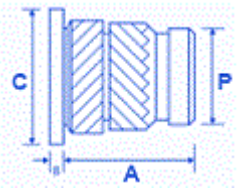
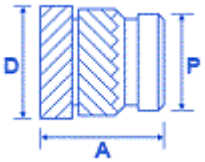
# HIS:

## FSUK-HISH




## FSUK-HIS




## Description

The HIS range of inserts has been developed with an opposing herringbone knurl on the outside to give a high level of performance in most Thermoplastics. This insert is available in a headed version to increase performance and aid with Electrical contacts.

Its designed to be installed into drilled or moulded holes using either direct heat or ultrasonic. The insert is designed with a pilot end to aid insertion.

## Dimensions

| thread | A | B | C | D | P | H.Size | W.Thickness |
|---|---|---|---|---|---|---|---|
| M2 | 4,0 | 0,53 | 4,8 | 3,6 | 3,1 | 3,2 | 1,3 |
| M2.5 | 5,7 | 0,61 | 5,5 | 4,6 | 3,9 | 4,0 | 1,6 |
| M3 | 5,7 | 0,61 | 5,5 | 4,6 | 3,9 | 4,0 | 1,6 |
| M3.5 | 7,1 | 0,76 | 6,4 | 5,4 | 4,7 | 4,8 | 1,8 |
| M4 | 8,2 | 0,91 | 7,1 | 6,3 | 5,5 | 5,6 | 2,1 |
| M5 | 9,5 | 1,09 | 7,9 | 7,1 | 6,3 | 6,4 | 2,6 |
| M6 | 12,7 | 1,35 | 9,5 | 8,7 | 7,9 | 8,0 | 3,3 |
| M8 | 12,7 | 1,35 | 11,1 | 10,2 | 9,5 | 9,6 | 4,5 |
| M10 | 12,7 | 1,60 | 14,0 | 12,3 | 11,6 | 11,7 | 6,0 |

## Advantages

HIGH TORQUE AND PULL OUT
SUITABLE FOR THIN BOSS WALLS TO MAXIMISE DESIGN SPACE
HEADED VERSION FOR ELECTRICAL CONTACT AND HIGHER PERFORMANCE

## Comments

DESIGN ALLOWS RAPID INSTALLATION USING HEAT OR ULTRASONICS
AVAILABLE IN SHORTER LENGTHS AND WITH MALE THREADED VERSIONS
DESIGNATION EXAMPLE: FSUK HIS-B-M3 UNHEADED
FSUK HISH B M3 HEADED VERSION
AVAILABLE IN BRASS + SOME SIZES IN STAINLESS
MOST SIZES AVAILABLE FROM STOCK
CONTACT FSUK FOR FURTHER INFO

Unit 7, Brickfields Business Park, Gillingham, Dorset, SP8 4PX T: 01747 835456 F: 01747 230007
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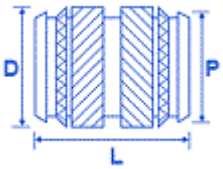
# DUO: Inserts for Thermo Plastics

## FSUK-DUO




## Description

The Duo range is based on a opposing herringbone knurl with the advantage of it being symmetrical.

Its designed to be installed into drilled or moulded holes using direct heat. (Not Ultrasonic's)

## Dimensions

| thread | D | P | L | H.Size | W.Thickness |
|---|---|---|---|---|---|
| M2 | 3,5 | 3,1 | 3,9 | 3,2 | 1,3 |
| M2.5 | 4,4 | 3,9 | 5.7 | 4,0 | 1,6 |
| M3 | 4,4 | 3,9 | 5.7 | 4,0 | 1,6 |
| M3.5 | 5,2 | 4,7 | 7.1 | 4,8 | 1,8 |
| M4 | 6,1 | 5,5 | 8.1 | 5,6 | 2,1 |
| M5 | 6,8 | 6,3 | 9.5 | 6,4 | 2,6 |
| M6 | 8,5 | 7,9 | 12.7 | 8,0 | 3,3 |
| M8 | 10,0 | 9,5 | 12.7 | 9,6 | 4,5 |
| M10 | 12,3 | 11,8 | 12.7 | 11,9 | 6,0 |

