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 **FLUIDOMAT**

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<http://www.fluidomat.com>

# Company profile

Fluidomat Limited an ISO 9001:2000 certified Company manufactures a wide range of fixed speed and variable speed fluid couplings for industrial and automotive drives upto 3500 KW since 1971.

Management of the Company is lead by Mr. Ashok Jain, Chairman & Managing Director, an electrical engineer with all round experience since 1971. Mr. Jain pioneered technology development and manufacture of fluid couplings indigenously in India with launch of Fluidomat Fluid Couplings in the year 1971.

The employees of the Company are highly experienced professional experts in their respective field. The total strength of 170 employees have long association of many years with the Company.

Modern in-house Non Ferrous and Cast Iron Foundries produce high quality intricate castings required for Fluid Couplings.

The fluidomat factory at Dewas, near Indore in Central India, is equipped with sophisticated manufacturing, research and development, quality control and testing facilities to ensure quality and consistency.

## Driving lean, delivering quality.



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### Quality System:

The Company is an ISO 9001:2000 Certified Company with strong Quality System.

The ISO Certification Covers:

Design, Manufacture, Supply, Installation and Commissioning of - Fluid Couplings (including Constant Fill/Constant Speed and Scoop Control Variable Speed).

### Technology and Application Engineering:

Fluidomat fluid couplings are manufactured with own technology developed in the year 1971. The technology, product design and performance is continuously upgraded by continuous R & D. Fluidomat fluid couplings and the technology is well proven over the years by continuous supplies made to various sectors of industries for different applications

Fluidomat provides application-engineering expertise; drive solution and energy saving support to its clients. The Company has gained rich experience in application engineering with proven performance of its couplings in almost all sectors of industries.

### Design Capabilities:

The technology for design and manufacture of fluid couplings and flexible couplings is indigenously developed by Fluidomat and undergoes continuous upgradation and improvements. The Company has strong capability to develop and evaluate new designs, ensuring its leadership in the field. With its indigenous technology and development capability, Fluidomat is among the few select companies in the world who possess their own technology, and is able to provide custom-built solutions. The Company has well equipped modern design office consisting of engineering Work Station Auto CAD 2000 with 3D view operation. Team of qualified and experienced designers associated with the Company since past 20 years and more.



Powering  
innovations  
Research and development.



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# Application and Clients

Thousands of Fluidomat fluid couplings have been supplied for more than 150 applications for various plants and industries. Applications include Conveyors, Fans, Pumps, Crushers, Grinders, Pulverizers, Ball Mills, Wire Stranding, Paper Machinery, Cement Machinery, Digesters, Churners, Mixers, Beaters, Centrifuges, Oil Extraction Machines, Mining Machines and host of other industrial machineries.

## Client Profile

### Plant & Machinery Manufacturers

ABB, ADANI POWER, ADANI PROJECTS, BALDROCHI, BHEL, BRAITHWATE, BURN STANDARD, CETHAR VESSAL, DEMACH, DCIPS, ELECON, ENERGO, EPIL, FFE, FLAKT, FLENDER, HEC, HDOL, HSML, IJT, INDURE, KIRLOSKAR, L&T, MAMC, MBE, METSO, MECON, NAGARJUN, NAVYUG ENGINEERING, OILEX, PENWALT, PROMAC, ROLLWELL CONVEYORS, REITZ, SAYAJI IRON, TAKRAF, TECPRO, THERMAX, THYSSENKRUPP, TLT, TRF, WALCHANDNAGAR INDUSTRIES, WARMAN etc.

## Approvals from the Consultants

Fluidomat Fluid Couplings are approved by all leading industries and consultants in the country. The consultants include ACC, BHEL, BIRLA TECH, TECH SERVICES, DCPL, DESIN, HOWE INDIA, HOLTECH, JACOBS, MECON, MN DASTUR, NTPC, TATA CONSULTANTS, TATA PROJECTS, SAMSUNG, DOOSAN (Korea), HYUNDAI (Korea), ALASTOM (France), Sulzer etc.



# Excellence

Exceeding customer expectations.

# Products

## Fixed Speed / Constant Fill Fluid Couplings

### Fluidomat SM, SMD, SM-DX

Hollow shaft compact. Type SMD with delayfil chamber and SM-DX comes with extra long delayfil chamber. Rubber coupling on end.



### Fluidomat HF, HFD, HF-DX

Radially displaceable coupling enabling prealignment of driving and driven shafts. Metallic disc flexible coupling on input and output ends.



