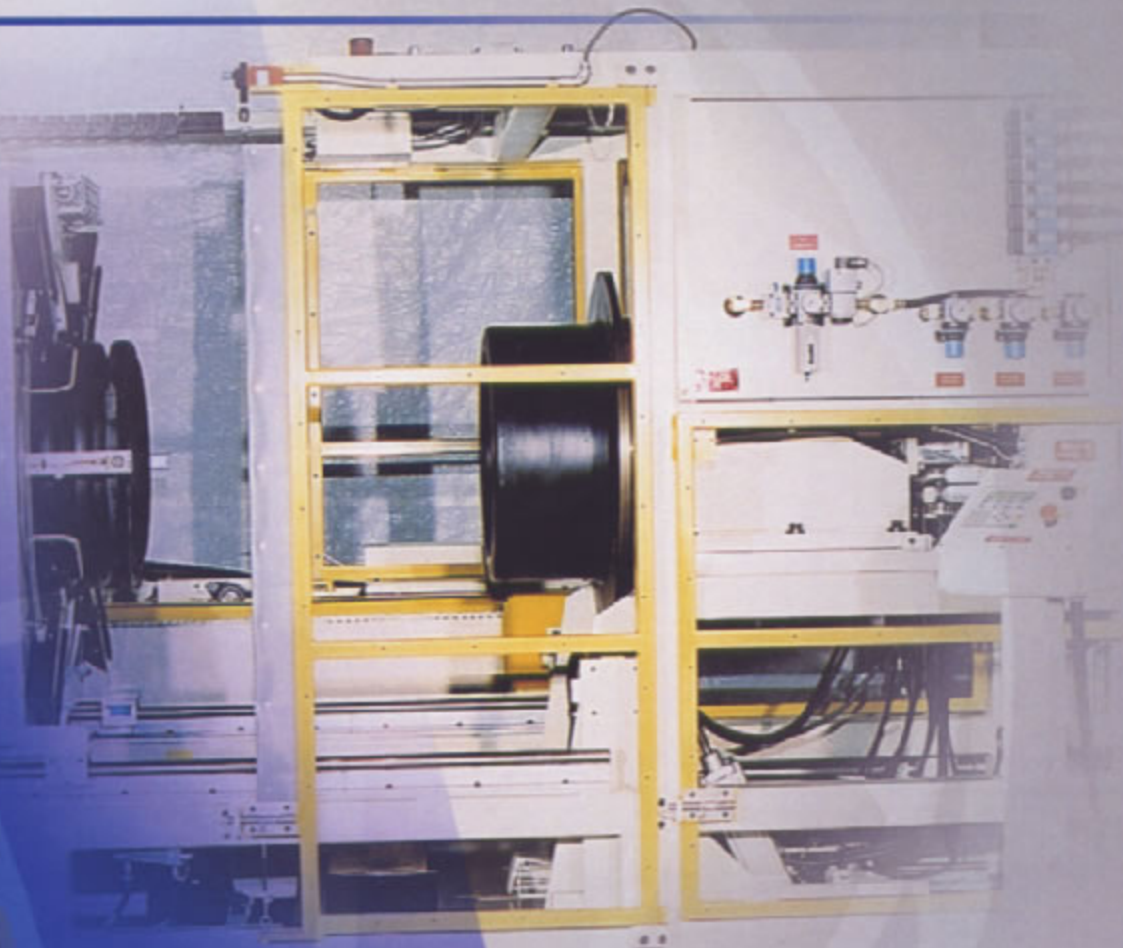


# ADESCOR inc.



"ADVANCED DOWNSTREAM EQUIPMENT SPECIALISTS"



Formed from Big 'O's machinery business operations which began in 1988, **Adescor** has developed downstream equipment for the pipe corrugating industry. Today, the group is focused on finding solutions for cutting, welding, material handling and coiling challenges in plastic pipe plants across North America.

