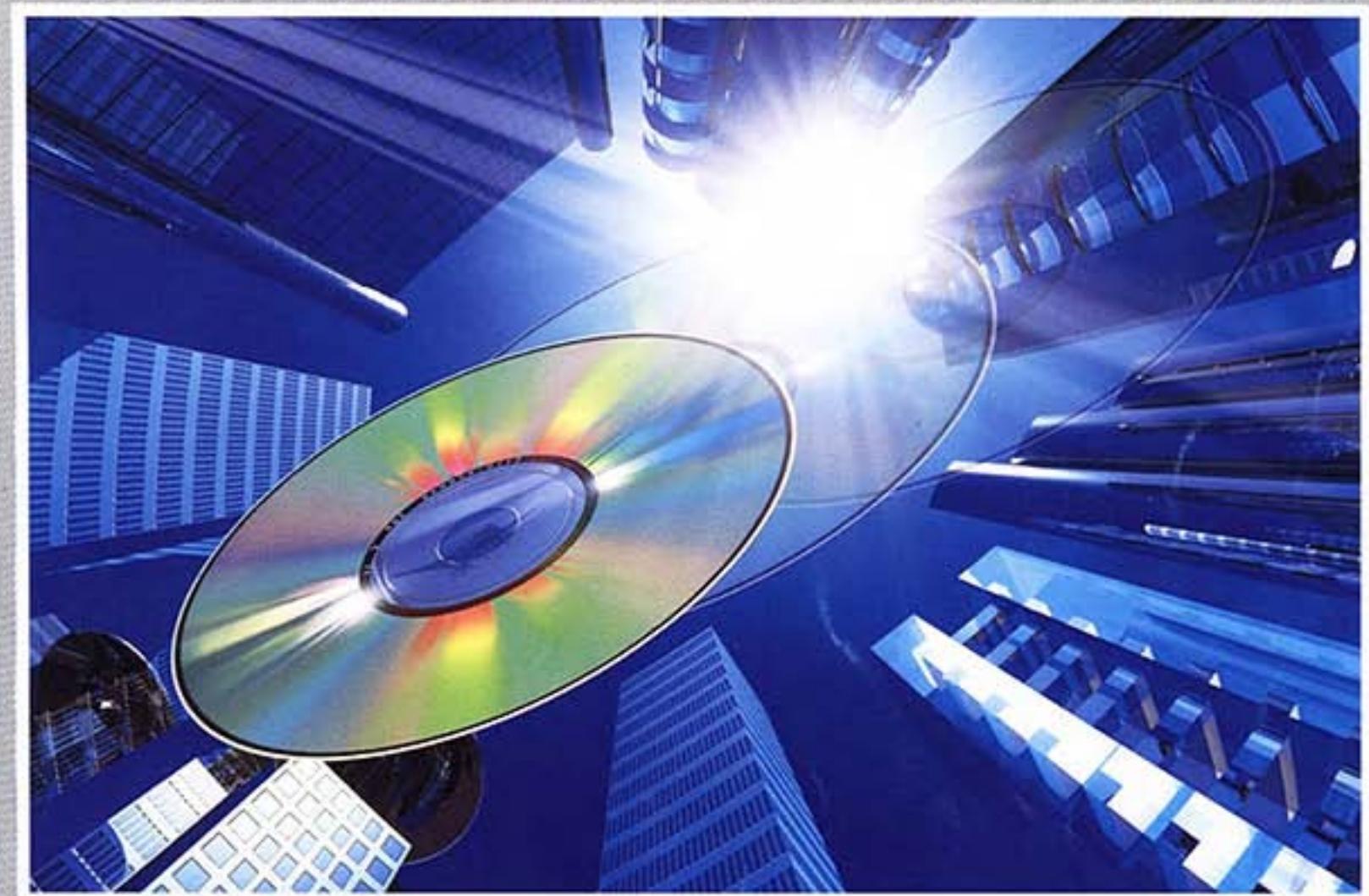


J40ELⅢ-DK Mediamaster 40

電動ディスク射出成形機 Electric Servo Drive Disc Injection Molding Machine



JSW Hiroshima Plant

JSW



JSW Hiroshima Plant

Mediamaster 40

JSWの技術がディスク成形の幅を広げます

JSW Technology Expands the Process Window of Disc Molding.

多くのディスク成形の経験から進化を遂げて、新電動ディスク成形機 Mediamaster 40 が登場しました。
Based on the rich experiences of disc molding, we have achieved a great technical progress and here is introduced Mediamaster 40, a new range of electrically operated disc molding machine.

