

RSPEC-95

MANUFACTURER	SAMSUNG ELECTRONICS	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	SHD-30540A	ST7050P	ST9052A	ST9080A	ST9100A ST9100AG
DISK/TREND GROUP	6	2	2	2	2
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	48 mm OD	65 mm OD	65 mm OD	65 mm OD
Recording medium	25 mm ID Thin Film	12 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film
DRIVE: Heads	MIG	Thin Film	Thin Film	Thin Film	Thin Film
Interface	PC AT	PCMCIA-ATA	PC AT	PC AT	PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 540	--	F: 42.6	F: 64.0	F: 85.3
REMOVABLE	--	F: 42.6	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4	2	2	2	2
Tracks per surface	2768	1074	1065		
Track density (TPI)	3125	2748	2165	2650	2650
Maximum linear density (BPI) (FCI)	64120 48898	53200 39900	40500 27000	45600 30400	58200 43760
Recording code	1,7 RLL	1, 7 RLL	2,7 RLL	2,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	3545	3450	3450	3545
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	13	16	16	16	16
Average rotational delay (msec)	8.3	8.46	8.7	8.7	8.5
Average access time (msec)	21.3	24.46	24.7	24.7	24.5
Data transfer rate (KBytes/sec)	11000	4000	4000	4000	4000
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	10.5 x 54 x 85.6	12.5 x 70.1 x 101.9	12.5 x 70.1 x 101.9	12.5 x 70.1 x 101.9
FIRST CUSTOMER SHIPMENT	3Q94	1993	4Q91	3Q92	1Q93
COMMENTS		PCMCIA Type III			

1994 DISK/TREND REPORT

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST3120A	ST3144A	ST3145A	ST9140AG	ST9144A
DISK/TREND GROUP	3	3	3	3	3
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	65 mm OD	65 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	PC AT	PC AT	PC AT	PC AT	PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 106.9	F: 130	F: 130.7	F: 127	F: 127.9
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	3	3	2	4	6
Tracks per surface	1024	1001			1065
Track density (TPI)	1760	1760	2400	2760	2165
Maximum linear density (BPI) (FCI)	34600 23000	34600 23000	42700 32025	57120 42840	40500 27000
Recording code	2,7 RLL	2,7 RLL	1,7 RLL	1,7 RLL	2,7 RLL
Rotational speed (RPM)	3528	3528	3811	3546	3450
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Embedded	Embedded	Embedded
Average positioning time (msec)	16	16	16	16	16
Average rotational delay (msec)	8.5	8.5	7.87	8.46	8.7
Average access time (msec)	24.5	24.5	23.87	24.46	24.7
Data transfer rate (KBytes/sec)	4000	4000	5000	8000	4000
SIZE: (mm) H x W x D	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	12.5 x 70.1 x 101.9	19.05 x 70.1 x 101.9
FIRST CUSTOMER SHIPMENT	1/91	3Q91	3Q93	3Q93	4Q91
COMMENTS					

1994 DISK/TREND REPORT

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST9145AG	ST9150AG	ST9190AG	ST3243A	ST3250A Medalist 210xe
DISK/TREND GROUP	3	3	3	4	4
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	65 mm OD 20 mm ID Thin Film	65 mm OD 20 mm ID Thin Film	65 mm OD 20 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 127	F: 131.2	F: 170	F: 214	F: 214
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4		4	4	2
Tracks per surface				1996	
Track density (TPI)	2650		2760	2178	
Maximum linear density (BPI) (FCI)	45600 30400		57120 42840	42700 32000	
Recording code	2,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3449	3980	3546	3811	3811
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	16	16	16	16	14
Average rotational delay (msec)	8.7	7.5	8.46	7.87	7.87
Average access time (msec)	24.7	23.5	24.46	23.87	21.87
Data transfer rate (KBytes/sec)	4000	11100 P10* 13300 DMA**	8000	4000	11100 P10* 13300 DMA**
SIZE: (mm) H x W x D	19.05 x 70.1 x 101.9	12.5 x 70.1 x 101.9	12.5 x 70.1 x 101.9	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6
FIRST CUSTOMER SHIPMENT		1Q94	3Q93	2Q92	4Q93
COMMENTS		*P10 Mode 3 **DMA Mode 1			*P10 Mode 3 **DMA Mode 1