For decades, minimal investment and thought was assigned to downstream production – **Adescor** is committed to helping companies increase pipe extrusion productivity by offering robust, simple and hi-speed equipment after the pipe cooling tanks.

With emphasis on health and safety in extrusion plants, operations such as pipe coiling require re-evaluation to simplify and make the work practice safer. Working with their partners, **Adescor** is committed to developing new and simple solutions for corrugated pipe manufacturers, centering on downstream automation of plastic pipe extrusion.

**Adescor** has many standard designs forming a strong product offering. From these designs, hybrid and custom equipment can quickly evolve to meet specific extrusion line speed and requirements. Integration of the machinery is assumed in every project.

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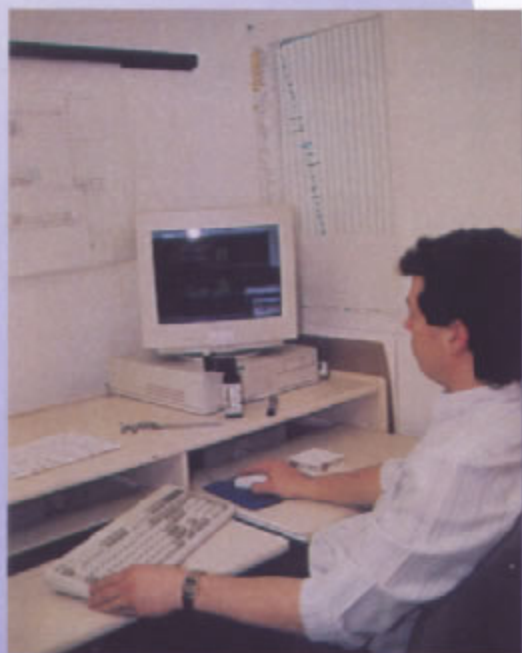
"ADVANCED DOWNSTREAM EQUIPMENT SPECIALISTS"

## Adescor's Equipment Range

Equipment can be custom-designed to customer requirements, and in addition Adescor has developed a wide range of versatile, rugged and well-designed machines from which the customer can select the most appropriate model.

### Standard equipment includes:

- Friction-type spinwelders for the attachment of bells to pipe lengths – 50mm to 900mm inside diameters.
- Pipe cut-off units installed in-line for diameters 100mm to 1525mm.
- Inner liner trimmers for diameters 300mm to 1220mm.
- Compression-testing equipment for diameters 100mm to 1220mm.
- Hotplate bell welders for diameters 300mm to 900mm.
- Hotplate tables for the fabrication of HDPE fittings.
- Internal pressure-testers for diameters 300mm to 900mm.
- Sock-loaders for in-line application of geotextile to perforated HDPE tubing.





The product Line...

## Spinwelders

All Adescor spinwelders use a spinning head to create a friction weld between the pipe length and the pipe bell (socket). The pipe length is clamped to the machine bed, and the bell is attached to the spinning head. Spinwelders are either of the face type, outside diameter type or combination type. Automatic spinwelders are supplied with a conveying system to accept plain end pipe and automatic bell-loading from a feed system. Semi-automatic models require manual loading and unloading of pipe and bells.

