

# PRECISION MACHINING

May our efforts  
support your growth  
and development.



**3000**<sup>m</sup>

Plant Area

**16**<sup>-years</sup>

Established in 2010

**100**<sup>•people</sup>

Number of Employees

**23**

Production Equipment

## Precision Machining of Hardware Components

### Hardware Parts for Consumer Electronic Products

Factory Direct Supply, Reliable Quality, Competitive Price for Large Orders,  
Fast Delivery, Multiple Processes, Customization on Demand

## ABOUT US

Our company is a professional manufacturing enterprise focused on the R&D, production and sales of precision hardware components. We mainly include precision stamping parts, sheet metal parts, turned parts, custom CNC parts, non-standard fasteners and standard fasteners, with a complete processing system and stable delivery capacity.

Equipped with advanced production equipment and a professional technical team, we strictly follow quality control standards. We can provide customized processing services according to customers' drawings, samples and requirements, delivering one-stop solutions covering product design, precision manufacturing, surface treatment, inspection and delivery. Our products are widely used in industries including electronics and electrical appliances, auto parts, mechanical equipment, smart home, medical devices and communication equipment, and have been recognized by customers for reliable precision, stable quality and high cost-effectiveness.

Adhering to the principle of quality-oriented and customer-centered, we keep optimizing processes and management, continuously improving production efficiency and delivery speed. We are committed to becoming a trusted hardware component partner and creating long-term value for customers.

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### Product Model Breakdown

|         |        |        |       |
|---------|--------|--------|-------|
| PF11MW  | - M3   | - 1    | - BL  |
| ↓       | ↓      | ↓      | ↓     |
| Product | Thread | Bottom | Black |
| Code    | Code   | Code   |       |



<sup>a</sup> The first authorship was more fully recognized for reference only, indicating the primary author of the work.

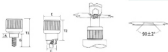
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[illegible]

### Product Model Breakdown

|         |        |        |       |
|---------|--------|--------|-------|
| PF15    | M3     | 1      | BL    |
| ↓       | ↓      | ↓      | ↓     |
| Product | Thread | Bottom | Black |
| Code    | Code   | Code   |       |



Standard finishes include silver and black, with custom color options available for other requirements.

Only two types offered: clothed (Bathurst) and Phillips cross design.

[illegible]







## Product Model Breakdown

PF50 - M3 - 1

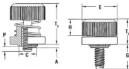
↓                      ↓                      ↓  
**Product      Thread      Bottom**  
**Code           Code        Code**

Drive type: Phillips cross recess

Material configuration: nickel-plated iron rivet  
 component = stainless steel spring



| Technical drawing data and dimensions (mm) are given in parentheses only. Subject to the actual product design data. |        |      |             |             |      |      |                        |     |      |      |      |      |                        |
|----------------------------------------------------------------------------------------------------------------------|--------|------|-------------|-------------|------|------|------------------------|-----|------|------|------|------|------------------------|
| Product Code                                                                                                         | Metric |      | Thread Code | Bottom Code | R    |      | Technical drawing (mm) | C   | D    | D1   | D2   | D3   | Technical drawing (mm) |
|                                                                                                                      | mm     | inch |             |             | mm   | inch |                        |     |      |      |      |      |                        |
| PF50-1                                                                                                               | PF50   | PF50 | M3          | 1           | 0.35 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0.02 | 0                      |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-2                                                                                                               | PF50   | PF50 | M3          | 2           | 0.40 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-3                                                                                                               | PF50   | PF50 | M3          | 3           | 0.45 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-4                                                                                                               | PF50   | PF50 | M3          | 4           | 0.50 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-5                                                                                                               | PF50   | PF50 | M3          | 5           | 0.55 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-6                                                                                                               | PF50   | PF50 | M3          | 6           | 0.60 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-7                                                                                                               | PF50   | PF50 | M3          | 7           | 0.65 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-8                                                                                                               | PF50   | PF50 | M3          | 8           | 0.70 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-9                                                                                                               | PF50   | PF50 | M3          | 9           | 0.75 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-10                                                                                                              | PF50   | PF50 | M3          | 10          | 0.80 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-11                                                                                                              | PF50   | PF50 | M3          | 11          | 0.85 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-12                                                                                                              | PF50   | PF50 | M3          | 12          | 0.90 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-13                                                                                                              | PF50   | PF50 | M3          | 13          | 0.95 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-14                                                                                                              | PF50   | PF50 | M3          | 14          | 1.00 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-15                                                                                                              | PF50   | PF50 | M3          | 15          | 1.05 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-16                                                                                                              | PF50   | PF50 | M3          | 16          | 1.10 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-17                                                                                                              | PF50   | PF50 | M3          | 17          | 1.15 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-18                                                                                                              | PF50   | PF50 | M3          | 18          | 1.20 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-19                                                                                                              | PF50   | PF50 | M3          | 19          | 1.25 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-20                                                                                                              | PF50   | PF50 | M3          | 20          | 1.30 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-21                                                                                                              | PF50   | PF50 | M3          | 21          | 1.35 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-22                                                                                                              | PF50   | PF50 | M3          | 22          | 1.40 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-23                                                                                                              | PF50   | PF50 | M3          | 23          | 1.45 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-24                                                                                                              | PF50   | PF50 | M3          | 24          | 1.50 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-25                                                                                                              | PF50   | PF50 | M3          | 25          | 1.55 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-26                                                                                                              | PF50   | PF50 | M3          | 26          | 1.60 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-27                                                                                                              | PF50   | PF50 | M3          | 27          | 1.65 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-28                                                                                                              | PF50   | PF50 | M3          | 28          | 1.70 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-29                                                                                                              | PF50   | PF50 | M3          | 29          | 1.75 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-30                                                                                                              | PF50   | PF50 | M3          | 30          | 1.80 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-31                                                                                                              | PF50   | PF50 | M3          | 31          | 1.85 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-32                                                                                                              | PF50   | PF50 | M3          | 32          | 1.90 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-33                                                                                                              | PF50   | PF50 | M3          | 33          | 1.95 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-34                                                                                                              | PF50   | PF50 | M3          | 34          | 2.00 | 0.01 | 0.5                    | 0.5 | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
|                                                                                                                      |        |      |             |             | 0    | 0.00 | 0                      | 0   | 5.40 | 15.5 | 0.55 | 0    | 0.00                   |
| PF50-35                                                                                                              | PF50   | PF50 | M3          |             |      |      |                        |     |      |      |      |      |                        |



The following table provides the results of the regression analysis, which is based on the following equation:

[illegible]



### Product Model Breakdown

REC - M1 - 10

Product Code

### Three-Code

## Summary



<sup>10</sup>See *Belknap v. Commonwealth*, 1998 WL 10000 (Ky., 1998).

[illegible]

<sup>10</sup> See Hoffmann, *supra* note 6, at 87; see also Hoffmann, *supra* note 9, at 103.

[illegible]

### Product Model Breakdown

PFC3P - HQ - 000



Product Code

Thread  
Code

**LOWE**  
**Lowell**

[illegible][illegible]



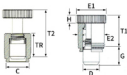






## Product Model Breakdown

|              |   |                  |   |                |
|--------------|---|------------------|---|----------------|
| PTL2         | - | 04               | - | 4              |
| ↓            |   | ↓                |   | ↓              |
| Product Code |   | Plunger Diameter |   | Plunger Length |



| The following dimensions are measured for reference only, subject to technical updates and error. |              |                |                       |              |      |      |                       |
|---------------------------------------------------------------------------------------------------|--------------|----------------|-----------------------|--------------|------|------|-----------------------|
| Part No.                                                                                          | Model Number | Plunger Length | Maximum Hole Diameter | Maximum Hole | C    | D    | E1                    |
|                                                                                                   | PTL2         | 04             | 4                     | 1.53         | 8.33 | 8.31 | 8.35                  |
|                                                                                                   |              |                |                       |              |      |      |                       |
| Part No.                                                                                          | Model Number | Plunger Length | Maximum Hole Diameter | Maximum Hole | T2   | TR   | Maximum Hole Diameter |
|                                                                                                   | PTL2         | 04             | 4                     | 1.53         | 8.33 | 8.31 | 8.35                  |
|                                                                                                   |              |                |                       |              |      |      |                       |

| The following data are nominal dimensions for reference only, subject to technical updates and error. |                   |                   |                          |                 |      |      |                          |
|-------------------------------------------------------------------------------------------------------|-------------------|-------------------|--------------------------|-----------------|------|------|--------------------------|
| Part No.                                                                                              | Plunger<br>Number | Plunger<br>Length | Maximum<br>Hole Diameter | Maximum<br>Hole | C    | D    | E1                       |
|                                                                                                       | PTL2              | 04                | 4                        | 1.53            | 8.33 | 8.31 | 8.35                     |
|                                                                                                       |                   |                   |                          |                 |      |      |                          |
| Part No.                                                                                              | Plunger<br>Number | Plunger<br>Length | Maximum<br>Hole Diameter | Maximum<br>Hole | T2   | TR   | Maximum<br>Hole Diameter |
|                                                                                                       | PTL2              | 04                | 4                        | 1.53            | 8.33 | 8.31 | 8.35                     |
|                                                                                                       |                   |                   |                          |                 |      |      |                          |



## Product Model Breakdown

|              |   |                  |   |                |
|--------------|---|------------------|---|----------------|
| PT           | - | 56               | - | 61             |
| ↓            |   | ↓                |   | ↓              |
| Product Code |   | Plunger Diameter |   | Plunger Length |



The following tables are merely illustrative of dimensions and subject to actual product specifications.

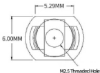
| Part | Model No. |      | Plunger Diameter | Plunger Length | Plunger Pin Diameter | Plunger Pin Length | Pin  | Pin  | Pin  | Pin  | Pin | Pin  |
|------|-----------|------|------------------|----------------|----------------------|--------------------|------|------|------|------|-----|------|
|      | Part      | Part |                  |                |                      |                    |      |      |      |      |     |      |
| PT   | PT5       | PT5  | 56               | 61             | 1.50                 | 6.00               | 6.00 | 6.00 | 11.5 | 10.5 | 6.5 | 20.5 |

The following tables are merely illustrative of dimensions and subject to actual product specifications.

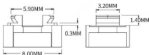
| Part | Model No. |      | Plunger Diameter | Plunger Length | Plunger Pin Diameter | Plunger Pin Length | Pin   | Pin   | Pin  | Pin  | Pin | Pin  |
|------|-----------|------|------------------|----------------|----------------------|--------------------|-------|-------|------|------|-----|------|
|      | Part      | Part |                  |                |                      |                    |       |       |      |      |     |      |
| PT   | PT5       | PT5  | 56               | 61             | 1.500                | 6.000              | 6.000 | 6.000 | 11.5 | 10.5 | 6.5 | 20.5 |



M2.5\*11 captive screw,  
stainless steel / copper  
cap, cabinet thumb screw



M2.5X11

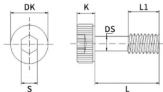




## Product Model Breakdown

DIN912 - M3 - 10

↓                      ↓                      ↓  
 Product      Thread      Length  
 Code          Code



The following tables provide approximate dimensions for standard sizes and materials.

| Standard Size (mm) | Material | DS  | DK    | K     | L1   | S   | Approx. Weight (g) |
|--------------------|----------|-----|-------|-------|------|-----|--------------------|
| M3*0.4             | M3       | 1.5 | 3.62  | 3.98  | 1.86 | 2   | 1.5                |
| M3.5*0.45          | M3.5     | 1.6 | 4.33  | 4.68  | 2.36 | 2.5 | 2                  |
| M3*0.5             | M3       | 2.2 | 5.32  | 5.68  | 2.88 | 3   | 2.5                |
| M4*0.7             | M4       | 3   | 6.78  | 7.33  | 3.82 | 4   | 3                  |
| M5*0.8             | M5       | 3.9 | 8.28  | 8.72  | 4.82 | 5   | 4                  |
| M6*1               | M6       | 4.5 | 9.78  | 10.2  | 5.7  | 6   | 5                  |
| M8*1.25            | M8       | 6.3 | 12.72 | 13.27 | 7.64 | 8   | 6                  |
| M10*1.5            | M10      | 7.6 | 15.73 | 16.27 | 9.64 | 10  | 8                  |

### Product Model Breakdown

|         |   |        |   |        |
|---------|---|--------|---|--------|
| CLS     | - | M2     | - | 1      |
| ↓       |   | ↓      |   | ↓      |
| Product |   | Thread |   | Bottom |
| Code    |   | Code   |   | Code   |



We have a large stock of materials including 304/316 stainless steel, galvanized carbon steel, plain carbon steel, nickel-plated iron, stainless iron, 6061 aluminum, H90 brass and Imperial series.



