



Fall Protection

3M™ Fall Protection for the metalworking and transportation industries.

**Manage gravity with  
3M Fall Protection  
solutions.**

[www.3M.com/FallProtection](http://www.3M.com/FallProtection)

# Working at height in metalworking industries.

In metalworking and transportation manufacturing industries your workers may need to perform various tasks at moderate heights (2-5 m). These tasks may include: maintenance work, unloading, packaging, welding or other work on top of heavy machinery, vehicles, parts etc., all of which may put them in danger of falling.

Definitions of what constitutes working at height varies from country to country. But regulations require employers protect workers from the risks of falling from height. Avoiding working at height or preventing a fall is not always possible, so mitigation - the use of effective fall protective equipment is the best solution.

Fall protection equipment may save lives in the event of an accident, but effective solutions can also bring long-term cost savings; improved productivity, reduced down-time and reduced insurance costs.

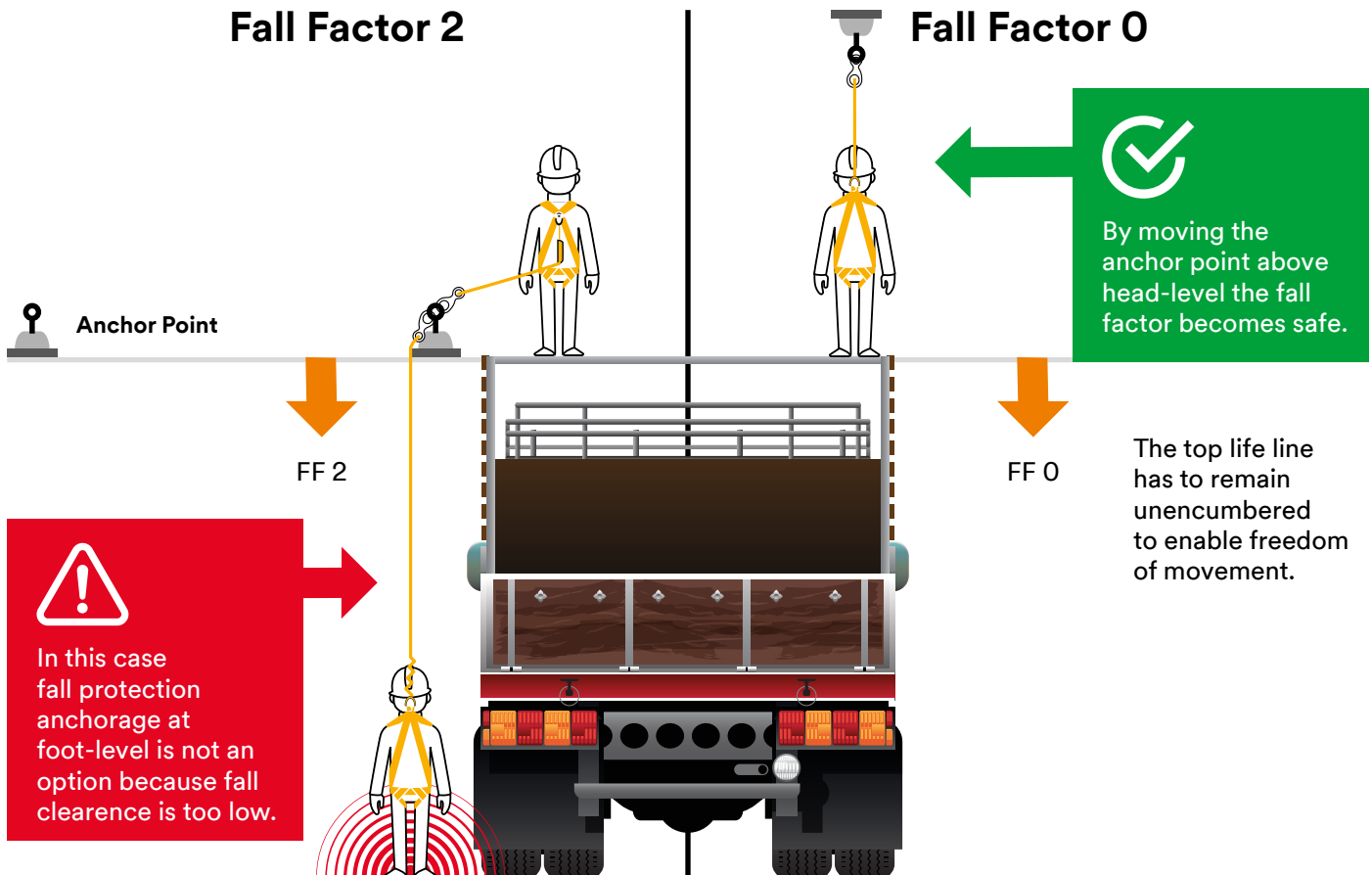
**Falls from height**  
**No1**  
cause of fatalities in the workplace.