特長 Features

★ハイサイクル Short cycle

- 高速 High speed
- 高応答 Quick response

★安定性 Stability

- オリジナル制御技術 Remarkable control techniques
- 専用スクリュ Exclusive screw design

★経済性 Economical

- 省エネ Energy saving
- 省スペース Space saving

★環境性 Environment friendly

- オイルレス Oilless
- 低騒音 Low noise
- 低振動 Low vibration

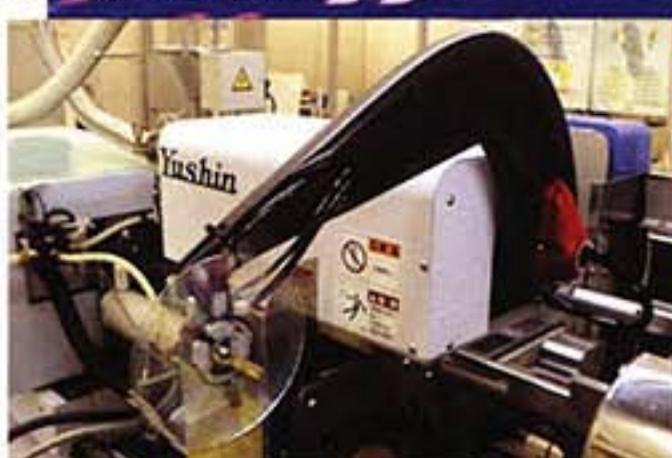


省スペースアレンジメント Space Saving

温調機(4系列)と取出機制御盤を内蔵することにより、省スペース化を実現しています。
Space saving with built-in mold temp. controllers (4 lines) & control panel of take-out robot



金型温調機(引出し可能) Mold temp. controllers (Slide out type)



高速取出機 High speed take-out robot

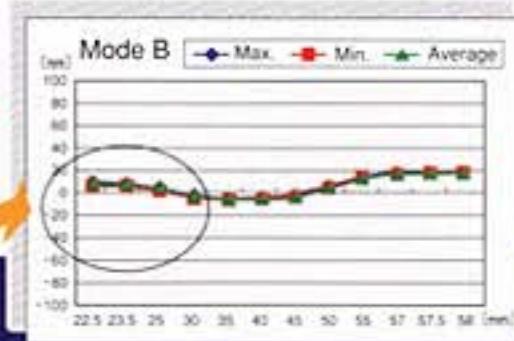
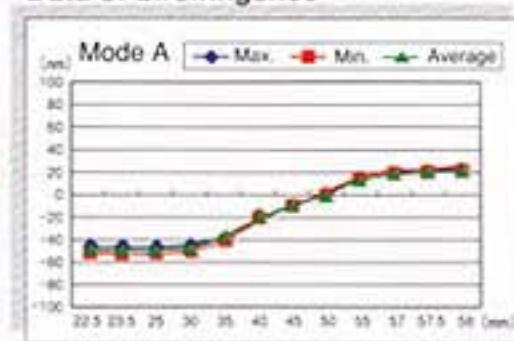
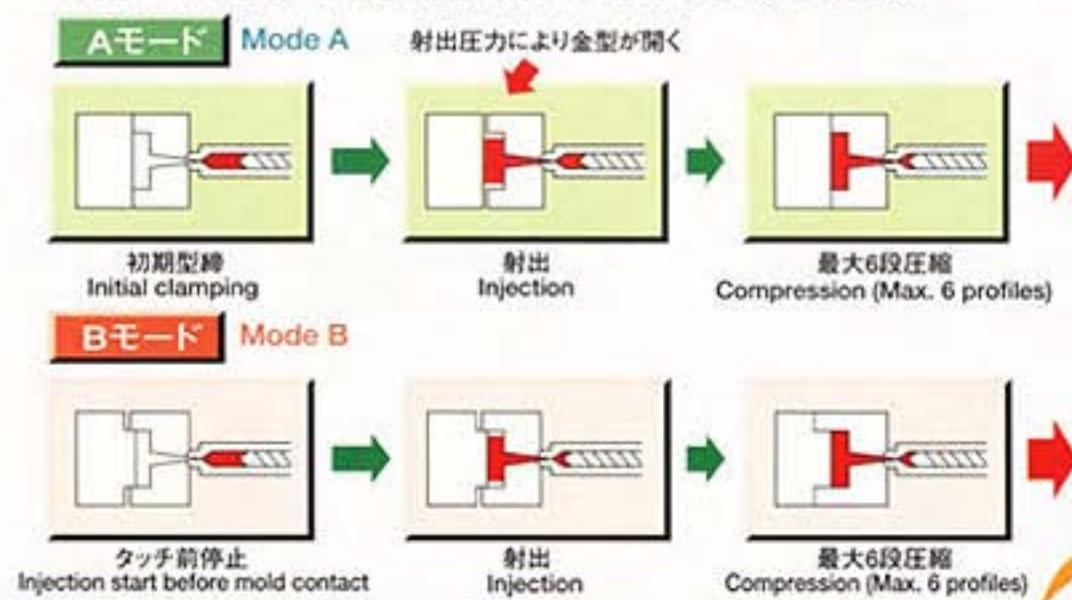
多彩な射出圧縮モード Wide Selection of Compression Mode for Quality Improvement

