

# BUILT FOR PRESSURE

THE OFFICIAL  
NEWSLETTER OF

**MEOX**

THE UK'S LARGEST  
ASSEMBLER OF  
HYDRAULIC HOSES



## IN THIS EDITION

World-Renowned, Manufacturing  
Heavyweights Kocurek

# WELCOME

Welcome to the second edition of the MEOX newsletter – Built For Pressure.

We have an exciting edition for you this month, focused on large bespoke projects, alongside Kocurek, the global high reach excavator manufacturer.

Like us, Kocurek are relentless in their pursuit of technical innovation, whilst challenging the limits of modern engineering. This is reaffirmed by their mantra “never out of reach” meaning nothing is impossible.

This is also why our two companies are so compatible. It has been a great validation of the quality of, not only our products but our outstanding technical team. Our partnership approach to customers is unrivalled in the UK and helps us to achieve our goal of mutual success.

It has been a relief to many seeing supply chain issues ease but our competitors are still struggling to supply and meet due dates. Our MEOX customers receive excellent service with on time deliveries. We continue to increase our stock holding of hose & fittings in the UK and, as a result of continued investment, we have further capacity available.

We are seeing an increase in new enquiries from OEMs seeking to improve quality by switching to our Dunlop hose. These manufacturers have been moved to lower performing hydraulic hoses with little or no consideration of the long-term performance and financial implications of increased warranty claims.

Our Dunlop hoses are all validated to over 1m impulse cycles - most other hoses are 400,000. It's a huge difference in quality and service life. By coming directly to us, the manufacturer, we can make you a healthy saving and improve your quality.

So, I hope you enjoy this edition focused on Kocurek. If you would like to find out more, or have any questions, please give me a call!

I leave you with a quote from David Kocurek himself, as it really gives an insight as to how his mind works...

*“Any problem can be solved Matt, you just have to want to solve it”*

**Matthew Gissing**

Sales Director

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Hitachi EX1200-5  
with a 36m 4-Piece  
High Reach Demolition Front

## WHO ARE MEOX?

Bringing the Dunlop Hiflex name exclusively to the UK, we give the UK OEM market the opportunity to use world class hydraulic hoses, that are manufactured, stored and delivered from our UK production facility.

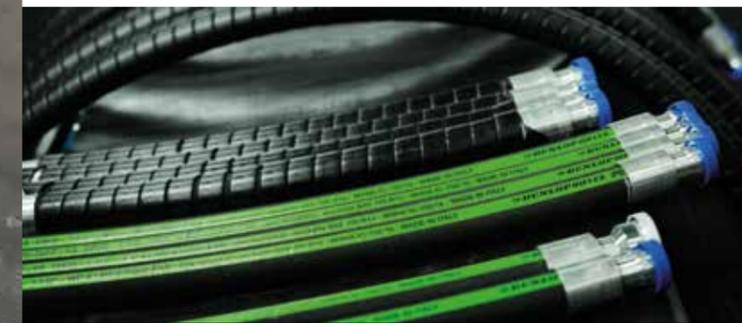
We are one of the last remaining, direct manufacturers assembling hoses here in the UK. We hold over £1.7m of raw material in our Suffolk HQ, giving us greater ability to adapt to your ever-changing production schedules.

OEMs worldwide such as CNH, John Deere, Liebherr and Wacker Neuson validate our products to over 1m impulse cycles – making our hoses the highest performing of any brand in the world.

By working with us, the manufacturer, we expect to be able to deliver you a healthy saving. We also expect to improve the quality of the products you purchase currently, whilst delivering a supportive, collaborative approach.

The combination of quality, service and affordability has made us the go to company for hydraulic hoses, tubes and kits in the UK.

In this edition we showcase the partnership between MEOX and Kocurek Excavators, highlighting why we are the trusted hydraulic partner for this world-renowned OEM.



**MEOX assembled hydraulic hose solutions**

► Case Study



Working with Kocurek Excavators has given us the stage to display the qualities of our products and technical capabilities on a vast scale to businesses around the world.



◉ Kocurek Colossus  
with 42m 3-Piece High Reach  
Demolition front



### About Kocurek

Since 1983 Kocurek Excavators have been internationally recognised as the leading bespoke excavator front end equipment and base machine modifications manufacturer.

A family-built business, by David Kocurek and his late mother Rita, the family ethos still runs throughout the business today. David and his sister Mary are both Directors of the business, with the next generation of family members having taken up pivotal roles within the Kocurek enterprise.

**“The tap couplings enable the flow to be ‘locked’ on or off ensuring less risk of leakages and loss of pressure which can cause serious damage to the base machine’s hydraulic system.”**

David Kocurek - Owner

### A Relationship of Trust

Kocurek are quite simply demolition manufacturing royalty. For 40 years the company has been at the forefront of the global demolition industry, designing and manufacturing excavators of colossal size and strength.

