

Product Code No.

Product Code

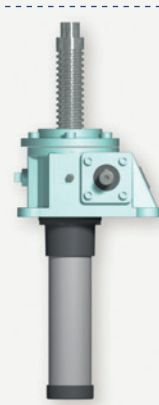
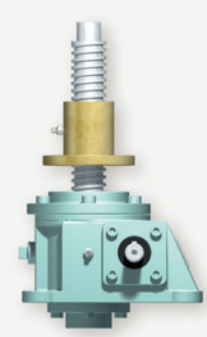
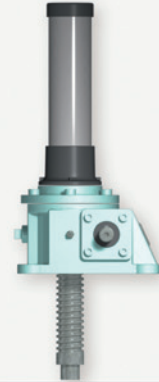
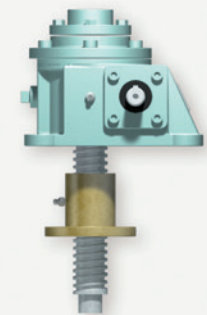
While offering wide-ranged jacks, we are using 13-digit product codes to identify a specific jack. Please use the product code, when you contact us.

J2G HUK

How to Use This Catalog

Jack series/size code			
Series/Size Code	(Capacity : kN)	H	L
RMG,RMY	(2)	3	-
RSG,RSY	(5)	5	24
JOG,JOY	(10)	5	24
J1G	(25)	6	24
J2G	(50)	6	24
J3G	(100)	8	24
JGA	(150)	8	24
J4A	(200)	8	24
J5A	(300)	10 ^{2/3}	32
J6A	(500)	10 ^{2/3}	32
JFA	(750)	10 ^{2/3}	38
J7A	(1000)	12 ^{2/3}	36
RSB,RSF	(4)	5	24
JOB,JOF	(10)	5	24
J1B,J1F	(25)	6	24
J2B,J2F	(50)	6	24
J3B,J3F	(100)	8	24
J4B,J4F	(200)	8	24
J5B	(300)	10 ^{2/3}	32
J6B	(500)	10 ^{2/3}	32
JFB	(750)	10 ^{2/3}	38
J7B	(1000)	12 ^{2/3}	36
RMS	(2)	3	-
RSS	(5)	5	24
JMR	(2)	-	-
JSR	(4)	-	-
JSH	(5)	3	-
JOH	(10)	3	-
J1H	(25)	3.64	-
J2H	(50)	4	-

Worm gear ratio
Some models do not have "L" type.
For rack jacks, always indicate as "H".

Profile		Profile	
Translating		Traveling nut type	
U Upright		U Upright	
I Inverted		I Inverted	

Lifting screw spec.		Lifting screw spec.	
N Without anti-rotation key		T Traveling nut type	
K With anti-rotation key			

Example:

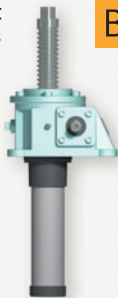
“J2GHUK0600BCE” refers to J2G series screw jack, with the worm gear ratio of 6, inverted, with the anti-rotation key, stroke length of 600 mm, with bellows, with clevis, and with RC encoder.

0600 BCE

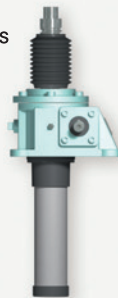
Stroke length
4-digit in mm

Dustproof bellows

N Without bellows



B With bellows



End fittings / Orientation of traveling nut

※“U” and “D” are traveling nut only.