| The following tables display the monthly financial data for each of the 12 months ended 31st Dec 2018 |               |                            |                     |              |                  |                  |                   |           |                 |                   |                 |
|-------------------------------------------------------------------------------------------------------|---------------|----------------------------|---------------------|--------------|------------------|------------------|-------------------|-----------|-----------------|-------------------|-----------------|
| Product Name / Item                                                                                   | Product Brand | Product Description (Item) |                     | Product Code | Unit Price (GBP) | Quantity (Units) | Total Price (GBP) | Tax (GBP) | Net Price (GBP) | Gross Price (GBP) | Net Weight (kg) |
|                                                                                                       |               | Product Name               | Product Description |              |                  |                  |                   |           |                 |                   |                 |
| Product A                                                                                             | A             | A1                         | A1 Description      | A001         | 10.00            | 1                | 10.00             | 1.00      | 9.00            | 10.00             | 1.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 20.00             | 2.00      | 18.00           | 20.00             | 2.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
| Product A (Alt)                                                                                       | A             | A1                         | A1 Description      | A001-Alt     | 10.00            | 1                | 10.00             | 1.00      | 9.00            | 10.00             | 1.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 20.00             | 2.00      | 18.00           | 20.00             | 2.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
| Product B                                                                                             | B             | B1                         | B1 Description      | B001         | 15.00            | 1                | 15.00             | 1.50      | 13.50           | 15.00             | 1.5             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 45.00             | 4.50      | 40.50           | 45.00             | 4.5             |
| Product B (Alt)                                                                                       | B             | B1                         | B1 Description      | B001-Alt     | 15.00            | 1                | 15.00             | 1.50      | 13.50           | 15.00             | 1.5             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 45.00             | 4.50      | 40.50           | 45.00             | 4.5             |
| Product C                                                                                             | C             | C1                         | C1 Description      | C001         | 20.00            | 1                | 20.00             | 2.00      | 18.00           | 20.00             | 2.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 40.00             | 4.00      | 36.00           | 40.00             | 4.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 60.00             | 6.00      | 54.00           | 60.00             | 6.0             |
| Product C (Alt)                                                                                       | C             | C1                         | C1 Description      | C001-Alt     | 20.00            | 1                | 20.00             | 2.00      | 18.00           | 20.00             | 2.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 40.00             | 4.00      | 36.00           | 40.00             | 4.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 60.00             | 6.00      | 54.00           | 60.00             | 6.0             |
| Product D                                                                                             | D             | D1                         | D1 Description      | D001         | 25.00            | 1                | 25.00             | 2.50      | 22.50           | 25.00             | 2.5             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 50.00             | 5.00      | 45.00           | 50.00             | 5.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 75.00             | 7.50      | 67.50           | 75.00             | 7.5             |
| Product D (Alt)                                                                                       | D             | D1                         | D1 Description      | D001-Alt     | 25.00            | 1                | 25.00             | 2.50      | 22.50           | 25.00             | 2.5             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 50.00             | 5.00      | 45.00           | 50.00             | 5.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 75.00             | 7.50      | 67.50           | 75.00             | 7.5             |
| Product E                                                                                             | E             | E1                         | E1 Description      | E001         | 30.00            | 1                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 60.00             | 6.00      | 54.00           | 60.00             | 6.0             |
|                                                                                                       |               |                            |                     |              |                  | 3                | 90.00             | 9.00      | 81.00           | 90.00             | 9.0             |
| Product E (Alt)                                                                                       | E             | E1                         | E1 Description      | E001-Alt     | 30.00            | 1                | 30.00             | 3.00      | 27.00           | 30.00             | 3.0             |
|                                                                                                       |               |                            |                     |              |                  | 2                | 60.00             | 6.00      | 54.00           | 60.00             |                 |





## Product Model Breakdown

|              |   |             |   |             |   |                |
|--------------|---|-------------|---|-------------|---|----------------|
| PF51         | - | M3          | - | 1           | - | BL             |
| ↓            |   | ↓           |   | ↓           |   | ↓              |
| Product Code |   | Thread Code |   | Bottom Code |   | T Value Length |



Standard Self-Clinching Nut Dimensions, only T-value modified, available in Stainless Steel and Zinc-Plated Carbon Steel materials

| The following tables manually measured for reference only, subject to formal product test only |             |           |             |                        |      |           |         |         |                             |
|------------------------------------------------------------------------------------------------|-------------|-----------|-------------|------------------------|------|-----------|---------|---------|-----------------------------|
| Thread Size / Grade                                                                            | Bottom Code | Part Code | Max. Height | Height of "Top" Flange | A    | T         | ±0.15mm | ±0.25mm | Max. Height of "Top" Flange |
|                                                                                                |             |           |             |                        |      |           | C       | E       |                             |
| M3x0.5                                                                                         | B3          | 1         | 6.35        | 1                      | 0.97 | max<br>mm | 4.22    | 6.1     | 4.8                         |
|                                                                                                |             | 2         |             | 1.4                    | 1.38 |           |         |         |                             |
| M4x0.7                                                                                         | B3          | 1         | 6.4         | 1                      | 0.97 |           | 6.38    | 7.9     | 6.9                         |
|                                                                                                |             | 2         |             | 1.4                    | 1.38 |           |         |         |                             |
| M5x0.8                                                                                         | B3          | 1         | 6.4         | 1                      | 0.97 |           | 6.38    | 8.7     | 7.1                         |
|                                                                                                |             | 2         |             | 1.4                    | 1.38 |           |         |         |                             |

### Product Model Breakdown

|         |   |        |   |        |
|---------|---|--------|---|--------|
| FS      | - | M2     | - | 1      |
| ↓       |   | ↓      |   | ↓      |
| Product |   | Thread |   | Bottom |
| Code    |   | Code   |   | Code   |

[illegible][illegible]



## Product Model Breakdown

**ZS**     -     **M3**     -     **1**  
 ↓            ↓            ↓  
**Product**   **Thread**   **Bottom**  
**Code**       **Code**       **Code**



The following table is a preliminary dimensional reference subject to final product specifications.

| Thread Size (Pitch) | Metric |        | Thread Code | Bottom Code | A, B, C |                          |                          | Flange Code | C   |          |          | T |
|---------------------|--------|--------|-------------|-------------|---------|--------------------------|--------------------------|-------------|-----|----------|----------|---|
|                     | Flange | Height |             |             | A, B, C | Minimum Flange Thickness | Minimum Flange Thickness |             | Max | 1.5, 2.5 | 1.5, 2.5 |   |
| M3x0.5              | 2      | 20     | 40          | 1           | 1       | 1                        | 5                        | 6, 8, 10    | 7   | 1        | 1        | 3 |
| M3x0.7              | 2      | 20     | 40          | 1, 2        | 1, 2    | 1, 2                     | 5                        | 6, 8, 10    | 8   | 4        | 4        | 4 |
| M3x1                | 2      | 20     | 40          | 1, 5        | 1, 5    | 1, 5                     | 5                        | 7, 8, 10    | 10  | 5        | 5        | 5 |
| M3x1.25             | 2      | 20     | 40          | 2           | 2       | 2                        | 5                        | 8, 10       | 11  | 6        | 6        | 6 |
| M3x1.5              | 2      | 20     | 40          | 2, 5        | 2, 5    | 2, 5                     | 11                       | 10, 10      | 12  | 6        | 6        | 6 |
| M3x1.75             | 2      | 20     | 40          | 3           | 3       | 3                        | 14                       | 12, 8       | 10  | 6        | 6        | 6 |

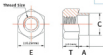
The following table is a preliminary dimensional reference subject to final product specifications.

| Thread Size (Pitch) | Metric |        | Thread Code | Bottom Code | A, B, C |                          |                          | Flange Code | C     |          |          | T  |
|---------------------|--------|--------|-------------|-------------|---------|--------------------------|--------------------------|-------------|-------|----------|----------|----|
|                     | Flange | Height |             |             | A, B, C | Minimum Flange Thickness | Minimum Flange Thickness |             | Max   | 1.5, 2.5 | 1.5, 2.5 |    |
| M3x0.5              | 28     | 280    | 40          | 1, 5        | 1, 5    | 1, 5                     | 5                        | 8, 10       | 8     | 1        | 1        | 3  |
| M3x0.7              | 28     | 280    | 40          | 2           | 2       | 2                        | 5                        | 6, 8        | 7     | 4        | 4        | 4  |
| M3x1                | 28     | 280    | 40          | 3           | 3       | 3                        | 5                        | 7, 8, 10    | 9     | 5        | 5        | 5  |
| M3x1.25             | 28     | 280    | 40          | 4           | 4       | 4                        | 5                        | 8, 10       | 10    | 6        | 6        | 6  |
| M3x1.5              | 28     | 280    | 40          | 5           | 5       | 5                        | 5                        | 10, 10      | 12, 7 | 6        | 6        | 6  |
| M3x1.75             | 28     | 280    | 40          | 6           | 6       | 6                        | 5                        | 12, 8       | 10    | 6        | 6        | 6  |
| M3x2                | 28     | 280    | 40          | 7           | 7       | 7                        | 5                        | 14, 8       | 12    | 10       | 10       | 10 |
| M3x2.5              | 28     | 280    | 40          | 8           | 8       | 8                        | 5                        | 16, 8       | 14    | 12       | 12       | 12 |



## Product Model Breakdown

NZS - M3 - 1  
 ↓       ↓       ↓  
 Product Thread Bottom  
 Code    Code    Code



The following tables provide nominal dimensions in inches and millimeters (in parentheses).

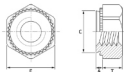
| Product Code | Size<br>1/2-20 | Size<br>1/2-28 | Thread Size | Hexagon Side<br>inches | A<br>inches | Thread Length<br>inches | Height<br>inches | C<br>inches | E<br>inches | F<br>inches |
|--------------|----------------|----------------|-------------|------------------------|-------------|-------------------------|------------------|-------------|-------------|-------------|
| 9040, 5      | 52             | 525            | 83          | 1.5<br>3               | 1.5<br>3    | 1.5<br>3                | 3                | 4.99        | 6           | 3           |
| 9040, 7      | 52             | 525            | 84          | 1.5<br>3               | 1.5<br>3    | 1.5<br>3                | 4                | 5.99        | 7           | 4           |
| 9040, 9      | 52             | 525            | 85          | 2<br>3                 | 2<br>3      | 2<br>3                  | 5                | 7.99        | 9           | 5           |
| 9041         | 52             | 525            | 86          | 2<br>3                 | 2<br>3      | 2<br>3                  | 6                | 8.99        | 10          | 6           |
| 9040, 11     | 52             | 525            | 89          | 3<br>6                 | 3<br>6      | 3<br>6                  | 11               | 14.99       | 12.7        | 6           |
| 9040, 13     | 52             | 525            | 90          | 3<br>6                 | 3<br>6      | 3<br>6                  | 14               | 17.99       | 16          | 7           |
| 9040, 15     | 52             | 525            | 91          | 3<br>6                 | 3<br>6      | 3<br>6                  | 16               | 19.99       | 17/16       | 8.5         |



## Product Model Breakdown

BOES - MJ - 1

↓                      ↓                      ↓  
 Product      Thread      Size  
 Code            Code            Code



The following table is manually measured for reference only, subject to the actual product, with the

| Product Code | Series  | Model   | Material | Threads | Q    | Q    | Thread | Height | C   | E    | T    | Outer |
|--------------|---------|---------|----------|---------|------|------|--------|--------|-----|------|------|-------|
|              |         |         |          |         | (mm) | (mm) | (mm)   | (mm)   | mm  | (mm) | (mm) | mm    |
| BOES-1       | BO-1000 | BO-1000 | 100      | M1      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M2      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M3      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
| BOES-2       | BO-1000 | BO-1000 | 100      | M1      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M2      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M3      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
| BOES-3       | BO-1000 | BO-1000 | 100      | M1      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M2      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M3      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
| BOES-4       | BO-1000 | BO-1000 | 100      | M1      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M2      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M3      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
| BOES-5       | BO-1000 | BO-1000 | 100      | M1      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M2      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |
|              |         |         |          | M3      | 1.0  | 1.0  | 1.0    | 1.0    | 4.0 | 4.0  | 0    | 4.0   |



## Product Model Breakdown

BN     -     MJ     -     1  
   ↓        ↓        ↓  
 Product Thread Bottom  
 Code    Code    Code



The following tables contain technical information and drawings subject to the stated product code size.

| Metric | Thread<br>Metric / Size | Material | Thread<br>Code | Bottom<br>Code | Hexagon<br>Base<br>Preference | Hexagon<br>Base | A (mm) | MIN. L<br>(mm) | MIN. B<br>(mm) | MIN. T<br>(mm) | Hexagon<br>Base<br>Preference<br>Metric / Size |
|--------|-------------------------|----------|----------------|----------------|-------------------------------|-----------------|--------|----------------|----------------|----------------|------------------------------------------------|
|        |                         |          |                |                |                               |                 |        |                |                |                |                                                |
|        | M5x0.5                  | SS       | M5             | 1              | 1                             | 4.5             | 4.5    | 4.2            | 5.5            | 3.1            | 5.5                                            |
|        |                         |          |                | 2              | 2                             |                 | 5.5    |                |                | 3.2            |                                                |
|        | M6x0.5                  | SS       | M6             | 1              | 1                             | 6.5             | 6.5    | 6.2            | 7              | 3.1            | 7                                              |
|        |                         |          |                | 2              | 2                             |                 | 7.5    |                |                | 3.2            |                                                |
|        | M8x0.5                  | SS       | M8             | 1              | 1                             | 8.5             | 8.5    | 8.15           | 9              | 3.1            | 9                                              |
|        |                         |          |                | 2              | 2                             |                 | 9.5    |                |                | 3.2            |                                                |
|        | M10x0.5                 | SS       | M10            | 1              | 1                             | 10              | 10.5   | 10.15          | 10             | 3.1            | 10.5                                           |
|        |                         |          |                | 2              | 2                             |                 | 11.5   |                |                | 3.2            |                                                |
|        | M12x0.5                 | SS       | M12            | 1              | 1                             | 12              | 12.5   | 12.15          | 12             | 3.1            | 12.5                                           |
|        |                         |          |                | 2              | 2                             |                 | 13.5   |                |                | 3.2            |                                                |
|        | M16x0.5                 | SS       | M16            | 1              | 1                             | 16              | 16.5   | 16.15          | 16             | 3.1            | 16.5                                           |
|        |                         |          |                | 2              | 2                             |                 | 17.5   |                |                | 3.2            |                                                |

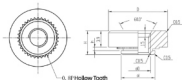






## Product Model Breakdown

CNS - M4 - 1  
 ↓        ↓        ↓  
 Product Thread Bottom  
 Code    Code    Code



The following data are only for reference. Please refer to the actual product for details.

|    | Model          | Thread Specification | Φ    | d     | h    | h <sub>1</sub> | Applicable Plate Thickness | Plate Hole Diameter |
|----|----------------|----------------------|------|-------|------|----------------|----------------------------|---------------------|
|    | Reverse Thread | d3                   | ±0.1 | ±0.05 | ±0.1 | ±0.05          |                            | ±0.05               |
| mm | CNS-M4-1       | M4                   | 10   | 6.92  | 6    | 0.85           | 1.0-1.5                    | 7                   |
|    | CNS-M5-1       | M5                   | 12   | 7.93  | 6    | 0.85           | 1.0-1.5                    | 8                   |
|    | CNS-M6-3       | M6                   | 14   | 8     | 5.7  | 0.8            | 1.0-1.5                    | 8                   |
|    | CNS-M6-1       | M6                   | 14   | 8.93  | 6    | 0.85           | 1.0-1.5                    | 9                   |
|    | CNS-M8-2       | M8                   | 14   | 8.93  | 6    | 1.1            | 1.0-2.5                    | 9                   |
|    | CNS-M8-1       | M8                   | 16   | 10.93 | 6    | 0.85           | 1.0-1.5                    | 11                  |