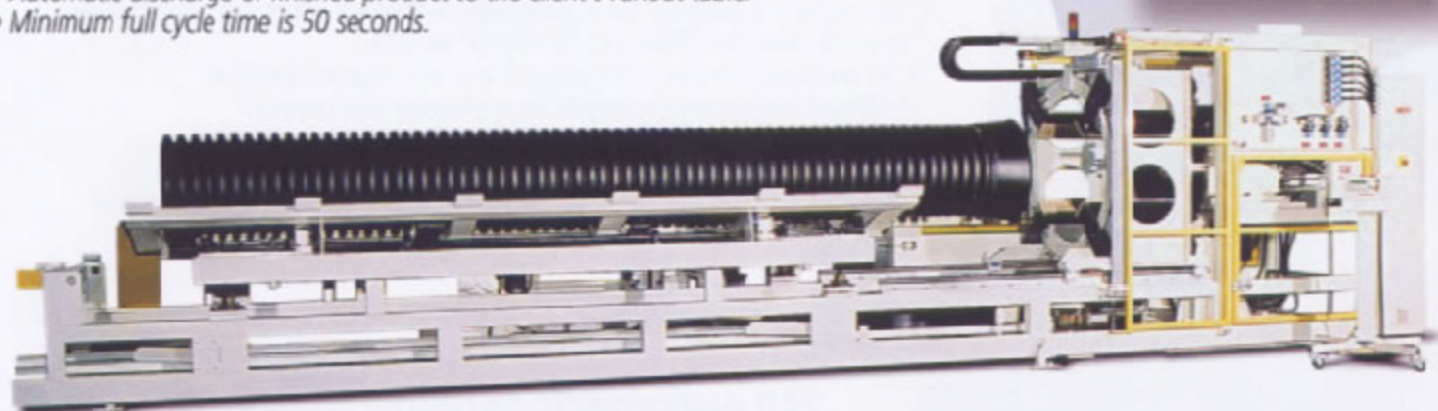
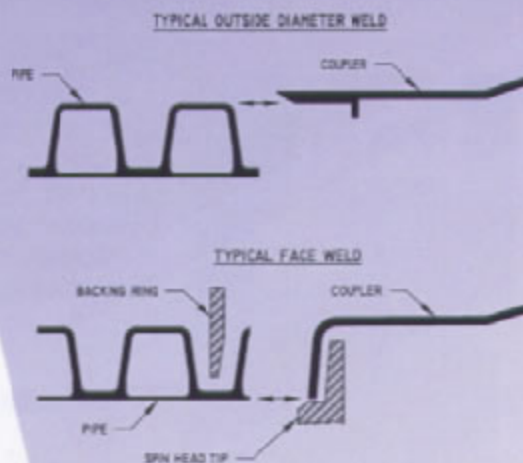
For all models machine functions are controlled by a PLC and operator interface panel. The electrical and pneumatic systems can be designed to accommodate specific Customer requirements.

All models can be designed to operate with HDPE or Polypropylene products.

### 1024 Automatic Outside Diameter Spinwelder (model 1024OD-A)

#### Features:

- This machine is designed to automatically weld bells onto corrugated pipe of outside diameter (O.D.) 315mm to 800mm (12.5" to 31.5"). The weld mechanism is by friction between the outside wall of the pipe and the inside wall of the coupler.
- Set up as an in-line process.
- Fast advance system for pipe feed.
- Automatic bell loading (operator loads conveyor on an intermittent basis).
- Conveying system accepts pipe from the production line, with bypass capability.
- Automatic discharge of finished product to the client's runout table.
- Minimum full cycle time is 50 seconds.



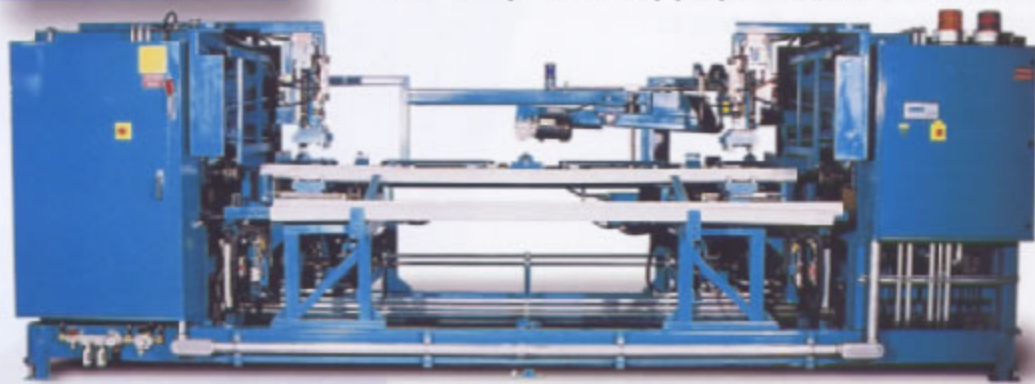
1024 Automatic Outside Diameter Spinwelder (model 1024OD-A)