### Fluidomat T-12:

Radially Displaceable fluid couplings with resilient driving plate on input side and metallic disc flexible coupling on output side.



### Fluidomat SMP:

Pulley type fluid coupling for Belt Drive.



### Fluidomat SM-AR & HF-AR:

SM-AR are with hollow shaft on one end and rubber coupling on other end. HF-AR are radially displaceable fluid couplings with metallic disc couplings on both ends.



### Alpha-P

Alfa-P couplings are pulley type for Belt drive and are offered in different executions of with and without delayfil chamber.



## Steel Body Fluid Couplings

### Fluidomat WF / WF-DF:

Water Filled fluid Couplings with hollow shaft on one end and rubber coupling on another end. Comes with the option of delayfil chamber.



### Fluidomat CBSF / CBSF-DF:

Water - Oil emulsion filled or Oil filled fluid Couplings with hollow shaft on one end and rubber coupling on another end. Comes with the option of delayfil chamber.



### Fluidomat SF / SF-HF:

With driving plate on one end & metallic disc flexible coupling on another end. Radially Displaceable fluid coupling.

### Execution HF for WF and CBSF Couplings:

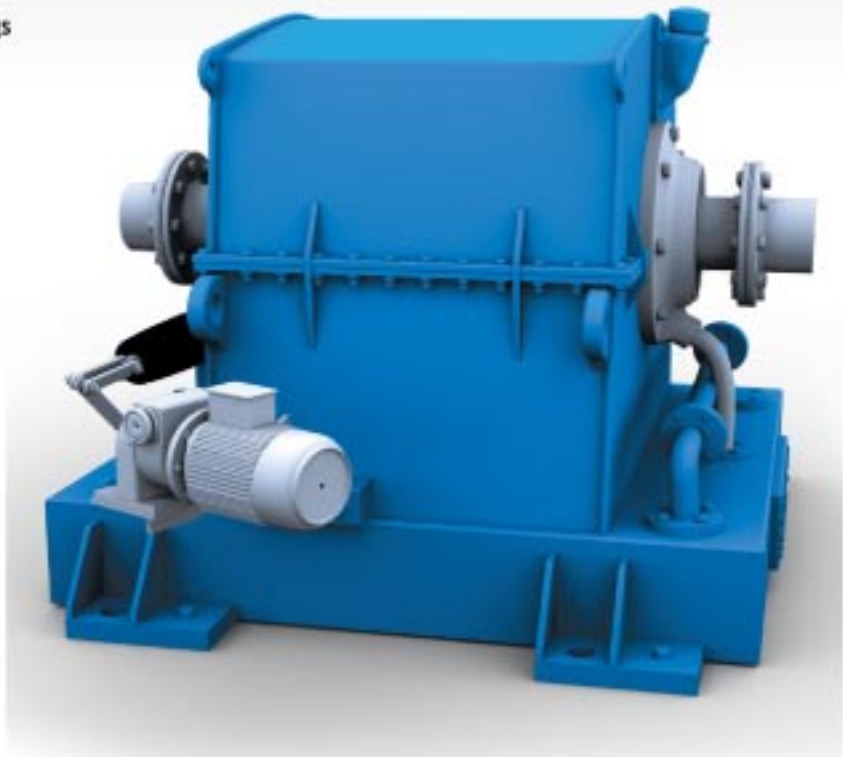
With metallic disc flexible coupling on both ends. Radially Displaceable fluid coupling.