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST3283N	ST3290A	ST3291A Medalist XE	ST3295A Medalist 275xe	ST9235AG
DISK/TREND GROUP	4	4	4	4	4
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	65 mm OD 20 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 248.62	F: 262	F: 273	F: 272	F: 209.7
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	5	4	2	2	6
Tracks per surface	1672				
Track density (TPI)	1960	2400			2750
Maximum linear density (BPI) (FCI)	35000 26250	42700 32025			45500 30300
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	2,7 RLL
Rotational speed (RPM)	4500	3811	3811	3811	3450
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	12	16	13	14	16
Average rotational delay (msec)	6.7	7.87	7.87	7.87	8.69
Average access time (msec)	18.7	23.87	20.87	21.87	24.69
Data transfer rate (KBytes/sec)	10000 synch. 3000 asynch.	5000	11100 PIO* 13300 DMA**	11100 PIO* 13300 DMA**	4000
SIZE: (mm) H x W x D	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	19.05 x 70.1 x 101.9
FIRST CUSTOMER SHIPMENT	1092	2093	4093	9/94	3092
COMMENTS			*PIO Mode 3 **DMA Mode 1	*PIO Mode 3 **DMA Mode 1	

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST9235N	ST9240AG	ST9300AG ST9300AR	ST3390A	ST3390N
DISK/TREND GROUP	4	4	4	5	5
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	65 mm OD	65 mm OD	65 mm OD	95 mm OD	95 mm OD
Recording medium	20 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	SCSI	PC AT	PC AT	PC AT	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 209	F: 210.4	F: 262.4	F: 341.3	F: 341.3
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	6			3	3
Tracks per surface				2676	2676
Track density (TPI)	2750			3000	3000
Maximum linear density (BPI) (FCI)	45500 30300			42700 32000	42700 32000
Recording code	2,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3450	3980	3980	4500	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	16	16	16	12	12
Average rotational delay (msec)	8.69	7.5	7.5	6.7	6.7
Average access time (msec)	24.69	23.5	23.5	18.7	18.7
Data transfer rate (KBytes/sec)	5000 synch.	11100 PIO* 13300 DMA**	11100 PIO* 13300 DMA**	5500	10000 synch. 5000 asynch.
SIZE: (mm) H x W x D	19.05 x 70.1 x 101.9	12.5 x 70.1 x 101.9	12.5 x 70.1 x 101.9	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6
FIRST CUSTOMER SHIPMENT	3Q92	1Q94	1Q94	3/93	3/93
COMMENTS		*PIO Mode 3 **DMA Mode 1	*PIO Mode 3 **DMA Mode 1		

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST3391A Medalist 340xe	ST3491A Medallist 425xe	ST3550A Medalist	ST3550N Medalist	ST9385AG
DISK/TREND GROUP	5	5	5	5	5
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	65 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	20 mm ID Thin Film*
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	PC AT	PC AT	PC AT	SCSI-2	PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 341	F: 428	F: 452.4	F: 456.5	F: 341
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4	4	5	5	6
Tracks per surface			2126	2126	
Track density (TPI)			2400	2400	3282
Maximum linear density (BPI) (FCI)			52602 39451	52602 39451	59124 44343
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3811	3811	4500	4500	3980
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Dedicated Surf.	Dedicated Surf.	Embedded
Average positioning time (msec)	13	14	12	12	16
Average rotational delay (msec)	7.87	7.87	6.7	6.7	7.54
Average access time (msec)	20.87	21.87	18.7	18.7	23.54
Data transfer rate (KBytes/sec)	11100 PIO* 13300 DMA**	11100 PIO* 13300 DMA**	11100 PIO* 13300 DMA**	10000 synch. 5000 asynch.	11100 PIO** 13300 DMA***
SIZE: (mm) H x W x D	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	19.5 x 70.1 x 101.9
FIRST CUSTOMER SHIPMENT	4Q93	4Q93	4Q92	4Q92	4Q93
COMMENTS	*PIO Mode 3 **DMA Mode 1	*PIO Mode 3 **DMA Mode 1	*PIO Mode 3 **DMA Mode 1		*Glass-ceramic disk **PIO Mode 3 ***DMA Mode 1