**29**  
DEATHS  
within **manufacturing** and **transportation**. (2019/2020)

**Manufacturing & Transportation**  
account for nearly  
**20%**  
of those fatalities

Many falls are from heights below **2 m**

## Challenge of fall clearance.



# 3M™ DBI-SALA® Flexiguard™ Modular Jib System.

Your workers need to perform various tasks at moderate heights. Tasks like inspection, welding, assembly, packaging, loading, securing and unloading vehicles can have low fall clearance, meaning that only overhead (fall factor 0) fall arrest anchors are appropriate.

Overhead cranes are very common in many industries, particularly the metalworking industries. Such cranes limit or prevent the use of many permanent and temporary overhead anchors like horizontal lifelines due to the risk of contact and interference.

3M™ Flexiguard™ M100/M200 modular Jib system allows for a transportable, height adjustable overhead anchorage point that can operate with little or no conflict with any overhead crane.

## The challenge

## The solution



Overhead cranes restrict the use of permanent and temporary overhead anchors like horizontal lifelines.



When production and assembly work is required on top of machinery/equipment but is beneath an overhead crane an overhead life line system is not always possible.

A transportable, height adjustable anchorage point allows a safe working environment achieving fall factor 0.

## Typical tasks performed at moderate height in metalworking industries:



Production line assembly work beneath a crane



Maintenance and repair work on top of a machine



Routine engine maintenance work

# 3M™ DBI-SALA® Flexiguard™ Modular Jib System.

Get the coverage you need with this versatile fall protection system. Available in both the M100 and M200 Series, the 3M™ DBI-SALA® Flexiguard™ Modular Jib System features a simplified design that enhances worker safety in multiple applications.

Mast rotation range from 270° / 360°. Increased rail-length configurations improve working coverage while a new design facilitates easier system transport.

More versatility. New modular product offering provides 80 unique application solutions.

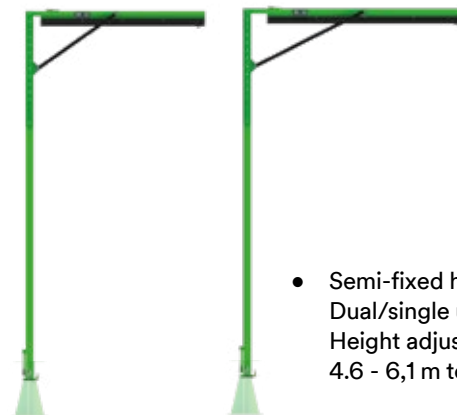


## Configure your 3M DBI-SALA Flexiguard solution:

### 1. Choose from various interchangeable mast options.



- Dual/single user masts  
Height adjustment from 3 - 4.6 m to 5.3 - 9.1 m

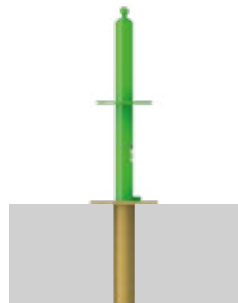


- Semi-fixed height, Dual/single user masts  
Height adjustment from 4.6 - 6,1 m to 7.6 - 9.1 m

