

RSPEC-89

| | | | | | |
|---------------------------------------|---------------------------------|-----------------------|-----------------------------|---------------------------------|-----------------------|
| MANUFACTURER | MAXTOR | MAXTOR | MAXTOR | MAXTOR | MAXTOR |
| DRIVE | | | | | |
| | 2585A | 7080A | 7080S | 25128A | 7120A Cheyenne |
| DISK/TREND GROUP | 3 | 3 | 3 | 4 | 4 |
| MARKET | OEM | OEM | OEM | OEM | OEM |
| MEDIA: Generic type | Fixed | Fixed | Fixed | Fixed | Fixed |
| Nominal disk diameter | 65 mm OD | 95 mm OD | 95 mm OD | 65 mm OD | 95 mm OD |
| Recording medium | 20 mm ID Thin Film | 25 mm ID Thin Film | 25 mm ID Thin Film | 20 mm ID Thin Film | 25 mm ID Thin Film |
| DRIVE: Heads | MIG | MIG | MIG | Thin Film | MIG |
| Interface | PC AT | PC AT | SCSI | PC AT | PC AT |
| CAPACITY/RECORDING DENSITY | | | | | |
| Total capacity (Mbytes) FIXED | F: 85.4 | F: 81.4 | F: 80.7 | F: 128.2 | F: 130.4 |
| REMOVABLE | -- | -- | -- | -- | -- |
| Capacity per track (Bytes) | * | F: 18,432 | F: 18,432 | * | F: 21,504 |
| Data surfaces per spindle | 4 | 4 | 4 | 4 | 4 |
| Heads per data surface | 1 | 1 | 1 | 1 | 1 |
| Tracks per surface | 1092 | 1170 | 1155 | 1092 | 1516 |
| Track density (TPI) | 1993 | 1490 | 1490 | 2550 | 1800 |
| Maximum linear density (BPI) (FCI) | 39000 29000 | 30625 22969 | 30625 22969 | 46000 34500 | 34087 25565 |
| Recording code | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL |
| Rotational speed (RPM) | 3551 | 3703 | 3703 | 3551 | 3524 |
| 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) | 15 | 17 | 17 | 15 | 15 |
| Average rotational delay (msec) | 8.4 | 8.1 | 8.1 | 8.45 | 8.5 |
| Average access time (msec) | 23.4 | 25.1 | 25.1 | 23.45 | 23.5 |
| Data transfer rate (KBytes/sec) | 8000 | 1350 | 5000 synch. 3000 asynch. | 8000 | 6000 |
| FIRST CUSTOMER SHIPMENT | 4Q91 | 1Q90 | 3Q90 | 6/92 | 12/90 |
| COMMENTS | 17.5 mm high *Varies by zone | 25.4 mm high | 25.4 mm high | 17.5 mm high *Varies by zone | 25.4 mm high |

1992 DISK/TREND REPORT

| | | | | | |
|---------------------------------------|-----------------------------|---------------------------------|---------------------------------|---------------------------------|---|
| MANUFACTURER | MAXTOR | MAXTOR | MAXTOR | MAXTOR | MAXTOR |
| DRIVE | 7120S Cheyenne | 7213A | 7213S | LXT-213S/A | LXT-340S/A |
| DISK/TREND GROUP | 4 | 5 | 5 | 5 | 6 |
| 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 | MIG | Thin Film | Thin Film | Ferrite | Thin Film |
| Interface | SCSI | PC AT | SCSI | SCSI, PC AT | SCSI, PC AT |
| CAPACITY/RECORDING DENSITY | | | | | |
| Total capacity (Mbytes) FIXED | F: 130.4 | F: 212.78 | F: 211.57 | F: 213 | F: 340 |
| REMOVABLE | -- | -- | -- | -- | -- |
| Capacity per track (Bytes) | F: 21,504 | * | * | * | * |
| Data surfaces per spindle | 4 | 2 | 2 | 7 | 7 |
| Heads per data surface | 1 | 1 | 1 | 1 | 1 |
| Tracks per surface | 1516 | 1690 | 1690 | 1320 | 1560 |
| Track density (TPI) | 1800 | 1973 | 1973 | 1591 | 1613 |
| Maximum linear density (BPI) (FCI) | 34087 25565 | 42700 32000 | 42700 32000 | | 44000 33000 |
| Recording code | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL |
| Rotational speed (RPM) | 3524 | 3551 | 3551 | 3600 | 3600 |
| 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) | 15 | 15 | 15 | 15 | 15 |
| Average rotational delay (msec) | 8.5 | 8.45 | 8.45 | 8.3 | 8.3 |
| Average access time (msec) | 23.5 | 23.45 | 23.45 | 23.3 | 23.3 |
| Data transfer rate (KBytes/sec) | 5000 synch. 3000 asynch. | 8000 | 7500 synch. | 5000 synch. 3000 asynch. | 5000 synch. 3000 asynch. |
| FIRST CUSTOMER SHIPMENT | 12/90 | 4/92 | 4/92 | 3Q90 | 3Q90 |
| COMMENTS | 25.4 mm high | 25.4 mm high *Varies by zone | 25.4 mm high *Varies by zone | 41.3 mm high *Varies by zone | 41.3 mm high *Varies by zone 8 recording bands |