B Plain end



S No end fitting



C Clevis end



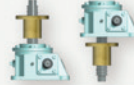
D Traveling nut for downward movement



F Flange



U Traveling nut for upward movement



Control accessories

N No control accessory



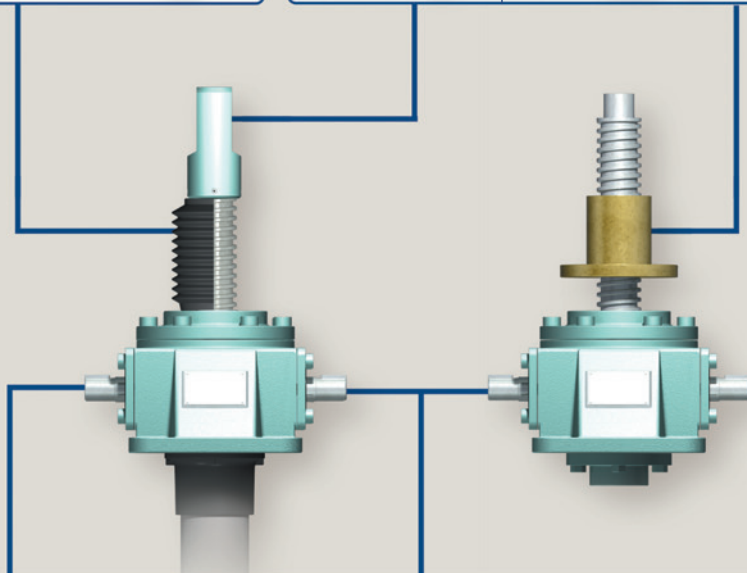
L With geared limit switch

→ P174



E With RC encoder

→ P178

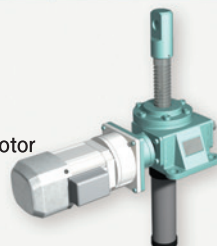


Option

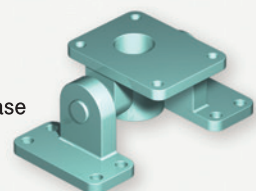
Handle
→ P187



Geared motor
→ P160



Trunnion base
→ P187

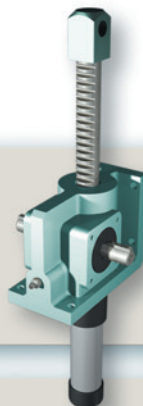
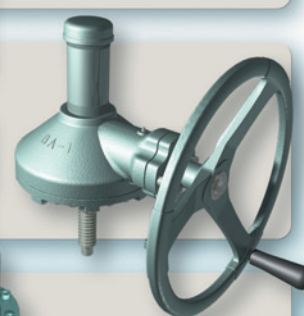
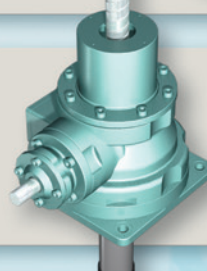
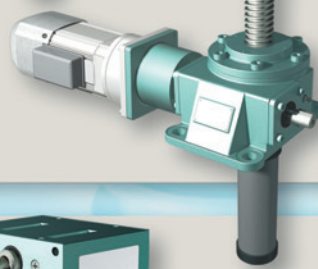
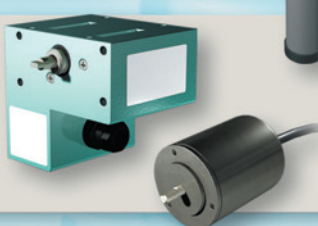
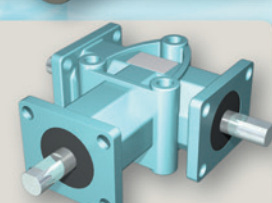
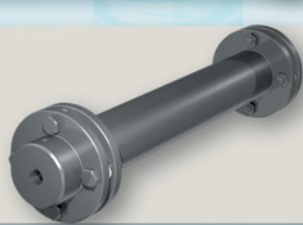


