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Part Number & Description

300-000	LT Frame with Accessories
300-006	LT Frame with t25 Load Cell & Accessories
301-001	LT Extension Adaptor

⚠WARNING

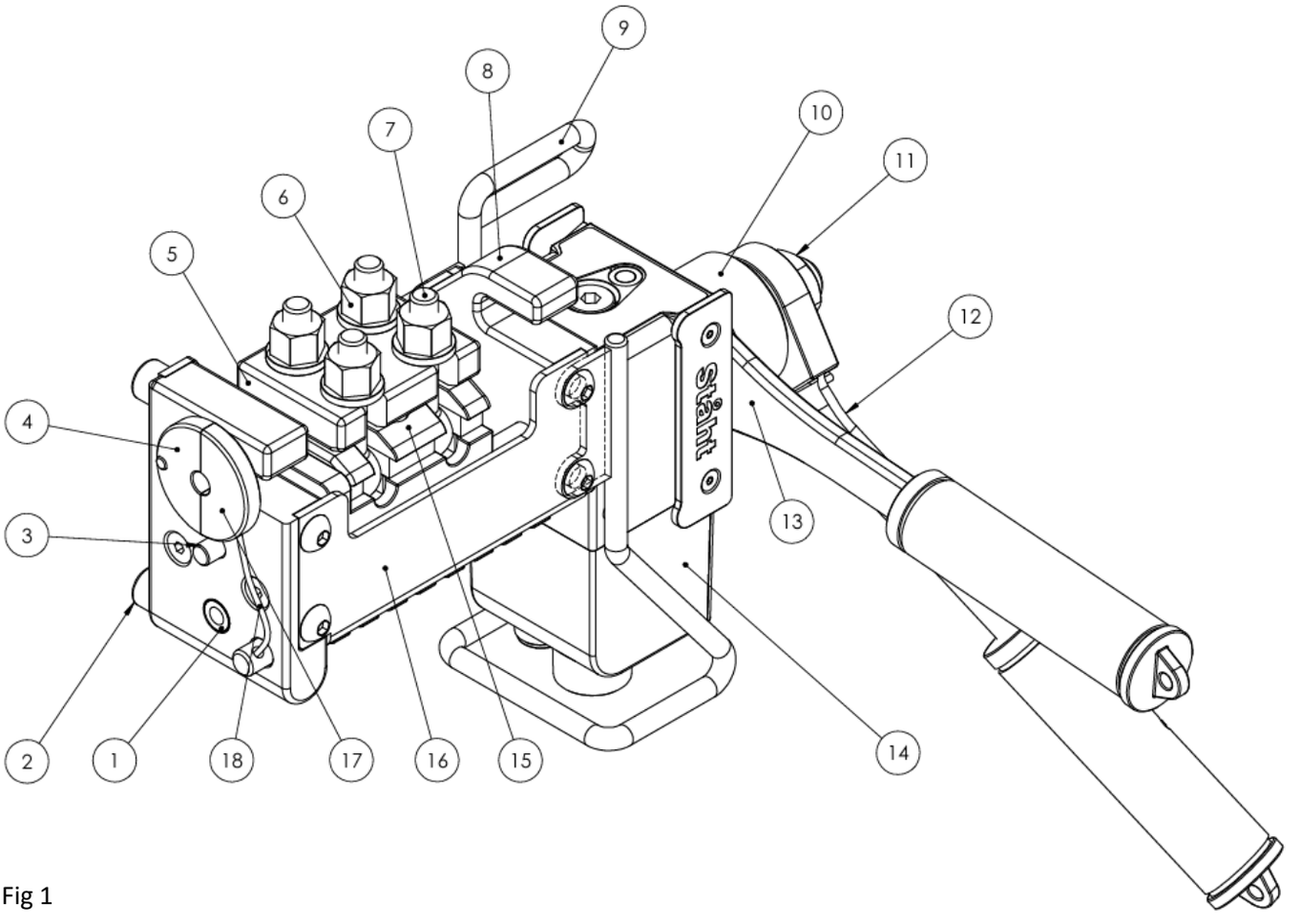


