



Australian Government  
Department of Industry,  
Science and Resources

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

## Supplementary Certificate of Approval

### NMI S834

Issued by the Chief Metrologist under Regulation 60  
of the  
*National Measurement Regulations 1999*

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Dini Argeo Model SBK1000-1KL Shear Beam Load Cell

submitted by Dini Argeo S.r.l.  
Via della Fisica 20  
41042 Spezzano di Fiorano  
Modena  
Italy

**NOTE:** This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	02/05/23

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S834' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S834' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



**Darryl Hines**  
Manager  
Policy and Regulatory  
Services

TECHNICAL SCHEDULE No S834

**1. Description of Pattern** **approved on 02/05/23**

A Dini Argeo model SBK1000-1KL stainless steel shear beam load cell of 1000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3000 verification scale intervals.

**1.1 Method of Mounting**

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 3.

**1.2 Markings**

Each load cell is marked with either of the following:

Manufacturer's mark, or name written in full	Dini Argeo S.r.l.
Model number	.....
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI S834

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

**2. Description of Variant 1** **approved on 02/05/23**

Certain other capacities and characteristics of the SBK#-1KL series as listed in Table 1.

Type: Dini Argeo SBK#-1KL series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in the form shown below, e.g. the pattern model SBK1000-1KL is of 1000 kg capacity.

TABLE 1

Model Number	#=300	#=500	#=1000	#=2000
$E_{max}$ (kg)	300	500	1000	2000
$E_{min}$ (kg)	0	0	0	0
Accuracy class	C	C	C	C
nLC	3000	3000	3000	3000
$V_{min}$ (kg)	0.03	0.05	0.1	0.2
DR (kg)	0.05	0.083	0.167	0.333
mV/V	2	2	2	2
Input imp. ( $\Omega$ )	1100	1100	1100	1100
Voltage (V)	15	15	15	15
Cable length (m)	5	5	5	5
Number of leads (plus shield)	6	6	6	6

Where:

$E_{max}$	=	Maximum capacity
$E_{min}$	=	Minimum dead load
nLC	=	Maximum number of verification intervals
$V_{min}$	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

### 3. Description of Variant 2

approved on 02/05/23

Certain capacities and characteristics of the Dini Argeo SBK# stainless steel series as listed in Figure 1 and Table 2.

Type: Dini Argeo SBK# series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in the form shown below, e.g. the model SBK1000 is of 1000 kg capacity.

TABLE 2

Model Number	#=300	#=500	#=1000	#=2000
$E_{max}$ (kg)	300	500	1000	2000
$E_{min}$ (kg)	0	0	0	0
Accuracy class	C	C	C	C
nLC	3000	3000	3000	3000
$V_{min}$ (kg)	0.03	0.05	0.1	0.2
DR (kg)	0.05	0.083	0.167	0.333
mV/V	2	2	2	2
Input imp. ( $\Omega$ )	385	385	385	385
Voltage (V)	15	15	15	15
Cable length (m)	5	5	5	5
Number of leads (plus shield)	6	6	6	6

### 4. Description of Variant 3

approved on 02/05/23

Certain capacities and characteristics of the Dini Argeo SBK#C6 stainless steel series as listed in Figure 1 and Table 3.

Type: Dini Argeo SBK#C6 series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in the form shown below, e.g. the model SBK1000C6 is of 1000 kg capacity.

TABLE 3

Model Number	#=500	#=1000	#=2000
$E_{max}$ (kg)	500	1000	2000
$E_{min}$ (kg)	0	0	0
Accuracy class	C	C	C
nLC	6000	6000	6000
$V_{min}$ (kg)	0.033	0.067	0.133
DR (kg)	0.034	0.068	0.135
mV/V	2	2	2
Input imp. ( $\Omega$ )	1100	1100	1100
Voltage (V)	15	15	15
Cable length (m)	5	5	5
Number of leads (plus shield)	6	6	6

**5. Description of Variant 4**

**approved on 02/05/23**

Certain capacities and characteristics of the Dini Argeo SBX#-1KL stainless steel series as listed in Figure 2 and Tables 4 and 5.

Type: Dini Argeo SBX#-1KL series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in the form shown below, e.g. the model SBX1000-1KL is of 1000 kg capacity.