Product Line-up

List of Jack Models

How to Use This Catalog

01	<p>■ 01/ Small Screw Jack</p> <h3>Small Screw Jack</h3> <p>2, 5kN Trapezoidal screw, small type</p> <p>•RMG •RSG</p>	<p>Trapezoidal screw Standard lead</p> <p>With self-locking function</p>	
02	<p>■ 02/ Screw Jack</p> <h3>Screw Jack</h3> <p>10~1000kN Trapezoidal screw, standard type</p> <p>•J0G~J3G •JGA~J7A</p>	<p>Trapezoidal screw Standard lead</p> <p>With self-locking function</p>	
03	<p>■ 03/ Ball Small Jack</p> <h3>Ball Small Jack</h3> <p>4kN Ball screw, small type</p> <p>•RSB</p>	<p>Ball screw Standard lead</p> <p>Without self-locking function</p>	
04	<p>■ 04/ Ball Screw Jack</p> <h3>Ball Screw Jack</h3> <p>10~1000kN Ball screw, standard type</p> <p>•JOB~J7B</p>	<p>Ball screw Standard lead</p> <p>Without self-locking function</p>	
05	<p>■ 05/ High-Head Screw Jack</p> <h3>High-Lead Screw Jack</h3> <p>2~10kN Trapezoidal screw, high-speed type</p> <p>•RMY •RSY •JOY</p>	<p>Trapezoidal screw High lead</p> <p>Without self-locking function</p>	
06	<p>■ 06/ High-Head Ball Screw Jack</p> <h3>High-Lead Ball Screw Jack</h3> <p>4~200kN Ball screw, high-speed type</p> <p>•RSF~J4F</p>	<p>Ball screw High lead</p> <p>Without self-locking function</p>	
07	<p>■ 07/ Smoothy Screw Jack</p> <h3>Smoothy Screw Jack</h3> <p>2, 5kN SUS screw + engineering plastic gear</p> <p>•RMS •RSS</p>	<p>Special screw Standard lead</p> <p>Without self-locking function</p>	

08	<p>■ 08/ Rack Jack</p> <h2>Rack Jack</h2> <p>2, 4kN High efficiency</p> <p>• JMR • JSR</p>	<p>Rack shaft Pinion</p> <p>Without self-locking function</p>	
09	<p>■ 09/ Bevel Gear Type Jack</p> <h2>Bevel Gear Type Jack</h2> <p>10~300kN</p> <p>• BAD0C~BA25A</p>	<p>Trapezoidal screw Standard lead</p> <p>With self-locking function</p>	
10	<p>■ 10/ Hi Speed Jack</p> <h2>Hi-Speed Jack</h2> <p>5~50kN High-speed, high duty cycle</p> <p>• JSH~J2H</p>	<p>Ball screw High lead</p> <p>Without self-locking function</p>	
11	<p>■ 11/ Geared Motor Jack</p> <h2>Geared Motor Jack</h2> <p>Motor capacity : 0.1~3.7kN Geared motor reduction ratio : $i = 3, 5, 10$</p>	<p>Jack with the built-in geared motor</p>	
12	<p>■ 12/ Option</p> <h2>Option</h2> <p>• Geared limit switch • Encoder • Handwheel • Trunnion base</p>	<p>Supporting the jacks</p>	
13	<p>■ 13/ Gearbox</p> <h2>Gear box</h2> <p>• K • KN</p>	<p>Gear box for interlocked jack system</p>	
14	<p>■ 14/ Coupling</p> <h2>Coupling</h2> <p>• SFS-W • SFS-G</p>	<p>Coupling for interlocked jack system</p>	



Selection of Jack Series/Size

Nippon Gear's jack series consists of 11 categories.

The following chart shows our product lineup by intended use.

* There are some overlaps in terms of performance. Please compare/consider jacks that satisfy your use conditions.