高精度な型盤位置制御を組み込んだ独自の射出圧縮成形機能を標準装備しています。

Fitted as part of standard specification is the injection-compression molding function with the built-in mold platen position control of high accuracy.

特許 (JPN PAT. No.1744469)

〈複屈折データ〉
Data of Birefringence



〈Bモード使用効果事例〉

- 製品:DVD-ROM
射出充填時の圧力を低下させ、内周部の複屈折と
そりなどの改善に有効です。

〈Effects Example of Mode B〉

- Product: DVD-ROM
Filling pressure will drop and effective in an improvement of
Birefringence and Tilt at inner diameter.

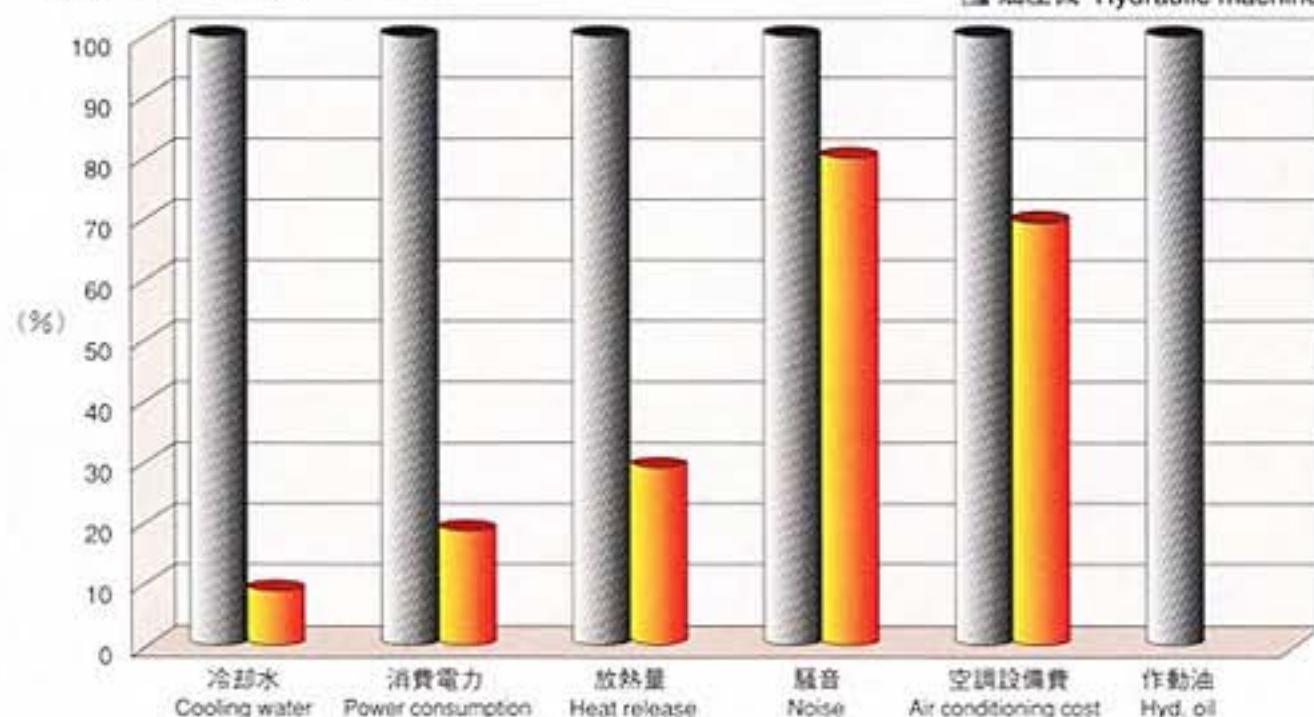
電動機がもたらすコストメリット Superb Cost Merit

電動機は油圧機に比べて、経済性・環境性において優れています。

Electric drive machine is excellent in Economy and Environment friendly compared with Hydraulic drive machine.