TABLE 4

Model Number	#=500	#=1000
$E_{max}$ (kg)	500	1000
$E_{min}$ (kg)	0	0
Accuracy class	C	C
nLC	3000	3000
$V_{min}$ (kg)	0.05	0.1
DR (kg)	0.083	0.167
mV/V	2	2
Input imp. ( $\Omega$ )	1100	1100
Voltage (V)	15	15
Cable length (m)	5	5
Number of leads (plus shield)	6	6

TABLE 5

Model Number	#=2100	#=2500	#=3000	#=4500	#=10000
$E_{max}$ (kg)	2100	2500	3000	4500	10 000
$E_{min}$ (kg)	100	100	100	200	400
Accuracy class	C	C	C	C	C
nLC	3000	3000	3000	3000	3000
$V_{min}$ (kg)	0.110	0.132	0.158	0.237	0.526
DR (kg)	0.35	0.417	0.5	0.75	1.667
mV/V	2	2	2	2	2
Input imp. ( $\Omega$ )	1100	1100	1100	1100	1100
Voltage (V)	15	15	15	15	15
Cable length (m)	5	5	5	5	5
Number of leads (plus shield)	6	6	6	6	6

FIGURE S834 – 1



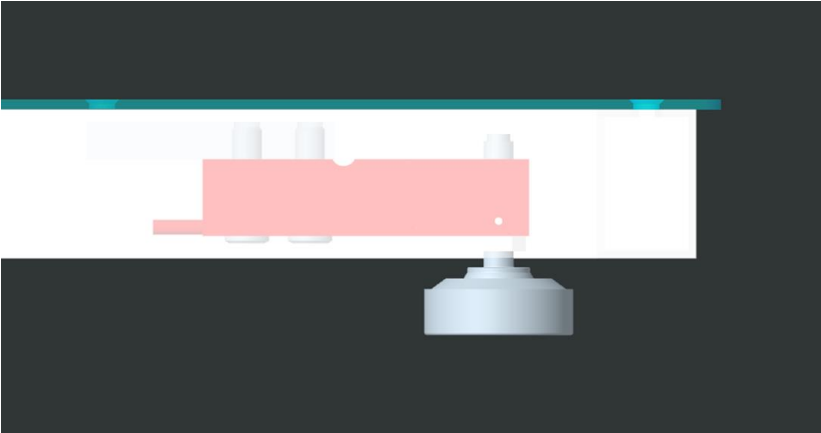
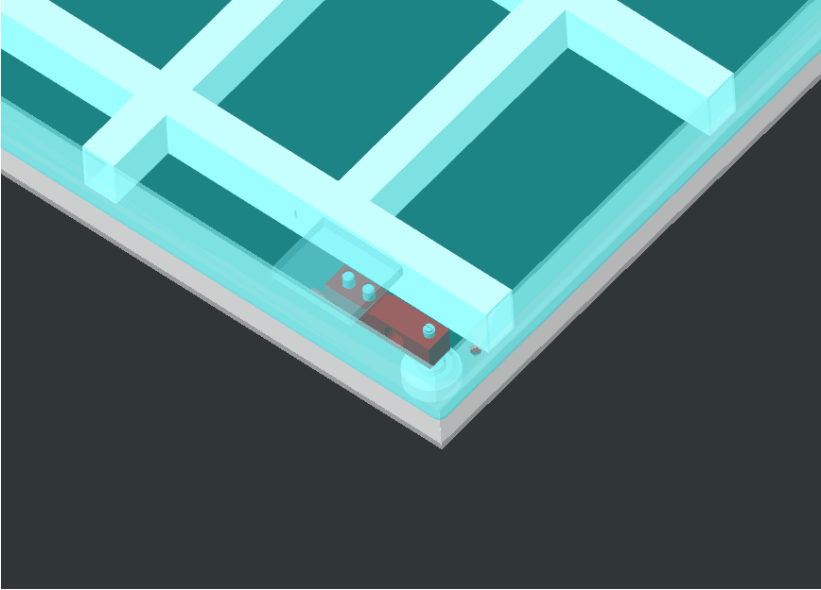
Dini Argeo Model SBK/SBK-1KL/SBKC6 Series Load Cell

Figure S834 - 2



Dini Argeo Model SBX-1KL Series Load Cell

FIGURE S834 – 3



Typical Mounting Arrangement

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