## Product Model Breakdown

KFS2 - M3



Product Code    Thread Code



The following table is merely for reference. When using, please refer to the actual product size.

| Model | Nominal Size | D    |      |      | C     | E     | T     | Inner Diameter of Mounting Hole (mm) |
|-------|--------------|------|------|------|-------|-------|-------|--------------------------------------|
|       |              | mm   | mm   | mm   |       |       |       |                                      |
| KFS2  | M3           | 1.53 | 1.53 | 0.08 | ±0.08 | ±0.13 | ±0.13 | mm                                   |
|       | M3.5         | 1.53 | 1.53 | 0.13 | ±0.08 | ±0.13 | ±0.13 | 4.2                                  |
|       | M4           | 1.53 | 1.53 | 0.13 | ±0.08 | ±0.13 | ±0.13 | 4.4                                  |
|       | M4.5         | 1.53 | 1.53 | 0.13 | ±0.08 | ±0.13 | ±0.13 | 4.4                                  |
|       | M5           | 1.53 | 1.53 | 0.13 | ±0.08 | ±0.13 | ±0.13 | 4.4                                  |



## Product Model Breakdown

LKS - M3 - 1

↓                      ↓                      ↓  
Product      Thread      Bottom  
Code        Code        Code



The following table lists the standard dimensions of the self-clinching self-locking nut.

|    | Model       |              | Thread<br>Size/Type | Thread<br>Type | Locking<br>Type | A  |       | Mounting<br>Hole Size | C    | D    | E    | F    | G    | H   |
|----|-------------|--------------|---------------------|----------------|-----------------|----|-------|-----------------------|------|------|------|------|------|-----|
|    | Top<br>View | Side<br>View |                     |                |                 | mm | inch  | mm                    | mm   | mm   | mm   | mm   | mm   | mm  |
| M3 | LK          | LKS          | M3                  | ISO 1483-02    | ISO 1483        | 1  | 0.039 | 1                     | 4.37 | 4.35 | 4.40 | 4.30 | 3.40 | 1.9 |
|    |             |              |                     |                |                 | 2  | 0.078 | 1-4                   |      |      |      |      |      |     |
|    |             |              |                     |                |                 | 3  | 0.118 | 1                     | 4.75 | 4.70 | 4.80 | 4.60 | 3.40 | 1   |
|    |             |              |                     |                |                 | 4  | 0.157 | 1-4                   |      |      |      |      |      |     |
|    |             |              |                     |                |                 | 5  | 0.197 | 1                     | 5.20 | 5.10 | 5.2  | 5.10 | 4.40 | 1.2 |
|    |             |              |                     |                |                 | 6  | 0.236 | 1-4                   |      |      |      |      |      |     |
| M4 | LK          | LKS          | M4                  | ISO 1483-02    | ISO 1483        | 1  | 0.039 | 1                     | 5.30 | 5.2  | 5.30 | 5.20 | 4.20 | 1.9 |
|    |             |              |                     |                |                 | 2  | 0.078 | 1-4                   |      |      |      |      |      |     |
|    |             |              |                     |                |                 | 3  | 0.118 | 1                     | 5.70 | 5.6  | 5.70 | 5.60 | 4.20 | 1.2 |
|    |             |              |                     |                |                 | 4  | 0.157 | 1                     | 6.10 | 6.0  | 6.10 | 6.00 | 4.20 | 1.2 |
|    |             |              |                     |                |                 | 5  | 0.197 | 1                     | 6.50 | 6.4  | 6.50 | 6.40 | 4.20 | 1.2 |
|    |             |              |                     |                |                 | 6  | 0.236 | 1-4                   |      |      |      |      |      |     |

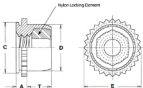
The following table lists the standard dimensions of the self-clinching self-locking nut.

|    | Model       |              | Thread<br>Size/Type | Thread<br>Type | Locking<br>Type | A  |       | Mounting<br>Hole Size | C     | D    | E     | F     | G    | H   |
|----|-------------|--------------|---------------------|----------------|-----------------|----|-------|-----------------------|-------|------|-------|-------|------|-----|
|    | Top<br>View | Side<br>View |                     |                |                 | mm | inch  | mm                    | mm    | mm   | mm    | mm    | mm   | mm  |
| M5 | LK          | LKS          | M5                  | ISO 1483-02    | ISO 1483        | 1  | 0.039 | 1                     | 6.30  | 6.2  | 6.30  | 6.20  | 5.20 | 1.9 |
|    |             |              |                     |                |                 | 2  | 0.078 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 3  | 0.118 | 1                     | 6.70  | 6.6  | 6.70  | 6.60  | 5.20 | 1.2 |
|    |             |              |                     |                |                 | 4  | 0.157 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 5  | 0.197 | 1                     | 7.10  | 7.0  | 7.10  | 7.00  | 5.20 | 1.2 |
|    |             |              |                     |                |                 | 6  | 0.236 | 1-4                   |       |      |       |       |      |     |
| M6 | LK          | LKS          | M6                  | ISO 1483-02    | ISO 1483        | 1  | 0.039 | 1                     | 7.30  | 7.2  | 7.30  | 7.20  | 6.20 | 1.9 |
|    |             |              |                     |                |                 | 2  | 0.078 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 3  | 0.118 | 1                     | 7.70  | 7.6  | 7.70  | 7.60  | 6.20 | 1.2 |
|    |             |              |                     |                |                 | 4  | 0.157 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 5  | 0.197 | 1                     | 8.10  | 8.0  | 8.10  | 8.00  | 6.20 | 1.2 |
|    |             |              |                     |                |                 | 6  | 0.236 | 1-4                   |       |      |       |       |      |     |
| M8 | LK          | LKS          | M8                  | ISO 1483-02    | ISO 1483        | 1  | 0.039 | 1                     | 9.30  | 9.2  | 9.30  | 9.20  | 7.20 | 1.9 |
|    |             |              |                     |                |                 | 2  | 0.078 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 3  | 0.118 | 1                     | 9.70  | 9.6  | 9.70  | 9.60  | 7.20 | 1.2 |
|    |             |              |                     |                |                 | 4  | 0.157 | 1-4                   |       |      |       |       |      |     |
|    |             |              |                     |                |                 | 5  | 0.197 | 1                     | 10.10 | 10.0 | 10.10 | 10.00 | 7.20 | 1.2 |
|    |             |              |                     |                |                 | 6  | 0.236 | 1-4                   |       |      |       |       |      |     |



## Product Model Breakdown

PLC - M3  
 ↓ ↓  
 Product Thread  
 Code Code



For locking nuts are mainly based on the reference only, subject to the actual product and size.

| Standard Item | Model |          | Thread Code | A<br>mm | Hex Flats<br>mm | Hex Flats<br>R, mm | C<br>mm | D<br>mm | E<br>mm | T<br>mm | HDL<br>mm | max. or<br>Recommended |
|---------------|-------|----------|-------------|---------|-----------------|--------------------|---------|---------|---------|---------|-----------|------------------------|
|               | Size  | Material |             |         |                 |                    |         |         |         |         |           |                        |
| M3-M6         | PL    | PLC      | M3          | 1.52    | 3.3~1.78        | 6                  | 5.97    | 5.5     | 7.1     | 5.6     | 4.5       | 3.5                    |
| M6-M8         | PL    | PLC      | M4          | 1.52    | 3.3~1.78        | 7.5                | 7.47    | 7       | 8.6     | 6.2     | 5.6       | 4.5                    |
| M8-M10        | PL    | PLC      | M5          | 1.52    | 3.3~1.78        | 8                  | 7.97    | 7.5     | 8.6     | 6.5     | 6.4       | 5.5                    |

For locking nuts are mainly based on the reference only, subject to the actual product and size.

| Standard Item        | Model |          | Thread Code | A<br>mm | Hex Flats<br>mm | Hex Flats<br>R, mm | C<br>mm | D<br>mm | E<br>mm | T<br>mm | HDL<br>mm | max. or<br>Recommended |
|----------------------|-------|----------|-------------|---------|-----------------|--------------------|---------|---------|---------|---------|-----------|------------------------|
|                      | Size  | Material |             |         |                 |                    |         |         |         |         |           |                        |
| M10-M12<br>(M10-M12) | PL    | PLC      | M10         | 1.68    | 10.8~10.75      | 124                | 123     | 114     | 121     | 120     | 117       | 110                    |
| M12-M14<br>(M12-M14) | PL    | PLC      | M12         | 1.68    | 10.8~10.75      | 166                | 164     | 146     | 151     | 150     | 149       | 140                    |
| M14-M16<br>(M14-M16) | PL    | PLC      | M14         | 1.68    | 10.8~10.75      | 197                | 194     | 179     | 181     | 180     | 177       | 166                    |
| M16-M18<br>(M16-M18) | PL    | PLC      | M16         | 1.68    | 10.8~10.75      | 212                | 211     | 201     | 201     | 200     | 199       | 188                    |

### Product Model Breakdown

|         |   |        |   |        |
|---------|---|--------|---|--------|
| SL      | - | M3     | - | 1      |
| ↓       |   | ↓      |   | ↓      |
| Product |   | Thread |   | Bottom |
| Code    |   | Code   |   | Code   |



There is a need for a more comprehensive and integrated approach to the management of the environment, one that takes into account the complex interactions between the natural and human-made systems. This requires a shift from a traditional, sectoral approach to a more holistic, systems-based approach. The challenge is to develop policies and programs that are both effective and equitable, and that take into account the needs of all stakeholders. This requires a high degree of collaboration and coordination among different sectors and levels of government. The ultimate goal is to create a sustainable future for all, one that is based on the principles of justice, equity, and respect for the environment.

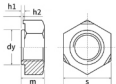
| Product Category | Model | Version/Date | Initial Performance |          | Post-Update Performance |          | Stability  |            | User Feedback |          |
|------------------|-------|--------------|---------------------|----------|-------------------------|----------|------------|------------|---------------|----------|
|                  |       |              | Score               | Time (s) | Score                   | Time (s) | Crash Rate | Uptime (%) | Rating        | Comments |
| Gaming, G        | G10   | G10.1        | 1                   | 12.500   | 1                       | 11.800   | 0.05       | 99.95      | 4.5           | 1.2      |
|                  |       |              | 2                   | 13.200   | 2                       | 12.500   | 0.02       | 99.98      | 4.8           | 0.8      |
| Office, O        | O10   | O10.1        | 1                   | 15.000   | 1                       | 14.500   | 0.03       | 99.97      | 4.2           | 1.5      |
|                  |       |              | 2                   | 15.800   | 2                       | 15.200   | 0.01       | 99.99      | 4.6           | 1.0      |
| Education, E     | E10   | E10.1        | 1                   | 10.000   | 1                       | 9.800    | 0.04       | 99.96      | 4.0           | 1.8      |
|                  |       |              | 2                   | 10.500   | 2                       | 10.200   | 0.02       | 99.98      | 4.3           | 1.2      |
| Medical, M       | M10   | M10.1        | 1                   | 18.000   | 1                       | 17.500   | 0.01       | 99.99      | 4.9           | 0.5      |
|                  |       |              | 2                   | 18.500   | 2                       | 18.200   | 0.00       | 99.99      | 5.0           | 0.3      |
| Industrial, I    | I10   | I10.1        | 1                   | 20.000   | 1                       | 19.500   | 0.00       | 99.99      | 5.0           | 0.2      |
|                  |       |              | 2                   | 20.500   | 2                       | 20.200   | 0.00       | 99.99      | 5.0           | 0.1      |
| Scientific, S    | S10   | S10.1        | 1                   | 25.000   | 1                       | 24.500   | 0.00       | 99.99      | 5.0           | 0.1      |
|                  |       |              | 2                   | 25.500   | 2                       | 25.200   | 0.00       | 99.99      | 5.0           | 0.1      |

\*Note: All monetary values are current as of the corresponding calendar year as of the date of publication. Values are in U.S. dollars.

| Model<br>Year (Year)   | Model | Power (kW) | Torque (Nm) | 0-100<br>Time (s) |      | 0-60<br>Time (s) |      | Top<br>Speed (km/h) | Fuel<br>Consumption (l/100km) |
|------------------------|-------|------------|-------------|-------------------|------|------------------|------|---------------------|-------------------------------|
|                        |       |            |             | 0-100             | 0-60 | 0-100            | 0-60 |                     |                               |
| 1.0-1.6<br>(1990-1995) | 1.0   | 45kW       | 1           | 11.5              | 10.5 | 150              | 100  | 1000                | 5.5                           |
|                        | 1.6   | 65kW       | 2           | 10.5              | 9.5  | 160              | 110  | 1000                | 6.5                           |
| 1.8-2.0<br>(1995-1998) | 1.8   | 85kW       | 3           | 9.5               | 8.5  | 170              | 120  | 1000                | 6.5                           |
|                        | 2.0   | 105kW      | 4           | 8.5               | 7.5  | 180              | 130  | 1000                | 7.5                           |
| 2.4-3.0<br>(1998-2001) | 2.4   | 125kW      | 5           | 7.5               | 6.5  | 190              | 140  | 1000                | 8.5                           |
|                        | 3.0   | 155kW      | 6           | 6.5               | 5.5  | 200              | 150  | 1000                | 9.5                           |
| 3.6-4.0<br>(2001-2004) | 3.6   | 185kW      | 7           | 5.5               | 4.5  | 210              | 160  | 1000                | 10.5                          |
|                        | 4.0   | 215kW      | 8           | 4.5               | 3.5  | 220              | 170  | 1000                | 11.5                          |



Available in plain carbon steel and 304 stainless steel, with both spot-welded and non-spot-welded versions.