These excavators have been sold all over the world and operate in some of the harshest conditions for long hours. The machines must overcome huge challenges in order to perform. They often operate in remote locations without quick and easy access to spare parts or engineering support, should they encounter a problem. That’s why quality is of paramount importance.

The MEOX team provides Kocurek with the expertise that they need. The team have gained trust by showing the intensity and willingness needed to deeply understand the intricacies of the Kocurek machines. This constant striving, has allowed MEOX to come to the table with new products and services, consistently adding value.

Most importantly, Kocurek trust the quality of the MEOX products.

Our world class hose guarantee Kocurek’s renowned reputation remains. Time and again, our hose products have demonstrated that they are a cut above the rest.

We work on some of the world’s largest and most expensive OEM projects. Why? That’s simple, we have the products, we have the technical expertise and most importantly we have the quality.

### A Global Operation

Kocurek collaborates with major global companies and their products are operational in numerous countries, including America, Australia and India. Using our renowned 6K Hi-Tuff PowerflexBio range, specifically designed for heavy duty

**“Alongside their technical team, we have developed our hydraulic systems using the Dunlop Hiflex hose range. It’s performance in the field is outstanding, giving us peace of mind as we send our products to customers around the globe.”**

Martin Williams – After Sales & Service Manager

**“The demanding nature of the excavating industry commands us to use hoses and other hydraulic products that can withstand the pressures of harsh working environments for prolonged periods of time. Working with MEOX, we have found a business that is able to deliver technical innovation, keep up with our product demands and offer excellent customer support.”**

David Kocurek – Owner



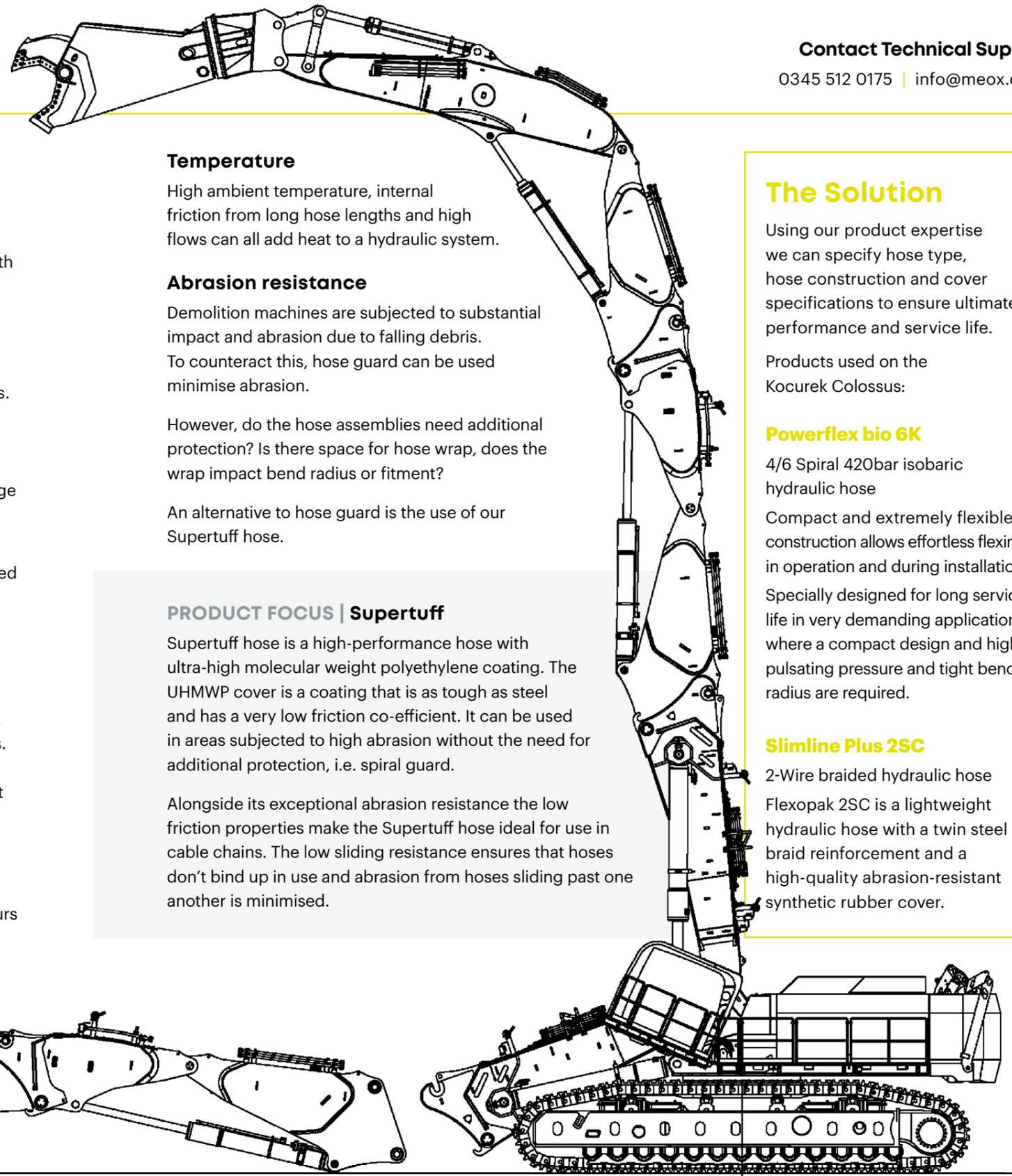
environments, we design fully bespoke hose kits exclusively for use by Kocurek around the world.