Fig 1

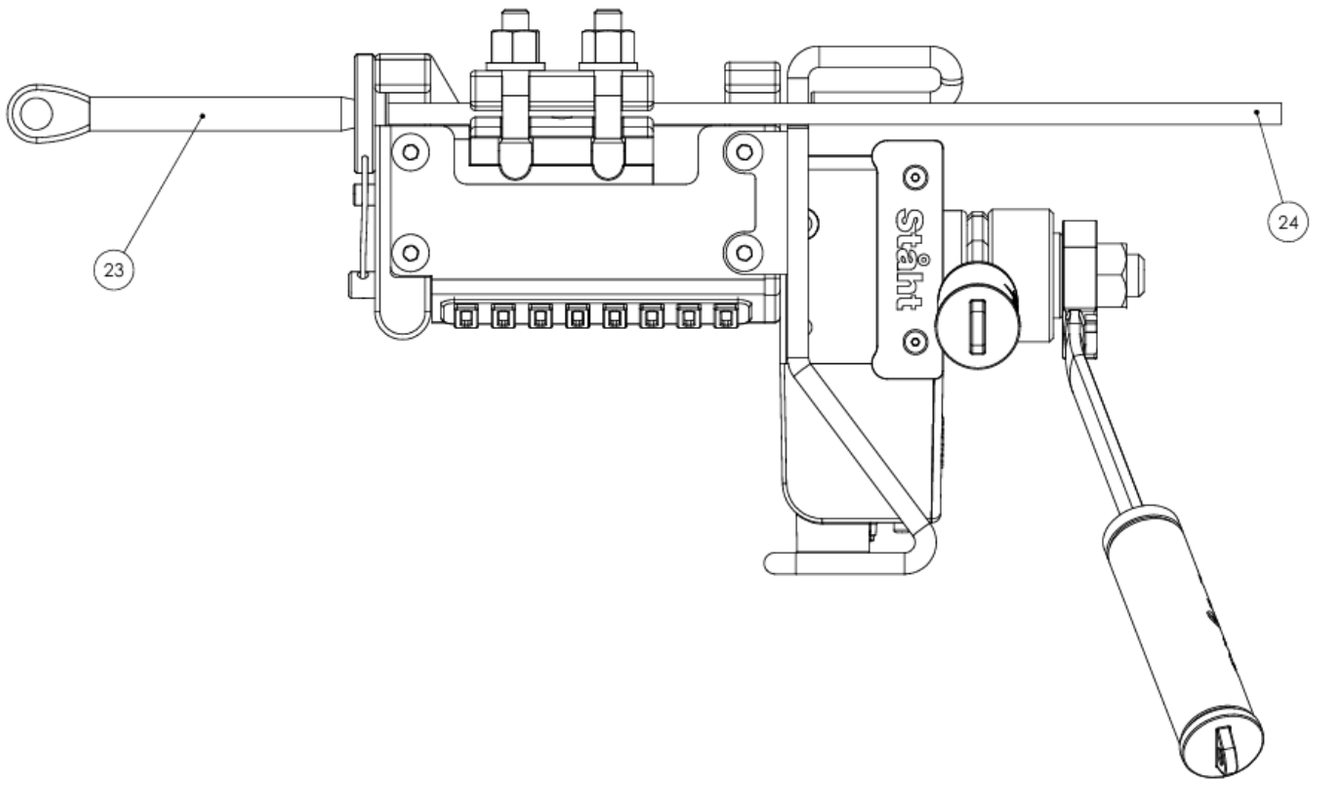
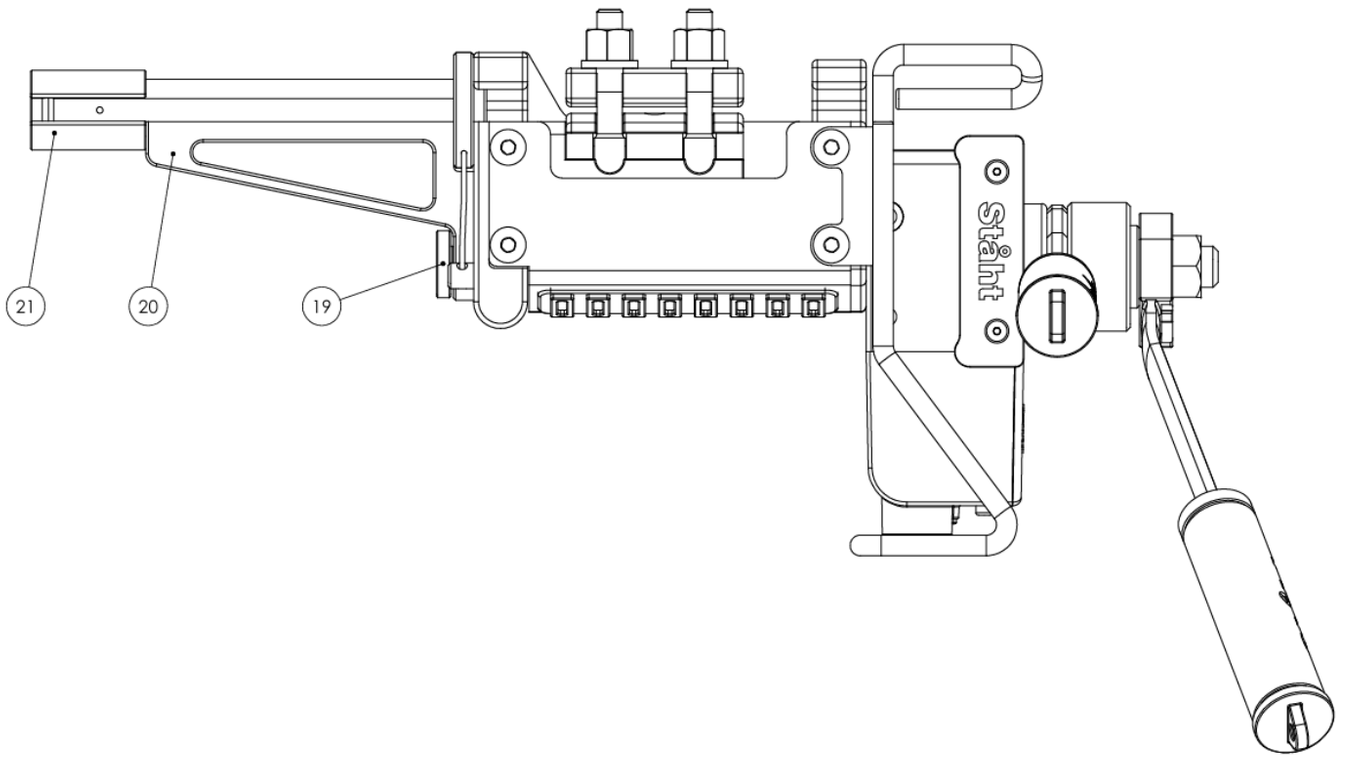