## Advantages

HIGH TORQUE AND PULL OUT
SUITABLE FOR THIN BOSS WALLS TO MAXIMISE DESIGN SPACE
DESIGN ALLOWS RAPID INSTALLATION USING HEAT
AVAILABLE IN SHORTER LENGTHS
SYMMETRICAL TO AID WITH INSTALLATION

## Comments

DESIGNATION EXAMPLE FSUK DUO B M3 M3 BRASS VERSION
ONLY AVAILABLE IN BRASS
MOST SIZES EX STOCK

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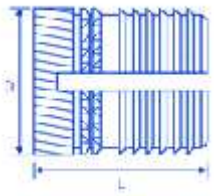
# EXPP: Inserts for Thermo Plastics

## FSUK-EXPP



## Description

The FSUK EXPP insert is a high performance press in insert designed for Thermoplastics.

Its designed to be pressed in cold into drilled or moulded holes.

The insert has a anti vibration feature but without the high installation torque required with the EXP range.

## Dimensions

| thread | D | L | H.Size | W.Thickness |
|---|---|---|---|---|
| M2 | 3,7 | 4.0 | 3,2 | 1,6 |
| M2.5 | 4,5 | 5.8 | 4.0 | 2,0 |
| M3 | 4,5 | 5.8 | 4,0 | 2,0 |
| M4 | 6,2 | 8.2 | 5,6 | 2,8 |
| M5 | 6,9 | 9.5 | 6,4 | 3,2 |
| M6 | 8,5 | 12.7 | 8,0 | 4,0 |
| M8 | 10,1 | 12.7 | 9,6 | 4,8 |

## Advantages

FAST AND EASY TO INSTALL WITHOUT THE NEED FOR HEAT
HIGH PERFORMANCE
SUITABLE FOR THE MAJORITY OF THERMOPLASTIC

## Comments

EXAMPLE DESIGNATION FSUK EXPP B M3

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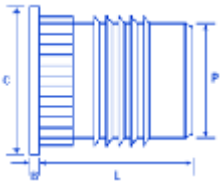
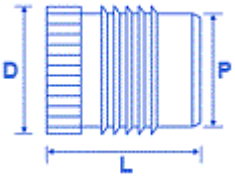
# PU: Inserts for Thermo Plastics

## FSUK-PUH




## FSUK-PU




## Dimensions

| thread | B | C | D | P | L | H.Size | W.Thickness |
|---|---|---|---|---|---|---|---|
| M2 | 0,45 | 4,8 | 3,7 | 3,1 | 4.0 | 3,2 | 1,6 |
| M2.5 | 0,58 | 5,5 | 4,5 | 3,9 | 4.8 | 4,0 | 2,0 |
| M3 | 0,58 | 5,5 | 4,5 | 3,9 | 4.8 | 4,0 | 2,0 |
| M3.5 | 0,74 | 6,4 | 5,3 | 4,7 | 6.4 | 4,8 | 2,4 |
| M4 | 0,89 | 7,1 | 6,1 | 5,5 | 7.9 | 5,6 | 2,8 |
| M5 | 1,07 | 7,9 | 7,0 | 6,3 | 9.5 | 6,4 | 3,2 |
| M6 | 1,32 | 9,5 | 8,6 | 7,9 | 12.7 | 8,0 | 4,0 |
| M8 | 1,32 | 11,0 | 10,2 | 9,5 | 12.7 | 9,6 | 4,8 |

## Advantages

FAST AND EASY TO INSTALL WITHOUT THE NEED FOR HEAT
HIGH PERFORMANCE
SUITABLE FOR THE MAJORITY OF THERMOPLASTICS
FREE RUNNING THREAD
HEADED VERSION FOR ELECTRICAL CONTACT AND HIGHER PERFORMANCE

## Comments

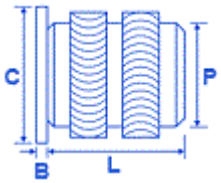
## Description

The FSUK PU insert is cold press in insert which is designed with a free running thread and will suit most types of Thermoplastics.

