

# KMTA 20 Precision lock nut with locking pins



## Precision lock nut with locking pins

KMTA precision lock nuts have a cylindrical outside surface and are intended for applications where high precision, simple assembly and reliable locking are required. The three equally-spaced locking pins enable these lock nuts to be accurately positioned at right angles to the shaft. However, they can also be adjusted to compensate for slight angular deviations of adjacent components. Maximum axial run-out between the locating face and thread (up to size 40): 0.005 mm.

- No keyway required
- Withstands high axial loads
- Reliable, effective locking mechanism
- Designed for frequent and simple installation and removal
- Available for thread M 25x1.5 to M 200x3 (sizes 5 to 40)

## Overview

### Dimensions

|                    |         |
|--------------------|---------|
| Thread designation | M 100x2 |
| Bore diameter      | 100 mm  |
| Outside diameter   | 130 mm  |
| Width              | 32 mm   |

## Properties

|                            |                              |
|----------------------------|------------------------------|
| Locking device             | Incorporated in the lock nut |
| Nut for hydraulic mounting | No                           |
| Associated mounting tool   | B 120-130                    |

## Technical Specification



### Dimensions

|                |         |  |
|----------------|---------|--|
| G              | M 100x2 | Thread   |
| d <sub>1</sub> | 120 mm  | Outside diameter locating side face                          |
| B              | 32 mm   | Width  |
| d <sub>3</sub> | 130 mm  | Outside diameter   |
| d <sub>4</sub> | 102 mm  | Inner diameter locating side face                            |
| J <sub>1</sub> | 118 mm  | Pitch diameter for pin-type face spanner                     |
| J <sub>2</sub> | 17 mm   | Distance between holes for pin-wrench and locating side face |
| N <sub>1</sub> | 6.4 mm  | Diameter holes for pin-type face spanner                     |
| N <sub>2</sub> | 8 mm    | Diameter holes for pin-wrench                                |

### Calculation data

|                                     |        |
|-------------------------------------|--------|
| Axial static load carrying capacity | 740 kN |
|-------------------------------------|--------|

### Mass

|      |         |
|------|---------|
| Mass | 1.27 kg |
|------|---------|

### Mounting information

|   |           |
|---|-----------|
| Associated spanner (Hook spanner in accordance with DIN 1810) | B 120-130 |
| Set / Locking screw size                                      | M10       |
| Recommended tightening torque                                 | 35 N·m    |

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