Fig 2



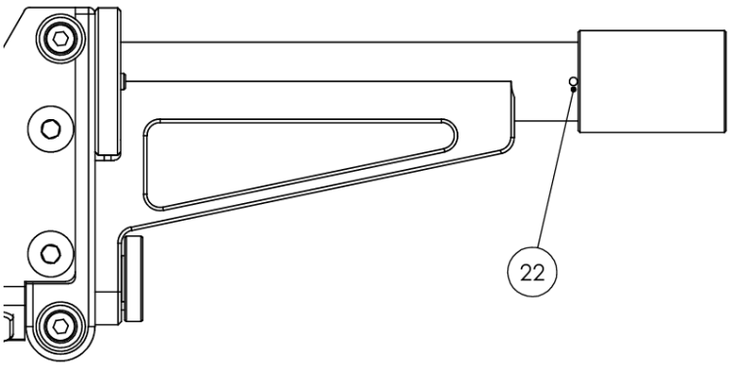


Fig 4

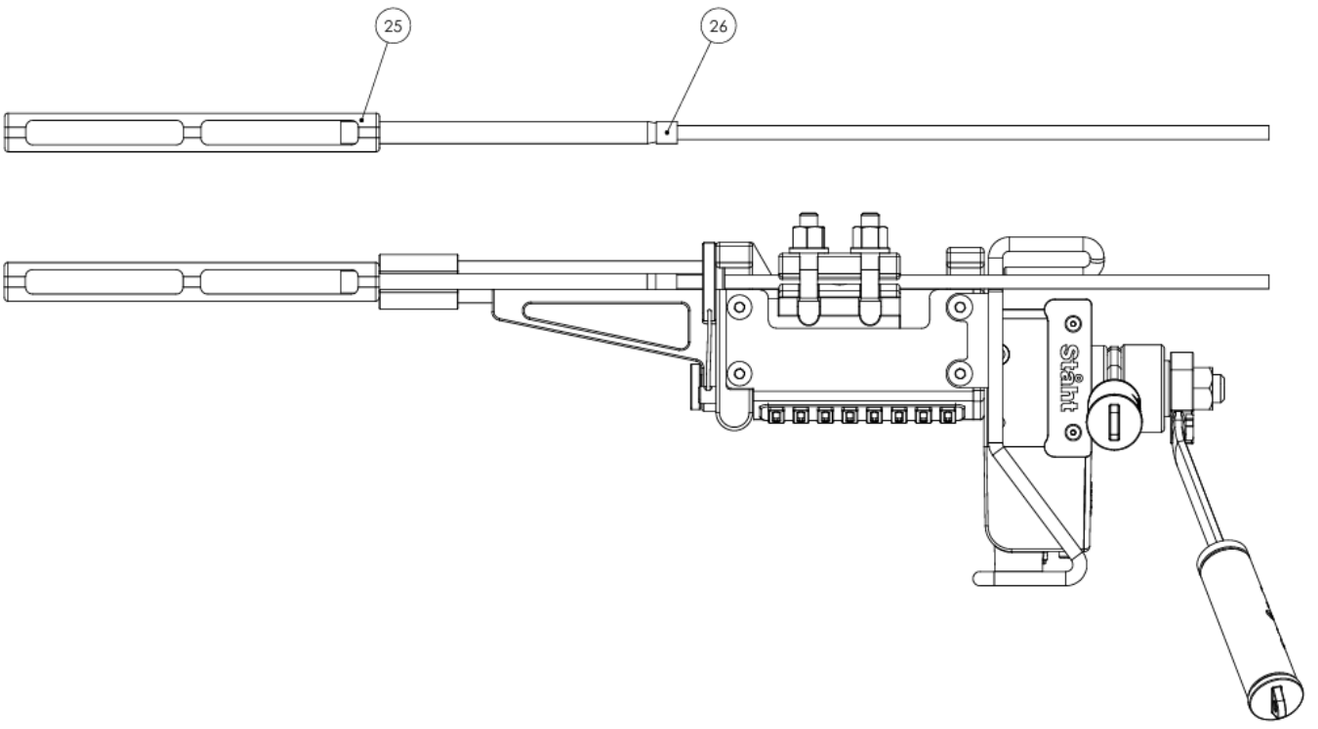


Fig 5

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Intended Use - For load testing cable terminations on 8mm wire rope safety lines (7x7 or 1x19), up to a maximum of 25kN (5620 lbf). Consult the manufacturer of the safety line to confirm the test load required.

Description of User - This equipment is to be used by a Competent Person. A competent person is someone who has sufficient training and experience or knowledge that allow them to perform the task for which the equipment is designed for effectively and in a safe manner.

Retaining Instructions - Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death. Follow all the instructions. This will avoid fire, explosions, electric shocks, or other hazards that may result in damage to property and/or severe or fatal injuries.

The product shall only be used by persons who have fully read and understand the contents of this user manual. Ensure that each person who uses the product has read these warnings and instructions and follows them. Keep all safety information and instructions for future reference and pass them on to subsequent users of the product. The manufacturer is not liable for cases of material damage or personal injury caused by incorrect handling or non-compliance with the safety instructions. In such cases, the warranty will be voided.

Load Cell Instructions – For instructions on the operation of the load cell refer to the separate t25 or t60 User Instruction Manual Provided.