Selection based on intended use

Want to use without supplying oil/grease

YES **NO**

Mainly driven by the handwheel

YES **NO**

Need self-locking function

YES **NO**

Lower speed is acceptable

YES **NO**

Small capacity is acceptable

YES **NO**

Need higher speed

YES **NO**

Need higher efficiency

YES **NO**

Need higher duty cycle

YES **NO**

Smoothy Screw Jack 07
 Bevel Gear Type Jack 09
 Screw Jack 02

RMS	2kN	BA	10kN	JOG	10kN
RSS	5kN		300kN	J7A	1000kN

High-Lead Screw Jack 05

RMV	2kN
RSY	5kN
JOY	10kN

Rack Jack 08
 High-Lead Ball Screw Jack 06
 Ball Screw Jack 04

JMH	2kN	RSF	4kN	JOB	10kN
JSR	4kN	J4F	200kN	J7B	1000kN

In case of using a motor for the max. load of 100 kN

Geared Motor Jack 11

RMG	2kN	RSB	4kN
J3G	100kN	J3B	100kN

Small Screw Jack 01

RMG	2kN
RSG	5kN

Hi-Speed Jack 10

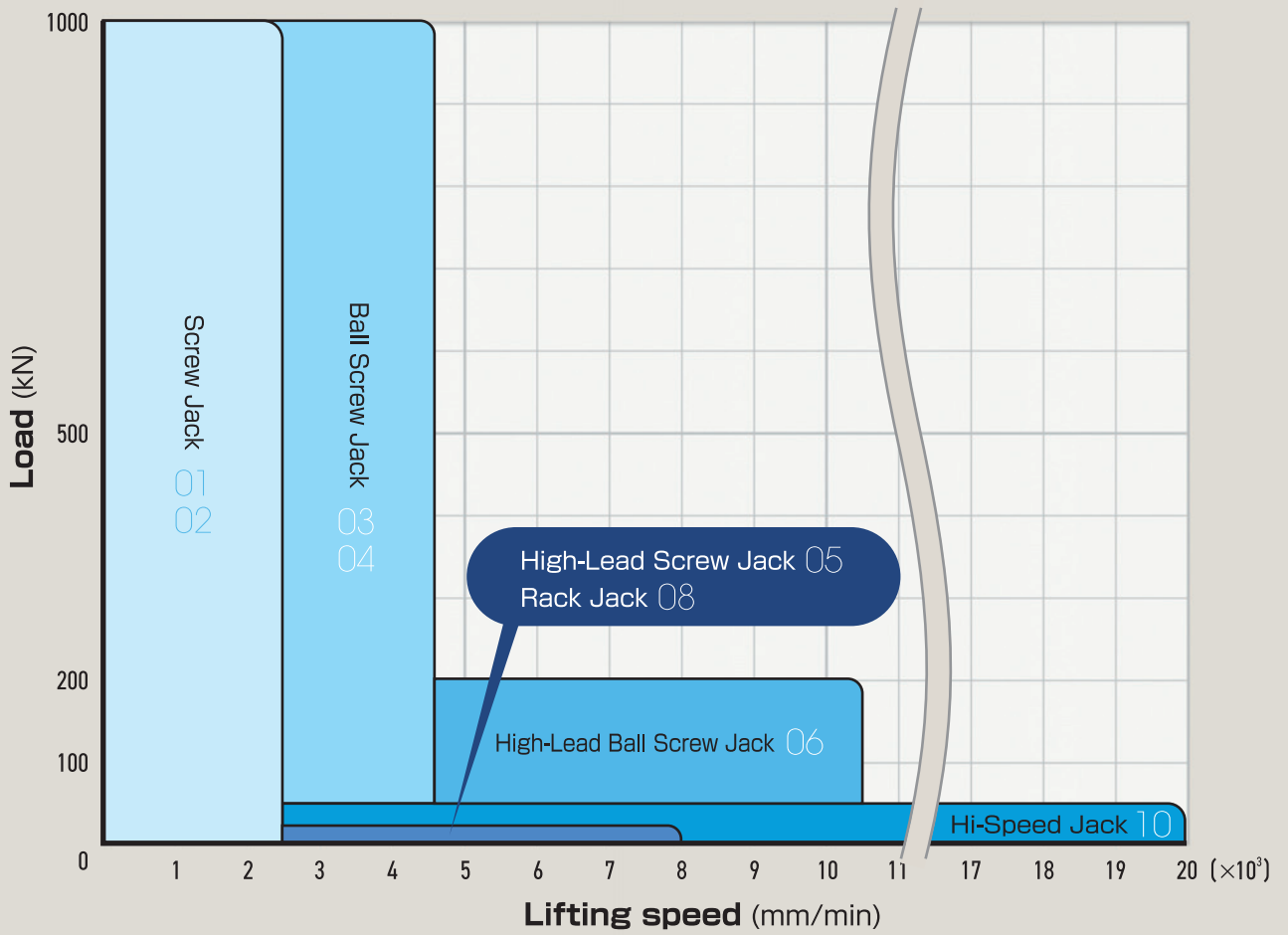
JSH	5kN
J2H	50kN

Ball Small Jack 03

RSB	4kN
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* We will manufacture various customized products that satisfy customers' needs. If you need customization, please consult with us.