### 2. Choose from various interchangeable base options.



- Portable Counterweight Base with or without concrete fill



- Flush Floor Mounted Base



- Permanent Floor Mounted Base

### 3. Choose your accessories.

- Smooth Surface Caster Kit
- Forklift Pocket Mast Transport Kit
- Overload Clutch
- Counterweight Box Lifting Ring Kit
- Jack Stabilising Kit



## Key benefits of 3M™ DBI-SALA® Flexiguard™ Modular Jib System

- Provides overhead fall arrest anchor point - "Fall factor 0"
- Portable or fixed base options provide anchor location flexibility
- Easily transportable unit using 2,5 ton forklift or an overhead crane
- Self-install
- One or two user options



Configure your system now - download the Fall protection configuration App



## Body Support.



### 3M™ Protecta® Harnesses

Our welders harness is specifically designed to resist potential heat damage experienced in welding and grinding applications.

- Highly durable
- Heat resistant and flame retardant webbing
- Lightweight design

#### Specifications

- Webbing: Modacrylic over Kevlar®, 45 mm
- 370° C char temperature
- Stitching: High strength Kevlar® thread
- Breaking Strength: > 2600daN
- Buckles: Pass-through, High strength zinc-plated steel
- D-rings: Steel - zinc plated
- CE EN 361
- 140 kg weight capacity

Learn more about  
3M™ Protecta® Harnesses

## Connecting Devices.

### 3M™ DBI-SALA® Nano-Lok™ Self-Retracting Lifeline (SRL)



Self-Retracting Lifeline (SRL) specifically designed for welding, grinding and high heat applications.

#### Durable

Reinforced webbing with Nomex®/Kevlar® fibre to withstand sparks, weld splatter and other high heat exposure.

#### Versatile

Variety of DBI-SALA® Nano-Lok™ configurations, single and twin-leg, that can be connected at foot level to meet your specific needs.

#### Safe

Arc flashed to 8 calories (8 cal/cm<sup>2</sup>), for hot work use in applications like welding, grinding and torching. Meets or exceeds industry standards. CE EN 360:2002.



### 3M™ Protecta® Welders Lanyards

#### Resistant

- Heat and char resistant shock pack cover that slips over shock pack, heat resistant up to 371°C
- Reinforced webbing with Nomex®/Kevlar® fibre to protect shock pack from getting burned

Learn more about 3M™ Connecting devices and Fall Protection for Tools

# 3M™ DBI-SALA® Ultra-Lok Cable RSQ™ SRL - 15 m.



## 3M™ DBI-SALA® Ultra-Lok™ RSQ™ Dual Mode Design

No other brand has the exclusive DBI-SALA® dual-mode descent operation!

Our RSQ feature allows the user, prior to connection, to choose their mode of operation.

This two-in-one operation lowers the cost of ownership by reducing the need for separate rescue equipment and ensuring you always have a rescue plan.

- Standard fall arrest mode
- Automatic descent mode - self rescue
- Remote/Assisted descent activation options



# Fall Protection for Tools.

Our tool lanyards and other drop prevention products and solutions are designed with worksite mobility in mind, and are third-party tested in the harshest possible conditions.



## Education.



### Best-in-class certified training courses

We offer a variety of training courses for work at height and in confined spaces at our state-of-the-art training centres or on-site.

- The training courses are based on standard curriculums or custom programs specific to your jobsite
- We can bring one of our fully equipped Demo Vans to a location on a date to suit you; saving you precious time and resources

### Live and on-demand webinars

Free webinars on fall protection and confined spaces.

### Download the 3M™ Confined Space Configurator App

A powerful free mobile app from 3M™ that harnesses the power of augmented reality, enabling you to virtually insert accurately scaled 3D models into your unique work environments.