Personal Protective Equipment (PPE) - When using this product, you should wear all required PPE for the area of operation. As a minimum, you should wear safety boots, work gloves and eye protection when using this equipment, irrespective of local conditions. All protective equipment should be fit for purpose. Staht Limited is not liable for the provision, usage, or disposal of any PPE.

Storage and Transportation - When not in use, store the equipment in the Carry Case or the Kit Bag. Store in a dry, secure place, in a temperature between 0-25^{o}C. If storing for longer than 90 days without use, power cycle the battery. If transporting by air, transport with a reduced charge (<50%)

Environment – Use in temperatures between -10^{o}C and + 50^{o}C. Do not use underwater, or in heavy rain. :Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

Maintenance - Check equipment before each use. Keep the equipment clean and dry. To clean, use a clean damp cloth and light detergent and dry. Use a clean brush to keep all threads clear from dirt, dust and debris. Lubrication requirements are detailed in the lubrication section below.

Lubrication – The M16 Rod (11) used on the line tester must be cleaned and lubricated regularly to reduce friction. Apply a light oil or grease (3 in 1, WD40, GT85 or similar) to the drop rod threaded working area and the thread on the clamp bolts to help prevent wear and seizure. **CAUTION**: Do NOT lubricate the grooved section of clamps (5 & 15) as this will affect the grip on the cable.

Servicing – All servicing must be done by Staht Limited, or an approved Staht Service Agent. No modifications are permitted to Staht equipment. Only use genuine Staht parts and accessories.

Load Cell Calibration - From the date of purchase, the load cell (14) is calibrated for one year. The "calibration date" and the "next calibration date“ can be found on the calibration certificate, the display screen on startup and in the app and web dashboard. We recommend calibration should be performed annually to relevant National / International Standards by Staht or an approved third party. **CAUTION**: Failure to calibrate the load cell prior to the next calibration date may invalidate any test data.

Removing the t25 Load Cell -Unscrew the 2 x QR knobs from the bridge by hand. Lift the load cell (14) from the bridge. To re-install, reverse the procedure. **CAUTION**: Take care to align the screws and tighten the screws when reinstalled in the bridge.

1 Year Guarantee – Against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed.

Troubleshooting / Frequently Asked Questions – Please refer to www.staht.com for more information.

2. Nomenclature

Fig 1 - (1) M8 Insert, (2)Foot, (3) Alignment Boss , (4) Collet Fixed Half ,(5) Top Clamp, (6)Clamp Nut, (7) Swing Bolts, (8) Chassis Hook (9) Protective Cage, (10) M16 Sealed Thrust Nut, (11) M16 Rod, (12)24mm Reversible Ratchet Spanner, (13) Anti Rotation Spanner, (14) Load Cell, (15) Bottom Clamp, (16) Chassis, (17)Collet Moving Half, (18) Cable Tether

Fig 2 - (23) Cable Termination (Swage), (24) 8mm Cable

Fig 3 – (19) QR Knob, (20) LT Extension Adaptor, (21) Extension Nose

Fig 4 – (22) Sight Hole

Fig 5- (25) Turnbuckle (26) Slip Indicator

3. Test Preparation

Before starting the Test Procedure follow the preparation steps below.

WARNING - When working at height ensure the tool lanyards are used to secure the line tester and the socket wrench, see separate user instructions provided.

Line Fitting Selection – If you are testing a Latchways / MSA line fitting or similar with a slip indicator fitted to the line then you will need to use the LT Extension Adaptor (P/ N 301-001). See fig 3,4 & 5

Load Cell – For instructions on the operation of the load cell refer to the t25 or t60 User Instruction Manual.

4. Test Procedures for Staht LT - MAX 25kN

WARNING: Do not exceed the maximum load specified by the safety line manufacturer. Max 25kN / 5620 lbf).

WARNING: Do not use electric drill drivers or impact drivers to apply torque to the sealed thrust nut.