The following table is normally measured for reference only, subject to the usual limits in each area.

| Thread Code | P    | h1   |        | h2   |        | m     |      | s    | dy   | Approx. Wt.<br>(mm x 1000 gms) |
|-------------|------|------|--------|------|--------|-------|------|------|------|--------------------------------|
|             |      | Max  | Min    | Max  | Min    | -0.25 | ±0.1 |      |      |                                |
| M3          | 0.5  | 0.55 | 0-0.1  | 0.25 | 0-0.1  | 3     | 7.5  | 4.5  | 0.78 |                                |
| M4          | 0.7  | 0.65 | 0-0.1  | 0.35 | 0-0.1  | 3.5   | 9    | 6    | 1.13 |                                |
| M5          | 0.8  | 0.7  | 0-0.1  | 0.4  | 0-0.1  | 4     | 10   | 7    | 1.73 |                                |
| M6          | 1    | 0.75 | 0-0.15 | 0.4  | 0-0.1  | 5     | 11   | 8    | 2.5  |                                |
| M8          | 1.25 | 0.9  | 0-0.15 | 0.5  | 0-0.15 | 6.5   | 14   | 10.5 | 5.27 |                                |
| M10         | 1.5  | 1.15 | 0-0.15 | 0.65 | 0-0.15 | 8     | 17   | 12.5 | 9.58 |                                |
| M12         | 1.75 | 1.4  | 0-0.2  | 0.8  | 0-0.2  | 10    | 19   | 14.8 | 13.7 |                                |
| M14         | 2    | 1.6  | 0-0.2  | 1    | 0-0.2  | 11    | 22   | 16.8 | 21.3 |                                |
| M16         | 2    | 1.8  | 0-0.2  | 1    | 0-0.2  | 13    | 24   | 18.8 | 28.5 |                                |



## Product Model Breakdown

BSOS - M3 - 6  
 ↓            ↓            ↓  
 Product    Thread    Length  
 Code        Code        Code



Materials including stainless steel, galvanized carbon steel, stainless iron, 6061 aluminum, H52 brass and Imperial series are all available in large stock.

The following data are usually measured for reference only, subject to the actual product size and type.

| Product Code | Model         |               |               |               | Thread Code | Length Code | Maximum Hole Diameter | Hex Height, mm | C     |       | H Base | Maximum Length, mm |
|--------------|---------------|---------------|---------------|---------------|-------------|-------------|-----------------------|----------------|-------|-------|--------|--------------------|
|              | Imperial Size | Imperial Size | Imperial Size | Imperial Size |             |             |                       |                | ±0.13 | ±0.13 |        |                    |
| BSOS         | BSOS-4        |               |               |               | M2          | 6           | 1                     | 4.2            | 4.19  | 4.75  | 8      |                    |
|              | BS-440-4      |               |               |               | M2.5        | 8           | 1                     | 4.2            | 4.19  | 4.75  | 8      |                    |
|              | BSOS-5        |               |               |               | M3          | 10          | 1                     | 4.2            | 4.19  | 4.75  | 8      |                    |
|              | S-18040-5     |               |               |               | S-1803      | 10          | 1                     | 4.4            | 4.38  | 4.75  | 8      | 8                  |
|              | BS-1804-5     |               |               |               | M3.5        | 10          | 1                     | 5.4            | 5.38  | 5.75  | 8      | 8                  |
|              | BSOS-7        | BSOS          | BSOS          | BSOS4         | M4          | 14          | 1.1                   | 5              | 4.98  | 7     | 8      |                    |
|              | S-18040-7     |               |               |               | S-1804      | 14          | 1.1                   | 5.4            | 5.4   | 8     | 8      |                    |
|              | BSOS-9        |               |               |               | M5          | 18          | 1.1                   | 5.5            | 5.48  | 8     | 8      |                    |
|              | BSM-10        |               |               |               | M6          | 20          | 1.1                   | 6.4            | 6.4   | 10    | 10     |                    |
|              | BSM-L-10      |               |               |               | M6          | ...         | 1.1                   | 11             | 10.95 | 12    | 14     |                    |

The following data are usually measured for reference only, subject to the actual product size and type.

| Product Code | Model         |               |               |               | Thread Code | Length Code | Maximum Hole Diameter | Hex Height, mm | C     |       | H Base | Maximum Length, mm |
|--------------|---------------|---------------|---------------|---------------|-------------|-------------|-----------------------|----------------|-------|-------|--------|--------------------|
|              | Imperial Size | Imperial Size | Imperial Size | Imperial Size |             |             |                       |                | ±0.13 | ±0.13 |        |                    |
| BSOS-10      | 1-12-10       |               |               |               | 8-80        | 8           | .040                  | .180           | .180  | .187  | 10     |                    |
|              | 1-84-10       |               |               |               | 8-40        | 8           | .040                  | .113           | .112  | .104  | 10     |                    |
|              | 1-80-10       |               |               |               | 8-32        | 10          | .040                  | .113           | .112  | .104  | 10     |                    |
|              | 1-80-10.1     | BSOS          | BSOS          | BSOS4         | 8-32        | 11          | .040                  | .114           | .112  | .112  | 10     |                    |
|              | 1-84-10.1     |               |               |               | 8-32        | 10          | .040                  | .114           | .112  | .112  | 10     |                    |
|              | 1-80-10.1     |               |               |               | 8-32        | 10          | .040                  | .114           | .112  | .112  | 10     |                    |



## Product Model Breakdown

BSOS - M3 - 7  
 ↓       ↓       ↓  
 Product Thread Length  
 Code    Code    Code



The following table lists the knurled self-clinching studs subject to the standard product code.

| Part | Thread Size / Code | Type     |        | Material | Length Code    | Outer Diameter | Height Code | C    | B      | Min. Length |
|------|--------------------|----------|--------|----------|----------------|----------------|-------------|------|--------|-------------|
|      |                    | Standard | Custom |          |                |                |             |      |        |             |
| BSOS | M3                 | BSOS     | BSOS   | M3       | 40, 55 - 6, 12 | 6.35           | 18, 28      | 8.0  | 9.0    | 10.0        |
|      | M3                 | BSOS     | BSOS   | M3       | 6, 12          | 6.35 - 6, 34   | 4, 7        | 4, 7 | 4, 9.5 | 5, 7        |

The following table lists the knurled self-clinching studs subject to the standard product code.

| Part | Thread Size / Code | Type     |        | Material | Length Code     | Outer Diameter | Height Code     | C   | B   | Min. Length |
|------|--------------------|----------|--------|----------|-----------------|----------------|-----------------|-----|-----|-------------|
|      |                    | Standard | Custom |          |                 |                |                 |     |     |             |
| BSOS | M3                 | BSOS     | BSOS   | M3       | 1, 000 - 1, 005 | 6.35           | 1, 000 - 1, 005 | 8.0 | 9.0 | 10.0        |
|      | M3                 | BSOS     | BSOS   | M3       | 1, 000 - 1, 005 | 6.35 - 6, 34   | 1, 000 - 1, 005 | 8.0 | 9.0 | 10.0        |



## Product Model Breakdown

CSQS - M3 - 6



Product  
Code



Thread  
Code



Length  
Code



Both stainless steel and 6061 aluminum materials are available in large stock.

The following items are in our large inventory and are in stock only. A lead time for custom product code may apply.

| Product Code | Material Code | Thread Code | Length Code | Material Price (each) | Quantity Price | Shipping (each) | Lead Time | A 402 | B 402 | C 402 | D 402 | Minimum Order Quantity |
|--------------|---------------|-------------|-------------|-----------------------|----------------|-----------------|-----------|-------|-------|-------|-------|------------------------|
| CSQS-1       | CSQS          | M3          | 6           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 6           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-2       | CSQS          | M3          | 8           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 8           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-3       | CSQS          | M3          | 10          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 10          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-4       | CSQS          | M3          | 12          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 12          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |

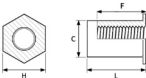
The following items are in our large inventory and are in stock only. A lead time for custom product code may apply.

| Product Code | Material Code | Thread Code | Length Code | Material Price (each) | Quantity Price | Shipping (each) | Lead Time | A 402 | B 402 | C 402 | D 402 | Minimum Order Quantity |
|--------------|---------------|-------------|-------------|-----------------------|----------------|-----------------|-----------|-------|-------|-------|-------|------------------------|
| CSQS-1       | CSQS          | M3          | 6           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 6           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-2       | CSQS          | M3          | 8           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 8           | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-3       | CSQS          | M3          | 10          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 10          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-4       | CSQS          | M3          | 12          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 12          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
| CSQS-5       | CSQS          | M3          | 14          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |
|              | CSQS          | M3          | 14          | 1.40                  | 1.40           | 1.1             | 1         | 1.40  | 1.40  | 1.40  | 1.40  | 1.0                    |



## Product Model Breakdown

TBSO - M3 - 8  
 ↓       ↓       ↓  
 Product Thread Length  
 Code    Code    Code



The following table is divided by thread and for reference only, subject to the actual product specification.

|        | Base Part (mm) | Thread     |            |          | Thread Code | Minimum<br>Thread<br>Extension | Thread Length | C     |      | Minimum<br>Thread<br>Extension |
|--------|----------------|------------|------------|----------|-------------|--------------------------------|---------------|-------|------|--------------------------------|
|        |                | Outer Code | Inner Code | Aluminum |             |                                |               | -0.33 | H    |                                |
| Metric | M3x0.5         | TBSO       | TBSOS      | TBSOM    | M3          | 1                              | 4.2           | 4.19  | 4.75 | 6                              |
|        | 3.5M3x0.5      |            |            |          | 3.5M3       | 1                              | 5.4           | 5.39  | 6.35 | 6.8                            |
|        | M4x0.7         |            |            |          | M4          | 1.5                            | 6             | 5.98  | 7    | 8                              |
|        | 3.5M4x0.7      |            |            |          | 3.5M4       | 1.5                            | 7.2           | 7.15  | 8    | 8                              |
|        | M5x0.8         |            |            |          | M5          | 1.5                            | 7.2           | 7.15  | 8    | 8                              |
|        | M6x1.0         |            |            |          | M6          | 1.5                            | 8.8           | 8.75  | 10   | 10                             |

### Product Model Breakdown

|         |   |        |   |        |
|---------|---|--------|---|--------|
| BS      | - | M3     | - | 1      |
| ↓       |   | ↓      |   | ↓      |
| Product |   | Thread |   | Length |
| Code    |   | Code   |   | Code   |



We have a large stock of materials including 304/316 stainless steel, galvanized carbon steel, stainless iron and mineral series products.

Fig. 1. Schematic diagram of the experimental setup. The subject is seated in a chair and views the screen through a mirror. The screen displays the target and the starting position of the hand. The hand is moved from the starting position to the target position. The distance between the starting position and the target position is the reach distance. The distance between the starting position and the target position is the reach distance.

| Key Performance Indicators (KPIs) for Q3 2023: Overall Performance Summary |                   |             |             |         |            |               |           |            |          |             |           |          |           |
|----------------------------------------------------------------------------|-------------------|-------------|-------------|---------|------------|---------------|-----------|------------|----------|-------------|-----------|----------|-----------|
| Region                                                                     | Product Line/Item | Category    | Subcategory | Brand   | Unit Sales | Revenue (USD) | Profit    | Margin (%) | Q3 Sales | Q3 Profit   | Q3 Margin | Q3 Sales | Q3 Profit |
|                                                                            | Electronics       | Smartphones | Android     | Brand A | 12,500     | \$1,250,000   | \$250,000 | 20%        | 12,000   | \$1,200,000 | 20%       | 12,500   | \$250,000 |
|                                                                            | Electronics       | Smartphones | iOS         | Brand A | 8,750      | \$875,000     | \$175,000 | 20%        | 8,500    | \$850,000   | 20%       | 9,000    | \$180,000 |
|                                                                            | Electronics       | Smartphones | Android     | Brand B | 9,500      | \$950,000     | \$190,000 | 20%        | 9,200    | \$920,000   | 20%       | 9,800    | \$196,000 |
|                                                                            | Electronics       | Smartphones | iOS         | Brand B | 6,250      | \$625,000     | \$125,000 | 20%        | 6,000    | \$600,000   | 20%       | 6,500    | \$130,000 |
|                                                                            | Electronics       | Smartphones | Android     | Brand C | 11,000     | \$1,100,000   | \$220,000 | 20%        | 10,800   | \$1,080,000 | 20%       | 11,200   | \$224,000 |
|                                                                            | Electronics       | Smartphones | iOS         | Brand C | 7,250      | \$725,000     | \$145,000 | 20%        | 7,000    | \$700,000   | 20%       | 7,500    | \$150,000 |
|                                                                            | Electronics       | Smartphones | Android     | Brand D | 10,000     | \$1,000,000   | \$200,000 | 20%        | 9,800    | \$980,000   | 20%       | 10,200   | \$204,000 |