比較データ Comparison Data

■ 電動機 Electric machine
■ 油圧機 Hydraulic machine

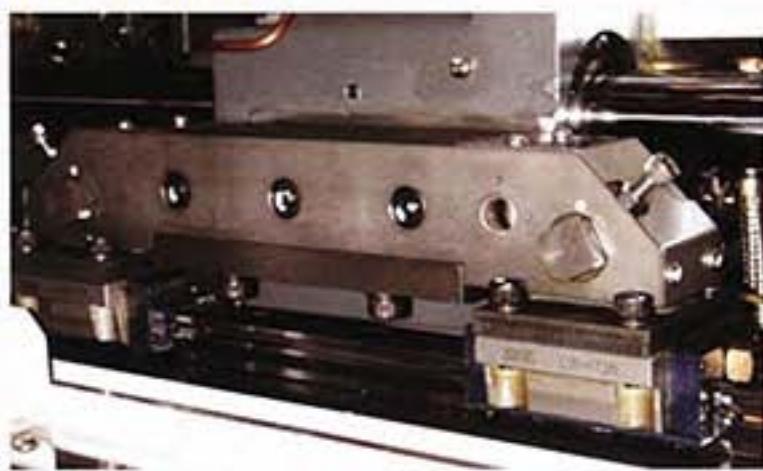


Mediamaster 40

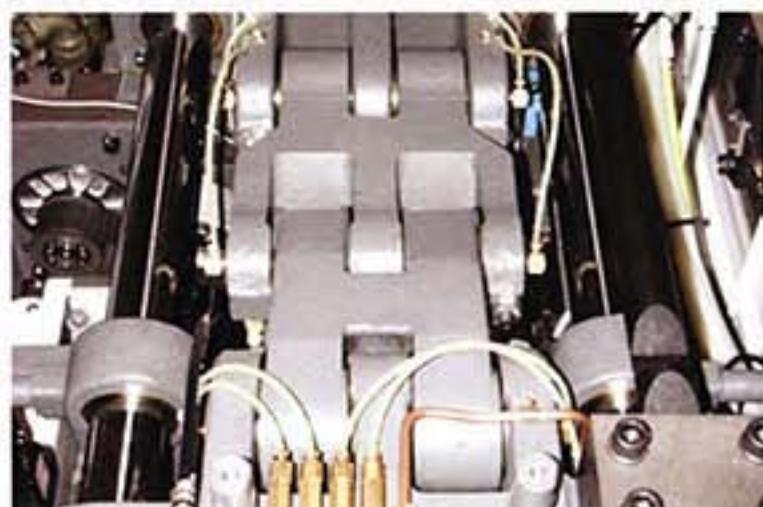
ハイサイクル成形を支える型締機構

High Speed Molding with Solid Clamping Mechanism

高剛性型盤
High Rigid Mold Platens



精密リニアガイドによる可動盤サポート
Movable Platen Support by Precision Linear Guides



高耐久設計のリンク機構
Link Mechanism of Durable Design

高剛性ダブルトグルリンク
High rigid double toggle mechanism

高速・応答性をさらにアップ

Boost in Injection Speed & Response

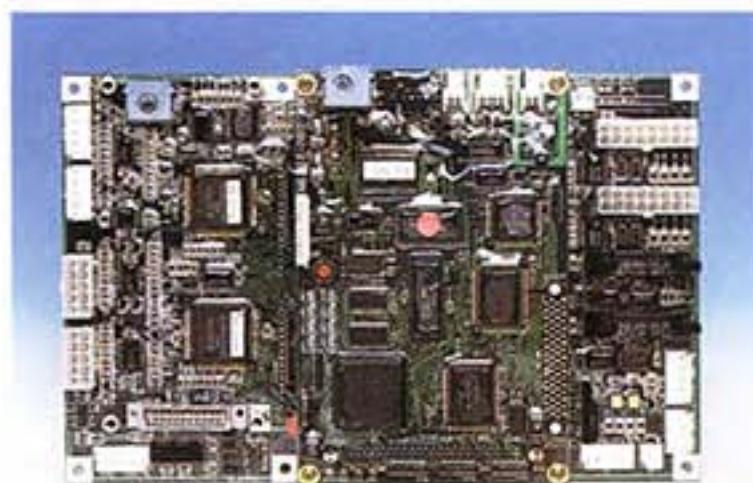
低慣性サーボモータ搭載
Low Inertia Servo Motor

最大射出速度
10%UP!
Max. Injection Speed

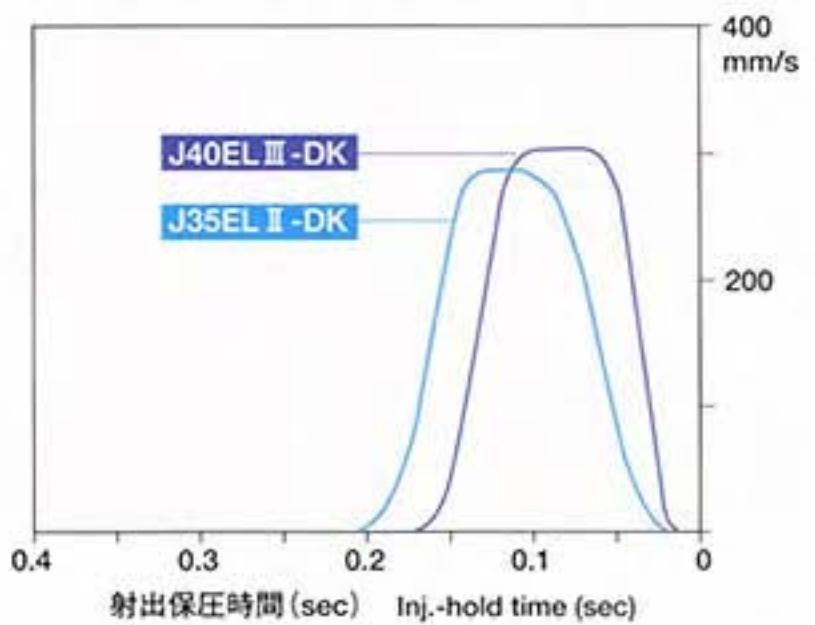
射出立ち上り時間
56%CUT!
Injection Speed Rise Time