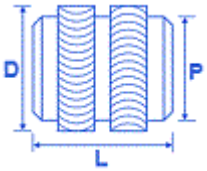
Its designed to be pressed in cold into drilled or moulded holes and due to its combination of fins and knurls can achieve a high performance.

# HIHL: Inserts for Thermo Plastics

## FSUK-HIHLH




## FSUK-HIHL




## Dimensions

| thread | B | C | D | P | L | H.Size | W.Thickness |
|---|---|---|---|---|---|---|---|
| M2 | 0,51 | 4,8 | 3,5 | 3,1 | 3.9 | 3,2 | 1,4 |
| M2.5 | 0,58 | 5,5 | 4,4 | 3,9 | 5.8 | 4,0 | 1,8 |
| M3 | 0,58 | 5,5 | 4,4 | 3,9 | 5.8 | 4,0 | 1,8 |
| M3.5 | 0,74 | 6,4 | 5,2 | 4,7 | 7.1 | 4,8 | 2,1 |
| M4 | 0,89 | 7,1 | 6,1 | 5,5 | 8.1 | 5,6 | 2,4 |
| M5 | 1,07 | 7,9 | 6,9 | 6,3 | 9.5 | 6,4 | 2,8 |
| M6 | 1,32 | 9,5 | 8,5 | 7,9 | 12.7 | 8,0 | 3,6 |
| M8 | 1,32 | 11,1 | 10,0 | 9,5 | 12.7 | 9,6 | 5,0 |

## Advantages

SYMMETRICAL TO AID WITH INSTALLATION
DESIGNED TO REDUCE STRESS FOR USING WITH AMORPHOUS PLASTICS
HEADED VERSION FOR ELECTRICAL CONTACT AND HIGHER PERFORMANCE

## Comments

EXAMPLE DESIGNATION FSUK HIHL B M3 UNHEADED M3
FSUK HIHLH B M3 HEADED M3
ONLY AVAILABLE IN BRASS

## Description

The HIHL range has been designed with a rounded crest and knurl configuration to be installed into Notch Sensitive Plastics such as 30% Glass Filled Polycarbonate. This insert reduces the stress and is available in a headed version to increase performance and aid with Electrical contacts.

Its designed to be installed into drilled or moulded holes using direct heat and reduces the risks associated with cracking .

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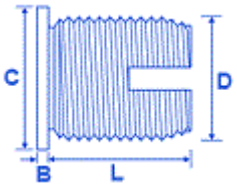
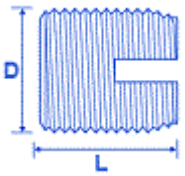
# SCR: Inserts for Thermo Plastics

## FSUK-SCRH




## FSUK-SCR




## Description

The SCR range is a Self Tapping range of inserts with internal and external threads and a slot to aid installation.

Its designed to be installed into drilled or moulded holes and can be used where Maximum strength is required.

## Dimensions

| thread | B | C | D | L | H.Size | holesize2 |
|---|---|---|---|---|---|---|
| M2.5 | 0,58 | 6,0 | 4,5 | 6.0 | 4,0 - 4,1 | 4,1 - 4,3 |
| M3 | 0,58 | 6,5 | 5,0 | 6.0 | 4,5 - 4,6 | 4,6 - 4,8 |
| M3.5 | 0,73 | 7,5 | 6,0 | 8.0 | 5,3 - 5,4 | 5,5 - 5,7 |
| M4 | 0,89 | 8,0 | 6,5 | 8.0 | 5,8 - 5,9 | 6,0 - 6,2 |
| M5 | 1,06 | 9,5 | 8,0 | 10.0 | 7,1 - 7,2 | 7,3 - 7,6 |
| M6 | 1,32 | 12,0 | 10,0 | 14.0 | 8,6 - 8,8 | 9,0 - 9,4 |
| M8 | 1,32 | 14,0 | 12,0 | 15.0 | 10,6 - 10,8 | 11,0 - 11,4 |
| M10 | 1,57 | 16,0 | 14,0 | 18.0 | 12,6 - 12,8 | 13,0 - 13,4 |

## Advantages

HIGH PULL OUT RESISTANCE.
HEADED VERSION FOR ELECTRICAL CONTACT AND HIGHER PERFORMANCE.
CAN BE USED IN MOST TYPES OF MATERIALS.
AVAILABLE IN HARDENED STEEL AND STAINLESS.