Using our technical innovation, we have integrated our cutting-edge quick release ball valves into Kocurek’s products as well as the high performing, market-leading, Stucchi 10-way multi coupling system. The Kocurek machines work at extremely high temperatures, for exceptionally long periods of time. Our quick release valves and Stucchi couplings ensure full flow throughout the system - an integral part of allowing these monsters to remain fully functional at all times. Our technical capabilities, affords Kocurek the confidence that our Dunlop Hiflex hydraulic hoses will consistently meet the expectations of their customers anywhere in the world.

# TECHNICAL TALK WITH JUSTIN RELF



Contact Technical Support  
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## Project Overview

Here is the original blueprint of the World Demolition Award winning “Kocurek Colossus”

Utilising a Liebherr R9200/R9150 hybrid as a base, this machine boasts some impressive specs:

**312Tonne+ operating weight**

**Ultra-High 76m maximum pin height**

**1,089 HP 37.8L Cummins V12**

**4 x 512L/min @ 350bar variable axial piston pump**



## The Process

When designing a hydraulic hose kit with Kocurek, flow and pressure ratings are not the only factors to consider. The physical dynamics of such a large machine can play a huge part in the performance of the hose kit.

Careful planning, in collaboration with Kocurek, means factors such as minimum bend radius, hose rating and identifying areas that require additional protection can all be taken into consideration.

## The factors for consideration

### Bend Radius

Kocurek’s machines are designed for maximum manoeuvrability, this means the hoses must keep up with the machine during operation.

With complex installations, high flow and high pressure requirements, having a hose with an exceptional bend radius is essential. If the hoses are pushed beyond their minimum bend radius this will lead to premature failures.

### Hose length

All hoses, regardless of brand or type, contract or elongate under pressure. The key is to ensure this change in length is kept to a minimum.

With ultra-long boom lengths comes long lengths of hose, which means that any change in length is increased in magnitude. Therefore selecting the correct hose construction, supported by good hose routing ensures that change in length is kept to a minimum.

### Impulse

Whether using a hydraulic hammer or concrete cracker, the hoses must be able to resist high-impulse pressures. Impulse spikes in pressure can put extra stresses on hydraulic hoses. The hoses must remain flexible without whipping under impulse.

### Environment

Kocurek’s machines work in some of the harshest environments imaginable and are subjected to long hours of intense use. From the baking sun of Australia to the freezing winds of Canada, Kocurek’s machines must be able to operate in all extremes.

### Temperature

High ambient temperature, internal friction from long hose lengths and high flows can all add heat to a hydraulic system.

### Abrasion resistance

Demolition machines are subjected to substantial impact and abrasion due to falling debris. To counteract this, hose guard can be used to minimise abrasion.

However, do the hose assemblies need additional protection? Is there space for hose wrap, does the wrap impact bend radius or fitment?

An alternative to hose guard is the use of our Supertuff hose.

### PRODUCT FOCUS | Supertuff

Supertuff hose is a high-performance hose with ultra-high molecular weight polyethylene coating. The UHMWP cover is a coating that is as tough as steel and has a very low friction co-efficient. It can be used in areas subjected to high abrasion without the need for additional protection, i.e. spiral guard.

Alongside its exceptional abrasion resistance the low friction properties make the Supertuff hose ideal for use in cable chains. The low sliding resistance ensures that hoses don’t bind up in use and abrasion from hoses sliding past one another is minimised.

## The Solution

Using our product expertise we can specify hose type, hose construction and cover specifications to ensure ultimate performance and service life.

Products used on the Kocurek Colossus:

### Powerflex bio 6K

4/6 Spiral 420bar isobaric hydraulic hose

Compact and extremely flexible construction allows effortless flexing in operation and during installation. Specially designed for long service life in very demanding applications where a compact design and high pulsating pressure and tight bend radius are required.

### Slimline Plus 2SC

2-Wire braided hydraulic hose  
Flexopak 2SC is a lightweight hydraulic hose with a twin steel braid reinforcement and a high-quality abrasion-resistant synthetic rubber cover.

**MEOX**

POWERED BY  **DUNLOPHIFLEX**

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