オリジナルサーボドライブシステム
Proprietary System for Servo Motor Amplifier

サーボアンプ Servo Amplifier



射出速度波形 Injection Speed Wave Form



安定成形を実現する射出機構

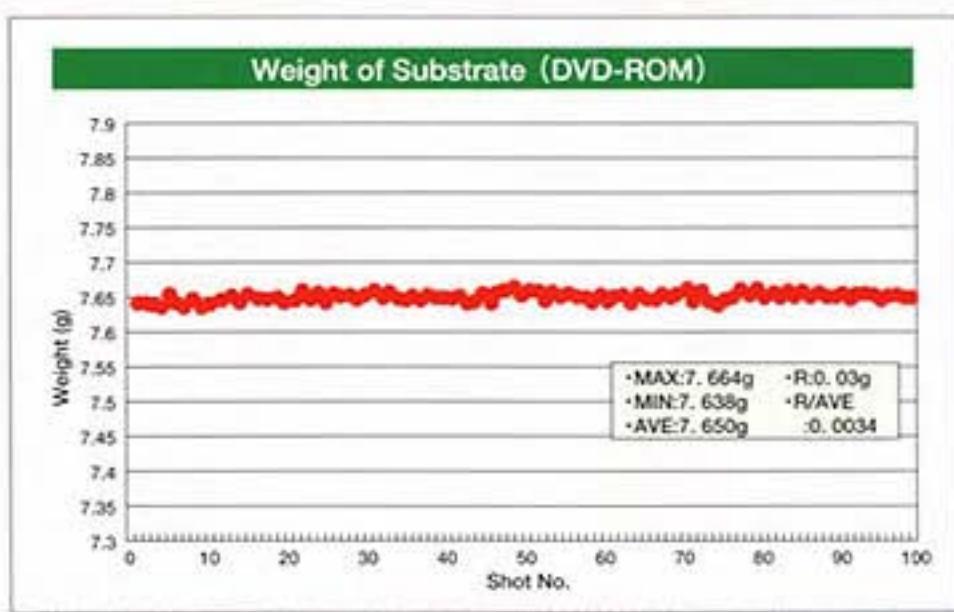
Superior Stable Injection Mechanism

スーパーM7スクリュ
Super M7 Screw



特殊逆流防止機構
