KL Series

Safety Chucks

Montalvo KL Series Safety Chucks

Montalvo's line of Safety Chucks were designed for easy installation and long service life. They provide a safe and effective way of coupling torque devices to shafted unwinds or rewinds. Heavy duty bearing design ensures maximum load and speed capacities for most converting applications. The easily replaceable journal seat / wheel assembly supports a variety of shaft journal configurations without modification. Tightly held journal seat insert tolerances also provide superior roll winding/unwinding concentricity. Fixed or sliding shaft models combined with numerous options offer a wide range of features. Montalvo's reliable and cost effective safety chucks are available individually or as part of a complete Montalvo web control system.

Features

- Hardened chuck journal seat
- Variety of journal profiles available
- Available with pre-installed Montalvo brake
- Simple and quick journal seat / wheel assembly replacement

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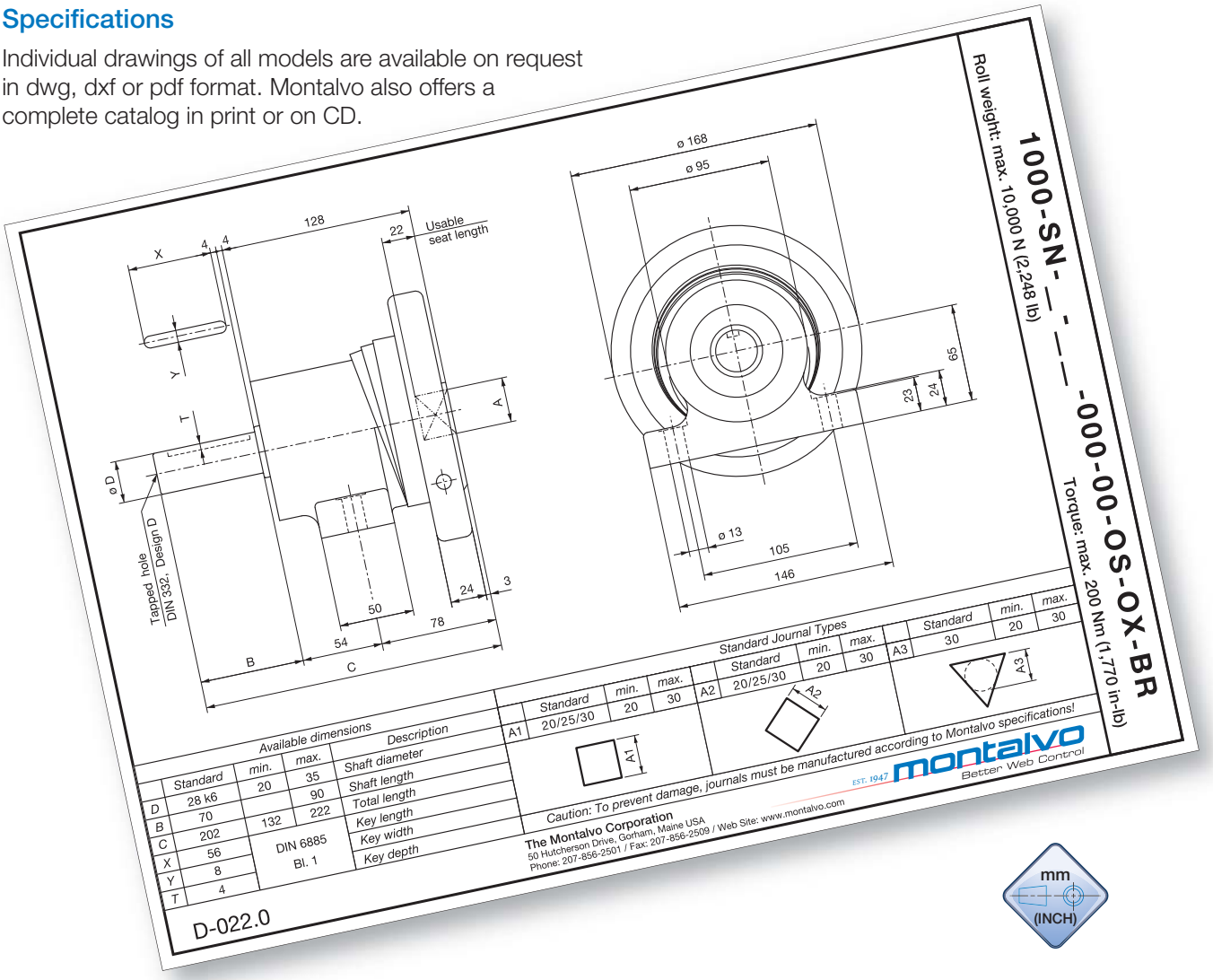
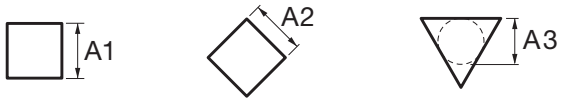
Specifications

Individual drawings of all models are available on request in dwg, dxf or pdf format. Montalvo also offers a complete catalog in print or on CD.