## 3-4 Automatic Double Head Outside Diameter Spinwelder (model 340D-DH-A)

### Features:

- This machine is designed to automatically weld bells onto corrugated double-wall or triple-wall pipe of outside diameter (O.D.) of 75mm (3") and 100mm (4"). The weld mechanism is by friction between the outside wall of the pipe and the inside wall of the coupler.
- Bells simultaneously welded to two lengths of pipe per cycle.
- Set up as an in-line process.
- Surge area holds 4 pieces of pipe.
- Automatic bypass when surge area is full.
- Automatic bell loading (operator loads conveyor on an intermittent basis).
- Conveying system accepts pipe from the production line, with bypass capability.
- Automatic discharge of finished product to the client's runout table.
- Minimum cycle time is 2 pipes per 20 seconds.



3-4 Automatic Double Head Outside Diameter Spinwelder (model 340D-DH-A)

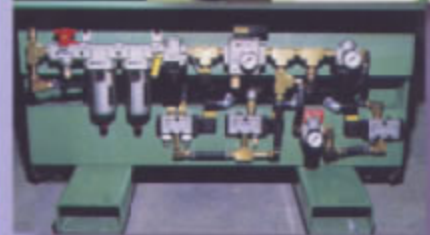
## 410 Semi-automatic Face Weld Spinwelder (model 410FW-SA)

### Features:

- This machine is designed for welding bells to the face (inner sidewall) of pipes of inside diameter 100mm to 250mm (4" to 10").
- Set up beside the pipe corrugating line or in a separate location.
- Manual loading of pipe lengths to a stationary pipe support.
- Manual loading of bells onto spinning head.
- Automatic pipe trim head.
- Cycle time dependent on operator material handling speed.



410 Semi-automatic Face Weld Spinwelder (model 410FW-SA)



## 210 Automatic Outside Diameter Spinwelder (model 210OD-A)

### Features:

- This machine is designed to automatically weld bells onto plain pipe of outside diameter (O.D.) of 110mm to 300mm (4.33" to 12"). The weld mechanism is by friction between the outside wall of the pipe and the inside wall of the coupler.
- Set up as an in-line process.
- Automatic bell loading (operator loads conveyor on an intermittent basis).
- Conveying system accepts pipe from the production line, with bypass capability.
- Automatic discharge of finished product to the client's runout table.
- Minimum full cycle time is 25 seconds.



## 416 Automatic Face Weld Spinwelder (model 416FW-A)

### Features:

- This machine is designed for welding bells to the face (inner sidewall) of pipes of inside diameter 100mm to 400mm (4" to 16").
- Set up as an in-line process.
- Fast advance system for pipe feed.
- Automatic bell loading (operator loads conveyor on an intermittent basis).
- Conveying system accepts pipe from the production line, with bypass capability.
- Automatic discharge of finished product to the client's runout table.
- Pipe trim head included.
- Minimum full cycle time is 20 seconds.



416 Automatic Face Weld Spinwelder (model 416FW-A)

## 210 Automatic Combination Spinwelder (model 210OD/FW-A)

### Features:

- This machine is designed for welding bells to pipes of inside diameter (I.D.) of 50mm to 250mm (2" to 10"). Two welding processes are included; pipes with an I.D. equal to or greater than 110mm will be face welded, while pipes with an I.D. of less than 110mm will be outside welded.
- Set up as an in-line process.
- Automatic bell loading (operator loads conveyor on an intermittent basis).
- Conveying system accepts pipe from the production line, with bypass capability.
- Automatic discharge of finished product to the client's runout table.
- Pipe trim head included (for face welds).
- Minimum full cycle time is 40 seconds.