1992 DISK/TREND REPORT

RSPEC-91

| MANUFACTURER | MAXTOR | MAXTOR | MAXTOR | MAXTOR | MAXTOR |
|---------------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|---------------------------------|
| DRIVE | | | | | |
| | MXT-340A | MXT-340SL | XT-8380EH | XT-8380SH | LXT-535S/A |
| DISK/TREND GROUP | 6 | 6 | 6 | 6 | 7 |
| MARKET | OEM | OEM | OEM | OEM | OEM |
| MEDIA: Generic type | Fixed | Fixed | Fixed | Fixed | Fixed |
| Nominal disk diameter | 95 mm OD | 95 mm OD | 130 mm OD | 130 mm OD | 95 mm OD |
| Recording medium | 25 mm ID Thin Film | 25 mm ID Thin Film | 40 mm ID Thin Film | 40 mm ID Thin Film | 25 mm ID Thin Film |
| DRIVE: Heads | Thin Film | Thin Film | Ferrite | Thin Film | Thin Film |
| Interface | PC AT | SCSI-2 | ESDI | SCSI | SCSI-2, PC AT |
| CAPACITY/RECORDING DENSITY | | | | | |
| Total capacity (Mbytes) FIXED | F: 340 | F: 340 | U: 410.0 | F: 360.31 | F: 535 |
| REMOVABLE | -- | -- | -- | -- | -- |
| Capacity per track (Bytes) | * | * | U: 31,410 | F: 27,648 | * |
| Data surfaces per spindle | 5 | 5 | 8 | 8 | 11 |
| Heads per data surface | 1 | 1 | 1 | 1 | 1 |
| Tracks per surface | 2616 | 2616 | 1632 | 1632 | 1560 |
| Track density (TPI) | 2600 | 2600 | 1376 | 1376 | 1600 |
| Maximum linear density (BPI) (FCI) | 41400 31050 | 41400 31050 | 31596 21064 | 31596 21064 | 44000 33000 |
| Recording code | 1,7 RLL | 1,7 RLL | 2,7 RLL | 2,7 RLL | 1,7 RLL |
| Rotational speed (RPM) | 6300 | 6300 | 3600 | 3600 | 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) | 8.5 RD/9.0 WR | 8.5 RD/9.0 WR | 14.5 | 14.5 | 12 RD/13 WR |
| Average rotational delay (msec) | 4.76 | 4.76 | 8.3 | 8.3 | 8.3 |
| Average access time (msec) | 13.26/13.76 | 13.26/13.76 | 22.8 | 22.8 | 20.3/21.3 |
| Data transfer rate (KBytes/sec) | 8000 | 10000 synch. 5000 asynch. | 1875 | 4800 synch. | 6000 synch. 5000 asynch. |
| FIRST CUSTOMER SHIPMENT | 4Q92 | 3Q92 | 1Q87 | 1Q88 | 1Q91 |
| COMMENTS | 25.4 mm high *Varies by zone | 25.4 mm high *Varies by zone | | | 41.3 mm high *Varies by zone |