## More 3M PPE.



### Head Protection.

#### 3M™ SecureFit™ Safety Helmet X5000 Series

- Secure, comfortable head protection for working at heights and other hazardous industrial jobs
- Suspension system incorporates exclusive patented 3M™ Pressure Diffusion Technology
- 4-point chin strap selector system unique to 3M makes it possible to switch between EN 12492 (Mountaineering helmets) and EN 397 (Industrial safety helmets) standards



### Welding Protection.

#### 3M™ Speedglas™ Welding Helmet 9100 MP with welding filter 9100X and 3M™ Adflo™ Powered Air Respirator, (H577700 + H500015)

- Combined head, face, eye and powered air respiratory protection for welding applications
- Comes with 3M™ Speedglas™ Welding Helmet MP, welding filter and 3M™ Adflo™ Powered Air Respirator
- Meets the EN 379 standard for industrial safety helmets
- M-958 2-point chin strap accessory



### Eye Protection.

#### 3M™ SecureFit™ 500 Safety Glasses

- Sporty design with contemporary lens shape and a sleek profile that can combine well with other PPE.
- Adjustable ratchet temples allow user to adjust lens for facial features and eyeglass position.
- Scotchgard™ Anti-Fog / Anti-Scratch Coating (K&N), various lens options



### Hearing Protection / Communication.

#### 3M™ PELTOR™ WS™ LiteCom Plus Headsets

- Hearing protector with built-in analogue two-way communication radio
- Available in 8 or 69 channel version; both with 121 sub-channels
- Level-dependent technology helps improve situational awareness and communication
- Noise cancelling dynamic microphone provides voice-operated transmission for hands free use

Learn more about 3M™ PPE solutions

**3M Belgium BVBA / SPRL**

Hermeslaan 7  
1831 Diegem  
België / Belgique  
Email: 3Msafety.be@mmm.com  
www.3Msafety.be

**3M Česko, spol. s r. o.**

Divize ochrany zdraví  
a bezpečnosti při práci  
V Parku 2343/24  
148 00 Praha 4  
Tel: +420 228 885 175  
www.3M.cz/OOPP

**3M Danmark**

Hannemanns Allé 53  
2300 København S  
Danmark  
Email:  
3M.CustomerCare.DK@mmm.com  
www.3Msikkerhed.dk

**3M Deutschland GmbH**

Carl-Schurz-Straße 1  
D - 41453 Neuss  
Deutschland  
Email: arbeitsschutz.de@mmm.com  
www.3Marbeitsschutz.de

**3M Eesti**

Pärnu mnt. 158  
11317 Tallinn, Eesti  
Tel. +372 611 5911  
Email:  
3M.customerservice.EE@mmm.com  
www.3M.ee

**3M Espana, S.A.**

Juan Ignacio Luca de Tena, 19-25  
28027 Madrid  
Espana  
E-mail: ohes.es@3M.com  
www.3M.com/es/seguridad

**3M France**

Boulevard de l'Oise  
95006 Cergy Pontoise Cedex  
France  
Email: 3M-France-epi@mmm.com  
www.3M.com/fr/securite

**3M Greece**

20 Kifissias Ave.  
151 25 Maroussi  
Athens, Greece  
www.3M.com/gr/occsafety

**3M Gulf Ltd**

PO Box 20191, Dubai Internet City  
Building @ 11  
Dubai  
United Arab Emirates  
Tel: +971 4 3670 777  
www.3Mae.ae

**3M Hungária Kft.**

Munkavédelmi üzletág  
1117 Budapest, Neumann János u. 1/E  
Hungária  
Tel: +36 1 270 7777  
www.3M.hu/munkabiztonsag

**3M Israel**

91 Medinat Ha'Yehudim St.  
Herzeliya 4676673  
Israel  
Tel: 09-9615000  
www.3Misrael.co.il

**3M Ireland Limited**

The Iveagh Building  
The Park, Carrickmines  
Dublin 18  
Ireland  
Email: ohes.helpline.uk@mmm.com  
www.3M.co.uk/safety

