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LifeTec[®]
Rescue Training Dummies

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Thank you for your interest in our rescue training products.

Whether you are a rescue professional or volunteer, trainer or occupational health manager you will appreciate the value of the products in this catalogue.

The use of healthy volunteers to act as the victim in your rescue training scenarios is obviously limited. Most volunteers object to being buried under a ton of concrete rubble, placed deep within a foul sewer pipe or dumped offshore in a rough and cold sea.

That's where our dummies come into their own.



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Our dummies are manufactured by Ruth Lee Ltd who have been manufacturing rescue training dummies at their factory in North Wales for 30 years. They are now recognised as the leading manufacturer of rescue dummies in Europe and increasingly around the world. The product range of 20+ different dummy models should ensure that we have a dummy to suit your scenario.

For effective rescue training you need a dummy that realistically simulates the feel of a real person with body weighting that is anatomically correct. The dummy must be tough enough to place in hazardous situations too dangerous for live volunteers, and crucially, the dummy design must not expose the rescuer to any risk of personal injury during it's handling. We have achieved this objective.

- Anatomically correct weighting that simulates the body weight distribution of a real casualty.
- Uncannily realistic life-like soft feel.
- No hard limb-joints means no pinch welts for trainees.
- Specific models designed for different rescue scenarios.
- Designed to withstand heavy objects laid on them for realistic and challenging rescue training.
- Very durable construction that will ensure years of use.



The General Purpose dummies are our most popular models for common rescue scenarios such as height, confined space and urban rescue.



They have anatomically correct weight distribution and the uncanny 'feel' of an unconscious patient. Tough enough to be buried under a concrete slab, have steel lintels, trees or motor vehicles laid upon them, they can present realistic scenarios for rescuers.

The body carcass is heavy duty rot-proof canvas with all seams double stitched. High density polypropylene webbing provides extra strength and durability, especially at the high stress points. Machine-washable cotton/polyester overalls reinforced with the same webbing are fitted to all sizes of dummy. The ends of the overall arms are further protected with nylon reinforced PVC.

All dummies of 20kg and over are supplied complete with gum boots which also protect the legs if the dummy is dragged along the ground. Where the exercise involves constant dragging of the dummy we recommend fitting the Drag Protectors for additional protection, see the accessories section.

A strong webbing loop behind the head helps position and retrieve the dummy, and hang up the dummy to dry after use.

The shaped head allows the fitting of most types of immobilisation collars, and if the head gets badly soiled you can remove the red head cover and wash it.

These dummies can safely be used in scenarios with temperatures up to 100°C.

The General Purpose dummy is ideally suited for predominantly dry rescue conditions. If it does get wet it needs to be hung in a dry airy place to dry before storage. For a wet environment rescue scenario, such as a chemical spillage where the dummy may be doused, or storm drain or cave rescue where the dummy needs to lay constantly in water we recommend using the HazMat rescue dummy.

Available in weights and sizes from the 5kg Baby to the very heavy adult 100kg



5KG 10KG 20KG 30 | 50 | 70 | 100KG

Model shown here with overall on and off.



The Multi-Trauma dummy offers unique features allowing a variety of interesting training options for more complex scenarios.

A variant of the General Purpose dummy, the Multi-Trauma dummy has the additional feature of a removable right arm and right leg (below the knee) to simulate a partial or complete amputation injury to the victim. Additionally, to simulate a traumatic impalement injury an orifice on the left side of the torso allows a fence post, star picket or similar to penetrate through the dummy and be firmly secured to prevent casual removal.

The shaped head allows the fitting of most types of immobilisation collars. If the head gets badly soiled you can remove the red head cover and wash it.

The body carcass is heavy duty rot-proof canvas with all seams double stitched. High density polypropylene webbing provides extra strength and durability, especially at the high stress points. Machine washable cotton/polyester overalls reinforced with the same webbing are fitted to all sizes of dummy. The ends of the overall arms are further protected with nylon reinforced PVC. Supplied with gum boots which also protect the legs if the dummy is dragged along the ground.

