



Manufactured as per International design, Plate model for highest mechanical stability, accurate centering of load and excellent repeatability. Fully Automatic pace rate control, auto stop and auto release on failure of test specimen, can be attached with flexural load frame or 500 KN load frame.

# Compliance With Following International Standards: EN 12390-4, ASTM C39, AASHTO T22, IS: 14858 (2000)

## **Automatic Test Execution:**

Once the machine has been switched on, the specimen positioned and centered, the only required operations are

### Set test parameters - including load rate:

- Press the start button
- Tighten the pressure valve
- The machine automatically: starts the rapid approach; switches to the test speed once the specimen comes into contact with the upper platen; automatically stops the motor upon specimen failure
- Release the pressure valve
- The test execution conforming to Standards can be easily proved.
- Working on 240V, 50-60Hz, single phase.
- Dual stage pump assuring fast piston approach and precise test execution
- Test execution conforming to EN 12390-4, ASTM C39, AASHTO T22
- Controllable pace rate from 3 KN/Sec to 10 KN/Sec.
- Auto stop after completion of each test.
- · Soft platen-to-specimen contact and smooth load rate control from the very beginning of the ramp

Note: Specifications are subject to change.

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frame can be attached    Saving of records    infinite records with Pen drive	Technical Specification	
Ram Dia in mm    205 mm      Ram Travel in mm    50 mm      Vertical daylight in mm    350 mm      Horizontal daylight in mm    350 mm      Weight approx in kg    765 Kg      Least count    0.1 KN or better      Load indication and Control    7" Coloured touch screen controller      Accuracy    ± 1%      Pace rate controlling accuracy    1%      Pumping    Motorized      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, pressure release automatic after completion of test      Calculation of result    Automatic      Holding of Max.Load    Available      Pace Rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Bar Graph    Not Required      Multi Channel operation    3 channel operation possible, flexural and compression frame can be attached      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and P	Capacity	2000 Kn
Ram Travel in mm    50 mm      Vertical daylight in mm    350 mm      Horizontal daylight in mm    350 mm      Weight approx in kg    765 Kg      Least count    0.1 KN or better      Load indication and Control    7" Coloured touch screen controller      Accuracy    ± 1%      Pace rate controlling accuracy    1%      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, machine stops after completion of test      Auto Release of Pressure after    Available, pressure release automatic after completion of test      Auto Release of Pressure after    Available      Calculation of result    Automatic      Holding of Max.Load    Available      Pace Rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Multi Channel operation    3 channel operation possible, flexural and compression frame can be attached      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time,	Platen size in mm	300 mm Dia
Vertical daylight in mm    350 mm      Horizontal daylight in mm    350 mm      Weight approx in kg    765 Kg      Least count    0.1 KN or better      Load indication and Control    7" Coloured touch screen controller      Accuracy    ± 1%      Pace rate controlling accuracy    1%      Pumping    Motorized      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, machine stops after completion of test      Auto Release of Pressure after    Available, pressure release automatic after completion      specimen failure    of test      Calculation of result    Automatic      Holding of Max.Load    Available      Pace Rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Multi Channel operation    3 channel operation possible, flexural and compression frame can be attached      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2	Ram Dia in mm	205 mm
Horizontal daylight in mm350 mmWeight approx in kg765 KgLeast count0.1 KN or betterLoad indication and Control7" Coloured touch screen controllerAccuracy± 1%Pace rate controlling accuracy1%PumpingMotorizedPump SpeedDual speedMotorServo motorReadingDigitalRelease valve operationNot RequiredAuto stop after failure of specimenAvailable, machine stops after completion of testAuto stop after failure of specimenAvailable, pressure release automatic after completionspecimen failureof testCalculation of resultAutomaticHolding of Max.LoadAvailablePace Rate or Rate of Loading indicationAvailableSaving of recordsinfinite records with Pen drivePen drive slotInbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)Real time graphAvailable, on controller itselfPrinter interface (Direct connectivity to printer w/o computer)In builtComputer operation software and data Acquisition softwareAvailable at extra costModulus of Elasticity CalculationAvailable at extra costFlexural attachmentPossible, all calculations will be made automatically	Ram Travel in mm	50 mm
