

GORBEL
A CLASS ABOVE

The leader in crane technology
and ergonomic lifting

PRECISION

01011010

SPEED

STRENGTH

INTELLIGENCE

ELECTRIC
SERVO
POWERED
INTELLIGENT
LIFTING
DEVICES

THE
SMARTER
WAY TO
LIFT:
G-FORCE® &
EASY ARM®

Korea Crane Engineering(KCE Inc)

INTELLIGENT LIFTING TECHNOLOGY

Gorbel's G-Force® and Easy Arm® devices are part of an exciting new family of material handling equipment known as Intelligent Assist Devices (IADs). They use exclusive patented technology and an industrial processor controlled servo drive system to deliver unmatched lifting precision and speed. Their fusion of advanced technology and basic human guidance maximizes productivity while minimizing the risk of injury to the operator.

There are two models of Gorbel Intelligent Lifting Devices to choose from: the Q and the iQ. The Q model is our feature packed base model. It offers the same speed and precision as our higher-end iQ model, but without the added Input/Output features that the iQ offers. The iQ model offers a wealth of additional intelligence features.

GORBEL
A CLASS ABOVE

Since 1977, Gorbel has specialized in overhead material handling solutions, providing the highest quality and the highest performance. We are the leading supplier of Work Station Crane systems, offering near perfect on-time delivery, a focus on customer service, and the industry's best warranty.

Now you'll find that same level of quality in our G-Force® and Easy Arm® Intelligent Lifting Devices. These innovative units enable operators to lift and maneuver naturally, as if the devices were an extension of their arms. Our Q and iQ model Intelligent Lifting Devices will help improve productivity, reduce the cost of product damage, and minimize work-related injuries.

www.gorbel.com
www.newkce.com

Korea Crane Engineering(KCE Inc)



ANTI-RECOIL TECHNOLOGY

This prevents the G-Force® and Easy Arm® units from moving or recoiling when there is a sudden change in load, reducing the risk of potentially serious injury.

INFINITE SPEED CONTROL

Gorbel's Intelligent Lifting Devices move with the operator. They move as fast or as slow as the operator chooses to move. They are ideal for applications that require high speed at some points in the cycle and slow, precise movements at other points.

POWER LOSS PROTECTION

A fail safe load braking system locks the unit in place in the event of a power loss.

BLAZING SPEEDS

With G-Force® speeds reaching 200 fpm (61 mpm) and Easy Arm® speeds reaching 180 fpm (55 mpm), these devices travel up to 4 times faster than traditional high-end lifting devices currently on the market, making them the fastest, most precise lifting devices on the planet.

OPERATOR PRESENT FUNCTION

The handle grip of our Intelligent Lifting Devices uses a built-in photosensor that doesn't allow the unit to move unless the operator initiates the movement.

CAPACITY OVERLOAD

The units will not lift if the load exceeds their rated capacity.

THE SAFE ALTERNATIVE

Operators want to use our G-Force® technology because it's easy to learn and easy to use. Our Intelligent Lifting Devices are safer than manual lifting and dramatically reduce worker injury cost.

FLOAT MODE

The G-Force® and Easy Arm® units offer our versatile Float Mode. With a mere 1/2 lb (227 g) of force on the load itself, operators can precisely orient loads throughout the full stroke range by manipulating the load with their hands.

PINPOINT PRECISION

Our Intelligent Lifting Devices deliver unparalleled precision with speeds of less than 1 fpm (0.3 mpm). This gives the operator the control necessary to finesse expensive or fragile parts.



G-FORCE

G-FORCE® Q AND IQ BRIDGE CRANE MOUNTED INTELLIGENT LIFTING DEVICE

정밀도, 리프팅 파워 및 속도가 필수적인 경우, Gorbel의 특허 G-Force® 지능형 리프팅 장치를 추천드립니다. 에어 밸런서보다 반응이 빠른 정밀한 브릿지 크레인 탑재 G-Force® 은 안전성, 생산성 및 품질을 향상시켜 작업 결과를 직접적으로 향상시킵니다.