Special Back Flow Prevention Mechanism

Nアロイ2000Fシリンダ
N-ALOY 2000F Cylinder

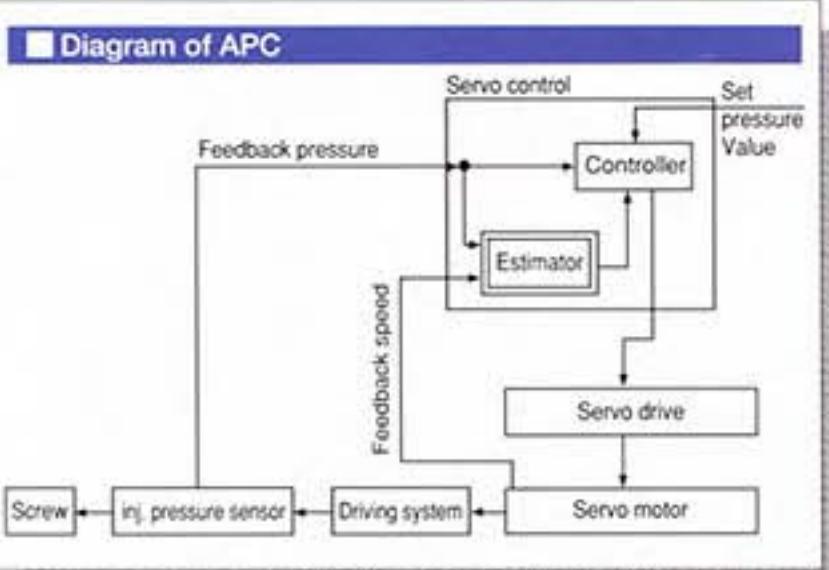
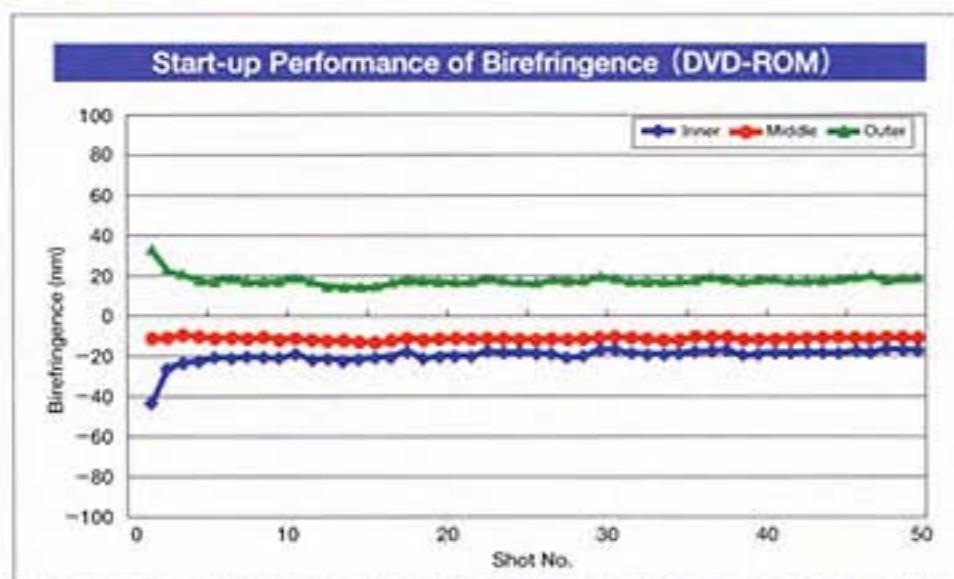


卓越した射出制御により生産性が向上

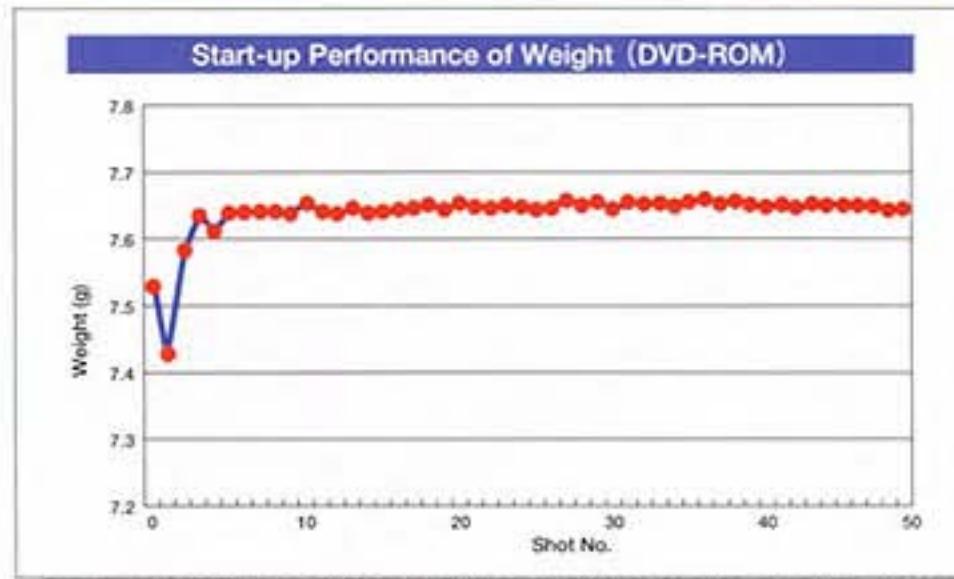
High Productivity with Efficient Control System