## Comments

EXAMPLE DESIGNATION FSUK SCR B M3 FSUK SCRH B M3 (HEADED)
AVAILABLE IN BRASS, HARDENED STEEL AND STAINLESS STEEL
PLEASE NOTE HOLE SIZE 1 IS A GUIDE FOR THERMOPLASTICS AND HOLESIZE 2 IS A GUIDE FOR THERMOSETTING PLASTICS. CONTACT FSUK FOR FURTHER INFO IF REQUIRED.
PLEASE NOTE THAT THE WALL THICKNESS WOULD BE TYPICALLY MINIMUM 0.3 X D ON THE SCR.
THE SCRH RANGE STARTS FROM THREAD SIZE M4.

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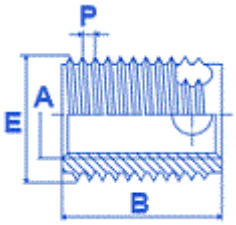
# SCRS: Inserts for Thermo Plastics

## FSUK-SCRS




## Dimensions

| thread | B | P | E | H.Size | holesize2 |
|---|---|---|---|---|---|
| M5-7 | 7 | 1 | 8 | 7.4-7.6 | 7.6-7.7 |
| M5-10 | 10 | 1 | 8 | 7.4-7.6 | 7.6-7.7 |
| M6-8 | 8 | 1.25 | 10 | 9.3-9.5 | 9.5-9.6 |
| M6-12 | 12 | 1.25 | 10 | 9.3-9.5 | 9.5-9.6 |
| M8-9 | 9 | 1.5 | 12 | 11.1-11.3 | 11.3-11.5 |
| M8-14 | 14 | 1.5 | 12 | 11.1-11.3 | 11.3-11.5 |
| M10-10 | 10 | 1.5 | 14 | 13.1-13.3 | 13.3-13.5 |
| M10-18 | 18 | 1.5 | 14 | 13.1-13.3 | 13.3-13.5 |
| M12-12 | 12 | 1.75 | 16 | 15.0-15.2 | 15.2-15.4 |
| M12-22 | 22 | 1.75 | 16 | 15.0-15.2 | 15.2-15.4 |
| M14-14 | 14 | 2 | 18 | 17.0-17.2 | 17.2-17.4 |
| M14-24 | 24 | 2 | 18 | 17.0-17.2 | 17.2-17.4 |
| M16-14 | 14 | 2 | 20 | 19.0-19.2 | 19.2-19.4 |
| M16-24 | 24 | 2 | 20 | 19.0-19.2 | 19.2-19.4 |

## Description

The SCRS range is a Self Tapping range of inserts with internal and external threads and 3 holes to aid installation. Its designed to be installed into drilled or moulded holes generally for Thermosetting Plastics with up to 50% Glass Filled like Grivory. They are also an Excellent Insert to obtain a wear free, vibration resistant insert for Aluminium and Aluminium and Magnesium alloys. Can also be used in Thermo Plastics.

## Advantages

HIGH PULL OUT RESISTANCE, DEVELOPED FOR MATERIALS WITH DIFFICULT CUTTING PROPERTIES,
THE INSERT HAS A THICK WALL AND THE CUTTING FORCE IS DISTRIBUTED OVER THREE CUTTING EDGES. SHORTER VERSION AVAILABLE IN ALL SIZES WHERE MINIMAL MATERIAL THICKNESSES ARE INVOLVED.
GENERALLY SOLD IN HARDENED STEEL WITH A RoHS COMPLIANT ZINC AND CLEAR PASSIVATION.