Selection based on load and speed



■ For more details of the selection method, please refer to p.214.

Inquiry Form about Jack: Required Specifications 1/2

Date: _____

<ul style="list-style-type: none"> • Company Name: • Department: • Contact Person: • TEL • FAX • E-mail 	<ul style="list-style-type: none"> • Customer Name: • User Name: • Machine Name: -Intended use: <input type="checkbox"/> Lifting <input type="checkbox"/> Tilting <input type="checkbox"/> Pushing up <input type="checkbox"/> Opening/closing -Necessary function: <input type="checkbox"/> Transfer <input type="checkbox"/> Adjustment <input type="checkbox"/> Holding <input type="checkbox"/> Constant quantity
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Selected model / product code Quantity: _____ unit(s)

<ul style="list-style-type: none"> • Required stroke: _____ mm • Worm gear ratio: i= _____ • Screw lead: L= _____ mm

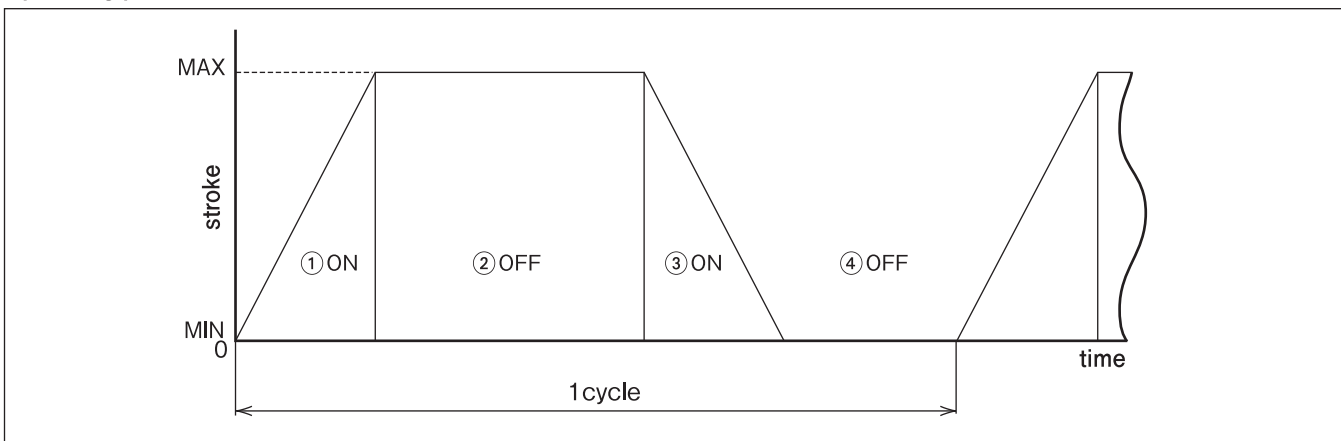
Load conditions per jack (see the bellow figure)

①	Dynamic load	kN/jack	• Lifting speed	mm/min	• Operating time:	sec.	min.
ON	Load direction: <input type="checkbox"/> Compressive load <input type="checkbox"/> Tension load		• Input rotation speed	min ⁻¹			
②	Static load	kN/jack	• Non-operating time:	sec.	min.		
OFF	Load direction: <input type="checkbox"/> Compressive load <input type="checkbox"/> Tension load						
③	Dynamic load	kN/jack	• Lifting speed	mm/min	• Operating time:	sec.	min.
ON	Load direction: <input type="checkbox"/> Compressive load <input type="checkbox"/> Tension load		• Input rotation speed	min ⁻¹			
④	Static load	kN/jack	• Non-operating time:	sec.	min.		
OFF	Load direction: <input type="checkbox"/> Compressive load <input type="checkbox"/> Tension load						

