

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST125	ST213	ST225	ST225N	ST4026
DISK/TREND GROUP	3	3	3	3	3
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
Nominal disk diameter	95 mm OD	130 mm OD	130 mm OD	130 mm OD	130 mm OD
Recording medium	25 mm ID Thin Film	40 mm ID Oxide Coated	40 mm ID Oxide Coated	40 mm ID Oxide Coated	40 mm ID Oxide Coated
DRIVE: Heads	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	ST412	ST412	SCSI	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 25.6	U: 12.8	U: 25.6	F: 21.4	U: 25.6
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 10,416	U: 10,416	U: 10,416	F: 8,704	U: 10,416
Data surfaces per spindle	4	2	4	4	4
Heads per data surface	1	1	1	1	1
Tracks per surface	615	615	615	615	615
Track density (TPI)	824	588	588	588	625
Maximum linear density (BPI)	15500	9827	9827	9827	9617
Rotational speed (RPM)	3600	3600	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Stepping Motor	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Linear, Voice Coil
Average positioning time (msec)	30 (including settling)	65 (including settling)	65 (including settling)	65 (including settling)	40
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	38.3	73.3	73.3	73.3	48.3
Data transfer rate (KBytes/sec)	625	625	625	625	625
FIRST CUSTOMER SHIPMENT	3Q87	4Q85	10/84	4Q85	11/84
U.S. OEM PRICE FOR 100 UNITS	\$305 (500)	\$250 (500)	\$260 (500)	\$355 (500)	\$490 (500)
COMMENTS	41 mm high	41 mm high	41 mm high	41 mm high	

1988 DISK/TREND REPORT

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST138	ST138N	ST138R	ST157N	ST157R
DISK/TREND GROUP	4	4	4	4	4
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
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	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	SCSI	ST412	SCSI	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 38.4	F: 32.3	U: 38.4*	F: 48.6	U: 57.7*
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 10,416	F: 13,312	U: 15,624*	F: 13,312	U: 15,624*
Data surfaces per spindle	6	4	4	6	6
Heads per data surface	1	1	1	1	1
Tracks per surface	615	613	615	613	615
Track density (TPI)	824	824	824	824	824
Maximum linear density (BPI)	15500	23250 BPI* 15500 FCI	23250 BPI* 15500 FCI	23250 BPI* 15500 FCI	23250 BPI* 15500 FCI
Rotational speed (RPM)	3600	3600	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Stepping Motor	Rotary, Stepping Motor	Rotary, Stepping Motor	Rotary, Stepping Motor	Rotary, Band, Stepping Motor
Average positioning time (msec)	30 (including settling)	30 (including settling)	30 (including settling)	30 (including settling)	30 (including settling)
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	38.3	38.3	38.3	38.3	38.3
Data transfer rate (KBytes/sec)	625	937.5	937.5*	937.5	937.5*
FIRST CUSTOMER SHIPMENT	3Q87	3Q87	3Q87	3Q87	3Q87
U.S. OEM PRICE FOR 100 UNITS	\$350 (500)	\$425 (500)	\$325 (500)	\$525 (500)	\$460 (500)
COMMENTS	41 mm high	41 mm high *2,7 RLL code	41 mm high *With RLL controller	41 mm high *2,7 RLL code	41 mm high *With RLL controller

	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
MANUFACTURER					
DRIVE					
	ST238R	ST250R	ST251	ST251-1	ST251N
DISK/TREND GROUP	4	4	4	4	4
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
Nominal disk diameter	130 mm OD 40 mm ID	130 mm OD 40 mm ID	130 mm OD 40 mm ID	130 mm OD 40 mm ID	130 mm OD 40 mm ID
Recording medium	Oxide Coated	Oxide Coated	Thin Film	Thin Film	Thin Film
DRIVE: Heads	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	ST412	ST412	ST412	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 38.4*	U: 50.02*	U: 51.2	U: 51.2	F: 43.1
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 15,624*	U: 18,750*	U: 10,416	U: 10,416	F: 13,312
Data surfaces per spindle	4	4	6	6	4
Heads per data surface	1	1	1	1	1
Tracks per surface	615	667	820	820	818
Track density (TPI)	588	588	777	777	777
Maximum linear density (BPI)	14740 BPI* 9827 FCI	18897 BPI* 12598 FCI	9935	9935	14902 BPI* 9935 FCI
Rotational speed (RPM)	3600	3000	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor
Average positioning time (msec)	65 (including settling)	70 (including settling)	40 (including settling)	30 (including settling)	40 (including settling)
Average rotational delay (msec)	8.3	10	8.3	8.3	8.3
Average access time (msec)	73.3	80	48.3	38.3	48.3
Data transfer rate (KBytes/sec)	937.5*	937.5*	625	625	937.5
FIRST CUSTOMER SHIPMENT	1Q86	3Q88	2Q86	3Q87	1/87
U.S. OEM PRICE FOR 100 UNITS	\$265 (500)	--	\$450 (500)	\$520 (500)	\$520 (500)
COMMENTS	41 mm high *With RLL controller	41 mm high *With RLL controller	41 mm high	41 mm high	41 mm high *2,7 RLL Code