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST9550AG	ST3600A	ST3600N ST3600ND	ST3610N ST3610NC ST3610ND	ST3620N ST3620NC ST3620ND
DISK/TREND GROUP	5	6	6	6	6
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	65 mm OD 20 mm ID Thin Film*	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film PC AT	Thin Film PC AT	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 455	U: 600 F: 525	U: 600 F: 525	U: 635 F: 535	U: 650 F: 560
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	8	7	7	7	5
Tracks per surface		1877	1877	1872	2700
Track density (TPI)	3282	2150	2150	2150	3000
Maximum linear density (BPI) (FCI)	59124 44343	47000 35250	47000 35250	42000 31500	49000 36750
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3980	4500	4500	5411	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	16	10.5 RD/12 WR	10.5 RD/12 WR	10.5 RD/12 WR	9 RD/10.5 WR
Average rotational delay (msec)	7.54	6.7	6.7	5.5	5.6
Average access time (msec)	23.54	17.2/18.7	17.2/18.7	16/17.5	14.6/16.1
Data transfer rate (KBytes/sec)	11100 PIO** 13300 DMA***	4000	10000 synch. 4000 asynch.	10000 synch. 5000 asynch.	10000 synch.
SIZE: (mm) H x W x D	19.05 x 70.1 x 101.9	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	4Q93	1Q92	1Q92	12/92	3Q93
COMMENTS	*Glass-ceramic disk **PIO Mode 3 ***DMA Mode 1				

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST3655A Medalist	ST3655N Medalist	ST3660A Medalist 545xe	ST3780A Medalist	ST5660A Decathlon
DISK/TREND GROUP	6	6	6	6	6
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film PC AT	Thin Film SCSI-2	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 528.5	F: 545.3	F: 545	F: 722	F: 545
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	5	5	4	4	4
Tracks per surface				3876	3420
Track density (TPI)	3000	3000			
Maximum linear density (BPI) (FCI)	53192 39894	53192 39894			
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	4500	4500	3811	4500	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Embedded	Embedded	Embedded
Average positioning time (msec)	12	12	14	12	12
Average rotational delay (msec)	6.7	6.7	7.87	6.67	6.67
Average access time (msec)	18.7	18.7	21.87	18.67	18.67
Data transfer rate (KBytes/sec)	11100 PIO* 13300 DMA**	10000 synch. 5000 asynch.	11100 PIO* 13300 DMA**	16700 PIO* 16700 DMA**	16700 PIO* 16700 DMA**
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 102.1 x 146.6	25.4 x 102.1 x 146.6	19 x 102.1 x 127
FIRST CUSTOMER SHIPMENT	2Q93	3Q93	9/94		1Q94
COMMENTS	*PIO Mode 3 **DMA Mode 1		*PIO Mode 3 **DMA Mode 1	*PIO Mode 4 **DMA Mode 2	*PIO Mode 4 **DMA Mode 2

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST5660N Decathlon	ST9655A8	ST11200N ST11200NC ST11200ND	ST11901N ST11901ND	ST11950N ST11950ND Barracuda 1
DISK/TREND GROUP	6	6	7	7	7
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	65 mm OD 20 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI	Thin Film PC AT	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 545.3	F: 524	U: 1,200 F: 1,050	U: 2,003 F: 1,700	U: 2,031 F: 1,689
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4		15	13	15
Tracks per surface	3420		1877	2626	2706
Track density (TPI)			2150	3000	3047
Maximum linear density (BPI) (FCI)			42000 31500	50000 37500	52187 39140
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	4500	3980	5400	5400	7200
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	12	16	10.5 RD/12 WR	9 RD/10.5 WR	8 RD/9 WR
Average rotational delay (msec)	6.67	7.5	5.6	5.6	4.17
Average access time (msec)	18.67	23.5	16.1/17.6	14.6/16.1	12.17/13.17
Data transfer rate (KBytes/sec)	10000 synch. 5000 asynch.	11100 PIO* 13300 DMA**	10000 synch. 4000 asynch.	20000 synch. 10000 asynch.	10000 synch. 5000 asynch.
SIZE: (mm) H x W x D	19 x 102.1 x 127	19.05 x 70.1 x 101.9	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1	41.3 x 101.6 x 151.6
FIRST CUSTOMER SHIPMENT	1Q94	2Q94	2Q92	2Q93	4/93
COMMENTS		*PIO Mode 3 **DMA Mode 1			