CHOOSE A BRIDGE MOUNTED CRANE CONFIGURATION FOR:

- Higher capacities: 75, 165, 300, and 660 kg
- Faster speeds: maximum speeds up to 60m/min
- 뛰어난 반응성: 빠른 가속과 감속

APPLICATIONS:

- 자동화 장치 제조 (engines, transmissions, chassis components)
- 중장비 제조업
- 공구 및 다이 교체
- 천연 가스 및 석유 산업 (valves, drilling components, etc)
- 반복적인 리프팅
- 부품 조립
- 가공업
- 공정장비 유지 보수

CASE STUDY

G-FORCE® Q: DAMAGE AND INJURY RISK “VIRTUALLY” ELIMINATED



Atlas Copco's gas and process division makes turbo compressors and expansion turbines that are used for natural gas processing and power generation. At an assembly facility where components for these large compressors are assembled, multiple work processes were sharing a single overhead crane system. Workers would often be at a stand-still while a co-worker used the crane, or would forgo the crane altogether and risk injury by lifting heavy parts by hand.

The company decided to target the highthroughput milling applications for a process change, and installed Gorbels work station cranes to eliminate the productivity delays caused by the shared crane. While the new cranes eliminated that problem, finding a lifting device to fit the application was a challenge due to the size of the load and the sensitive machinery it was being placed into.

In this work cell, 5-15" in diameter stainless steel cylinders that range from 15 to 400 pounds are milled down from bell shaped impeller blanks into the finished impeller with razor sharp edges. Moving the parts by hand posed multiple injury risks and a high potential for damage.

"We're lifting very heavy steel cylinders and trying to place them with precision into the milling machine without damaging the part or the machine," said Diehl. "We needed something that gave us a lot of control."

The company selected a 660 pound capacity G-Force® Q. Atlas Copco had considered other devices, but felt they would have the most control with the G-Force® after seeing a demo of the unit's virtual limits package, Float Mode feature, and overall smooth movement.

An operator now secures the impeller blanks into the tooling grip that Atlas Copco designed, which locks onto the blanks' outer rim. Once secured, the operator engages Float Mode on the G-Force® handle, and then moves the load up and down by holding the gripping tool or the load itself.



EASY ARM

EASY ARM® Q AND IQ INTELLIGENT LIFTING ARM

Easy Arm® 지능형 리프팅 암은 G-Force® 리프팅 장치와 관절 형 크레인의 조합입니다. 플러그 앤 플레이 리프팅 솔루션을 찾는 경우 이상적인 솔루션입니다. 인체 공학적 관절 형 크레인의 몸체에 G-Force® 리프팅 기술 및 프로세서 제어 전기 서보 드라이브 시스템의 모든 힘, 정밀도 및 속도를 제공합니다.

CHOOSE FREE STANDING EASY ARM® FOR:

- 최소 36cm 작업 반경 내의 협소한 공간에서도 설치 가능
- Capacities of 165, 330, and 660 lbs (75, 150, 330 kg)
- 간편한 설치
- 기초 공사 불필요
- 간편한 바닥 볼팅 작업으로 바닥 시공이 가능

CHOOSE UNDER HUNG EASY ARM® FOR:

- 바닥 공간 절약
- 후크 높이 28cm

APPLICATIONS:

- 작업공간과 간섭물 주변에 접근가능
- 배기 후드같은 높이가 높은 제품에 접근가능
- 기계 안쪽에 도달 가능

CASE STUDY



EASY ARM® Q: INCREASES PRODUCTIVITY, LIFTS 5X AS MANY PARTS



A major tier one auto parts supplier stamps round sheet metal blanks into clutch hubs and clutch housings for automatic transmissions.

The thin blanks range in diameter from 6-14" and weigh up to 8 pounds each.

They arrive in a bin and were manually loaded into the transfer press.

In order to load the blanks into the press, operators had to bend over the edge of the bin, grab as many blanks as they could hold, and then turn and carry them to the loading turn table. By the end of worker's shift, fatigue would set in and productivity would drop. Many workers complained of back strain and fatigue, while others suffered cuts to the hands, and wrist, plus elbow and shoulder pain.

After a new stamp press was installed, the company looked for a better handling solution. The company installed a 330 pound capacity Easy Arm® Q with an 8' span in the loading bay of their stamp press. The project integrator, Pressline Equipment, worked with Starquip of Ontario, Canada to design a pneumatic gripping tool that enabled operators to reach into the bin, grip about 150 pounds of blanks and effortlessly guide them into the spindles on the loading table. This is about 5-times as many blanks as they were able to lift manually. The result was faster cycle times, less worker fatigue, and no more productivity drop-off near the end of a shift.