Weight approx in kg    765 Kg      Least count    0.1 KN or better      Load indication and Control    7" Coloured touch screen controller      Accuracy    ± 1%      Pace rate controlling accuracy    1%      Pumping    Motorized      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, machine stops after completion of test      Auto Release of Pressure after    Available, pressure release automatic after completion of test      Auto Release of Presult    Automatic      Holding of Max.Load    Available      Pace Rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Bar Graph    Not Required      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)      Real time graph    Available, on controller itself      Printer interface (Direct connectivity to printer w/o computer)    In built      Computer operation software and data Available at	Vertical daylight in mm	350 mm
Least count    0.1 KN or better      Load indication and Control    7" Coloured touch screen controller      Accuracy    ± 1%      Pace rate controlling accuracy    1%      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, machine stops after completion of test      Auto stop after failure    of test      Calculation of result    Automatic      Holding of Max.Load    Available      Pace rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Bar Graph    Not Required      Multi Channel operation    3 channel operation possible, flexural and compression frame can be attached      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)      Real time graph    Available at extra cost      Printer interface (Direct connectivity to printer w/o computer)    In built      Computer operation software and data    Available at extra cost      Acqu	Horizontal daylight in mm	350 mm
Load indication and Control7" Coloured touch screen controllerAccuracy± 1%Pace rate controlling accuracy1%PumpingMotorizedPump SpeedDual speedMotorServo motorReadingDigitalRelease valve operationNot RequiredAuto stop after failure of specimenAvailable, machine stops after completion of testAuto Release of Pressure afterAvailable, pressure release automatic after completionspecimen failureof testCalculation of resultAutomaticHolding of Max.LoadAvailablePace Rate or Rate of Loading indicationAvailableOperator skill to control Pace RateNot RequiredBar GraphNot RequiredMulti Channel operation3 channel operation possible, flexural and compression frame can be attachedSaving of recordsinfinite records with Pen drivePen drive slotInbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)Real time graphAvailable at extra costPrinter interface (Direct connectivity to printer w/o computer)In builtComputer operation software and data Acquisition softwareAvailable at extra costModulus of Elasticity CalculationAvailable at extra costModulus of Elasticity CalculationAvailable at extra costFlexural attachmentPossible, all calculations will be made automatically	Weight approx in kg	765 Kg
Accuracy± 1%Pace rate controlling accuracy1%PumpingMotorizedPump SpeedDual speedMotorServo motorReadingDigitalRelease valve operationNot RequiredAuto stop after failure of specimenAvailable, machine stops after completion of testAuto Release of Pressure afterAvailable, pressure release automatic after completionspecimen failureof testCalculation of resultAutomaticHolding of Max.LoadAvailablePace Rate or Rate of Loading indicationAvailableOperator skill to control Pace RateNot RequiredBar GraphNot RequiredMulti Channel operation3 channel operation possible, flexural and compression frame can be attachedSaving of recordsinfinite records with Pen drivePen drive slotInbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)Real time graphAvailable, on controller itselfPrinter interface (Direct connectivity to printer w/o computer)In builtComputer operation software Displacement controlled operationAvailable at extra costModulus of Elasticity CalculationAvailable at extra costFlexural attachmentPossible, all calculations will be made automatically	Least count	0.1 KN or better
Pace rate controlling accuracy    1%      Pumping    Motorized      Pump Speed    Dual speed      Motor    Servo motor      Reading    Digital      Release valve operation    Not Required      Auto stop after failure of specimen    Available, machine stops after completion of test      Auto Release of Pressure after    Available, pressure release automatic after completion of test      Calculation of result    Automatic      Holding of Max.Load    Available      Pace Rate or Rate of Loading indication    Available      Operator skill to control Pace Rate    Not Required      Bar Graph    Not Required      Multi Channel operation    3 channel operation possible, flexural and compression frame can be attached      Saving of records    infinite records with Pen drive      Pen drive slot    Inbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)      Real time graph    Available at extra cost      Printer interface (Direct connectivity to printer w/o computer)    Available at extra cost      Computer operation software and data    Available at extra cost      Acquisition software    Available at extra cost      Displacement control	Load indication and Control	7" Coloured touch screen controller