**Fluidomat SC:**

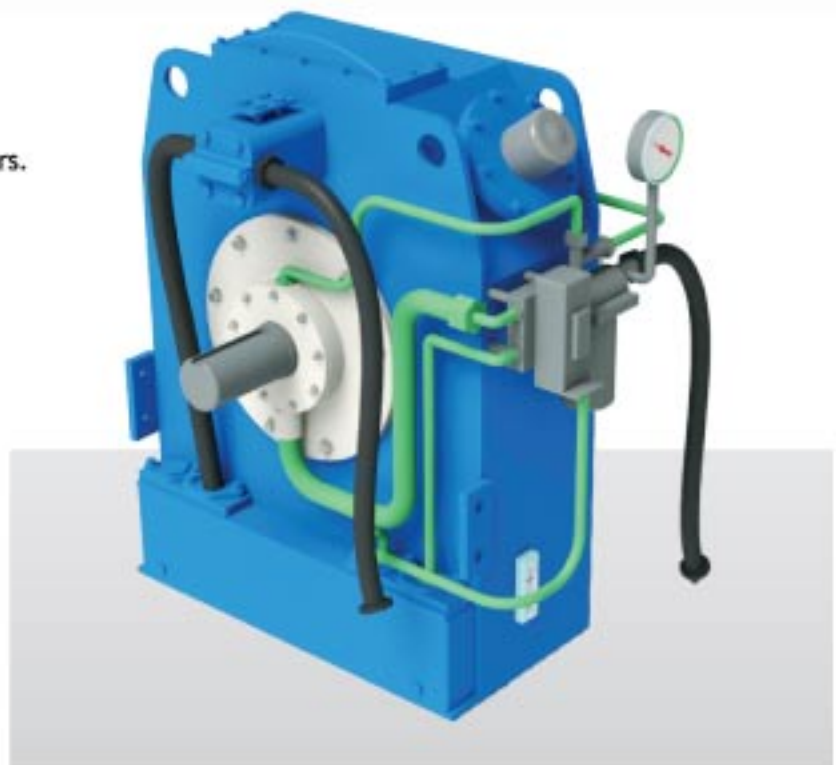
Scoop Controlled Variable Speed Fluid Couplings



**Fluid Couplings Internal Combustion Engine**

**Fluidomat HLN :**

Fluid Couplings for Internal Combustion Engine for wood chippers and stone crushers.



# Industries we serve ...

## Various Sectors of Industries

Thermal and Nuclear Power Generation

Cement

Steel and Metal

Petrochemical

Textile and Sugar

Defense

Coal, Lignite and Ore Mining

Paper

Fertilizers and Chemicals

Washeries

Harbour handling

Automobile for Automotive Applications





# Clients' Speak

## Hyundai Samho Heavy Industries Company Limited - Korea.

"This is to certify that M/s Fluidomat Limited, Dewas (India) have supplied 27 numbers of SMD - 11 (including other sizes), for YOUNGHUNG Power Plant I & II, coal handling system in Korea. These have been commissioned on 30<sup>th</sup> April 2003 and are working satisfactorily till date."

Mr. C.K. Shin  
Manager - Engineering Department  
Coal Handling System

## PT. Ispat Indo - Surabaya : Indonesia

"We are using 2 numbers of variable speed fluid coupling model SC - 16 at 1150 KW @ 740 RPM of M/s Fluidomat Limited, Dewas (India) for our main fans of the Dust Collector System. These are running satisfactorily since inception i.e. 1996."

Mr. M. G. Vishwanath  
General Manager

## Indo Gulf Fertilizers - Jagdishpur

"This is to certify that that M/s Fluidomat Limited, Dewas (India) had supplied fluid coupling to replace the clutch between our FD Fan and Motor for major modifications in the Primary Reformer for power optimization and energy saving. The coupling was put in service in October 2003. Performance of the coupling is found to be very satisfactory. We have been able to achieve a saving of approximately 400 KW of power due to replacement of clutch with Fluid Coupling."

Mr. Ajay Singh  
General Manager

## Indo Gulf Fertilizers - Jagdishpur

"This is to certify that that M/s Fluidomat Limited, Dewas (India) had supplied variable speed fluid coupling for our boiler feed pump

with drive rating of 750KW @ 3000 RPM. The coupling was put in service in December 2004. The coupling is operating satisfactorily since installation and is providing automatic speed regulation on our continuously operating boiler feed pump and the projected power saving has been achieved."

Mr. M.C. Mishra  
Manager - Mechanical.

## Khaitan Chemicals & Fertilizers Limited

"This is to certify that Khaitan Chemicals & Fertilizers Limited had purchased a variable speed fluid coupling for 258KW @ 3000 RPM Fan Drive from M/s Fluidomat Limited, Dewas (India). The coupling was procured and installed in the year 1996 and is operating successfully and satisfactorily till date."

Mr. S. P. Jain  
Senior Vice President - Project Development

## Sponge Iron India Limited

"This is to certify that variable speed fluid coupling of M/s Fluidomat Limited, Dewas (India) was installed on our ID Fan 250 KW @ 1490 RPM Motor in February 1995. The coupling is working satisfactorily since then and we have been able to achieve an energy saving of 1330 units per day."

Mr. K. S. N. Murthy  
General Manager - Works

## National Aluminium Company Limited (NALCO)

"We wish to inform you that variable speed fluid coupling of M/s Fluidomat Limited, Dewas (India) was installed on our Hydrate Filtration Overflow Pump of 400 KW @ 1400 RPM capacity in June 1992. The performance of the coupling is very satisfactory and no abnormalities have been observed so far."