Chuck Capacity & Journal Dimensions



Model	Max. Roll Weight* N (lb)	Max. Torque** Nm (in-lb)	Max. Shaft Extension mm (in.)	Normal Square Journal Seat **A1** = mm (in.)	V-Type Square Journal Seat **A2** = mm (in.)	Triangle Journal Seat **A3** = mm (in.)
500	5,000 (1,124)	130 (1,151)	Ø30k6 x 70 (2.75)	19-25 (0.75-1.000)	19-25 (0.75-1.000)	22 (0.866)
1000	10,000 (2,248)	200 (1,770)	Ø35k6 x 90 (3.54)	20-30 (1.000-1.25)	20-30 (1.000-1.25)	20-30 (0.787-1.181)
1800	18,000 (4,047)	380 (3,363)	Ø50k6 x 100 (3.94)	30-40 (1.25-1.50)	30-40 (1.25-1.50)	32-38 (1.260-1.496)
3000	30,000 (6,744)	1,200 (10,621)	Ø65k6 x 140 (5.51)	40-50 (1.50-2.00)	40-50 (1.50-2.00)	40-47 (1.575-1.850)

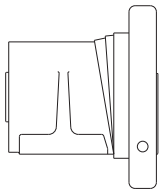
* Max. Roll Weight must be reduced for V-Type Square Journal Seat (**A2**) by 25 to 30% depending on torque, speed and deflection of winding shaft.

** Max. Torque must be reduced for V-Type Square Journal Seat (**A2**) by 40 to 50% depending on torque, speed & deflection of winding shaft.

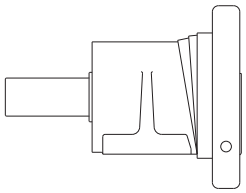
Normal Safety Chucks

Pedestal Mount (SN)

Available for all models (KL-3000 shown)



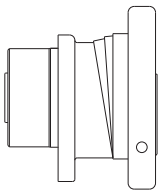
Without Shaft End



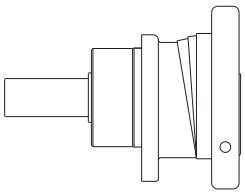
With Shaft End

Flange Mount (FN)

Available for all models (KL-3000 shown)



Without Shaft End

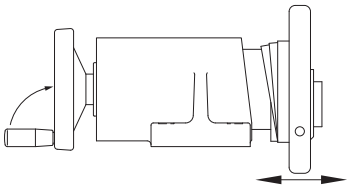


With Shaft End

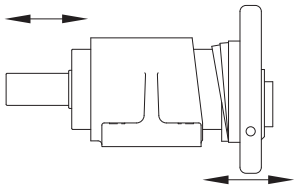
Sliding Safety Chucks

Pedestal Mount (SS)

Available model - KL-1800 (shown)



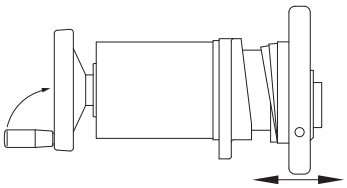
Hand Wheel Drive



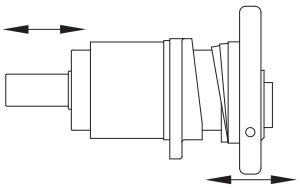
Sliding Shaft End

Flange Mount (FS)

Available model - KL-1800 (shown)



Hand Wheel Drive



Sliding Shaft End

Represents 50 or 100 mm *Axial Adjustment*

Journal Seat Types / Advantages

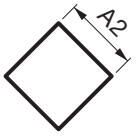
Types / Advantages

Available for all models

SQUARE:

Max. reel weight capacity
Max. torque capacity
Cost effective

V-TYPE SQUARE:



Easy loading
Less vibration

TRIANGLE:

Max. reel weight capacity
Max. torque capacity
Easy loading
Less vibration
Optimal at higher rpm

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KL 1000 Normal / Flange Mount Safety Chuck

Options

Hand Wheel Safety Lock

Prevents unintentional opening of the hand wheel.

Axial Carrier

Maintains precise shaft positioning and axial adjustment.

Conical Chuck Journal Seat

Allows use of simple journals without the risk of excessive stress and wear. This is a cost effective alternative to machining journals with difficult and expensive undercuts.

Hand Wheel Open/Closed Indication

Indicates whether hand wheel is open or closed via an electronic sensor.

Hand Wheel Opening Position Indication

Indicates when hand wheel is in precise open position via an electronic sensor.

High Speed Safety Chuck

Handles web speeds in excess of 300m (980 ft.) per minute. This is achieved by balancing the hand wheel (with safety lock) and shaft.

Long Housing Design

Extends shaft position up to 100mm away from standard for mount clearance and/or coupling alignment.

KL Safety Chuck mounted to a V Series Brake

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EST. 1947 montalvo Better Web Control®