"We were very pleased with the initial results," said the company's Environmental, Health & Safety Manager. "We had no more repetitive use injuries among Easy Arm® users, and workers are moving faster with less fatigue. We have older ladies who are able to do this job now with no problems. We wouldn't be buying a second unit if we had any doubts about it."

<<< Portable Base

Instead of bolting your free standing unit to the floor, our optional portable base gives you a stable base that you can move anywhere in your facility. The base shown is for smaller Easy Arms. Larger units may require a different portable base. Contact your Gobel dealer to learn more.



INNOVATIVE HANDLE DESIGN

G 360™ Swivel Assembly

G-Force® 지능형 리프팅 장치에는 코일 코드 또는 선택 사양 공기 코일의 전기 도체를 손상시키지 않고 손잡이를 계속 회전시킬 수 있는 콜렉터 / 에어 스위블이 결합되어 있습니다. 운전자가 손잡이를 계속 돌리며 작동시켜야 하는 톨링에 이상적입니다

LCD Display

핸들의 백라이트 디스플레이는 메뉴 스타일 설정을 표시합니다. 가상 한계 및 속도 감소 점과 같은 기능을 제공합니다. 또한 작동 모드, 무게 판독 값, 진단 정보 및 오류 코드와 같은 중요한 정보를 사용자에게 전달합니다.

Operator Present Function

Intelligent Lifting Devices의 핸들 손잡이는 내장된 포토 센서를 사용하므로 안전합니다. 특정 장치의 조작없이 핸들의 센싱으로 바로 작동이 가능합니다.

Ergonomic Handle Design

작업자의 편안함을 염두하여 디자인되었습니다. 모양, 크기 및 재질은 손의 곡선에 맞게 신중하게 계획되었으며 고무, 질감 코팅을 그림감을 최대한 시키는데 중점을 두었습니다.

Q AND IQ HANDLE CONFIGURATION OPTIONS

G-Force® 및 Easy Arm®은 핸들 구성에 유연성을 제공하도록 설계되었습니다. Gorbел 대리점은 귀하의 어플리케이션에 가장 적합한 핸들 구성을 선택할 수 있도록 도와드릴 수 있습니다.

See tooling examples on pages 15-16.

In-Line Slide Handle

인라인 슬라이드 핸들을 사용하면 작업자가 하중에 가깝게 접근하여 보다 정밀한 제어와 정밀성을 얻을 수 있습니다. 이 손잡이로 작업자의 손동작과 함께 중량물이 움직입니다.

Remote Mount Slide Handle

슬라이드 핸들과 동일한 부드러운 컨트롤을 제공하며 작업자가 중량물에 가까이 가지 못하는 경우에 유용합니다.

Suspended Pendant Control Handle

헤드 룸이 제한 되어있을 때, 작업자가 적재물에 접근 할 수 없거나 작업자가 중량물을 최대한 들어올릴 때 이상적인 손잡이 입니다.

Remote Mount Pendant Control Handle

핸들이 와이어 로프가 톨링에 부착되는 지점에서 1 피트 이상 떨어져 있거나 리프팅 중에 하중이 튀거나 튀어 나올 것으로 예상될 때 이 손잡이를 선택해 주십시오.

FORCE SENSING HANDLES FOR G-FORCE® AND EASY ARM®

Force Sensing Handles는 인체 공학적으로 들어 올릴 수 있는 다양한 기능을 제공합니다. 상향 또는 하향 작동을 시작하기 위해 손잡이의 sensing을 사용하는 표준 슬라이드 손잡이에 비해 새로운 디자인은 손잡이 움직임없이 적용된 힘을 감지합니다. 이로 인해 톨링을 위한 다목적 옵션이 생기거나 광범위한 모션이 있는 어플리케이션을 제공합니다.

In-Line (FSI)

매우 낮거나 매우 높은 장소의 중량물을 옮길 때, 작업자가 몸을 구부려 작업을 할 필요가 없습니다.