高応答シリンダ温度制御
Stable Cylinder Temperature Control

APC制御
Advanced Pressure Control



APC:High performance feedback control for Injection pressure



Mediamaster 40

SYS COM 2000 Controller

SYS COM 2000



TFT Color LCD with Touch Panel

A large TFT color LCD screen (10.4 inch) has been equipped. This provides a clear picture for operator-friendly viewing. The dialog-type operation means that conditions can be set easily, simply by touching the location that requires setting.

High-touch Keyboard

Easy-to-handle design with the mode selection keys arranged on the machine illustrated on the display screen.

Easy setting to eliminate erroneous handling.

(Storing 40 conditions with internal memory and a data card each)

Built-in Controller

The control panel of Systech 2000 controller is installed on the stationary platen.

TFT Color LCD with Touch Panel

Large TFT color LCD screen (10.4 inch) has been equipped. This provides a clear picture for operator-friendly viewing. The dialog-type operation means that conditions can be set easily, simply by touching the location that requires setting.

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Built-in Controller

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Language Switching Function

In response to globalized needs, the screen can be switched from Japanese, English and Chinese.

(Note) Some languages are not available.

Print-out

With a printer connection, it is possible to keep records of molding conditions, measured data of various sorts and injection wave form.

Centralized Control System (Option)

A network with a host computer is available.

Display

Overall Set Up Screen

Code	Range	Unit	Value
Overall Setting Screen	Force: 10.0 → 500.0 / 1000.0	N	100.0
Inj. delay	0.50	s	0.50
Inj. HP	5.00	N	5.00
Mode	1.00	N	1.00
Trans.	10.00	N	10.00
Cooling	5.00	N	5.00
Intens.	2.00	N	2.00
Protect	1.0	N	1.0
P01	20.0	N	20.0
P02	0.00	N	0.00
P03	200.0	N	200.0
P04	50.0	N	50.0
P05	5.00	N	5.00
P06	10.0	N	10.0
P07	5.00	N	5.00
P08	100.00	N	100.00
P09	100.0	N	100.0
P10	100.0	N	100.0
P11	100.0	N	100.0
P12	100.0	N	100.0
P13	100.0	N	100.0
P14	100.0	N	100.0
P15	100.0	N	100.0
P16	100.0	N	100.0
P17	100.0	N	100.0
P18	100.0	N	100.0
P19	100.0	N	100.0
P20	100.0	N	100.0
P21	100.0	N	100.0
P22	100.0	N	100.0
P23	100.0	N	100.0
P24	100.0	N	100.0
P25	100.0	N	100.0
P26	100.0	N	100.0
P27	100.0	N	100.0
P28	100.0	N	100.0
P29	100.0	N	100.0
P30	100.0	N	100.0
P31	100.0	N	100.0
P32	100.0	N	100.0
P33	100.0	N	100.0
P34	100.0	N	100.0
P35	100.0	N	100.0
P36	100.0	N	100.0
P37	100.0	N	100.0
P38	100.0	N	100.0
P39	100.0	N	100.0
P40	100.0	N	100.0
P41	100.0	N	100.0
P42	100.0	N	100.0
P43	100.0	N	100.0
P44	100.0	N	100.0
P45	100.0	N	100.0
P46	100.0	N	100.0
P47	100.0	N	100.0
P48	100.0	N	100.0
P49	100.0	N	100.0
P50	100.0	N	100.0
P51	100.0	N	100.0
P52	100.0	N	100.0
P53	100.0	N	100.0
P54	100.0	N	100.0
P55	100.0	N	100.0
P56	100.0	N	100.0
P57	100.0	N	100.0
P58	100.0	N	100.0
P59	100.0	N	100.0
P60	100.0	N	100.0
P61	100.0	N	100.0
P62	100.0	N	100.0
P63	100.0	N	100.0
P64	100.0	N	100.0
P65	100.0	N	100.0
P66	100.0	N	100.0
P67	100.0	N	100.0
P68	100.0	N	100.0
P69	100.0	N	100.0
P70	100.0	N	100.0
P71	100.0	N	100.0
P72	100.0	N	100.0
P73	100.0	N	100.0
P74	100.0	N	100.0
P75	100.0	N	100.0
P76	100.0	N	100.0
P77	100.0	N	100.0
P78	100.0	N	100.0
P79	100.0	N	100.0
P80	100.0	N	100.0
P81	100.0	N	100.0
P82	100.0	N	100.0
P83	100.0	N	100.0
P84	100.0	N	100.0
P85	100.0	N	100.0
P86	100.0	N	100.0
P87	100.0	N	100.0
P88	100.0	N	100.0
P89	100.0	N	100.0
P90	100.0	N	100.0
P91	100.0	N	100.0
P92	100.0	N	100.0
P93	100.0	N	100.0
P94	100.0	N	100.0
P95	100.0	N	100.0
P96	100.0	N	100.0
P97	100.0	N	100.0
P98	100.0	N	100.0
P99	100.0	N	100.0
P100	100.0	N	100.0
P101	100.0	N	100.0
P102	100.0	N	100.0
P103	100.0	N	100.0
P104	100.0	N	100.0
P105	100.0	N	100.0
P106	100.0	N	100.0
P107	100.0	N	100.0
P108	100.0	N	100.0
P109	100.0	N	100.0
P110	100.0	N	100.0
P111	100.0	N	100.0
P112	100.0	N	100.0
P113	100.0	N	100.0
P114	100.0	N	100.0
P115	100.0	N	100.0
P116	100.0	N	100.0
P117	100.0	N	100.0
P118	100.0	N	100.0
P119	100.0	N	100.0
P120	100.0	N	100.0
P121	100.0	N	100.0
P122	100.0	N	100.0
P123	100.0	N	100.0
P124	100.0	N	100.0
P125	100.0	N	100.0
P126	100.0	N	100.0
P127	100.0	N	100.0
P128	100.0	N	100.0
P129	100.0	N	100.0
P130	100.0	N	100.0
P131	100.0	N	100.0
P132	100.0	N	100.0
P133	100.0	N	100.0
P134	100.0	N	100.0
P135	100.0	N	100.0
P136	100.0	N	100.0
P137	100.0	N	100.0
P138	100.0	N	100.0
P139	100.0	N	100.0
P140	100.0	N	100.0
P141	100.0	N	100.0
P142	100.0	N	100.0
P143	100.0	N	100.0
P144	100.0	N	100.0
P145	100.0	N	100.0
P146	100.0	N	100.0
P147	100.0	N	100.0
P148	100.0	N	100.0
P149	100.0	N	100.0
P150	100.0	N	100.0
P151	100.0	N	100.0
P152	100.0		