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MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST12450W ST12450WD Barracuda 2,2HP	ST31200N ST31200NC ST31200ND	ST31220A Medalist	ST31230N ST31230NC ST31230ND Hawk 2LP	ST31230W ST31230WC ST31230WD Hawk 2LP
DISK/TREND GROUP	7	7	7	7	7
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	95 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	MR Thin Film	MR Thin Film
Interface	SCSI-2	SCSI-2	PC AT	SCSI-2	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 2,437 F: 1,781	U: 1,260 F: 1,050	F: 1,083	U: 1,200 F: 1,050	U: 1,200 F: 1,050
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	18	9	6	5	5
Tracks per surface	2707	2626	3876	3898	3898
Track density (TPI)		3000		4200	4200
Maximum linear density (BPI) (FCI)		55000 41250		78000 58500	78000 58500
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	7200	5400	4500	5400	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Embedded	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	8 RD/9 WR	9 RD/10.5 WR	12	9 RD/10.5 WR	9 RD/10.5 WR
Average rotational delay (msec)	4.17	5.6	6.67	5.6	5.6
Average access time (msec)	12.17/13.17	14.6/16.1	18.67	14.6/16.1	14.6/16.1
Data transfer rate (KBytes/sec)	20000 synch.	10000 synch. 4000 asynch.	16700 PIO* 16700 DMA**	10000 synch.	20000 synch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 151.6	25.4 x 101.6 x 146.1	25.4 x 102.1 x 146.6	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	2Q94	2Q93		2Q94	2Q94
COMMENTS	2 head parallel version of Barracuda 2		*PIO Mode 4 **DMA Mode 2		

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST41200N ST41200ND ST41200NM ST41200NV Wren 7	ST41201J ST41201K Elite 1	ST41520N ST41520ND Elite 1	ST41600N ST41600ND ST41601N ST41601ND Elite 1	ST41650N ST41650ND Wren 8
DISK/TREND GROUP	7	7	7	7	7
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	130 mm OD	130 mm OD	130 mm OD	130 mm OD	130 mm OD
Recording medium	40 mm ID Thin Film	40 mm ID Thin Film	40 mm ID Thin Film	40 mm ID Thin Film	40 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	SCSI-2	Mod. SMD, IPI-2	SCSI-2	SCSI-2	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 1,200 F: 1,050	U: 1,200	U: 1,600 F: 1,370	U: 1,600 F: 1,370	U: 1,650 F: 1,420
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	U: 33,600	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	15	17	17	17	15
Tracks per surface	1931	2101	2101	2101	2110
Track density (TPI)	1600	1801	1801	1801	1760
Maximum linear density (BPI) (FCI)	32750 24562	33344 22229			40000 30000
Recording code	1,7 RLL	2,7 RLL	2,7 RLL	2,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	5400	5400	5400	3600
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	15	11.5	11.5	11.5	15
Average rotational delay (msec)	8.3	5.6	5.6	5.6	8.3
Average access time (msec)	23.3	17.1	17.1	17.1	23.3
Data transfer rate (KBytes/sec)	4800 synch.	3000	5000 synch.	5000 synch.	5000 synch.
SIZE: (mm) H x W x D	82.6 x 146.1 x 203.2	82.6 x 146.1 x 252.5	82.6 x 146.1 x 252.2	82.6 x 146.1 x 203.2	82.6 x 146.1 x 203.2
FIRST CUSTOMER SHIPMENT	5/89	1Q90	12/90	12/90	12/90
COMMENTS					