Hub (FSH)

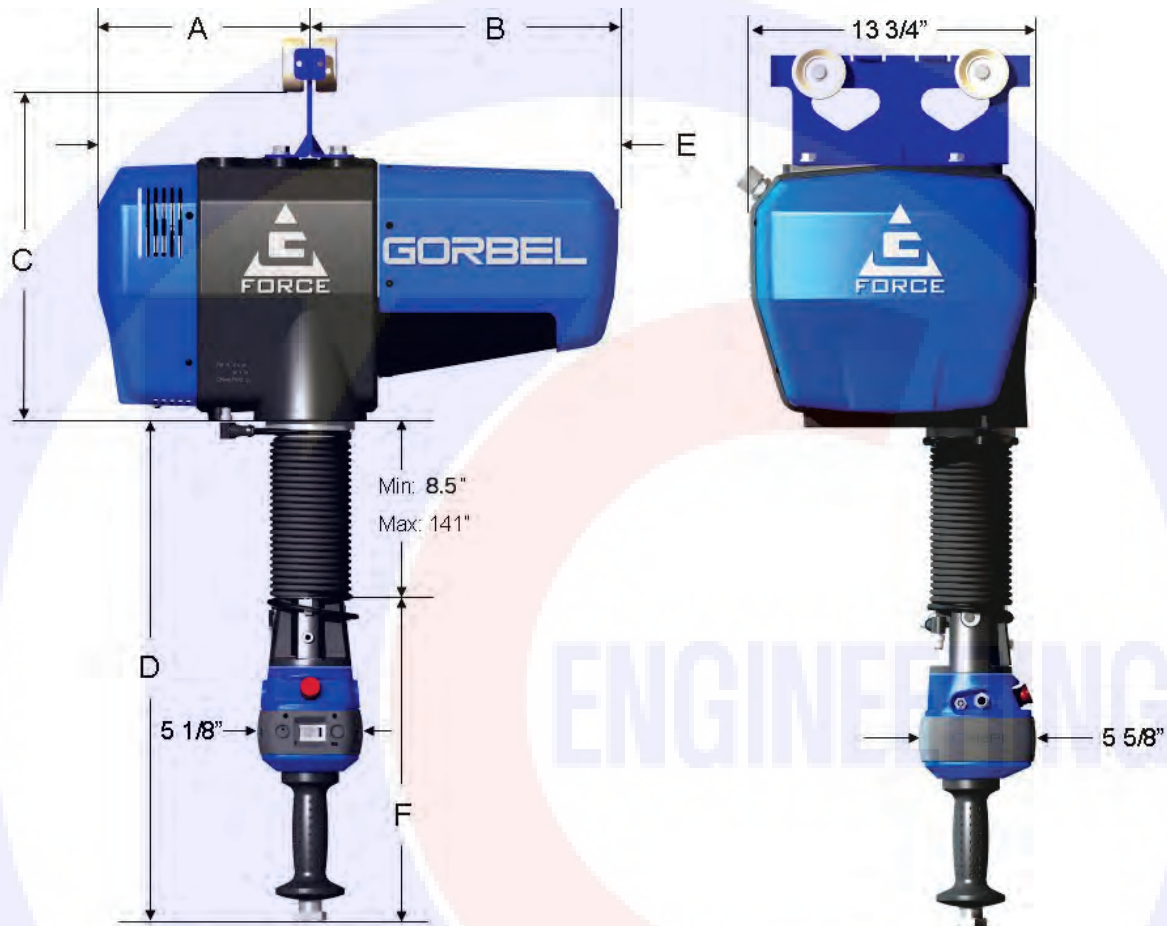
다양한 핸들 바 (다른 핸들러)를 허브에 장착 할 수 있으므로 맞춤형 톨 솔루션에 적합합니다. 다양한 핸들 바 (다른 핸들러)를 허브에 장착 할 수 있으므로 맞춤형 톨 솔루션에 가장 많은 유연성을 제공합니다. 작업자가 핸들 바 또는 허브에 부착된 다른 제어 장치의 어떤 지점에 힘을가함으로써 위 / 아래 동작을 제어할 수 있습니다.

Remote mounted (FSR)

톨 프레임에 24 "또는 36"포스 센싱 핸들을 원격 장착 할 수 있습니다.

이 핸들은 인체 공학적으로 높고 낮은 위치에서 중량물을 옮기기에 유용합니다.