A strong webbing loop behind the head helps position and retrieve the dummy, and hang up the dummy to dry after use.

Available in adult size 30kg and 50kg weights.

1.8M



Model shown here with overall on and off.



30 | 50 KG



The HazMat dummy is designed primarily for very wet general rescue scenarios, such as a chemical spillage, foul water drain, or wet cave rescue.

Another variant of our General Purpose Dummy, the main difference being that HazMat has a body carcass and overalls constructed using materials that will tolerate continuously wet conditions and allow easy cleaning and drying.

The body carcass is heavy duty nylon reinforced PVC with all seams double stitched. High density polypropylene webbing provides extra strength and durability, especially at the high stress points. Machine washable polyurethane coated polyester overalls reinforced with the same webbing are fitted. The ends of the overall arms are left open to allow easy rapid drainage of water when retrieving or washing down after the exercise. Supplied with gum boots with drain holes which also protect the legs if the dummy is dragged along the ground.

A strong webbing loop behind the head helps position and retrieve the dummy, and hang up the dummy to dry after use.

Note that this dummy has normal weighting so do not put it into deep water - it will sink! For deep water rescue scenarios use the Water Rescue dummy, which is designed to float appropriately.

This is a rugged dummy that will allow rescue scenarios in hazardous and foul conditions previously impossible with healthy volunteers.

Available in adult size 30kg, 50kg & 70kg weights

1.8M



Model shown here with overall on and off.

30 | 50 | 70 KG



The Bariatric dummy simulates not only the extreme weight of an obese patient but also the flesh bulk and movement.



1.8M



180KG

Obesity is becoming a very real problem for Ambulance and Fire crews across the World, and the problem is getting worse. Rescue teams will need to consider how they will deal with casualties of this size and this 180kg dummy will enable you to conduct realistic training.

The Bariatric dummy is constructed by using the 100kg general purpose dummy with additional layers secured around the body, these being a mixture of weighted layers and foam cushioning layers that enables the weighted flesh bulk to have some movement; the effect is actually very realistic.

The Bariatric dummy is very challenging to manoeuvre, being not only very heavy but also very bulky. It is designed for a team of at least 4-6 people to rescue. It is supplied complete with a carrying sheet to assist in carrying and positioning the dummy.

Only by using this dummy will the real life problems encountered with these patients be appreciated and strategies developed for their extrication and transport.

This is a real 'team effort' dummy!



The Flame Retardant dummy is designed for snatch rescue scenarios at very high temperatures.

This high specification flame retardant dummy demonstrates a good balance between temperature and abrasion resistance. The body carcass is manufactured using a high tech material which incorporates glass fibre and which is double stitched using PTFE coated glass thread.

The protective overalls are made using Kermel® fibre which is a polyamid-imide material that offers maximal protection against very high temperatures. It is permanently non-flammable and most commonly used in protective clothing against heat and flames. A separate Kermel hood protects the head. The dummy is fitted with genuine heat resistant fire-fighters safety boots.

The Polypropylene webbing, as used on our other dummies to provide extra durability, cannot be used on this dummy as the webbing will melt at the high temperatures that this dummy is designed to withstand.

The Flame Retardant dummies will easily withstand temperatures of 200°-250° C, the average temperature at knee height for hot fire cell training and only starts to 'fail' at temperatures in excess of 400°C, and then it will be the fire-fighters boots that fail first. Flash-over temperatures greater than 1000°C are withstood by the dummy for short periods.

Available in adult size 30kg and 50kg weights



1.8M



30 | 50 KG



Model shown here with overall on and off.

The Water Rescue dummy that realistically simulates both the weight and posture of a casualty in water.

The Water Rescue dummy evolved from a collaborative development with recognised rescue professionals including the Royal National Lifeboat Institute and the British Navy. It is unique in realistically simulating an unconscious casualty in the water, providing a challenging weight to haul out, and yet be light enough, when dry to manoeuvre.