1988 DISK/TREND REPORT

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE	ST251R	ST4038	ST4051	ST4053	ST277N
DISK/TREND GROUP	4	4	4	4	5
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
Nominal disk diameter	130 mm OD	130 mm OD	130 mm OD	130 mm OD	130 mm OD
	40 mm ID	40 mm ID	40 mm ID	40 mm ID	40 mm ID
Recording medium	Thin Film	Oxide Coated	Thin Film	Thin Film	Thin Film
DRIVE: Heads	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	ST412	ST412	ST412	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 51.2*	U: 38.2	U: 50.9	U: 53.3	F: 64.9
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 15,624*	U: 10,416	U: 10,416	U: 10,416	F: 13,312
Data surfaces per spindle	4	5	5	5	6
Heads per data surface	1	1	1	1	1
Tracks per surface	820	733	977	1024	818
Track density (TPI)	777	750	960	1031	777
Maximum linear density (BPI)	14902 BPI*	9617	9720	9792	14902 BPI*
	9935 FCI				9935 FCI
Rotational speed (RPM)	3600	3600	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Band, Stepping Motor	Linear, Voice Coil	Linear, Voice Coil	Linear, Voice Coil	Rotary, Band, Stepping Motor
Average positioning time (msec)	40 (including settling)	40	40	28	40 (including settling)
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	48.3	48.3	48.3	36.3	48.3
Data transfer rate (KBytes/sec)	937.5*	625	625	625	937.5
FIRST CUSTOMER SHIPMENT	3Q87	1/85	1/85	1/87	1/87
U.S. OEM PRICE FOR 100 UNITS	\$425 (500)	\$560 (500)	\$605 (500)	--	\$565 (500)
COMMENTS	41 mm high *With RLL controller				41 mm high *2,7 RLL Code

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY
DRIVE					
	ST277R	ST296N	ST4096	ST4096N	ST4144N
DISK/TREND GROUP	5	5	5	5	6
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
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	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	SCSI	ST412	SCSI	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 76.9*	F: 85.0	U: 96	F: 83.9	F: 126.2
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 15,624*	F: 17,408	U: 10,416	F: 18,432	F: 18,432
Data surfaces per spindle	6	6	9	4	6
Heads per data surface	1	1	1	1	1
Tracks per surface	820	818	1024	1147	1147
Track density (TPI)	777	777	1031	1047	1047
Maximum linear density (BPI)	14902 BPI*	19869 BPI*	9792	20078 BPI*	20078 BPI*
Rotational speed (RPM)	9935 FCI 3600	13246 FCI 3600	3600	13385 FCI 3600	13385 FCI 3600
PERFORMANCE					
Actuator type	Rotary, Band, Stepping Motor	Rotary, Band, Stepping Motor	Linear, Voice Coil	Linear, Voice Coil	Linear, Voice Coil
Average positioning time (msec)	40 (including settling)	30 (including settling)	28	17	17
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	48.3	38.3	36.3	25.3	25.3
Data transfer rate (KBytes/sec)	937.5*	1250	625	1250	1250
FIRST CUSTOMER SHIPMENT	3Q86	4Q87	1Q86	3Q87	3Q87
U.S. OEM PRICE FOR 100 UNITS	\$465 (500)	\$950	\$880 (500)	\$1,000 (500)	\$1,100 (500)
COMMENTS	41 mm high *With RLL controller	41 mm high *2,7 RLL Code		*2,7 RLL Code	*2,7 RLL Code

MANUFACTURER	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEAGATE TECHNOLOGY	SEIKO EPSON	SEIKO EPSON
DRIVE	ST4144R	ST4192E	ST4192N	HMD-720	HMD-726
DISK/TREND GROUP	6	6	6	3	3
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Fixed	Fixed	Fixed	Fixed	Fixed
Nominal disk diameter	130 mm OD 40 mm ID	130 mm OD 40 mm ID	130 mm OD 40 mm ID	95 mm OD 25 mm ID	95 mm OD 25 mm ID
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
DRIVE: Heads	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	ST412	ESDI	SCSI	ST412	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 144*	U: 191.1	F: 168.5	U: 25.5	F: 20.8
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	U: 15,624*	U: 20,832	F: 18,432	U: 10,416	F: 8,448
Data surfaces per spindle	9	8	8	4	4
Heads per data surface	1	1	1	1	1
Tracks per surface	1024	1147	1147	615	615
Track density (TPI)	1031	1047	1047	910	910
Maximum linear density (BPI)	14688 BPI* 9792 FCI	20078 BPI* 13385 FCI	20078 BPI* 13385 FCI	12900	13791
Rotational speed (RPM)	3600	3600	3600	3528	3300
PERFORMANCE					
Actuator type	Linear, Voice Coil	Linear, Voice Coil	Linear, Voice Coil	Rotary, Stepping Motor	Rotary, Stepping Motor
Average positioning time (msec)	28	17	17	69 (including settling)	80 (including settling)
Average rotational delay (msec)	8.3	8.3	8.3	8.5	9.1
Average access time (msec)	36.3	25.3	25.3	77.5	89.1
Data transfer rate (KBytes/sec)	937.5*	1250	1250	625	625
FIRST CUSTOMER SHIPMENT	3Q87	--	3Q87	3Q86	4Q86
U.S. OEM PRICE FOR 100 UNITS	\$1,000 (500)	--	\$1,200 (500)	--	--
COMMENTS	*With RLL controller	*2,7 RLL Code	*2,7 RLL Code	41 mm high	41 mm high