---

| Treatment/Study | Patient Characteristics |            | Primary Outcome (Mean ± SD) | Secondary Outcome (Mean ± SD) | Safety (Adverse Events %) | Quality of Life (Mean ± SD) | Health Economics (Cost ± SD) | Patient Satisfaction (Mean ± SD) | Study Duration (Months) |
|-----------------|-------------------------|------------|-----------------------------|-------------------------------|---------------------------|-----------------------------|------------------------------|----------------------------------|-------------------------|
|                 | Age (Years)             | Gender (%) |                             |                               |                           |                             |                              |                                  |                         |
| Group A (n=50)  | 65 ± 10                 | 70% Male   | 12.5 ± 3.2                  | 15.8 ± 4.1                    | 5.2%                      | 7.8 ± 1.5                   | \$1200 ± 250                 | 8.5 ± 0.8                        | 12                      |
| Group B (n=50)  | 63 ± 12                 | 68% Male   | 11.8 ± 2.9                  | 14.9 ± 3.8                    | 4.8%                      | 7.5 ± 1.4                   | \$1150 ± 240                 | 8.2 ± 0.7                        | 12                      |
| Group C (n=50)  | 64 ± 11                 | 72% Male   | 13.1 ± 3.5                  | 16.2 ± 4.3                    | 5.5%                      | 8.0 ± 1.6                   | \$1250 ± 260                 | 8.7 ± 0.9                        | 12                      |
| Group D (n=50)  | 66 ± 9                  | 75% Male   | 12.9 ± 3.1                  | 16.0 ± 4.0                    | 5.1%                      | 7.9 ± 1.5                   | \$1220 ± 255                 | 8.6 ± 0.8                        | 12                      |
| Group E (n=50)  | 62 ± 13                 | 65% Male   | 11.5 ± 2.8                  | 14.7 ± 3.7                    | 4.5%                      | 7.4 ± 1.4                   | \$1100 ± 230                 | 8.1 ± 0.7                        | 12                      |
| Group F (n=50)  | 67 ± 8                  | 78% Male   | 13.5 ± 3.3                  | 16.5 ± 4.2                    | 5.8%                      | 8.2 ± 1.6                   | \$1300 ± 270                 | 8.9 ± 0.9                        | 12                      |
| Group G (n=50)  | 61 ± 14                 | 62% Male   | 11.2 ± 2.7                  | 14.5 ± 3.6                    | 4.3%                      | 7.3 ± 1.3                   | \$1050 ± 220                 | 8.0 ± 0.6                        | 12                      |
| Group H (n=50)  | 68 ± 7                  | 80% Male   | 13.8 ± 3.4                  | 16.8 ± 4.4                    | 6.0%                      | 8.4 ± 1.7                   | \$1350 ± 280                 | 9.1 ± 1.0                        | 12                      |
| Group I (n=50)  | 60 ± 15                 | 60% Male   | 11.0 ± 2.6                  | 14.3 ± 3.5                    | 4.1%                      | 7.2 ± 1.3                   | \$1000 ± 210                 | 7.9 ± 0.6                        | 12                      |
| Group J (n=50)  | 69 ± 6                  | 82% Male   | 14.0 ± 3.6                  | 17.0 ± 4.5                    | 6.2%                      | 8.6 ± 1.8                   | \$1400 ± 290                 | 9.3 ± 1.1                        | 12                      |



## Product Model Breakdown

BSS - M6 - 10 - 1  
 ↓       ↓       ↓       ↓  
 Product Thread Length Low-end  
 Code    Code    Code    Code



| Model | Description | Part Code | L    |       | Hexagonal | H    | C    | E    | L    | H    | C    | E    |
|-------|-------------|-----------|------|-------|-----------|------|------|------|------|------|------|------|
|       |             |           | mm   | inch  |           |      |      |      |      |      |      |      |
| BSS   | BSS-M 6     | 1         | 6.35 | 0.25  | 12.7      | 12.7 | 6.35 | 12.7 | 12.7 | 6.35 | 12.7 | 12.7 |
|       |             | 2         | 6.35 | 0.25  | 12.7      | 12.7 | 6.35 | 12.7 | 12.7 | 6.35 | 12.7 | 12.7 |
|       |             | 3         | 6.35 | 0.25  | 12.7      | 12.7 | 6.35 | 12.7 | 12.7 | 6.35 | 12.7 | 12.7 |
|       | BSS-M 8     | 1         | 8.0  | 0.315 | 16.0      | 16.0 | 8.0  | 16.0 | 16.0 | 8.0  | 16.0 | 16.0 |
|       |             | 2         | 8.0  | 0.315 | 16.0      | 16.0 | 8.0  | 16.0 | 16.0 | 8.0  | 16.0 | 16.0 |
|       |             | 3         | 8.0  | 0.315 | 16.0      | 16.0 | 8.0  | 16.0 | 16.0 | 8.0  | 16.0 | 16.0 |
|       | BSS-M 10    | 1         | 10.0 | 0.394 | 20.0      | 20.0 | 10.0 | 20.0 | 20.0 | 10.0 | 20.0 | 20.0 |
|       |             | 2         | 10.0 | 0.394 | 20.0      | 20.0 | 10.0 | 20.0 | 20.0 | 10.0 | 20.0 | 20.0 |
|       |             | 3         | 10.0 | 0.394 | 20.0      | 20.0 | 10.0 | 20.0 | 20.0 | 10.0 | 20.0 | 20.0 |
|       | BSS-M 12    | 1         | 12.0 | 0.472 | 24.0      | 24.0 | 12.0 | 24.0 | 24.0 | 12.0 | 24.0 | 24.0 |
|       |             | 2         | 12.0 | 0.472 | 24.0      | 24.0 | 12.0 | 24.0 | 24.0 | 12.0 | 24.0 | 24.0 |
|       |             | 3         | 12.0 | 0.472 | 24.0      | 24.0 | 12.0 | 24.0 | 24.0 | 12.0 | 24.0 | 24.0 |
|       | BSS-M 14    | 1         | 14.0 | 0.551 | 28.0      | 28.0 | 14.0 | 28.0 | 28.0 | 14.0 | 28.0 | 28.0 |
|       |             | 2         | 14.0 | 0.551 | 28.0      | 28.0 | 14.0 | 28.0 | 28.0 | 14.0 | 28.0 | 28.0 |
|       |             | 3         | 14.0 | 0.551 | 28.0      | 28.0 | 14.0 | 28.0 | 28.0 | 14.0 | 28.0 | 28.0 |
|       | BSS-M 16    | 1         | 16.0 | 0.630 | 32.0      | 32.0 | 16.0 | 32.0 | 32.0 | 16.0 | 32.0 | 32.0 |
|       |             | 2         | 16.0 | 0.630 | 32.0      | 32.0 | 16.0 | 32.0 | 32.0 | 16.0 | 32.0 | 32.0 |
|       |             | 3         | 16.0 | 0.630 | 32.0      | 32.0 | 16.0 | 32.0 | 32.0 | 16.0 | 32.0 | 32.0 |
|       | BSS-M 18    | 1         | 18.0 | 0.709 | 36.0      | 36.0 | 18.0 | 36.0 | 36.0 | 18.0 | 36.0 | 36.0 |
|       |             | 2         | 18.0 | 0.709 | 36.0      | 36.0 | 18.0 | 36.0 | 36.0 | 18.0 | 36.0 | 36.0 |
|       |             | 3         | 18.0 | 0.709 | 36.0      | 36.0 | 18.0 | 36.0 | 36.0 | 18.0 | 36.0 | 36.0 |



## Product Model Breakdown

ITS - M3 - 6  
 ↓     ↓     ↓  
 Product Thread Length  
 Code    Code    Code



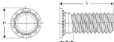
We have a large stock of products in stainless steel and copper-plated iron materials, both with steps and without steps.

| The following data are normally required for reference data, subject to the product model, unit, and size |       |      |           |             |     |                |   |                |   |
|-----------------------------------------------------------------------------------------------------------|-------|------|-----------|-------------|-----|----------------|---|----------------|---|
| Stud welding Stud                                                                                         | Model |      | Stud Code | Length Code |     | Step (mm) Step |   | Step (mm) Step |   |
|                                                                                                           | 1/8"  | 1/4" |           | 1           | 2   | 3              | 4 | 5              | 6 |
| M340, 5                                                                                                   | 175   | 17   | M3        | 6           | 6.7 | 6.8            | 7 | 6.9            | 8 |
| M440, 5                                                                                                   | 175   | 17   | M4        | 8           | 6.7 | 6.8            | 7 | 6.9            | 8 |
| M540, 5                                                                                                   | 175   | 17   | M5        | 10          | 6.7 | 6.8            | 7 | 6.9            | 8 |
| M640, 5                                                                                                   | 175   | 17   | M6        | 12          | 6.7 | 6.8            | 7 | 6.9            | 8 |
| M840, 5                                                                                                   | 175   | 17   | M8        | 15          | 6.7 | 7              | 7 | 6.9            | 8 |
| M1040, 25                                                                                                 | 175   | 17   | M10       | 18          | 6.7 | 7              | 7 | 6.9            | 8 |



## Product Model Breakdown

FHS - M3 - 6  
 ↓       ↓       ↓  
 Product Thread Screw  
 Code    Code    Code



We maintain a large stock of products across multiple material specifications: stainless steel, galvanized carbon steel, stainless iron, 6061 aluminum, and imperial series.

The following table is manually measured for reference only. Subject to actual goods in order only.

| Metric | Diameter (mm)  |     | Pitch (mm) |      | Thread Code | Length Code | Material<br>Steel Thickness | Hex Width<br>(mm) | Hex Depth<br>(mm) | Hex Outer<br>Diameter<br>(mm) | Hex Inner<br>Diameter<br>(mm) | Hex Flange<br>Thickness |
|--------|----------------|-----|------------|------|-------------|-------------|-----------------------------|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------|
|        | mm             | mm  | mm         | mm   |             |             |                             |                   |                   |                               |                               |                         |
| M3     | M3 - 300 - 0.5 | 300 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 350 - 0.5 | 350 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 400 - 0.5 | 400 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 450 - 0.5 | 450 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 500 - 0.5 | 500 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 550 - 0.5 | 550 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 600 - 0.5 | 600 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 650 - 0.5 | 650 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 700 - 0.5 | 700 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |
|        | M3 - 750 - 0.5 | 750 | 3.00       | 0.50 | M3 - 3      | 0           | 0                           | 3.4               | 3.1               | 6.3                           | 5.98                          | 0.4                     |

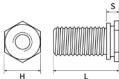
The following table is manually measured for reference only. Subject to actual goods in order only.

| Imperial (in.) | Diameter (in.) |      | Pitch (in.) |      | Thread Code | Length Code | Material<br>Steel Thickness | Hex Width<br>(in.) | Hex Depth<br>(in.) | Hex Outer<br>Diameter<br>(in.) | Hex Inner<br>Diameter<br>(in.) | Hex Flange<br>Thickness |
|----------------|----------------|------|-------------|------|-------------|-------------|-----------------------------|--------------------|--------------------|--------------------------------|--------------------------------|-------------------------|
|                | in.            | in.  | in.         | in.  |             |             |                             |                    |                    |                                |                                |                         |
| Imperial (in.) | .080 - .08     | .080 | .080        | .080 | .080        | 0           | .080                        | .080               | .080               | .080                           | .080                           | .080                    |
|                | .100 - .10     | .100 | .100        | .100 | .100        | 0           | .100                        | .100               | .100               | .100                           | .100                           | .100                    |
|                | .125 - .125    | .125 | .125        | .125 | .125        | 0           | .125                        | .125               | .125               | .125                           | .125                           | .125                    |
|                | .150 - .150    | .150 | .150        | .150 | .150        | 0           | .150                        | .150               | .150               | .150                           | .150                           | .150                    |
|                | .175 - .175    | .175 | .175        | .175 | .175        | 0           | .175                        | .175               | .175               | .175                           | .175                           | .175                    |
|                | .200 - .200    | .200 | .200        | .200 | .200        | 0           | .200                        | .200               | .200               | .200                           | .200                           | .200                    |
|                | .225 - .225    | .225 | .225        | .225 | .225        | 0           | .225                        | .225               | .225               | .225                           | .225                           | .225                    |
|                | .250 - .250    | .250 | .250        | .250 | .250        | 0           | .250                        | .250               | .250               | .250                           | .250                           | .250                    |
|                | .275 - .275    | .275 | .275        | .275 | .275        | 0           | .275                        | .275               | .275               | .275                           | .275                           | .275                    |
|                | .300 - .300    | .300 | .300        | .300 | .300        | 0           | .300                        | .300               | .300               | .300                           | .300                           | .300                    |



## Product Model Breakdown

NFHS - M3 - 6  
 ↓       ↓       ↓  
 Product Thread Screw  
 Code    Code    Code



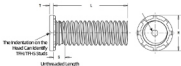
The following table are mandatory mass and for reference only. Subject to the actual product. Unit: mm

| Specification Item | Head         |              | Thread Item | Thread Item<br>(Pitch) | Pitch<br>(mm) | H    | S    | Total Length |     |
|--------------------|--------------|--------------|-------------|------------------------|---------------|------|------|--------------|-----|
|                    | Counter Sink | Counter Sink |             |                        |               |      |      | Max          | Min |
| W4H0.5             | NF10         | NF10         | M3          | 1                      | 0.5           | 6    | 1.25 | 5.5          |     |
| W4H0.7             | NF10         | NF10         | M4          | 1                      | 0.5           | 6    | 1.25 | 7.2          |     |
| W4H0.8             | NF10         | NF10         | M5          | 1                      | 0.5           | 6.28 | 1.25 | 7.2          |     |
| W4H1.0             | NF10         | NF10         | M6          | 1.3                    | 0.5           | 7    | 1.4  | 7.9          |     |
| W4H1.25            | NF10         | NF10         | M8          | 2                      | 0.5           | 9    | 1.8  | 9.5          |     |



## Product Model Breakdown

TFHS - M3 - 8  
 ↓        ↓        ↓  
 Product Thread Length  
 Code    Code    Code



The following data are normally measured for reference only, subject to the usual practice of round up.

| Model | Product Code (TFHS) | Model Year Number Year | Description | Length Code (Thread end) | Outer Diameter | Height | Inner or Counterbore | Ø      | S   | T    | Minimum Flange Thickness |
|-------|---------------------|------------------------|-------------|--------------------------|----------------|--------|----------------------|--------|-----|------|--------------------------|
|       |                     |                        |             | mm, in                   | mm             | mm     | mm                   | mm, in | mm  | mm   | mm                       |
| M3    | TFHS-3              |                        | 25          | 6-25                     | 3.54           | 3      | 3.3                  | 3.3    | 1.8 | 3.48 | 3.3                      |
|       | TFHS-7              | 199                    | 25          |                          | 3.54           | 4      | 4.7                  | 3.8    | 1.8 | 3.48 | 3.3                      |
|       | TFHS-8              |                        | 25          |                          | 3.54           | 5      | 5.3                  | 4.1    | 2.3 | 3.48 | 3.3                      |

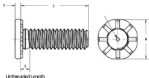
The following data are normally measured for reference only, subject to the usual practice of round up.