Now used by NATO and US Navies, Coastguard and Lifeboat crews, Surf Life Saving Clubs, Emergency Services and water rescue agencies around the world.

Although the construction of the Water Rescue dummy is similar in principle to our other dummies, the key difference is the use of tough nylon open mesh for the body carcass. When the dummy enters the water the nylon mesh allows the water to rapidly penetrate the dummy, which results in the dummy replicating the movement, drag and weight of a real casualty in water. After a few minutes the legs of the dummy will drop below the surface, resting at an angle of about 45 degrees to the surface, with the head and shoulders above the surface. Buoyancy is provided with closed-cell foam that does not absorb water.

When retrieving the dummy the water will flood out through the nylon mesh carcass thereby presenting a challenging but manageable recovery weight. The actual weight being lifted will depend how fast the dummy is retrieved. The nylon mesh also allows better ventilation when the dummy is hung up to dry.

The protective polyurethane coated polyester overalls, reinforced with high-density polypropylene webbing in identified high stress areas, help keep the dummy clean and increase the lifespan of the dummy. The overalls have a pocket on the back that enables additional buoyancy or weight to be added to alter the dummy's height position in the water.

The Water Rescue dummies can be supplied in two versions:

- The "Man-Overboard" model is supplied with bright orange overalls and SOLAS reflective tape on the head and is designed to be as conspicuous as possible.
- The "Search and Rescue" model is supplied with black overalls and a black mesh hood to cover the head and diminish the SOLAS tape reflectivity; the idea is to make it as inconspicuous as possible to enable the rescue teams to practice their search, as well as their recovery techniques.

Both models are available as adult 40kg and youth 20kg versions (dry weight).

The Water Rescue dummy also has a 'wrist' that allows a rescuer to grasp the wrist as they may with a real casualty when in the water.

A unique feature of the Water Rescue dummy is the strong plastic strips that run internally along the back from the shoulder area to the knee joint, these strips allow forward flexibility in and out of the water, but do not allow the dummy to bend in half when the patient is lifted from the front – as in a real casualty. This modification also facilitates easier rescues using stretchers or specialised recovery devices.

All water rescue training dummies are supplied complete with sturdy gum boots with drain holes; the boots greatly protect the legs if the dummy is dragged along the over the beach or rocks, and are replaceable if badly damaged.

A lifting loop at the back of the shoulders can be used to place or lift the dummy, and for hanging it up to dry.

For alternative rescue scenarios where the patient is basically uninjured and well, such as Man Overboard from a yacht or IRB rescues or racing, see our Conscious Casualty dummy (page 11)

The Water rescue dummies, which are used extensively by the military, have been issued with NATO Stock Numbers.



IRB RACING (Conscious Casualty)

The IRB Racing dummy was developed with the co-operation of surf life savers as a water rescue dummy for IRB Racing, IRB driver training & tube rescue practice.

The problem for many surf clubs is to find enough willing volunteers to act as a patient for the IRB racing & rescue teams for practice, especially during the colder months - consequently, skill development suffers. Now you can train year-round and practice your aggressive pick ups as many times as you like.

This dummy never complains about the cold water, the aching arms and the sore shoulder or jaw from when the rescuer slightly misjudged the pick-up.

For IRB driver training you can now train in the roughest surf, close to the reef and in the coldest weather.

The construction methods of this dummy and materials are similar to the standard adult Water Rescue dummy (see page 9) using a tough open-weave nylon mesh that allows water to flood into the dummy when it is placed into the water. Compared to the standard Water Rescue dummy the following modifications have been made to make it ideal for the aggressive IRB training application:

- Shortened to 1.5m
- Dry weight reduced to 20kg, which increases to above 40kg when rapidly pulled from the water
- Weight distribution lowered from the torso to the hips to improve stability in a moving sea
- Boots removed and replaced with durable PVC sleeves on lower leg.
- Arms aloft to simulate a volunteer patient.

