152.64
-3100	3100	122	3858	151.89	4196	165.2	4027	158.54
-3250	3250	128	4008	157.8	4346	171.1	4177	164.45
-3400	3400	133.9	4158	163.7	4496	177.01	4327	170.35
-3550	3550	139.8	4308	169.61	4646	182.91	4477	176.26
-3700	3700	145.7	4458	175.51	4796	188.82	4627	182.17
-3850	3850	151.6	4608	181.42	4946	194.72	4777	188.07
-4000	4000	157.5	4758	187.32	5096	200.63	4927	193.98
-4150	4150	163.4	4908	193.23	5246	206.54	5077	199.88
-4300	4300	169.3	5058	199.13	5396	212.44	5227	205.79
-4450	4450	175.2	5208	205.04	5546	218.35	5377	211.69
-4600	4600	181.1	5358	210.94	5696	224.25	5527	217.6
-4750	4750	187	5508	216.85	5846	230.16	5677	223.5
-4900	4900	192.9	5658	222.76	5996	236.06	5827	229.41
-5050	5050	198.8	5808	228.66	6146	241.97	5977	235.31
-5200	5200	204.7	5958	234.57	6296	247.87	6127	241.22
-5350	5350	210.6	6108	240.47	6446	253.78	6277	247.13
-5500	5500	216.5	6258	246.38	6596	259.69	6427	253.03
-5650	5650	222.4	6408	252.28	6746	265.59	6577	258.94
-5800	5800	228.3	6558	258.19	6896	271.5	6727	264.84
-5950	5950	234.3	6708	264.09	7046	277.4	6877	270.75
-6100	6100	240.2	6858	270	7196	283.31	7027	276.65
-6250	6250	246.1	7008	275.91	7346	289.21	7177	282.56
-6400	6400	252	7158	281.81	7496	295.12	7327	288.46
-6550	6550	257.9	7308	287.72	7646	301.02	7477	294.37
-6700	6700	263.8	7458	293.62	7796	306.93	7627	300.28
-6850	6850	269.7	7608	299.53	7946	312.83	7777	306.18
-7000	7000	275.6	7758	305.43	8096	318.74	7927	312.09
-7150	7150	281.5	7908	311.34	8246	324.65	8077	317.99
-7300	7300	287.4	8058	317.24	8396	330.55	8227	323.9
-7450	7450	293.3	8208	323.15	8546	336.46	8377	329.8
-7600	7600	299.2	8358	329.06	8696	342.36	8527	335.71
-7750	7750	305.1	8508	334.96	8846	348.27	8677	341.61
-7900	7900	311	8658	340.87	8996	354.17	8827	347.52
-8050	8050	316.9	8808	346.77	9146	360.08	8977	353.43
-8200	8200	322.8	8958	352.68	9296	365.98	9127	359.33
-8350	8350	328.7	9108	358.58	9446	371.89	9277	365.24
-8500	8500	334.6	9258	364.49	9596	377.8	9427	371.14
-8650	8650	340.6	9408	370.39	9746	383.7	9577	377.05
-8800	8800	346.5	9558	376.3	9896	389.61	9727	382.95
-8950	8950	352.4	9708	382.2	10046	395.51	9877	388.86
-9100	9100	358.3	9858	388.11	10196	401.42	10027	394.76
-9250	9250	364.2	10008	394.02	10346	407.32	10177	400.67
-9400	9400	370.1	10158	399.92	10496	413.23	10327	406.57
-9550	9550	376	10308	405.83	10646	419.13	10477	412.48
-9700	9700	381.9	10458	411.73	10796	425.04	10627	418.39
-9850	9850	387.8	10608	417.64	10946	430.94	10777	424.29
-10000	10000	393.7	10758	423.54	11096	436.85	10927	430.2



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NDC Infrared Engineering is represented in over 60 countries worldwide

a spectris company

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ISO9001:2000

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