PumpingMotorizedPump SpeedDual speedMotorServo motorReadingDigitalRelease valve operationNot RequiredAuto stop after failure of specimenAvailable, machine stops after completion of testAuto Release of Pressure afterAvailable, pressure release automatic after completionspecimen failureof testCalculation of resultAutomaticHolding of Max.LoadAvailablePace Rate or Rate of Loading indicationAvailableOperator skill to control Pace RateNot RequiredBar GraphNot RequiredMulti Channel operation3 channel operation possible, flexural and compression frame can be attachedSaving of recordsinfinite records with Pen drivePen drive slotInbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)Real time graphAvailable, on controller itselfPrinter interface (Direct connectivity to printer w/o computer)In builtComputer operation software and data Acquisition softwareAvailable at extra costDisplacement controlled operationAvailable at extra costFlexural attachmentPossible, all calculations will be made automaticallySplitting Tensile TestPossible, all calculations will be made automatically	Accuracy	±1%
Pump SpeedDual speedMotorServo motorReadingDigitalRelease valve operationNot RequiredAuto stop after failure of specimenAvailable, machine stops after completion of testAuto Release of Pressure afterAvailable, pressure release automatic after completionspecimen failureof testCalculation of resultAutomaticHolding of Max.LoadAvailablePace Rate or Rate of Loading indicationAvailableOperator skill to control Pace RateNot RequiredBar GraphNot RequiredMulti Channel operation3 channel operation possible, flexural and compression frame can be attachedSaving of recordsinfinite records with Pen drivePen drive slotInbuilt pen drive slot. (saves reading in excel format) (Record date-time, Sr no and Peak load and N/mm2)Real time graphAvailable, on controller itselfPrinter interface (Direct connectivity to printer w/o computer)In builtComputer operation software and data Acquisition softwareAvailable at extra costDisplacement controlled operationAvailable at extra costFlexural attachmentPossible, all calculations will be made automaticallySplitting Tensile TestPossible, all calculations will be made automatically	Pace rate controlling accuracy	1%
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Displacement controlled operationAvailable at extra costModulus of Elasticity CalculationAvailable at extra costFlexural attachmentPossible, all calculations will be made automaticallySplitting Tensile TestPossible, all calculations will be made automatically	Acquisition software	
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Splitting Tensile Test      Possible, all calculations will be made automatically	-	Possible, all calculations will be made automatically
	Splitting Tensile Test	
Auto internal Calibration without Available		
proving ring		
Piston over travel safety cut off Available at extra cost		Available at extra cost
Over load safety cut off Available	-	Available
Shot circuit protection Available	-	
Overall Dimensions 585 X 560 X 1420 (L X W X D) mm		

Note: Specifications are subject to change.

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## Frame:

- · Four column high stiffness welded frame tested for stability.
- · Heavy duty spherical seat, allowing initial free alignment at the initial contact with the specimen and automatic jamming up to the end of test.
- Surface hardness of platen is 55 HRC, flatness tolerance 0.03 mm. Traceable certificate of surface hardness available on request.
- Piston travel limit switch (Extra cost)
- Emergency stop button

### Salient fetchers of data manager PC software (Optional at Extra cost.):

- Two way communication i.e machine operates from computer and from the touch screen controller both (Stat, stop, save data and save graph)
- · Results directly saved in excel file
- · Graph also saved in excel file
- Capable to save customer name, other details of cutomer, ageing of cube moulds, identification mark of the cube mould, date and time of testing
- · Capable to print direct report from the computer
- Capable to select different test perameters like pace rate, sample size and area from the computer (software)

Note: It is recommended to use the machine with 3 KVA servo stabilizer

Note: Specifications are subject to change.



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