The dummy weighs 20kg when dry. After a few minutes in the water the dummy takes on the water and assumes an upright posture with arms aloft.

The dummy attaches to a buoy or 'can' using a special break-away line that is attached to the webbing strap around the neck of the dummy. As you grab the dummy, threading your arm through the dummies arms, the line breaks away and you can drag it into the IRB as with a normal patient. The weight you are hauling is the dry weight of the dummy plus the water that has ingressed into the dummy, ~ 40+ kg

Once in the IRB, the water flows out of the dummy and quickly returns to about 20kg which makes for reasonably easy weight management.

The padded band at the top of the arms can be supplied in a number of different team 'racing' colours to enable easier recognition when multiple dummies are deployed. They simply Velcro® to the overalls.

The orange overalls are made of polyurethane coated polyester which is highly tolerant of salt water. High density polypropylene webbing is stitched into the overalls in all high stress points.

A strong webbing loop behind the head helps position and retrieve the dummy, and hang up the dummy to dry after use.

This is a tough and durable dummy which, with reasonable care, will last give years of productive training service. It opens up a wealth of new training scenarios previously impossible with volunteer patients.

This dummy is also useful for general yachting 'man-overboard' scenarios where the patient is conscious and waving madly. You can drop it overboard from the yacht and practice your 'quick turn' repeatedly.

1.5M



20KG





WEIGHT VEST

Weighted to either 10 or 20kg, the vest allows the user to adjust the weight of the training dummy to suit the training requirements.

Constructed using a tough polyester woven fabric, bound and reinforced with polypropylene webbing. Made in the style of a lifejacket, the vest is secured to the training dummy using adjustable straps and a quick release clip. A strong webbing handle allows for easy carriage and storage.



THERMAL TABARD

For use with all our adult training dummies. The Tabard is made of Polyurethane Coated 2oz nylon and has pockets to hold disposable or re-useable heat packs. The disposable heat packs will, after activating, remain at a temperature of between 58°C and 70° for up to six hours.

This tabard is quickly and easily fitted and will enhance search and rescue training when used in conjunction with thermal imaging equipment. Supplied with 4 disposable heat packs. Re-useable heat packs are available from most outdoor stores.



DRAG PROTECTOR

Designed to fit all adult training dummies these drag protectors will effectively protect the legs and butt of your dummy when it is used for repeated drag exercises such as stamina testing of new recruits or refresher courses. A combination of commercial grade carpet and polypropylene webbing provides a durable product at a reasonable price.

ROPE PROTECTOR

The perfect solution to damaged ropes/lines during rescues over rough surfaces or sharp edges, our Rope Edge Protection Sheet is constructed in high density canvas and bound at the edges with Polypropylene webbing. The sheets contain Polypropylene plastic inserts that run the width of the sheet that serve to even out any rough edges, providing further protection. Large eyelets are inserted along two edges that allow the sheets to be joined together (eg: using carabiners) or anchored in place.



CARRY BAG

Constructed in reinforced PVC and strengthened with polypropylene webbing, this large bag will accommodate all the adult sized dummies in the range. The bag will open out almost flat for ease of use, four large flaps then envelope the dummy and a webbing strap with 'snap hook' secures the dummy in place. A clear PVC pocket is provided for identification purposes. The bags provide an excellent solution to the problems of moving the dummies, with the two strong webbing straps allowing for a two person lift.



INJURY INDICATOR BANDS

A key part of most rescue scenarios is to brief the rescuer on the probable injuries to the casualty. To facilitate this the injury indicator bands are placed on the arm of the dummy to indicate to the rescuer the injuries to be managed. Supplied as a pack of 6 bands which includes the following labels: HEAD, ARM, LEG, NECK, BACK, CHEST INJURY, all screen printed onto washable yellow P.V.C.



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