| Model | Product Code (TFHS) | Model Year Number Year | Description | Length Code (Thread end) | Outer Diameter | Height | Inner or Counterbore | Ø      | S    | T    | Minimum Flange Thickness |
|-------|---------------------|------------------------|-------------|--------------------------|----------------|--------|----------------------|--------|------|------|--------------------------|
|       |                     |                        |             | mm, in                   | mm             | mm     | mm                   | mm, in | mm   | mm   | mm                       |
| M4    | TFHS-4              |                        | 25          | 4-24                     | 4.09           | 3.45   | 3.35                 | 3.41   | 2.75 | 3.25 | 3.41                     |
|       | TFHS-10             |                        | 30          |                          | 4.09           | 4.11   | 3.33                 | 3.76   | 2.75 | 3.25 | 3.41                     |
|       | TFHS-12             |                        | 30          |                          | 4.09           | 4.17   | 3.34                 | 3.89   | 2.75 | 3.25 | 3.41                     |
|       | TFHS-16             |                        | 30          |                          | 4.09           | 4.53   | 3.33                 | 4.24   | 2.75 | 3.25 | 3.41                     |
|       | TFHS-19             |                        | 30          |                          | 4.09           | 4.63   | 3.34                 | 4.36   | 2.85 | 3.25 | 3.41                     |
|       | TFHS-24             |                        | 30          |                          | 4.09           | 4.69   | 3.34                 | 4.39   | 2.85 | 3.25 | 3.41                     |
|       | TFHS-32             |                        | 30          |                          | 4.09           | 4.89   | 3.34                 | 4.59   | 2.85 | 3.25 | 3.41                     |



## Product Model Breakdown

HFE - M5 - 10  
 ↓       ↓       ↓  
 Product Thread Length  
 Code    Code    Code



The following data and priority is used for reference only, subject to the actual product and size.

| Metric | Standard Head | Head | Thread Code | Unthreaded Thread Length<br>L (mm) | Head<br>Thickness<br>t (mm) | Head Dia<br>D (mm) | Maximum<br>Unthreaded<br>Length<br>L1 (mm) | D     | S   | T    | Maximal<br>Hole<br>Diameter |
|--------|---------------|------|-------------|------------------------------------|-----------------------------|--------------------|--------------------------------------------|-------|-----|------|-----------------------------|
|        | M5x5, 6       | 55   |             | 10-50                              | 1                           | 5                  | 7.3                                        | 9.5   | 3.4 | 1.35 | 10                          |
|        | M5x5, 7       | 55   |             |                                    | 1                           | 5                  | 8.3                                        | 11.55 | 3.8 | 1.52 | 11.5                        |
|        | M5x1, 10      | 55   |             |                                    | 1.5                         | 5                  | 10.3                                       | 15.5  | 3.3 | 2.12 | 14.7                        |

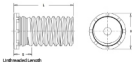
The following data and priority is used for reference only, subject to the actual product and size.

| Imperial | Standard Head           | Head | Thread Code | Unthreaded Thread Length<br>L (in) | Head<br>Thickness<br>t (in) | Head Dia<br>D (in) | Maximum<br>Unthreaded<br>Length<br>L1 (in) | D    | S    | T    | Maximal<br>Hole<br>Diameter |
|----------|-------------------------|------|-------------|------------------------------------|-----------------------------|--------------------|--------------------------------------------|------|------|------|-----------------------------|
|          | .199-.20<br>(.009-.002) | 55   |             | .394-.2                            | .040                        | .197               | .285                                       | .377 | .132 | .049 | .394                        |
|          | .250-.26<br>(.010-.002) | 55   |             |                                    | .040                        | .200               | .310                                       | .402 | .149 | .060 | .408                        |
|          | .312-.32<br>(.012-.002) | 55   |             |                                    | .060                        | .212               | .362                                       | .454 | .132 | .080 | .460                        |



## Product Model Breakdown

FHLS - M3 - 8  
 ↓       ↓       ↓  
 Product Thread Length  
 Code    Code    Code



Unthreaded Length

The following table is normally distributed for reference only, subject to the actual product size and size.

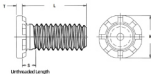
| Description/Size | Head |           | Thread Code | Length (mm) (mm) | Pitch (mm) | Head Code | Head Dimension (mm) | D       | D   | Minimum Length (mm) |
|------------------|------|-----------|-------------|------------------|------------|-----------|---------------------|---------|-----|---------------------|
|                  | Size | Head Code |             |                  |            |           |                     | (D1-D2) | mm  |                     |
| M3 (mm) 40       |      |           | M3.5        | 4-15             | 1          | 2.5       | 2.9                 | 3.17    | 2.1 | 2.9                 |
| M3 (mm) 5        |      |           | M3          |                  | 1          | 3         | 3.8                 | 3.61    | 2.1 | 2.3                 |
| M3 (mm) 4        | FHL  | FHLS      | M3.5        |                  | 1          | 2.5       | 2.9                 | 4.13    | 2.3 | 3.9                 |
| M3 (mm) 7        |      |           | M3          |                  | 1          | 4         | 4.8                 | 4.13    | 2.3 | 4.3                 |
| M3 (mm) 8        |      |           | M3          |                  | 1          | 5         | 5.8                 | 5.17    | 2.7 | 5.6                 |

The following table is normally distributed for reference only, subject to the actual product size and size.

| Description/Size | Head |           | Thread Code | Length (mm) (mm) | Pitch (mm) | Head Code | Head Dimension (mm) | D       | D   | Minimum Length (mm) |
|------------------|------|-----------|-------------|------------------|------------|-----------|---------------------|---------|-----|---------------------|
|                  | Size | Head Code |             |                  |            |           |                     | (D1-D2) | mm  |                     |
| M3 (mm) 10       |      |           | M3          | 4-24             | 1          | 100       | 100                 | 113     | 100 | 100                 |
| M3 (mm) 15       |      |           | M3          |                  | 1          | 111       | 111                 | 124     | 100 | 124                 |
| M3 (mm) 20       |      |           | M3          |                  | 1          | 127       | 127                 | 144     | 100 | 144                 |
| M3 (mm) 25       |      |           | M3          |                  | 1          | 143       | 143                 | 160     | 100 | 176                 |
| M3 (mm) 30       |      |           | M3          |                  | 1          | 169       | 169                 | 186     | 100 | 202                 |
| M3 (mm) 35       |      |           | M3          |                  | 1          | 189       | 189                 | 206     | 100 | 224                 |

### Product Model Breakdown

| HFMS    | MS     | 10     |
|---------|--------|--------|
| ↓       | ↓      | ↓      |
| Product | Thread | Length |
| Code    | Code   | Code   |



**Figure 1**

<sup>a</sup>Substrates were used as described previously (Kawachi et al., 1999).

| The following table presents the fully disclosed and pending subject to the usual market risk rate |      |                 |               |                   |                          |                   |                  |                  |             |                  |      |       |
|----------------------------------------------------------------------------------------------------|------|-----------------|---------------|-------------------|--------------------------|-------------------|------------------|------------------|-------------|------------------|------|-------|
| Financial year                                                                                     | Date | From<br>1997/98 | To<br>2000/01 | Period<br>1997/98 | Amortization (1) (2) (3) | Cash flows (4)    |                  |                  |             | Present<br>value |      |       |
|                                                                                                    |      |                 |               |                   |                          | Operating<br>cash | Interest<br>cash | Dividend<br>cash | Net<br>cash |                  |      |       |
| 1997/98                                                                                            |      |                 |               | 1997              |                          | 1.18              | 0                | 0.1              | 7.8         | 10.7             | 1.14 | 10.7  |
| 1998/99                                                                                            | 1998 | 1998/98         | 1999/00       | 1998              |                          | 1.5               | 0                | 0.1              | 10.4        | 12.0             | 1.27 | 12.5  |
| 1999/00                                                                                            |      |                 |               | 1999              |                          | 2                 | 0                | 0.1              | 122.5       | 124.6            | 1.36 | 125.9 |
| 2000/01                                                                                            |      |                 |               | 2000              |                          | 2.75              | 0                | 0.1              | 156.7       | 159.5            | 1.47 | 160.9 |