## Pipe Cut-off units

Adescor cut-off units are planetary machines that use a knife blade to cut pipes ranging in size from 50mm (2") to 1525mm (60"). The machines are equipped with corrugation counters for precise location of the cut, with self-centering clamping and a fast return system. All cut-off units can be designed for HDPE or polypropylene pipe.

For all models machine functions are controlled by a PLC and operator interface panel. The electrical and pneumatic systems can be designed to accommodate specific customer requirements.

## 1248 Automatic Pipe Cut-off unit (model 1248CO-A)

### Features:

- The 1248 cut-off unit is designed to cut to length pipes of internal diameters 300mm to 1220mm (12" to 48").
- Travels at line speed with the pipe, so no loss in productivity.
- Cuts standard lengths from 2m to 9m (6'6" to 29'6").



1248 Automatic Pipe Cut-off unit (model 1248CO-A)

## 216 Automatic Pipe Cut-off unit (model 216CO-A)

### Features:

- The 216 cut-off unit is designed to cut to length pipes of internal diameters 50mm to 400mm (2" to 16").
- Travels at line speed with the pipe, so no loss in productivity.
- Cuts standard lengths from 2m to 9m (6'6" to 29'6").





# Inner Liner Trimmers

## 836 Automatic Inner Liner Trimmer (model 836LT-A)

### Features:

- The 836 inner liner trimmer is an integrated pipe take-off-conveyor and inner liner trimmer system. By employing a knife, it is capable of trimming the inner liner from integrally formed couplers on pipes ranging in sizes from 200mm ID to 900mm ID or 250mm OD to 1000mm OD.
- The machine includes a pipe take-off-conveyor, inner liner trimming system and dumping system.
- Accommodates a maximum pipe length of 9-metres.
- Pipe handling system featuring a motorized vertical height adjustment at the push of a button.
- All machine functions are P.L.C. (Programmable Logic Controller) and Operator interface panel controlled.
- All 836 Inner Liner Trimmer's Electrical and Pneumatic systems can be designed to accommodate specific customer requirements.

## Testing equipment

Adescor manufactures equipment used for testing the stiffness (strength) of pipe and tubing, and also for testing the integrity (pressure-rating) of joints. Equipment is designed to suit ASTM testing methods.

### 460 Compression tester (model 460CT)

#### Features:

- The "460 Compression Tester" is a computer controlled pipe compression-testing unit. The machine comes complete with a computer, monitor, printer, Windows 98 operating system and Microsoft access database.
- Calculates pipe stiffness at 3%, 5%, 10% and 20% deflection as per ASTM D2412-96a.
- Data generated during the test and input data such as pipe diameter and production information is automatically logged to a database for future statistical evaluation.
- The "460 Pipe Compression Tester's" Electrical System can be designed to accommodate specific customer requirements.

### 436 Internal Joint Tester (model 436JT)

#### Features:

- The 436 Joint Testing Machine is used to ensure the quality of Plastic Pipe joints used in Drain and Sewer applications utilizing flexible elastomeric seals.
- Accommodates a range of pipe sizes from 100mm to 915mm (4"-36") and a pressure up to 1.33 bar (20 psi). End Plugs are supplied in pairs, size specific for diameters required.
- Optional, separately priced, Joint Testing Pressure Regulating and Pumping System is recommended to be used in conjunction with the 436 Joint Testing Machine. This system provides the required pressure control and pumping systems needed to facilitate ASTM D3212-96a tests.



460 Compression tester  
(model 460CT)

# Fittings and fabrication equipment

Adescor manufactures fittings and fabrication equipment for the production of HDPE pipe accessories such as elbows, tees, end caps and wyes. The fabricating is undertaken using a hotplate table.

## 442 Hotplate Table (model 442 HPT)

### Features:

- Horizontal heated table with non-stick surface.
- Surface is 1220mm x 1520mm (48" x 60") suitable for 600mm (24") up to 45 degrees.
- Multiple units can be utilized for larger fittings.
- Optional insulation blankets for heat conservation and protection of the surface.
- Electrical systems can be designed to accommodate specific customer requirements.





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