



Shibaura Machine

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DC-OS SERIES

Large size diecasting machine

NOTE

The contents and specifications in this catalog are subject to changes without notice in order to effect improvements

Recycled Paper

SM12048-500-MP
Printed in Japan

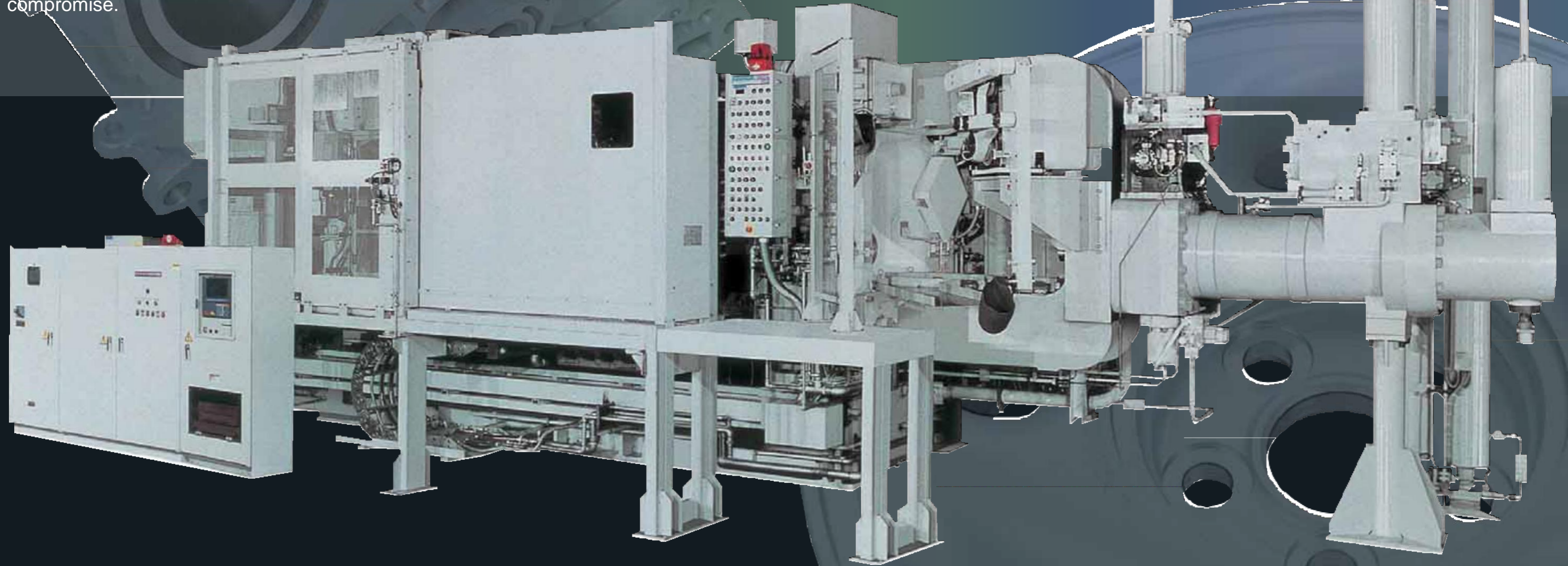
Catalog DC0085-CED-03

DC-CS series

SHIBAURA MACHINE has placed into production more than 500 large die casting machines all around the world starting with their first DC1500 over 40 years ago.

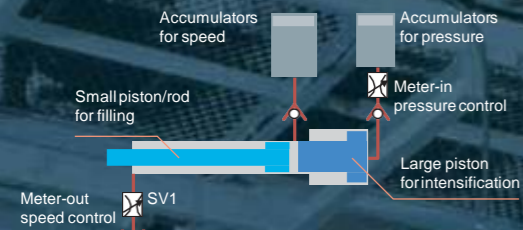
The experience gathered by long time achievements and vast amount of data, has been transformed into an optimum design and environmentally considerate DC-CS series machine.

SHIBAURA MACHINE offering cutting-edge technology without compromise.