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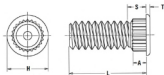
| The following table provides a summary of the company's operations and financial performance for the period ended 31st March 2024. |         |        |          |        |                     |            |                  |        |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|--------|---------------------|------------|------------------|--------|------|
| Period/Category                                                                                                                    | Revenue |        | Expenses |        | Profitability (YTD) | Net Profit | Operating Profit | EBITDA | EBIT |
|                                                                                                                                    | Actual  | Target | Actual   | Target |                     |            |                  |        |      |
| Q1 2024                                                                                                                            | 1000    | 1000   | 600      | 600    | 1000 - 0            | 400        | 400              | 400    | 400  |
| Q2 2024                                                                                                                            | 1100    | 1100   | 650      | 650    |                     | 450        | 450              | 450    | 450  |
| Q3 2024                                                                                                                            | 1200    | 1200   | 700      | 700    |                     | 500        | 500              | 500    | 500  |
| Q4 2024                                                                                                                            | 1300    | 1300   | 750      | 750    |                     | 550        | 550              | 550    | 550  |
| Q5 2024                                                                                                                            | 1400    | 1400   | 800      | 800    |                     | 600        | 600              | 600    | 600  |
| Q6 2024                                                                                                                            | 1500    | 1500   | 850      | 850    | 650                 | 650        | 650              | 650    | 650  |
| Q7 2024                                                                                                                            | 1600    | 1600   | 900      | 900    | 700                 | 700        | 700              | 700    | 700  |
| Q8 2024                                                                                                                            | 1700    | 1700   | 950      | 950    | 750                 | 750        | 750              | 750    | 750  |
| Q9 2024                                                                                                                            | 1800    | 1800   | 1000     | 1000   | 800                 | 800        | 800              | 800    | 800  |
| Q10 2024                                                                                                                           | 1900    | 1900   | 1050     | 1050   | 850                 | 850        | 850              | 850    | 850  |
| Q11 2024                                                                                                                           | 2000    | 2000   | 1100     | 1100   | 900                 | 900        | 900              | 900    | 900  |
| Q12 2024                                                                                                                           | 2100    | 2100   | 1150     | 1150   | 950                 | 950        | 950              | 950    | 950  |
| Q13 2024                                                                                                                           | 2200    | 2200   | 1200     | 1200   | 1000                | 1000       | 1000             | 1000   | 1000 |
| Q14 2024                                                                                                                           | 2300    | 2300   | 1250     | 1250   | 1050                | 1050       | 1050             | 1050   | 1050 |
| Q15 2024                                                                                                                           | 2400    | 2400   | 1300     | 1300   | 1100                | 1100       | 1100             | 1100   | 1100 |
| Q16 2024                                                                                                                           | 2500    | 2500   | 1350     | 1350   | 1150                | 1150       | 1150             | 1150   | 1150 |
| Q17 2024                                                                                                                           | 2600    | 2600   | 1400     | 1400   | 1200                | 1200       | 1200             | 1200   | 1200 |
| Q18 2024                                                                                                                           | 2700    | 2700   | 1450     | 1450   | 1250                | 1250       | 1250             | 1250   | 1250 |
| Q19 2024                                                                                                                           | 2800    | 2800   | 1500     | 1500   | 1300                | 1300       | 1300             | 1300   | 1300 |
| Q20 2024                                                                                                                           | 2900    | 2900   | 1550     | 1550   | 1350                | 1350       | 1350             | 1350   | 1350 |
| Q21 2024                                                                                                                           | 3000    | 3000   | 1600     | 1600   | 1400                | 1400       | 1400             | 1400   | 1400 |
| Q22 2024                                                                                                                           | 3100    | 3100   | 1650     | 1650   | 1450                | 1450       | 1450             | 1450   | 1450 |
| Q23 2024                                                                                                                           | 3200    | 3200   | 1700     | 1700   | 1500                | 1500       | 1500             | 1500   | 1500 |
| Q24 2024                                                                                                                           | 3300    | 3300   | 1750     | 1750   | 1550                | 1550       | 1550             | 1550   | 1550 |
| Q25 2024                                                                                                                           | 3400    | 3400   | 1800     | 1800   | 1600                | 1600       | 1600             | 1600   | 1600 |
| Q26 2024                                                                                                                           | 3500    | 3500   | 1850     | 1850   | 1650                | 1650       | 1650             | 1650   | 1650 |
| Q27 2024                                                                                                                           | 3600    | 3600   | 1900     | 1900   | 1700                | 1700       | 1700             | 1700   | 1700 |
| Q28 2024                                                                                                                           | 3700    | 3700   | 1950     | 1950   | 1750                | 1750       | 1750             | 1750   | 1750 |
| Q29 2024                                                                                                                           | 3800    | 3800   | 2000     | 2000   | 1800                | 1800       | 1800             | 1800   | 1800 |
| Q30 2024                                                                                                                           | 3900    | 3900   | 2050     | 2050   | 1850                | 1850       | 1850             | 1850   | 1850 |
| Q31 2024                                                                                                                           | 4000    | 4000   | 2100     | 2100   | 1900                | 1900       | 1900             | 1900   | 1900 |
| Q32 2024                                                                                                                           | 4100    | 4100   | 2150     | 2150   | 1950                | 1950       | 1950             | 1950   | 1950 |
| Q33 2024                                                                                                                           | 4200    | 4200   | 2200     | 2200   | 2000                | 2000       | 2000             | 2000   | 2000 |
| Q34 2024                                                                                                                           | 4300    | 4300   | 2250     | 2250   | 2050                | 2050       | 2050             | 2050   | 2050 |
| Q35 2024                                                                                                                           | 4400    | 4400   | 2300     | 2300   | 2100                | 2100       | 2100             | 2100   | 2100 |
| Q36 2024                                                                                                                           | 4500    | 4500   | 2350     | 2350   | 2150                | 2150       | 2150             | 2150   | 2150 |
| Q37 2024                                                                                                                           | 4600    | 4600   | 2400     | 2400   | 2200                | 2200       | 2200             | 2200   | 2200 |
| Q38 2024                                                                                                                           | 4700    | 4700   | 2450     | 2450   | 2250                | 2250       | 2250             | 2250   | 2250 |
| Q39 2024                                                                                                                           | 4800    | 4800   | 2500     | 2500   | 2300                | 2300       | 2300             | 2300   | 2300 |
| Q40 2024                                                                                                                           | 4900    | 4900   | 2550     | 2550   | 2350                | 2350       | 2350             | 2350   | 2350 |
| Q41 2024                                                                                                                           | 5000    | 5000   | 2600     | 2600   | 2400                | 2400       | 2400             | 2400   | 2400 |
| Q42 2024                                                                                                                           | 5100    | 5100   | 2650     | 2650   | 2450                | 2450       | 2450             | 2450   | 2450 |
| Q43 2024                                                                                                                           | 5200    | 5200   | 2700     | 2700   | 2500                | 2500       | 2500             | 2500   | 2500 |
| Q44 2024                                                                                                                           | 5300    | 5300   | 2750     | 2750   | 2550                | 2550       | 2550             | 2550   | 2550 |
| Q45 2024                                                                                                                           | 5400    | 5400   | 2800     | 2800   | 2600                | 2600       | 2600             | 2600   | 2600 |
| Q46 2024                                                                                                                           | 5500    | 5500   | 2850     | 2850   | 2650                | 2650       | 2650             | 2650   | 2650 |
| Q47 2024                                                                                                                           | 5600    | 5600   | 2900     | 2900   | 2700                | 2700       | 2700             | 2700   | 2700 |
| Q48 2024                                                                                                                           | 5700    | 5700   | 2950     | 2950   | 2750                | 2750       | 2750             | 2750   | 2750 |
| Q49 2024                                                                                                                           | 5800    | 5800   | 3000     | 3000   | 2800                | 2800       | 2800             | 2800   | 2800 |
| Q50 2024                                                                                                                           | 5900    | 5900   | 3050     | 3050   | 2850                | 2850       | 2850             | 2850   | 2850 |
| Q51 2024                                                                                                                           | 6000    | 6000   | 3100     | 3100   | 2900                | 2900       | 2900             | 2900   | 2900 |
| Q52 2024                                                                                                                           | 6100    | 6100   | 3150     | 3150   | 2950                | 2950       | 2950             | 2950   | 2950 |
| Q53 2024                                                                                                                           | 6200    | 6200   | 3200     | 3200   | 3000                | 3000       | 3000             | 3000   | 3000 |
| Q54 2024                                                                                                                           | 6300    | 6300   | 3250     | 3250   | 3050                | 3050       | 3050             | 3050   | 3050 |
| Q55 2024                                                                                                                           | 6400    | 6400   | 3300     | 3300   | 3100                | 3100       | 3100             | 3100   | 3100 |
| Q56 2024                                                                                                                           | 6500    | 6500   | 3350     | 3350   | 3150                | 3150       | 3150             | 3150   | 3150 |
| Q57 2024                                                                                                                           | 6600    | 6600   | 3400     | 3400   | 3200                | 3200       | 3200             | 3200   | 3200 |
| Q58 2024                                                                                                                           | 6700    | 6700   | 3450     | 3450   | 3250                | 3250       | 3250             | 3250   | 3250 |
| Q59 2024                                                                                                                           | 6800    | 6800   | 3500     | 3500   | 3300                | 3300       | 3300             | 3300   | 3300 |
| Q60 2024                                                                                                                           | 6900    | 6900   | 3550     | 3550   | 3350                | 3350       | 3350             | 3350   | 3350 |
| Q61 2024                                                                                                                           | 7000    | 7000   | 3600     | 3600   | 3400                | 3400       | 3400             | 3400   | 3400 |
| Q62 2024                                                                                                                           | 7100    | 7100   | 3650     | 3650   | 3450                | 3450       | 3450             | 3450   | 3450 |
| Q63 2024                                                                                                                           | 7200    | 7200   | 3700     | 3700   | 3500                | 3500       | 3500             | 3500   | 3500 |
| Q64 2024                                                                                                                           | 7300    | 7300   | 3750     | 3750   | 3550                | 3550       | 3550             | 3550   | 3550 |
| Q65 2024                                                                                                                           | 7400    | 7400   | 3800     | 3800   | 3600                | 3600       | 3600             | 3600   | 3600 |
| Q66 2024                                                                                                                           | 7500    | 7500   | 3850     | 3850   | 3650                | 3650       | 3650             | 3650   | 3650 |
| Q67 2024                                                                                                                           | 7600    | 7600   | 3900     | 3900   | 3700                | 3700       | 3700             | 3700   | 3700 |
| Q68 2024                                                                                                                           | 7700    | 7700   | 3950     | 3950   | 3750                | 3750       | 3750             | 3750   | 3750 |
| Q69 2024                                                                                                                           | 7800    | 7800   | 4000     | 4000   | 3800                | 3800       | 3800             | 3800   | 3800 |
| Q70 2024                                                                                                                           | 7900    | 7900   | 4050     | 4050   | 3850                | 3850       | 3850             | 3850   | 3850 |
| Q71 2024                                                                                                                           | 8000    | 8000   | 4100     | 4100   | 3900                | 3900       | 3900             | 3900   | 3900 |
| Q72 2024                                                                                                                           | 8100    | 8100   | 4150     | 4150   | 3950                | 3950       | 3950             | 3950   | 3950 |
| Q73 2024                                                                                                                           | 8200    | 8200   | 4200     | 4200   | 4000                | 4000       | 4000             | 4000   | 4000 |
| Q74 2024                                                                                                                           | 8300    | 8300   | 4250     | 4250   | 4050                | 4050       | 4050             | 4050   | 4050 |
| Q75 2024                                                                                                                           | 8400    | 8400   | 4300     | 4300   | 4100                | 4100       | 4100             | 4100   | 4100 |
| Q76 2024                                                                                                                           | 8500    | 8500   | 4350     | 4350   | 4150                | 4150       | 4150             | 4150   | 4150 |
| Q77 2024                                                                                                                           | 8600    | 8600   | 4400     | 4400   | 4200                | 4200       | 4200             | 4200   | 4200 |
| Q78 2024                                                                                                                           | 8700    | 8700   | 4450     | 4450   | 4250                | 4250       | 4250             | 4250   | 4250 |
| Q79 2024                                                                                                                           | 8800    | 8800   | 4500     | 4500   | 4300                | 4300       | 4300             | 4300   | 4300 |
| Q80 2024                                                                                                                           | 8900    | 8900   | 4550     | 4550   | 4350                | 4350       | 4350             | 4350   | 4350 |
| Q81 2024                                                                                                                           | 9000    | 9000   | 4600     | 4600   | 4400                | 4400       | 4400             | 4400   | 4400 |
| Q82 2024                                                                                                                           | 9100    | 9100   | 4650     | 4650   | 4450                | 4450       | 4450             | 4450   | 4450 |
| Q83 2024                                                                                                                           | 9200    | 9200   | 4700     | 4700   | 4500                | 4500       | 4500             | 4500   | 4500 |
| Q84 2024                                                                                                                           | 9300    | 9300   | 4750     | 4750   | 4550                | 4550       | 4550             | 4550   | 4550 |
| Q85 2024                                                                                                                           | 9400    | 9400   | 4800     | 4800   | 4600                | 4600       | 4600             | 4600   | 4600 |
| Q86 2024                                                                                                                           | 9500    | 9500   | 4850     | 4850   | 4650                | 4650       | 4650             | 4650   | 4650 |
| Q87 2024                                                                                                                           | 9600    | 9600   | 4900     | 4900   | 4700                | 4700       | 4700             | 4700   | 4700 |
| Q88 2024                                                                                                                           | 9700    | 9700   | 4950     | 4950   | 4750                | 4750       | 4750             | 4750   | 4750 |
| Q89 2024                                                                                                                           | 9800    | 9800   | 5000     | 5000   | 4800                | 4800       | 4800             | 4800   | 4800 |
| Q90 2024                                                                                                                           | 9900    | 9900   | 5050     | 5050   | 4850                | 4850       | 4850             | 4850   | 4850 |
| Q91 2024                                                                                                                           | 10000   | 10000  | 5100     | 5100   | 4900                | 4900       | 4900             | 4900   | 4900 |
| Q92 2024                                                                                                                           | 10100   | 10100  | 5150     | 5150   | 4950                | 4950       | 4950             | 4950   | 4950 |
| Q93 2024                                                                                                                           | 10200   | 10200  | 5200     | 5200   | 5000                | 5000       | 5000             | 5000   | 5000 |
| Q94 2024                                                                                                                           | 10300   | 10300  | 5250     | 5250   | 5050                | 5050       | 5050             | 5050   | 5050 |
| Q95 2024                                                                                                                           | 10400   | 10400  | 5300     | 5300   | 5100                | 5100       | 5100             | 5100   | 5100 |
| Q96 2024                                                                                                                           | 10500   | 10500  | 5350     | 5350   | 5150                | 5150       | 5150             | 5150   | 5150 |
| Q97 2024                                                                                                                           | 10600   | 10600  | 5400     | 5400   | 5200                | 5200       | 5200             | 5200   | 5200 |
| Q98 2024                                                                                                                           | 10700   | 10700  | 5450     | 5450   | 5250                | 5250       | 5250             | 5250   | 5250 |
| Q99 2024                                                                                                                           | 10800   | 10800  | 5500     | 5500   | 5300                | 5300       | 5300             | 5300   | 5300 |
| Q100 2024                                                                                                                          | 10900   | 10900  | 5550     | 5550   | 5350                | 5350       | 5350             | 5350   | 5350 |
| Q101 2024                                                                                                                          | 11000   | 11000  | 5600     | 5600   | 5400                | 5400       | 5400             | 5400   | 5400 |
| Q102 2024                                                                                                                          | 11100   | 11100  | 5650     | 5650   | 5450                | 5450       | 5450             | 5450   | 5450 |
| Q103 2024                                                                                                                          | 11200   | 11200  | 5700     | 5700   | 5500                | 5500       | 5500             | 5500   | 5500 |
| Q104 2024                                                                                                                          | 11300   | 11300  | 5750     | 5750   | 5550                | 5550       | 5550             | 5550   | 5550 |
| Q105 2024                                                                                                                          | 11400   | 11400  | 5800     | 5800   | 5600                | 5600       | 5600             | 5600   | 5600 |
| Q106 2024                                                                                                                          | 11500   | 11500  | 5850     | 5850   | 5650                | 5650       | 5650             | 5650   | 5650 |
| Q107 2024                                                                                                                          | 11600   | 11600  | 5900     | 5900   | 5700                | 5700       | 5700             | 5700   | 5700 |
| Q108 2024                                                                                                                          | 11700   | 11700  | 5950     | 5950   | 5750                | 5750       | 5750             | 5750   | 5750 |
| Q109 2024                                                                                                                          | 11800   | 11800  | 6000     | 6000   | 5800                | 5800       | 5800             | 5800   | 5800 |
| Q110 2024                                                                                                                          | 11900   | 11900  | 6050     | 6050   | 5850                | 5850       | 5850             | 5850   | 5850 |
| Q111 2024                                                                                                                          | 12000   | 12000  | 6100     | 6100   | 5900                | 5900       | 5900             | 5900   | 5900 |
| Q112 2024                                                                                                                          | 12100   | 12100  | 6150     | 6150   | 5950                | 5950       | 5950             | 5950   | 5950 |
| Q113 2024                                                                                                                          | 12200   | 12200  | 6200     | 6200   | 6000                | 6000       | 6000             | 6000   | 6000 |
| Q114 2024                                                                                                                          | 12300   | 12300  | 6250     | 6250   | 6050                | 6050       | 6050             | 6050   | 6050 |
| Q115 2024                                                                                                                          | 12400   | 12400  | 6300     | 6300   | 6100                | 6100       | 6100             | 6100   | 6100 |
| Q116 2024                                                                                                                          | 12500   | 12500  | 6350     | 6350   | 6150                | 6150       | 6150             | 6150   | 6150 |
| Q117 2024                                                                                                                          | 12600   | 12600  | 6400     | 6400   | 6200                | 6200       | 6200             | 6200   | 6200 |
| Q118 2024                                                                                                                          | 12700   | 12700  | 6450     | 6450   | 6250                | 6250       | 6250             | 6250   | 6250 |
| Q119 2024                                                                                                                          | 12800   | 12800  | 6500     | 6500   | 6300                | 6300       | 6300             | 6300   | 6300 |
| Q120 2024                                                                                                                          | 12900   | 12900  | 6550     | 6550   | 6350                | 6350       | 6350             | 6350   | 6350 |
| Q121 2024                                                                                                                          | 13000   | 13000  | 6600     | 6600   | 6400                | 6400       | 6400             | 6400   | 6400 |
| Q122 2024                                                                                                                          | 13100   | 13100  | 6650     | 6650   | 6450                | 6450       | 6450             | 6450   | 6450 |
| Q123 2024                                                                                                                          | 13200   | 13200  | 6700     | 6700   | 6500                | 6500       | 6500             | 6500   | 6500 |
| Q124 2024                                                                                                                          | 13300   | 13300  | 6750     | 6750   | 6550                | 6550       | 6550             | 6550   | 6550 |
| Q125 2024                                                                                                                          | 13400   | 13400  | 6800     | 6800   | 6600                | 6600       | 6600             | 6600   |      |



### Product Model Breakdown

KFH - M3 - 3

| Product Code | Thread Code | Length Code |
|--------------|-------------|-------------|
|--------------|-------------|-------------|



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| Year      | The following table shows the ability of the company to generate sufficient funds to fund its operations and capital expenditures |           |                  |                           |           |                  |           |                     |           |                  |           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|---------------------------|-----------|------------------|-----------|---------------------|-----------|------------------|-----------|
|           | Amount Available                                                                                                                  | Required  | Excess (Deficit) | Cash and Cash Equivalents |           | Accounts Payable |           | Accounts Receivable |           | Prepaid Expenses |           |
|           | 2017-2018                                                                                                                         | 2018-2019 | 2019-2020        | 2017-2018                 | 2018-2019 | 2017-2018        | 2018-2019 | 2017-2018           | 2018-2019 | 2017-2018        | 2018-2019 |
| 2017-2018 | 15                                                                                                                                | 15        | 15               | 0.00                      | 0.00      | 15               | 15        | 0.00                | 0.00      | 0.00             | 0.00      |
| 2018-2019 | 15                                                                                                                                | 15        | 15               | 0.00                      | 0.00      | 15               | 15        | 0.00                | 0.00      | 0.00             | 0.00      |
| 2019-2020 | 15                                                                                                                                | 15        | 15               | 0.00                      | 0.00      | 15               | 15        | 0.00                | 0.00      | 0.00             | 0.00      |

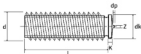
The following statements were also included in the questionnaire, administered to the target population. Each was

[illegible]



## Product Model Breakdown

ZDS - M3 - 6  
 ↓     ↓     ↓  
 Product Thread Screw  
 Code    Code    Length



We have a large stock of products in stainless steel and copper-plated iron materials.

