

MANUFACTURER	MILTOPE	MILTOPE	MILTOPE	MILTOPE	MINISCRIBE
DRIVE					
	RDS-1720	RDS-3100	RDS-3200	RDS-3800	8225
DISK/TREND GROUP	6	6	6	7	3
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Generic type	Special	Fixed	Fixed	Fixed	Fixed
Nominal disk diameter	130 mm OD 40 mm ID	95 mm OD 25 mm ID	95 mm OD 25 mm ID	130 mm OD 40 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	ESDI, NTDS	SCSI	SCSI	SCSI, NTDS	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 159.3	U: 125	U: 250	U: 382	U: 24.1*
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	F: 19,456	U: 16,896	U: 19,456	U: 19,456	U: 15,625*
Data surfaces per spindle	8	8	8	15	2
Heads per data surface	1	1	1	1	1
Tracks per surface	1024	748	1348	1224	771
Track density (TPI)	960	980	1050	1075	898
Maximum linear density (BPI)	19794 BPI* 13196 FCI	23441 BPI* 15627 FCI	31800 BPI* 21200 FCI	19794 BPI* 13196 FCI	19900 BPI* 13266 FCI
Rotational speed (RPM)	3600	3600	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rack & Pinion, Stepping Motor
Average positioning time (msec)	23	25	19	18	68 (including settling)
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	31.3	33.3	27.3	26.3	76.3
Data transfer rate (KBytes/sec)	1250	1250	1500	1250	937.5*
FIRST CUSTOMER SHIPMENT	3Q86	2/89	12/89	12/89	1989
U.S. OEM PRICE FOR 100 UNITS	--	--	--	--	--
COMMENTS	Sold as militarized and ruggedized subsystem. *2,7 RLL Code. Removable disk assembly	Sold as militarized and ruggedized subsystem. *2,7 RLL Code. Removable disk assembly	Sold as militarized and ruggedized subsystem. *2,7 RLL Code. Removable disk assembly	Sold as militarized and ruggedized subsystem. *2,7 RLL Code. Removable disk assembly	41.3 mm high *With RLL controller

MANUFACTURER	MINISCRIBE	MINISCRIBE	MINISCRIBE	MINISCRIBE	MINISCRIBE
DRIVE	8225AT	8225S	8225XT	8425	8425F
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	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	PC AT	SCSI	PC XT	ST412	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 21.4	F: 20.9	F: 21.4	U: 25.6	U: 25.6
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	F: 14,336	F: 13,312	F: 13,312	U: 10,416	U: 10,416
Data surfaces per spindle	2	2	2	4	4
Heads per data surface	1	1	1	1	1
Tracks per surface	747	804	805	615	615
Track density (TPI)	898	898	898	804	804
Maximum linear density (BPI)	21227 BPI*	21227 BPI*	19900 BPI*	13412	13412
Rotational speed (RPM)	14151 FCI 3600	14151 FCI 3600	13266 FCI 3600	3600	3600
PERFORMANCE					
Actuator type	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor
Average positioning time (msec)	40 (including settling)	68 (including settling)	68 (including settling)	68 (including settling)	40 (including settling)
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	48.3	76.3	76.3	76.3	48.3
Data transfer rate (KBytes/sec)	1000	350	937.5	625	625
FIRST CUSTOMER SHIPMENT	4Q88	1989	2Q88	3Q84	1Q87
U.S. OEM PRICE FOR 100 UNITS	--	--	--	--	--
COMMENTS	41.3 mm high *2,7 RLL Code	41.3 mm high *2,7 RLL Code	41.3 mm high *2,7 RLL Code	41.3 mm high	41.3 mm high

**1989 DISK/TREND REPORT**

MANUFACTURER	MINISCRIBE	MINISCRIBE	MINISCRIBE	MINISCRIBE	MINISCRIBE
DRIVE	8425S	8051A	8051S	8438	8450 RLL
DISK/TREND GROUP	3	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	SCSI	PC AT	SCSI	ST412	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 20.9	F: 42.7	F: 45.1	U: 38.4*	U: 48.2*
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	F: 8,704	F: 14,336	F: 14,336	U: 15,624*	U: 15,625*
Data surfaces per spindle	4	4	4	4	4
Heads per data surface	1	1	1	1	1
Tracks per surface	612	745	799	615	771
Track density (TPI)	804	1109	1109	804	898
Maximum linear density (BPI)	13412	23202 BPI* 15468 FCI 3484	23202 BPI* 15468 FCI 3484	19900 BPI* 13266 FCI 3600	19900 BPI* 13266 FCI 3600
Rotational speed (RPM)	3600				
PERFORMANCE					
Actuator type	Rack & Pinion, Stepping Motor	Rotary, Voice Coil	Rotary, Voice Coil	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor
Average positioning time (msec)	68 (including settling)	28	28	68 (including settling)	45 (including settling)
Average rotational delay (msec)	8.3	8.6	8.6	8.3	8.3
Average access time (msec)	76.3	36.6	36.6	76.3	53.3
Data transfer rate (KBytes/sec)	625	1000	1000	937.5*	937.5*
FIRST CUSTOMER SHIPMENT	3Q86	2Q88	1Q88	4Q85	1988
U.S. OEM PRICE FOR 100 UNITS	--	--	--	--	--
COMMENTS	41.3 mm high	41.3 mm high *2,7 RLL Code	41.3 mm high *2,7 RLL Code	41.3 mm high *With RLL controller	41.3 mm high *With RLL controller

MANUFACTURER	MINISCRIBE	MINISCRIBE	MINISCRIBE	MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
DRIVE	8450AT	8450S	8450XT	MR335	MR533
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	130 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Oxide Coated	40 mm ID Oxide Coated
DRIVE: Heads	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Interface	PC AT	SCSI	PC XT	ST412	ST412
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 42.7	F: 42.4	F: 42.8	U: 54.1	U: 30.3
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	F: 14,336	F: 13,312	F: 13,312	U: 10,416	U: 10,416
Data surfaces per spindle	4	4	4	7	3
Heads per data surface	1	1	1	1	1
Tracks per surface	745	809	805	743	977
Track density (TPI)	898	898	898	1042	1028
Maximum linear density (BPI)	21227 BPI*	21227 BPI*	19900 BPI*	13599	9358
Rotational speed (RPM)	14151 FCI 3600	14151 FCI 3600	13266 FCI 3600	3600	3600
PERFORMANCE					
Actuator type	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor	Rack & Pinion, Stepping Motor	Rotary, Voice Coil	Rotary, Voice Coil
Average positioning time (msec)	40 (including settling)	68 (including settling)	68 (including settling)	20	28
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	48.3	76.3	54.3	28.3	36.3
Data transfer rate (KBytes/sec)	1000	937.5*	937.5	625	625
FIRST CUSTOMER SHIPMENT	4Q88	1989	2Q88	4Q88	3Q86
U.S. OEM PRICE FOR 100 UNITS	--	--	--	--	--
COMMENTS	41.3 mm high *2,7 RLL Code	41.3 mm high *2,7 RLL Code	41.3 mm high *2,7 RLL Code	41.3 mm high	41.3 mm high