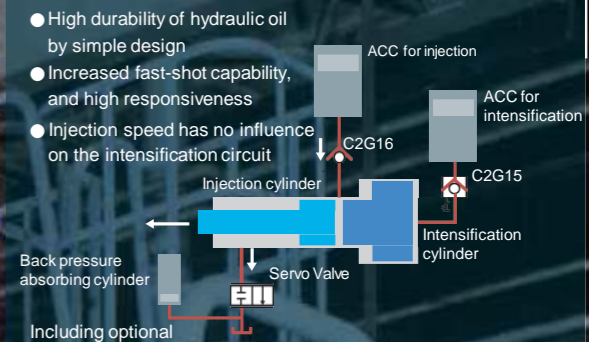
FEATURE OF INJECTION CYLINDER

We believe the speed (filling) process and the pressure (squeeze) process should be independently controlled.



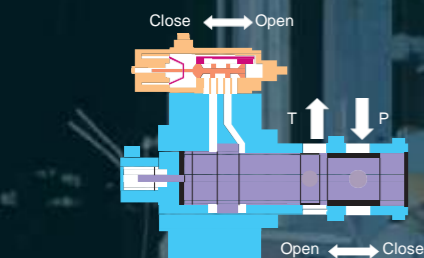
SYSTEM	FURTHER ACHIEVED PERFORMANCE
Small piston/rod for filling	Low impact pressure at the end of filling
Meter-out speed control	High-response real-time control
Meter-in pressure control	Pressure buildup control with fidelity to setting

INJECTION CYLINDER HYDRAULIC CIRCUIT



SERVO VALVE SYSTEM

- Excellent safety, stability and durability by the two directional main servo
- High response, less susceptible to contamination by voice coil type pilot servo valve

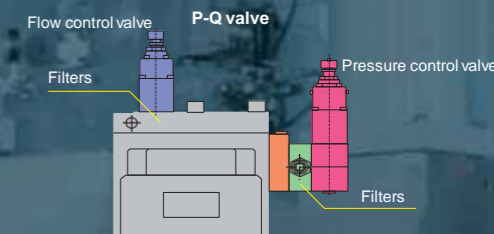


Optional specification

PRESSURE/FLOW CONTROL VALVE

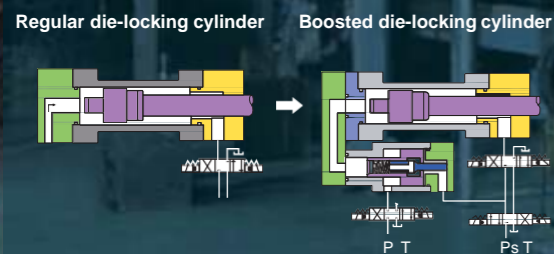
P-Q control (pressure/flow control by TOSCAST)
For maintenance ease, electrohydraulic pressure control valve is integrated with flow control valve, having two filters built-in as a measure for contamination.

Automatic control of pres/flow, impact elimination, surge pressure reduction and energy saving



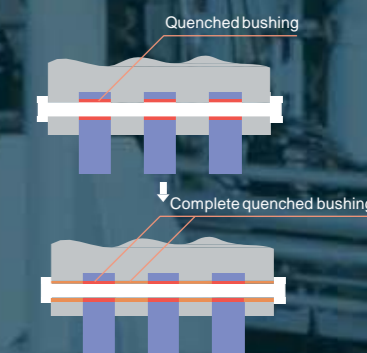
BOOSTED DIE-LOCKING CYLINDER

Boosted die-locking cylinder feature (1650: optional; 2250/2500: standard)
Fast cycle: die-opening/closing time reduced by 1sec or more.



HIGH-DURABILITY TOGGLE

Thick link pin with complete bushings system is adopted.
Enhanced machine quality by adopting the durable parts.



Large size diecasting machine Numerical specification

Specification item	Unit	DC1250CS	DC1650CS2	DC2250CS2	DC2500CS2	DC3500CS
Die locking force	kN	12500	16500	22500	25000	35000
Injection force	kN	420~1080	530~1370	530~1530	530~1530	680~1700
Tie bar spacing (V×H)	mm	1250×1120	1500×1300	1500×1550	1700×1600	1750×1550
Die thickness	mm	1500~600	1700~800	1700~900	1700~900	2000~1000
Die stroke	mm	900	1050	1200	1350	1450

New TOSCAST (Die Casting Machine Total Control System) Aimed at Future Open Network Systems

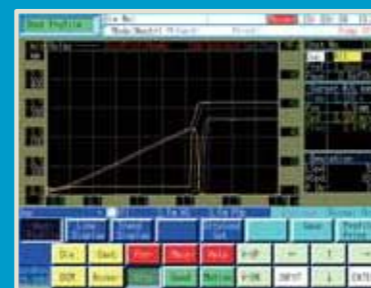
New TOSCAST has enhanced its operational ease and high performance. The expanded function* for host communication and the provision for LAN* enrich the centralized control function, making the machine that should be recommended to those who are looking for new models of die-casting production in the future.