<ul style="list-style-type: none"> • Service frequency: reciprocations/min reciprocations/hour <li style="padding-left: 180px;">reciprocations/day days/year • Expected life: years
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<ul style="list-style-type: none"> • Mounting conditions in case of compressive load: <li style="padding-left: 20px;"><input type="checkbox"/> Jack fixed – shaft end free <li style="padding-left: 20px;"><input type="checkbox"/> Jack supported – shaft end supported <li style="padding-left: 20px;"><input type="checkbox"/> Jack fixed – shaft end supported • Side Force: <input type="checkbox"/> None <input type="checkbox"/> Applied N
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Operating pattern



Inquiry Form about Jack: Required Specifications 2/2

• Mounting	<input type="checkbox"/> Vertical	<input type="checkbox"/> Horizontal
• Profile	<input type="checkbox"/> Upright	<input type="checkbox"/> Inverted
• Dust-proof bellows	<input type="checkbox"/> Necessary	<input type="checkbox"/> Not necessary
• Lifting type	<input type="checkbox"/> Translating (screw shaft)	<input type="checkbox"/> Traveling nut type
		Orientation of traveling nut <input type="checkbox"/> Upward <input type="checkbox"/> Downward
• Anti-rotation key	<input type="checkbox"/> Necessary	<input type="checkbox"/> Not necessary
• End fitting	<input type="checkbox"/> No fitting	<input type="checkbox"/> Plain end
	<input type="checkbox"/> Clevis	<input type="checkbox"/> Flange

• Driving power source	<input type="checkbox"/> Manual	<input type="checkbox"/> Need handwheel (diameter mm)	<input type="checkbox"/> No handwheel
	<input type="checkbox"/> General-purpose motor		
	<input type="checkbox"/> Geared motor	(Geared motor reduction ratio: $i =$)	
	<input type="checkbox"/> Servo motor		
• Motor	<input type="checkbox"/> Direct-connected	<input type="checkbox"/> On the right (Power: kW)	<input type="checkbox"/> On the left (Power source: phase P)
		<input type="checkbox"/> Separate (V Hz)	
• Arrangement by	<input type="checkbox"/> Yourself	<input type="checkbox"/> Nippon Gear (<input type="checkbox"/> With brake <input type="checkbox"/> Without brake)	

• Control Accessories	<input type="checkbox"/> Not necessary			
	<input type="checkbox"/> Necessary	<input type="checkbox"/> Limit switch	<input type="checkbox"/> 2 contacts	<input type="checkbox"/> 4 contacts
			<input type="checkbox"/> RF <input type="checkbox"/> RU <input type="checkbox"/> RR <input type="checkbox"/> RD))
			<input type="checkbox"/> LF <input type="checkbox"/> LU <input type="checkbox"/> LR <input type="checkbox"/> LD)	
	<input type="checkbox"/> RC encoder	Product code: Mounting direction symbol <input type="checkbox"/> R <input type="checkbox"/> L		

• Usage environment	<input type="checkbox"/> Indoor	<input type="checkbox"/> Outdoor	(<input type="checkbox"/> Exposed to rain <input type="checkbox"/> Not exposed to rain)	
	-Dust level	<input type="checkbox"/> No dust	<input type="checkbox"/> Low dust level	<input type="checkbox"/> High dust level
• Ambient temperature	°C ~ °C			
• Vibration/Shock	<input type="checkbox"/> None, quiet environment			
	<input type="checkbox"/> Light vibration/shock			
	<input type="checkbox"/> Heavy vibration/shoc			
• Corrosion-resistant screw	<input type="checkbox"/> Not necessary			
	<input type="checkbox"/> Necessary	(<input type="checkbox"/> SUS 304 <input type="checkbox"/> SUS420)		
• Seal structure	<input type="checkbox"/> Not necessary	<input type="checkbox"/> Necessary		

Preferred date of delivery:

Filled by:

Signature /Seal