Mr. K. N. Sinha  
Deputy General Manager (E & MS)

## Tata Chemicals Limited - Mithapur

"This is to certify that that M/s Fluidomat Limited, Dewas (India) had supplied variable speed fluid coupling to be installed between the Crusher Drier Fan and Motor (Cement Plant) with duplex oil circulation system with the objective of power optimization and energy saving. The coupling was put in service in May 2005. Performance of the coupling is found to be satisfactory till date. We have been able to achieve a power saving on the Fan Drive of rating 1480 KW @ 992 RPM."

Mr. P. R. Thaker  
Manager Projects.

## Thermax Babcock & Wilcox Limited

"Fluidomat make variable speed fluid coupling for 470 HP @ 740 RPM motor rating with all accessories for Fan application was supplied in 1996 for our Phoenix Paper Mill Project at Thailand. The coupling is working satisfactorily since then."

Mr. Abhay Kher  
Manager - Projects

## Grasim Industries Limited - Nagda

"Fluidomat make variable speed fluid coupling was commissioned in December 2006 on Fan Drive. We are able to achieve a power saving of 25KW after the installation of the fluid coupling."

Mr. R. B. Saboo  
General Manager - Power Plant

# Health, safety, and the environment

Our commitment.



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# Application Chart

INDUSTRY → APPLICATION	Power Plants	Sponge Iron & Steel	Metal	Cement and Paper	Fertilizer Chemicals and Petrochemical	Ore and Coal Mining, Washeries	Harbour Handling	Others
Ball and Rod Mills		●	●	●	●	●		
Bucket Elevators	●	●	●	●	●			●
Car & Wagon Tippers	●	●	●	●	●	●	●	●
Centrifuges of Various Types				●	●			
Clinker Grinders	●	●	●	●				
Construction Machinery	●	●	●	●			●	●
Conveyor of Various Types	●	●	●	●	●	●	●	●
Rope ways	●	●				●		
Cranes	●	●	●	●	●			●
Crushers & Pulverisers	●	●	●	●	●	●		●
Desolventiser and Toaster				●				●
Extruders, Soap Plodders & Cutters					●			●
Pumps of various types	●	●	●	●	●	●		●
Fork Lifts		●	●	●	●			●
ID - FD Fans & Blowers	●	●	●	●	●	●		●
Ladle Cars		●	●					
Mining Machinery						●		
Mixers and Grinders of Various types		●	●	●	●			●
Bucket Wheel Excavators and Scrappers			●	●	●	●		●
Stacker cum Reclaimer	●	●	●	●	●	●	●	●
Vibrating Screens	●	●	●			●		●
Wire Drawing, Stranding and cabling								●

- Constant Speed Coupling
- Scoop Control/Variable Speed Coupling



# The path of performance

Product Development Milestone

- 1971 → Type Std/E - Traction Type Fluid Couplings.
- 1973 → Type SMP - Pulley type Fluid Couplings.
- 1976 → Type SF - Steel Body Fluid Couplings.
- 1978 → Type SC - Scoop Control Fluid Couplings.
- 1982 → Type SM and SMD hollow shaft Fluid Couplings.
- 1983 → Type CBSF - Steel Body hollow shaft Fluid Couplings.
- 1986 → Type WF - Water Filled Fluid Couplings.
- 1988 -1992 → Expanded the range of above types of Fluid Couplings.
- 1992 → Twin Fluid Coupling Unit for Hydrodynamic Steering Assistance Unit in different type of tanks including Battle Tank and Tracked Combat Vehicles.
- 1994 → Scoop Control Fluid Coupling size SC-16.
- 1996 → Type HF/HFD - Radially displaceable Fluid Couplings.
- 2001 → Type Delta SC - Compact Scoop Control Fluid Couplings.
- 2002 → Type TFV - traction Type Fluid Couplings to replace Fluidrive FCU Couplings.
- 2003 → Type DX - SM & HF Couplings with extra long delayfil chamber.
- 2004 → Type AR - Delayfil Coupling size SMD-11AR with Annular Ring for very low starting torque and controlled acceleration of conveyors.
- 2009 → Type HLN - Coupling for Internal Combustion Engine Drive for Stone Crusher and Wood Chipping Application.
- 2010 → Type HD-P - Coupling for Belt drive. Couplings can be supplied without pulley and the pulley within specified range. Pulley can be manufactured and installed by the buyer at his end.
- 2011 → SC-1330 - Scoop Controlled fluid coupling size 1330.





**Works & Head Office**

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