Various conditions for casting can be set, and the batch loading is possible.

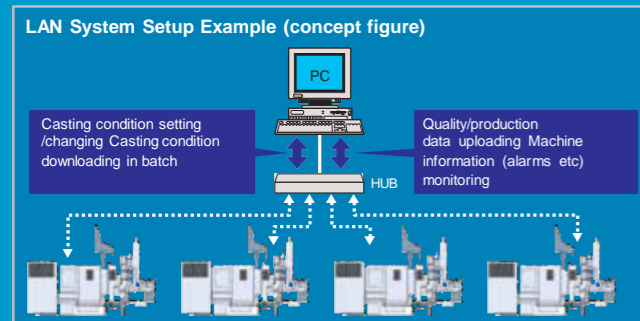


SHIBAURA MACHINE's long-time accumulated know-how is now applied to theoretical calculations, making them more practical.



Shot profiles and machine motions can be displayed; alarms and their output methods can be set.

Note: * option



A 128MB memory card has been adopted, making its memory capacity more than 20 times the ones adopted so far.

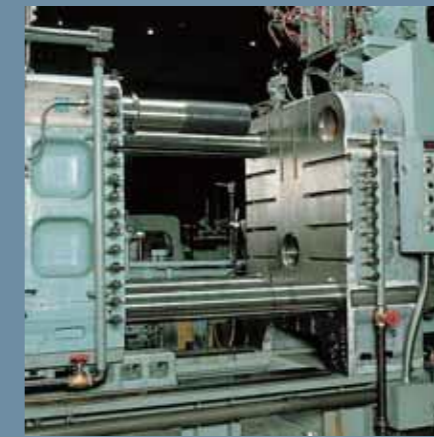


Touch panel keys are adopted for the operation, making it possible to input just by touching softly.

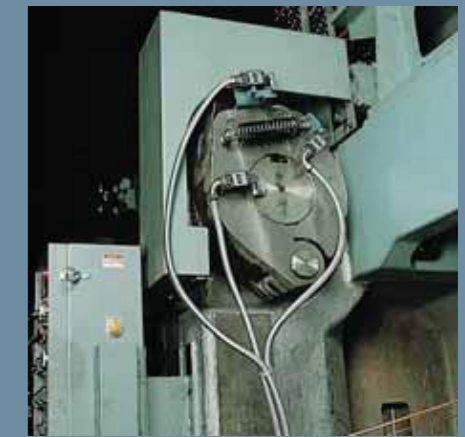
Peripheral equipment



Die clamp
Uses hydraulic pressure clamping and a self-locking mechanism.



Tie-bar drawout unit
For simple and quick mounting of side-core dies without removal of the cylinder.



C-plate clamp unit
Eliminates the need for push rod installation for die changing.



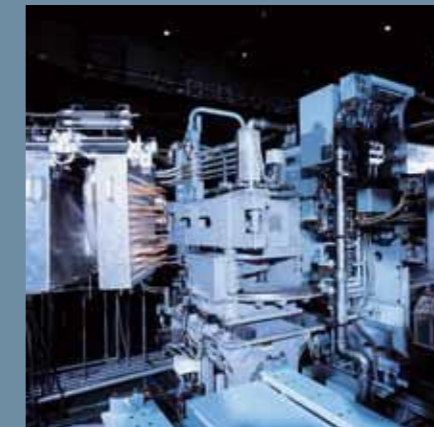
Die support
For easy horizontal and vertical die position adjustment.



Die loading unit
Use of guide rollers for lateral transfer of die into machine eliminates the use of a crane for greatly reduced setup time.



Product Take-out Device
Take out robot allows many operations after casting.



Automatic Spray Device
New spray device for large-sized machines, with consistent spray accuracy and fast-cycle specification.



Automatic Ladle Device
New ladle device for large-sized machines, pursuing an improved ladling accuracy and fast cycles.