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST41651N ST41651ND Wren 8	ST41800K Elite 2	ST42000N ST42000ND Elite 2	ST42100N Wren 9	ST12400N ST12400NC ST12400ND
DISK/TREND GROUP	7	7	7	7	8
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film IPI-2	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 1,650 F: 1,420	U: 1,986	U: 2,106 F: 1,792	U: 2,200 F: 1,900	U: 2,500 F: 2,100
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	U: 84,000	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	15	18	19	15	19
Tracks per surface	2107	2627	2627	2574	2626
Track density (TPI)	1760			2150	3000
Maximum linear density (BPI) (FCI)	40000 30000			46000 34500	50000 37500
Recording code	1,7 RLL	2,7 RLL	2,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	5400	5400	3600	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	15	11	11	12.9	9 RD/10.5 WR
Average rotational delay (msec)	8.3	5.6	5.6	8.3	5.6
Average access time (msec)	23.3	16.6	16.6	21.2	14.6/16.1
Data transfer rate (KBytes/sec)	10000 synch.	7500	10000 synch.	10000 synch.	10000 synch. 5000 asynch.
SIZE: (mm) H x W x D	82.6 x 146.1 x 203.2	82.6 x 146.1 x 216	82.6 x 146.1 x 203.2	82.6 x 146.1 x 203.2	41.3 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	9/91	3Q91	3Q92	3Q91	2Q93
COMMENTS		2 head parallel version of Elite 2			

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST12550N ST12550ND Barracuda 2	ST12550W ST12550WD Barracuda 2	ST32430N ST32430NC ST32430ND Hawk 2LP	ST32430W ST32430WC ST32430WD Hawk 2LP	ST32550N ST32550ND Barracuda 2LP
DISK/TREND GROUP	8	8	8	8	8
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film SCSI-2	MR Thin Film SCSI-2	MR Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 2,572 F: 2,139	U: 2,572 F: 2,139	U: 2,600 F: 2,147	U: 2,600 F: 2,147	U: 2,541 F: 2,147
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	19	19	9	9	11
Tracks per surface	2707	2707	3898	3898	3680
Track density (TPI)			4200	4200	
Maximum linear density (BPI) (FCI)			78000 58500	78000 58500	
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	7200	7200	5400	5400	7200
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	8 RD/9 WR	8 RD/9 WR	9 RD/10.5 WR	9 RD/10.5 WR	8 RD/9 WR
Average rotational delay (msec)	4.17	4.17	5.6	5.6	4.17
Average access time (msec)	12.17/13.7	12.17/13.17	14.6/16.1	14.6/16.1	12.17/13.17
Data transfer rate (KBytes/sec)	10000 synch.	20000 synch.	10000 synch.	20000 synch.	10000 synch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 151.6	41.3 x 101.6 x 151.6	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	2/93	7/93	2Q94	2Q94	2Q94
COMMENTS					

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST32550W ST32550WD ST32550WD Barracuda 2LP	ST42400N ST42400ND Elite 2	ST43200K Elite 3, 2HP	ST43400N ST43400ND Elite 3	ST43401N ST43401ND ST43402ND Elite 3
DISK/TREND GROUP	8	8	8	8	8
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film	130 mm OD 40 mm ID Thin Film
DRIVE: Heads Interface	SCSI-2	Thin Film SCSI-2	Thin Film IPI-2	Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY Total capacity (Mbytes) FIXED REMOVABLE	U: 2,541 F: 2,147 --	U: 2,500 F: 2,129 --	U: 3,386 --	U: 3,555 F: 2,912 --	U: 3,555 F: 2,912 --
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	11	19	20	21	21
Tracks per surface	3680	2627	2627	2627	2627
Track density (TPI)					
Maximum linear density (BPI) (FCI)					
Recording code	1,7 RLL	2,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	7200	5400	5400	5400	5400
PERFORMANCE Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	8 RD/9 WR	11	11	11	11
Average rotational delay (msec)	4.17	5.6	5.6	5.6	5.6
Average access time (msec)	12.17/13.17	16.6	16.6	16.6	16.6
Data transfer rate (KBytes/sec)	20000 synch.	5000 synch.	25000	10000 synch. 6000 asynch.	20000 synch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	82.6 x 146.1 x 203.2	82.6 x 146.1 x 221	82.6 x 146.1 x 203.2	82.6 x 146.1 x 203.2
FIRST CUSTOMER SHIPMENT	2Q94	3Q91	3/92	2/92	4/92
COMMENTS			2 head parallel version of Elite 3		Dual port optional