ネットワーク対応(オプション) Adaptability to Network (Option)

CAMOT LINK10では、LANアダプタを追加する事により、お客様がご使用のネットワークを介してデータの送受信を行う事ができます。

With a LAN adapter mounted, the LINK 10 is able to transmit and receive data by way of the network currently applied at customers.

* ■ LANアダプタ(オプション)は、各成形機に1台づつ必要。
* A LAN adaptor (option) is necessary for each molding machine.



お客様工場内イーサネットLAN(TCP/IP)
Network LAN (TCP/IP) in users' factory.

最大10台接続可
Max. of 10 units can be connected.



各種ディスク金型への対応 In Order to Produce High Quality Discs

お客様のご要望に合った金型への対応が可能です。

We are now ready to serve the users with a wide range of molds for disc to meet users' requirements.

対応製品 : CD-DA, VCD, CD-ROM,
CD-R, CD-RW,
DVD-ROM (5,9,10),
DVD-R, DVD-RAM, DVD-RW, 他

Disc Formats : CD-DA, VCD, CD-ROM,
CD-R, CD-RW,
DVD-ROM (5,9,10),
DVD-R, DVD-RAM, DVD-RW, etc.

テスト施設紹介(射出機センター内) Test Equipments (at Technical Center)

〈クリーンルーム〉

- クリーン度:クラス1000
- 成形機:35、40ton
- 材料供給機

〈Clean Room〉

- Deg. of cleanliness : Class 1000
- Molding machines : 35 and 40 ton clamp force
- Material feeder



〈測定機〉

- 機械特性評価機
- ディスク複屈折測定機
- 光学特性評価機
- トンネル顕微鏡(STM)
- 歪み検査機
- プラスチック寸法測定機
- シャドウグラフ 他

〈Measuring Instrument〉

- Mechanical characteristic evaluating unit
- Disc birefringence measuring instrument
- Optical characteristic evaluating unit
- STM
- Strain detector
- Dimension measuring instrument
- Shadow graph

クリーンルームに各機器を設置し、ディスク成形テストの実施及び、お客様のご要望にお応えします。

A clean room is provided and equipped with testing devices and instruments to meet customers' needs for testing and other requirements for the disc.