The following table is normally measured for reference only, subject to the actual grade in each item.

|     | Thread Code | d <sub>k</sub> |       | d <sub>p</sub> |      | L    |      | d   |     |
|-----|-------------|----------------|-------|----------------|------|------|------|-----|-----|
|     |             | max            | min   | max            | min  | max  | min  | max | min |
| C 1 | M3          | 4.65           | 4.35  | 0.76           | 0.52 | 0.53 | 0.27 | 1.3 | 0.7 |
|     | M4          | 5.65           | 5.35  | 0.76           | 0.52 | 0.63 | 0.37 | 1.3 | 0.7 |
|     | M5          | 6.68           | 6.32  | 0.88           | 0.62 | 0.73 | 0.47 | 1.4 | 0.8 |
|     | M6          | 7.68           | 7.32  | 0.88           | 0.62 | 0.83 | 0.57 | 1.4 | 0.8 |
|     | M8          | 9.73           | 9.29  | 0.88           | 0.62 | 0.93 | 0.67 | 1.5 | 0.9 |
|     | M10         | 11.72          | 11.29 | 1.1            | 0.85 | 1.03 | 0.77 | 1.5 | 0.9 |
|     | M12         | 14.22          | 13.79 | 1.1            | 0.85 | 1.13 | 0.87 | 1.5 | 0.9 |



## Product Model Breakdown

MPP - 1mm - 2  
 ↓ ↓ ↓  
 Product Thread Length  
 Code Code Code



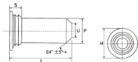
Pin Drawing: Dimensions in this table are in millimeters (inches in parentheses) unless otherwise noted. Values in parentheses are not for production.

| Model | Dimensions<br>(mm (in)) | Lengths<br>(mm (in)) | Thread<br>Pitch (mm) |      | Diameter<br>(mm (in)) | D       |         | D       |         | Pin Center to<br>Mounting Edge |      |
|-------|-------------------------|----------------------|----------------------|------|-----------------------|---------|---------|---------|---------|--------------------------------|------|
|       |                         |                      | mm                   | in   |                       | mm (in) | in (mm) | mm (in) | in (mm) | mm                             | in   |
| MPP   | 100                     | 2, 3, 4, 5           | 0.5                  | .020 | 1.60                  | 1.60    | 0.063   | 1.60    | .063    | 0.40                           | .016 |
|       | 125                     | 3, 4, 5, 6, 8        | 0.5                  | .020 | 1.60                  | 1.60    | 0.063   | 1.60    | .063    | 0.40                           | .016 |
|       | 150                     | 4, 5, 6, 8, 10       | 0.5                  | .020 | 1.60                  | 1.60    | 0.063   | 1.60    | .063    | 0.40                           | .016 |



## Product Model Breakdown

TPS     -     3     -     4  
 ↓             ↓             ↓  
 Product    Thread    Screw  
 Code        Code       Length



We maintain a large stock of products covering stainless steel, galvanized carbon steel, MPF micro positioning pins and imperial series.

The following table are mainly for reference only, subject to the actual products and stock.

| Size | Material | Length |    |    |    | Thread | Thread<br>Pitch (mm) | H ± 0.15 |      | H ± 0.4 |      | S Max | Minimum<br>Thread Length |
|------|----------|--------|----|----|----|--------|----------------------|----------|------|---------|------|-------|--------------------------|
|      |          | 8      | 10 | 12 | 16 | 20     |                      | 1        | 2    | 3       | 4    |       |                          |
| TP3  | Steel    | 8      | 10 | 12 | 16 | 20     | 1.3                  | 1        | 1.40 | 1.3     | 1.39 | 1.4   |                          |
| TP4  | Steel    | 8      | 10 | 12 | 16 | 20     | 1.3                  | 1        | 1.40 | 1.3     | 1.39 | 1.4   |                          |
| TP5  | Steel    | 16     | 18 | 20 | 16 | 20     | 1.3                  | 1        | 1.60 | 1.5     | 1.59 | 1.6   |                          |
| TP6  | Steel    | 16     | 18 | 20 | 16 | 20     | 1.3                  | 1        | 1.60 | 1.5     | 1.59 | 1.6   |                          |

The following table are mainly for reference only, subject to the actual products and stock.

| Size | Material | Length |    |    |    | Thread | Thread<br>Pitch (mm) | H ± 0.005 |       | H ± 0.01 |       | S Max | Minimum<br>Thread Length |
|------|----------|--------|----|----|----|--------|----------------------|-----------|-------|----------|-------|-------|--------------------------|
|      |          | 10     | 12 | 15 | 18 | 20     |                      | 1         | 2     | 3        | 4     |       |                          |
| TP7  | TP304    | 8      | 8  | 10 | 12 | 16     | 1.143                | 0.005     | 0.005 | 0.005    | 0.005 | 0.005 |                          |
| TP8  | TP304    | 8      | 8  | 10 | 12 | 16     | 0.005                | 0.005     | 0.005 | 0.005    | 0.005 | 0.005 |                          |
| TP9  | TP304    | 16     | 8  | 10 | 12 | 16     | 0.005                | 0.005     | 0.005 | 0.005    | 0.005 | 0.005 |                          |



## Product Model Breakdown

|         |   |        |   |        |
|---------|---|--------|---|--------|
| PIN     | - | M3     | - | 4      |
| ↓       |   | ↓      |   | ↓      |
| Product |   | Thread |   | Length |
| Code    |   | Code   |   | Code   |



We have a large stock of products in stainless steel and galvanized carbon steel materials.

The following table is manually measured for reference only, subject to actual product units and size.

|   | P     | Material     |                 | Min Thickness | Quantity Range | D     | H     | Min. Thread |
|---|-------|--------------|-----------------|---------------|----------------|-------|-------|-------------|
|   | ±0.05 | Carbon Steel | Stainless Steel | min           |                | ±0.15 | ±0.25 | min         |
|   |       |              |                 |               |                |       |       |             |
| 1 | 3     | PIN          | PINS            | 0.8           | 3              | 2.05  | 4     | 6.4         |
|   | 4     | PIN          | PINS            | 0.8           | 4              | 2.82  | 5     | 7.1         |
|   | 5     | PIN          | PINS            | 0.8           | 5              | 3.53  | 6     | 7.6         |
|   | 6     | PIN          | PINS            | 0.8           | 6              | 4.24  | 7     | 7.9         |



## Product Model Breakdown

|              |   |                     |   |                 |   |             |
|--------------|---|---------------------|---|-----------------|---|-------------|
| SKS          | - | 6                   | - | 040             | - | 12          |
| ↓            |   | ↓                   |   | ↓               |   | ↓           |
| Product Code |   | Body Dimension Code |   | Sheet Thickness |   | Length Code |



| Product Code | Product Name        | Product Description | Product Code | Product Name        | Product Description |
|--------------|---------------------|---------------------|--------------|---------------------|---------------------|
| SKS          | Supporting Snap Pin | Supporting Snap Pin | SKS          | Supporting Snap Pin | Supporting Snap Pin |

| Product Code | Product Name        | Product Description | Product Code | Product Name        | Product Description |
|--------------|---------------------|---------------------|--------------|---------------------|---------------------|
| SKS          | Supporting Snap Pin | Supporting Snap Pin | SKS          | Supporting Snap Pin | Supporting Snap Pin |

| Product Code | Product Name        | Product Description | Product Code | Product Name        | Product Description |
|--------------|---------------------|---------------------|--------------|---------------------|---------------------|
| SKS          | Supporting Snap Pin | Supporting Snap Pin | SKS          | Supporting Snap Pin | Supporting Snap Pin |

| Product Code | Product Name        | Product Description | Product Code | Product Name        | Product Description |
|--------------|---------------------|---------------------|--------------|---------------------|---------------------|
| SKS          | Supporting Snap Pin | Supporting Snap Pin | SKS          | Supporting Snap Pin | Supporting Snap Pin |



## Product Model Breakdown

SSS - 4mm - 0  
 ↓       ↓       ↓  
 Product Mounting Length  
 Code Hole Code



The following table summarizes dimensions and tolerances for reference only, subject to the actual product. Unit: mm

| Model | Series | Mounting Hole | Product Code | Mounting Hole | Length Code "T" (mm)                  | Length Code "C" (mm) | Length Code "B" (mm) | Length Code "D" (mm) |
|-------|--------|---------------|--------------|---------------|---------------------------------------|----------------------|----------------------|----------------------|
|       |        |               |              |               |                                       | B                    | C                    | D                    |
| SSS   | S00    | S0C           | 4mm          |               | 8 10 12 14 16 18 20 22 24 26 28 30 32 | ±0.10                | 0.05                 | ±0.10                |
|       |        |               |              |               |                                       | ±0.10                | ±0.10                | ±0.10                |

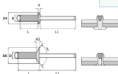
The following table summarizes dimensions and tolerances for reference only, subject to the actual product. Unit: mm

| Model | Series | Mounting Hole | Product Code | Mounting Hole | Length Code "T" (mm)                  | Length Code "C" (mm) | Length Code "B" (mm) | Length Code "D" (mm) |
|-------|--------|---------------|--------------|---------------|---------------------------------------|----------------------|----------------------|----------------------|
|       |        |               |              |               |                                       | B                    | C                    | D                    |
| SSS   | S00    | S0C           | 5mm          |               | 8 10 12 14 16 18 20 22 24 26 28 30 32 | ±0.10                | 0.10                 | ±0.10                |
|       |        |               |              |               |                                       | ±0.10                | ±0.10                | ±0.10                |



## Product Model Breakdown

2.4 - 10  
 ↓ ↓  
 Brim Brim  
 Diameter Length

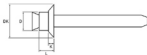


| D            | L  | Brim Length |         | DK           | Brim Diameter | K       | K2      | L1      |
|--------------|----|-------------|---------|--------------|---------------|---------|---------|---------|
|              |    | Minimum     | Maximum |              |               | Minimum | Maximum | Minimum |
| 2<br>±0.07   | 4  | 0.5         | 2.5     | 3.8<br>±0.24 | 2.1           | 1       | 0.9     | 26      |
|              | 6  | 2.5         | 4.5     |              |               |         |         |         |
|              | 8  | 4.5         | 6.5     |              |               |         |         |         |
| 2.4<br>±0.07 | 5  | 0.5         | 2.5     | 4.8<br>±0.24 | 2.5           | 1       | 0.9     | 26      |
|              | 7  | 2.5         | 4.5     |              |               |         |         |         |
|              | 9  | 4.5         | 6.5     |              |               |         |         |         |
| 3.0<br>±0.07 | 5  | 0.5         | 2       | 6<br>±0.24   | 3.1           | 1.4     | 1.2     | 26      |
|              | 7  | 2           | 4       |              |               |         |         |         |
|              | 9  | 4           | 6       |              |               |         |         |         |
|              | 11 | 6           | 8       |              |               |         |         |         |
|              | 13 | 8           | 10      |              |               |         |         |         |
|              | 15 | 10          | 12      |              |               |         |         |         |



## Product Model Breakdown

2.4 - 10  
 ↓ ↓  
 Brim Brim  
 Diameter Length



| D   | L   | Hexagon |     | DR      | shank diameter | K        | Hexagon diameter | Hexagon diameter |
|-----|-----|---------|-----|---------|----------------|----------|------------------|------------------|
|     |     | min     | max |         |                |          | H                | h                |
| 2.4 | 2.1 | 1.2     | 1.5 | 3.0-4.1 | 2.5            | 0.5-0.8  | 600              | 700              |
|     | 2.4 | 1.5     | 2   |         |                |          |                  |                  |
| 3.0 | 2.1 | 1.2     | 1.5 | 4.9-5.5 | 3.1            | 0.75-1.0 | 600              | 700              |
|     | 2.4 | 1.5     | 2   |         |                |          |                  |                  |
|     | 2.8 | 2       | 2.5 |         |                |          |                  |                  |
|     | 3.3 | 2.5     | 3   |         |                |          |                  |                  |
| 3.2 | 2.1 | 1.2     | 1.5 | 4.9-5.5 | 3.3            | 0.75-1.0 | 600              | 700              |
|     | 2.4 | 1.5     | 2   |         |                |          |                  |                  |
|     | 2.8 | 2       | 2.5 |         |                |          |                  |                  |
|     | 3.3 | 2.5     | 3   |         |                |          |                  |                  |
|     | 3.8 | 3       | 3.5 |         |                |          |                  |                  |
|     | 4.3 | 3.5     | 4   |         |                |          |                  |                  |
|     | 4.8 | 4       | 4.5 |         |                |          |                  |                  |
|     | 5.3 | 4.5     | 5   |         |                |          |                  |                  |
|     | 5.8 | 5       | 5.5 |         |                |          |                  |                  |
|     | 6.3 | 5.5     | 6   |         |                |          |                  |                  |



### Mounting Aperture 12.7

Material CR12MOV (High Carbon High Chromium Die Steel), classified as alloy tool steel.



Lower Riveting Die



Upper Riveting Die



Multi-hole Riveting Die



Self-clinching  
Unfastened Die



Expanding Riveting  
Unfastened Die



Expanding Riveting  
Unfastened Die Core



Flaring & Flanging Die



Riveting Die Base