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST15150N ST15150ND Barracuda 4	ST15150W ST15150WD Barracuda 4	ST15230N ST15230NC ST15230ND Hawk 4	ST15230W ST15230WC ST15230WD Hawk 4	ST410800N ST410800ND Elite 9
DISK/TREND GROUP	9	9	9	9	9
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	130 mm OD 40 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 4,880 F: 4,100	U: 4,880 F: 4,100	U: 5,200 F: 4,294	U: 5,200 F: 4,294	U: 10,800 F: 9,080
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	21	21	19	19	27
Tracks per surface	3620	3620	3898	3898	4921
Track density (TPI)					
Maximum linear density (BPI) (FCI)					
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	7200	7200	5400	5400	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	8 RD/9 WR	8 RD/9 WR	9 RD/10.5 WR	9 RD/10.5 WR	11 RD/12 WR
Average rotational delay (msec)	4.17	4.17	5.6	5.6	5.6
Average access time (msec)	12.17/13.17	12.17/13.17	14.6/16.1	14.6/16.1	16.6/17.6
Data transfer rate (KBytes/sec)	10000 synch.	20000 synch.	10000 synch.	20000 synch.	10000 synch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 151.6	41.3 x 101.6 x 151.6	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1	82.6 x 146.1 x 203.2
FIRST CUSTOMER SHIPMENT	2Q94	2Q94	2Q94	2Q94	2Q94
COMMENTS					

MANUFACTURER	SEAGATE TECHNOLOGY	SEIKO EPSON	SEQUEL	SEQUEL	SEQUEL
DRIVE	ST410800W ST410800WD Elite 9	EHDD170 Hard Disk Card	XT-1085	806	XT-1120R
DISK/TREND GROUP	9	3	2	3	3
MARKET	OEM	PCM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	130 mm OD 40 mm ID Thin Film	48 mm OD 12 mm ID Thin Film*	130 mm OD 40 mm ID Thin Film	200 mm OD 63.5 mm ID Oxide Coated	130 mm OD 40 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film PCMCIA-ATA	Ferrite ST412	Ferrite Priam,SMD,SCSI	Ferrite ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 10,800 F: 9,080	--	U: 85.32	U: 227	U: 127.99*
REMOVABLE	--	F: 170.8	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	U: 10,416	U: 20,160	U: 15,624*
Data surfaces per spindle	27	4	8	11	8
Tracks per surface	4921	1370	1024	1023	1024
Track density (TPI)		3800	1070	1040	1070
Maximum linear density (BPI) (FCI)		84000 63000	9934	9167	14901 9934
Recording code	1,7 RLL	1,7 RLL	MFM	MFM	2,7 RLL*
Rotational speed (RPM)	5400	4500	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Linear, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Embedded	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.
Average positioning time (msec)	11 RD/12 WR	12	27	20	27
Average rotational delay (msec)	5.6	6.7	8.3	8.3	8.3
Average access time (msec)	16.6/17.6	18.7	35.3	28.3	35.3
Data transfer rate (KBytes/sec)	20000 synchron.	12000	625	1210	937.5*
SIZE: (mm) H x W x D	82.6 x 146.1 x 203.2	10.5 x 54 x 85.6	82.6 x 146.1 x 208.3	--	82.6 x 146.1 x 208.3
FIRST CUSTOMER SHIPMENT	2Q94	3/94	2Q83	5/84	2Q87
COMMENTS		PCMCIA Type III Ramp loaded heads. *Untextured disks. Mfg. by Integral Periph			*With RLL controller