## Comments

TO SPECIFY SIMPLY SPECIFY THE INSERT TYPE- FSUK SCRS AND THEN THE THREAD SIZE, LENGTH AND THEN FINISH
FOR EXAMPLE, A M8-14 LONG WOULD BE FSUK SCRS M8-14-Z (Z= ZINC AND CLEAR PASS).
ALSO AVAILABLE IN STAINLESS. M8, M10 AND M12 CURRENTLY STOCKED BUT MOST SIZES ARE AVAILABLE.
PLEASE NOTE HOLESIZE 1 FOR PLASTIC AND HOLESIZE 2 FOR METAL.
PLEASE NOTE THAT THE WALL THICKNESS WOULD BE TYPICALLY MINIMUM 0.3 X E ON THE SCRS.
PLEASE NOTE DEPTH ON BLIND HOLE SHOULD BE 10% MIN OF DIM B FOR PLASTICS AND 15% MIN FOR METAL

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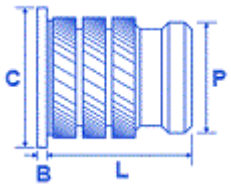
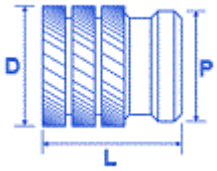
# MU: Inserts for Thermo Setting Plastics

## FSUK-MUH




## FSUK-MU




## Dimensions

| thread | B | C | D | P | L | H.Size | W.Thickness |
|---|---|---|---|---|---|---|---|
| M2 | 0,51 | 4,8 | 3,3 | 3,0 | 4.1 | 3,1 | 1,6 |
| M2.5 | 0,58 | 5,5 | 4,2 | 3,7 | 5.3 | 3,8 | 2,0 |
| M3 | 0,58 | 5,5 | 4,2 | 3,7 | 5.3 | 3,8 | 2,0 |
| M3.5 | 0,74 | 6,4 | 5,0 | 4,5 | 6.3 | 4,6 | 2,5 |
| M4 | 0,80 | 7,1 | 5,8 | 5,3 | 7.4 | 5,4 | 2,5 |
| M5 | 1,07 | 7,9 | 6,6 | 6,1 | 8.3 | 6,2 | 2,5 |
| M6 | 1,32 | 9,5 | 8,2 | 7,7 | 9.2 | 7,8 | 2,8 |
| M8 | 1,32 | 11,1 | 9,7 | 9,3 | 9.2 | 9,3 | 3,8 |
| M10 | 1,57 | 14,0 | 12,0 | 11,5 | 9.2 | 11,6 | 5,0 |

## Advantages

FAST AND EASY TO INSTALL
A SPECIAL PILOT END PREVENTS INSTALLATION PROBLEMS
RELATIVELY SMALL DIAMETER AND LENGTH
HEADED VERSION FOR ELECTRICAL CONTACT AND HIGHER PERFORMANCE
HIGH TORQUE RESISTANCE

## Comments

EXAMPLE DESIGNATION FSUK MU B M3
SOME SIZES AVAILABLE IN STAINLESS

## Description

The FSUK MU range is designed with multiple helically knurled rings designed to be installed into hard brittle thermosetting plastics. These inserts are often used in the Electrical industry.

Its designed to be installed into drilled or moulded holes the sharp knurls allows high performance in thinner boses.

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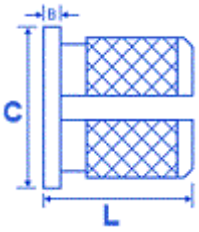
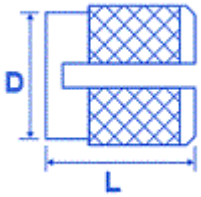
# EXP: Inserts for Thermo Setting Plastics

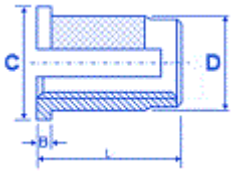
## FSUK-EXPH




## FSUK-EXP




## FSUK-EXPR




## Description

The FSUK EXP range is designed around a diamond knurl configuration with a slot which enables the insert to expand when the mating screw is assembled. This insert is designed more for Thermosetting Plastics although can be used in some Thermoplastics.

Available in a headed and reverse head; it is designed with an anti vibration feature to stop the screw working loose after assembly.

Its designed to be pressed in cold into drilled or moulded holes.