**3M Italia srl**

Via Norberto Bobbio, 21  
20096 Pioltello MI  
Italia  
Email: 3Msicurezza@mmm.com  
www.3Msicurezza.it

**3M Latvija**

Kārļa Ulmaņa gatve 5,  
Zemgales priekšpilsēta  
Rīga, LV-1004  
Lettland  
Email:  
3M.customerservice.LV@mmm.com  
www.3M.lv

**3M Lietuva**

A. Goštauto g. 40A  
LT-03163 Vilnius  
Lietuva  
Email:  
3M.customerservice.LT@mmm.com  
www.3M.lt

**3M Nederland B.V.**

Molengraaffsingel 29  
2629 JD Delft  
Nederland  
Email: 3Msafety.nl@mmm.com  
www.3Msafety.nl

**3M Norge A/S**

Taerudgata 16  
2004 Lilestrøm  
Norge  
Email:  
3M.CustomerCare.NO@mmm.com  
www.3M.no/vern

**3M Österreich GmbH**

Kranichberggasse 4  
1120 Wien  
Österreich  
www.3M.com/at/arbeitschutz

**3M Poland Sp. z o.o.**

Aleja Katowicka 117  
05-830 Nadarzyn  
Poland  
Tel: +48 22 739 60 00  
www.3Mpolska.pl

**3M Portugal**

Rua do Conde Redondo, 98  
1169-009 Lisboa  
Portugal  
www.3M.com/pt/seguranca

**3M Russia**

108811, Moscow, p. Moskovskiy  
Kievskoe shosse, 22km, 6, bld.1  
Tel: 8 800 250 84 74  
www.3MRussia.ru

**3M Saudi Arabia**

Business Gate Building # 24 & 25  
Zone C2 Cordoba District  
P.O.Box 21840, Riyadh 11485  
Saudi Arabia  
Tel: 966 50 4494143  
www.3M.com.sa

**3M Slovensko s.r.o.**

Polus Tower 2, Vajnorská 100/B  
83104 Bratislava  
Slovak Republic  
Tel.: +421 2 4910 5211  
Email: innovation.sk@mmm.com  
www.3M.sk/OOPP

**3M Suisse S.a r.l. / Schweiz GmbH**

Eggstrasse 93  
8803 Rüschiikon  
Suisse / Schweiz  
www.3M.com/ch/safety

**Suomen 3M Oy**

Keilaranta 6  
02150 Espoo  
Suomi  
Email: tilaukset@mmm.com  
www.3M.fi/suojaimet

**3M Svenska AB**

Bollstanäsvägen 3  
191 89 Sollentuna  
Sverige  
Email:  
3M.CustomerCare.SE@mmm.com  
www.3M.se/personskydd

**3M Türkiye**

Barbaros Mah. Mor Sümbül Sok.  
No:7/3F 27-51 Nidakule Ataşehir  
Güney 34746 Ataşehir/İstanbul  
Türkiye  
Tel: (90) 216 538 07 77  
www.3M.com.tr

**3M United Kingdom PLC**

3M Centre  
Cain Road, Bracknell  
RG12 8HT  
United Kingdom  
Email: ohes.helpline.uk@mmm.com  
www.3M.co.uk/safety

**3M Ukraine LLC,**

Horizon Park Business Center  
12, M.Amosova str.  
Kyiv, 03038  
Ukraine  
Tel: +38 044 490 57 77  
www.3M.com.ua

**Fall Protection****Registered Offices:**

**Capital Safety (Northern Europe) Limited**  
3M Centre, Cain Road  
Bracknell, Berkshire, RG12 8HT, UK

**Capital Safety Group (EMEA)**

Le Broc Center, Bâtiment A, Z.1. 1re Avenue  
– BP15, 06511 Carros Le Broc, Cedex, FRANCE

Phone: +33 (0)4 83 58 08 08  
Email: informationfallprotection@mmm.com  
Web: 3M.com/FallProtection

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