Proof Testing with the cable termination attached to an Anchor Point
(If you are using the Staht App follow the on-screen instructions).

i. Unscrew the M16 sealed thrust nut (10) and position the load cell (14). See fig 1.
ii. Add the Anti Rotation Spanner (13) to the M16 rod (11) and add the M16 sealed thrust nut (10).
iii. Open the swing bolts (7), slide out the collet (17) and lift the top clamp (5) to create a gap greater than 8mm.
iv. Hang the line tester onto the wire rope, close the swing clamps and reposition the collet around the wire rope.
v. Push the tester against the termination, move the test carriage to the forward position and loosely tighten the four clamp nuts (6) by hand.
vi. Now the tester is in position, tighten the clamp nuts (6) one by one in a diagonal formation (Max 35Nm / 18.5 ft/lb) with the 17mm socket and wrench provided until all nuts are tight.
vii. Mark the cable with tape or a permanent marker at a visible position to record a datum for slippage.
viii. Use the 24mm ratchet spanner (12) (moving) in combination with the anti rotation spanner (13) (Fixed) to apply the load until the target load is reached. Guidance on the required load and time should be specified by the manufacturer of the lifeline. **NOTE** ; If slippage between the clamp and cable is occurring repeat step (vi).
ix. If the cable does not slip out of the termination and holds the recommended load for the duration of the test, then the test has PASSED.

Once the test has finished, remove the load from the sealed thrust nut, loosen the clamp nuts and remove the cable and termination.

Proof Testing with the cable termination NOT attached to an Anchor Point.
(If you are using the Staht App follow the on-screen instructions).

i. Unscrew the M16 sealed thrust nut (10) and position the load cell (14). See fig 1.
ii. Add the Anti Rotation Spanner (13) to the M16 rod (11) and add the M16 sealed thrust nut (10).
iii. Lie the Line Tester down on its back with the roll cage (9) and foot (2) touching the ground.
iv. Open the swing bolts (7), slide out the collet (17) and lift the top clamp (5) to create a gap greater than 8mm.
v. Position wire rope into the clamp, close the swing clamps and reposition the collet around the wire rope.
vi. Push the tester against the termination, move the test carriage to the forward position and loosely tighten the four clamp nuts (6) by hand.
vii. Now the tester is in position, tighten the clamp nuts (6) one by one in a diagonal formation (Max 35Nm / 18.5 ft/lb) with the 17mm socket and wrench provided until all nuts are tight.
viii. Mark the cable with tape or a permanent marker at a visible position to record a datum for slippage.
ix. Position the anti rotation spanner (13) under the cable being tested, onto the ground. (This will make applying the force easier.

x. Use the 24mm ratchet spanner (12) to apply the load until the target load is reached. Guidance on the required load and time should be specified by the manufacturer of the lifeline. **NOTE**; If slippage between the clamp and cable is occurring repeat step (vi).
xi. If the cable does not slip out of the termination and holds the recommended load for the duration of the test, then the test has passed.

Once the test has finished, remove the load from the sealed thrust nut, loosen the clamp nuts and remove the cable and termination.

Proof Testing with the cable termination that has a Slip Indicator (See figure 3,4 & 5). Slip indicators are used on MSA / Latchways lifelines or similar, to indicate a fall and movement of the cable relative to the termination.

To test terminations with a slip indicator you will need the LT Extension Adaptor (P/N 301-001).

Before following either of the test methods above the extension piece will need to be attached onto the front of the Line Tester.

Attaching the LT Extension Adaptor (P/N 301-001);

i. Align the slot in the nose (21) and the body together and slide onto the cable (24).
ii. Rotate the nose (21) by 90 degrees to capture the extension piece onto the cable.
iii. The nose can be adjusted to add further extension. **WARNING** Do not exceed the maximum extension shown by the sight hole (22). See fig 4.
iv. Position the LT onto the cable in the traditional method.
v. Move the LT tester up to Extension piece and align the boss (3) and threaded insert (1).
vi. Attach the Extension Adaptor to the LT with the QR Knob (19).

Follow the same proof load test procedure detailed above to test the termination. Refer to the lifeline manufacturers guidelines for the test force to be applied.

Declaration of Conformity

Staht Limited declares, under its sole responsibility that the products named on this document have been tested to the Standards stated on this document and complies with the Directives stated.

Approved Signatory RHirst **Date** 20/4/24

Robert Hirst, Managing Director