1992 DISK/TREND REPORT

| | | | | | |
|---------------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|---------------------------------|
| MANUFACTURER | MAXTOR | MAXTOR | MAXTOR | MAXTOR | MAXTOR |
| DRIVE | | | | | |
| | MXT-540AL | MXT-540SL | XT-8760EH | XT-8760SH | MXT-1240S |
| DISK/TREND GROUP | 7 | 7 | 7 | 7 | 8 |
| MARKET | OEM | OEM | OEM | OEM | OEM |
| MEDIA: Generic type | Fixed | Fixed | Fixed | Fixed | Fixed |
| Nominal disk diameter | 95 mm OD 25 mm ID | 95 mm OD 25 mm ID | 130 mm OD 40 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 | Thin Film | | Ferrite | Thin Film | Thin Film |
| Interface | PC AT | SCSI-2 | ESDI | SCSI | SCSI-2 |
| CAPACITY/RECORDING DENSITY | | | | | |
| Total capacity (Mbytes) FIXED | F: 540 | F: 540 | U: 768.9 | F: 675.58 | F: 1,240 |
| REMOVABLE | -- | -- | -- | -- | -- |
| Capacity per track (Bytes) | * | * | U: 31,410 | F: 27,648 | * |
| Data surfaces per spindle | 7 | 7 | 15 | 15 | 15 |
| Heads per data surface | 1 | 1 | 1 | 1 | 1 |
| Tracks per surface | 2616 | 2616 | 1632 | 1632 | 2512 |
| Track density (TPI) | 2600 | 2600 | 1376 | 1376 | 2600 |
| Maximum linear density (BPI) (FCI) | 41400 31050 | 41400 31050 | 31596 21064 | 31596 21064 | 42630 31973 |
| Recording code | 1,7 RLL | 1,7 RLL | 2,7 RLL | 2,7 RLL | 1,7 RLL |
| Rotational speed (RPM) | 6300 | 6300 | 3600 | 3600 | 6300 |
| 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) | 8.5 RD/9.0 WR | 8.5 RD/9.0 WR | 16.5 | 16.5 | 8.5 RD/9 WR |
| Average rotational delay (msec) | 4.76 | 4.76 | 8.3 | 8.3 | 4.76 |
| Average access time (msec) | 13.26/13.76 | 13.26/13.76 | 24.8 | 24.8 | 13.26/13.76 |
| Data transfer rate (KBytes/sec) | 8000 | 10000 synch. 5000 asynch. | 1875 | 4800 synch. | 10000 synch. 5000 asynch. |
| FIRST CUSTOMER SHIPMENT | 3Q92 | 3Q92 | 1Q87 | 1Q88 | 2Q92 |
| COMMENTS | 25.4 mm high *Varies by zone | 25.4 mm high *Varies by zone | | | 41.3 mm high *Varies by zone |

1992 DISK/TREND REPORT

RSPEC-93

| MANUFACTURER | MAXTOR | MAXTOR | MEMOREX TELEX | MEMOREX TELEX | MEMOREX TELEX |
|---------------------------------------|-----------------------------|-----------------------------|--|---|---|
| DRIVE | | | | | |
| | PO-12S | P1-17S | 3890-00J4 3890-02J4 | 3890-00K6 3890-02K6 | 3892-00K7 3892-02K7 |
| DISK/TREND GROUP | 8 | 8 | 7 | 8 | 8 |
| MARKET | OEM | OEM | PCM | PCM | PCM |
| MEDIA: Generic type | Fixed | Fixed | Fixed | Fixed | Fixed |
| Nominal disk diameter | 130 mm OD 40 mm ID | 130 mm OD 40 mm ID | 210 mm OD 100 mm ID | 210 mm OD 100 mm ID | 210 mm OD 100 mm ID |
| Recording medium | Thin Film | Thin Film | Oxide Coated | Oxide Coated | Thin Film |
| DRIVE: Heads | Thin Film | Thin Film | Ferrite | Ferrite | Thin Film |
| Interface | SCSI-2 | SCSI-2 | IBM | IBM | IBM |
| CAPACITY/RECORDING DENSITY | | | | | |
| Total capacity (Mbytes) FIXED | F: 1,029 | F: 1,503 | F: 630.24 | F: 1,890 | F: 1,890 |
| REMOVABLE | -- | -- | -- | -- | -- |
| Capacity per track (Bytes) | * | * | F: 47,476 | F: 47,476 | F: 58,664 |
| Data surfaces per spindle | 15 | 19 | 13.5 | 21 | 15 |
| Heads per data surface | 1 | 1 | 2 | 1 | 1 |
| Tracks per surface | 1632 | 1778 | 990 | 1916 | 2226 |
| Track density (TPI) | 1376 | 1498 | 1193 | 1456 | 2080 |
| Maximum linear density (BPI) (FCI) | 36548 27411 | 42981 32235 | 25211 18908 | 25055 18791 | 30706 23029 |
| Recording code | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL | 1,7 RLL |
| Rotational speed (RPM) | 3600 | 3600 | 3620 | 3600 | 4200 |
| 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) | 13 | 13 | 12 | 12 | 12 |
| Average rotational delay (msec) | 8.3 | 8.3 | 8.3 | 8.3 | 7.1 |
| Average access time (msec) | 21.3 | 21.3 | 20.3 | 20.3 | 19.1 |
| Data transfer rate (KBytes/sec) | 5000 synch. 3000 asynch. | 5000 synch. 3000 asynch. | 3000 | 3000 | 4260 |
| FIRST CUSTOMER SHIPMENT | 2Q91 | 2Q91 | 1989 | 1Q91 | 4Q91 |
| COMMENTS | *Varies by zone | *Varies by zone | PCM 3380J Drive has 8 or 16 spindles Manufactured by Fujitsu | PCM 3380-K Drive has 8 or 16 spindles Manufactured by Fujitsu | PCM 3390-2 Drive has 8 or 16 spindles Manufactured by Fujitsu |

1992 DISK/TREND REPORT