## Dimensions

| thread | B | C | D | L | H.Size | W.Thickness |
|---|---|---|---|---|---|---|
| M2 | 0,43 | 4,8 | 3,2 | 3.9 | 3,2 | 2,4 |
| M2.5 | 0,51 | 5,5 | 4,0 | 4.7 | 4,0 | 3,2 |
| M3 | 0,51 | 5,5 | 4,0 | 4.7 | 4,0 | 3,2 |
| M3.5 | 0,66 | 6,4 | 4,7 | 6.3 | 4,8 | 3,6 |
| M4 | 0,82 | 7,1 | 5,5 | 7.9 | 5,6 | 4,0 |
| M5 | 0,99 | 7,9 | 6,3 | 9.4 | 6,4 | 4,8 |
| M6 | 1,25 | 9,5 | 7,9 | 12.6 | 8,0 | 6,0 |
| M8 | 1,25 | 11,1 | 9,5 | 12.6 | 9,6 | 7,0 |

## Advantages

FAST AND EASY TO INSTALL
SCREW IS SECURED AUTOMATICALLY AGAINST LOOSENING
HEADED AND REVERSE HEAD AVAILABLE TO ENABLE THE INSERT TO GO ON THE BACK OF THE MOULDING

## Comments

EXAMPLE DESIGNATION FSUK EXP B M4= M4 BRASS FLUSH EXPANSION INSERT
FSUK EXPH-B-M4 M4 BRASS HEADED VERSION
FSUK EXPR B M4 M4 REVERSE TYPE EXPANSION INSERT
ONLY AVAILABLE IN BRASS
MOST SIZES AVAILABLE FROM STOCK

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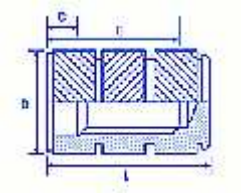
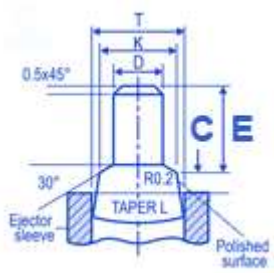
# BLD: Moulded In Inserts

## FSUK-BLD




## Mould Pin




## Description

The FSUK BLD range is a blind insert designed for Moulding in rather than post insertion. The opposing herringbone knurl gives a very high level of performance.

The location pin should be designed as per our dimensions to ensure the insert locates correctly during the moulding process.

## Dimensions

| thread | C | D | E | L |
|---|---|---|---|---|
| M2 | 1.2 | 3.4 | 3.6 | 5.5 |
| M3 | 1.3 | 4.7 | 4.6 | 7.3 |
| M4 | 1.8 | 6.3 | 6.7 | 10.2 |
| M5 | 2.0 | 7.3 | 7.4 | 11.2 |
| M6 | 2.0 | 9.8 | 8.1 | 14.4 |
| M8 | 2.3 | 11.4 | 11.1 | 16.5 |

## Advantages

BLIND ENDED TO AVOID ANY PLASTIC ENTERING THE INTERNAL THREAD
CAN BE INSTALLED INTO VERY LARGE MOULDINGS
VERY HIGH LEVEL OF PERFORMANCE
FREE RUNNING THREAD
MOST SIZES EX STOCK

## Comments

Mould pin design is critical to the success of the moulding-in operations since the features shown are used to locate and reatin the insert prior to moulding and prevent the ingress of plastic during the process.
HOW TO SPECIFY: FSUK BLD B M5
ONLY AVAILABLE IN BRASS
M3-M6 STOCK SIZES

## Dimensions – Mould Pin

| thread | C | D | E | K | L | T |
|---|---|---|---|---|---|---|
| M2 | 0.8 | 1.55 | 2.65 | 2.3 | 6 | 3.00 |
| M3 | 1.05 | 2.45 | 3.40 | 3.125 | 4.5 | 4.00 |
| M4 | 1.50 | 3.25 | 5.0 | 4.425 | 4.5 | 5.40 |
| M5 | 1.70 | 4.15 | 5.55 | 5.125 | 5 | 6.00 |
| M6 | 1.80 | 4.95 | 6.15 | 6.600 | 5.5 | 8.00 |
| M8 | 2.00 | 6.70 | 9.00 | 8.500 | 6 | 10.00 |

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