G-FORCE® Q AND IQ: BRIDGE CRANE MOUNTED LIFTING DEVICE

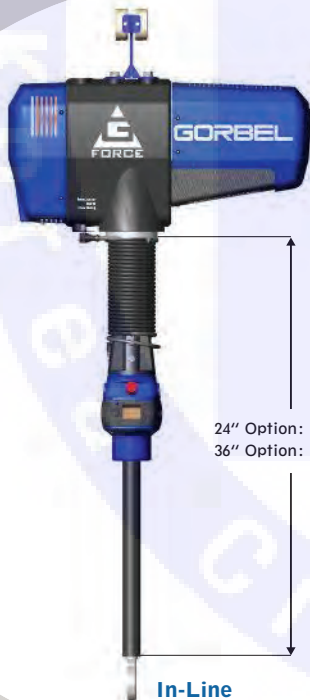


Capacity	165 lb (75 kg)	330 lb (150 kg)	660 lb (300 kg)
A	8.625" (219mm)	10.25" (260mm)	10.25" (260mm)
B	14.375" (365)	15" (381)	15" (381)
C	17" (432)	17" (432)	17" (432)
D	26" (660)	26" (660)	26" (660)
E	23" (584)	25.25" (641)	25.25" (641)
F	16" (406)	16" (406)	16" (406)

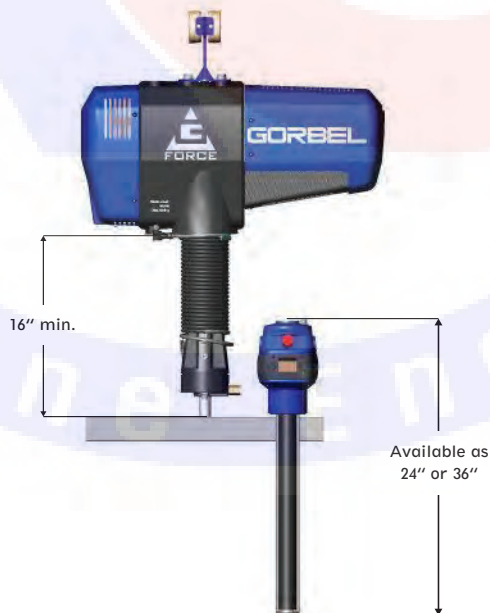
HANDLE CONFIGURATION OPTIONS



Dim	Remote Mount Slide	Suspended Pendant Control	Remote Mount Pendant Control
D	17.5" (445mm)	8.5" (216mm)	17.5" (445mm)
F	14.25" (362)	14" (356)	14" (356)



FORCE SENSING HANDLES



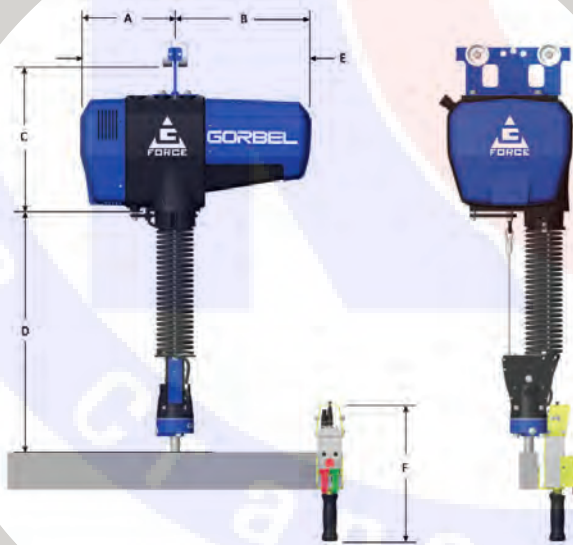
660KG. UNIT HANDLE CONFIGURATIONS



In-Line Slide



Remote Slide



Remote Pendant



Suspended Pendant

Dim	In-Line Slide	Remote Slide	Remote Pendant	Suspended Pendant
A	10.25" (260mm)	10.25" (260mm)	10.25" (260mm)	10.25" (260mm)
B	15" (381)	15" (381)	15" (381)	15" (381)
C	17" (432)	17" (432)	17" (432)	17" (432)
D	30.5" (775)	21.5" (546)	21.5" (546)	17.5" (445)
E	25.25" (641)	25.25" (641)	25.25" (641)	25.25" (641)
F	19.5" (495)	14.25" (362)	14" (356)	14" (356)

Korea Crane Engineering(KCE Inc)

CASE STUDY

G-FORCE® Q: ERGONOMIC- FRIENDLY, INCREASES PRODUCTIVITY



An international distributor of sustainable, environmentally friendly office space was looking to optimize the safety of its employees in high risk applications. One of the first areas targeted was the raw material receiving area, which handles incoming sheets of glass that are usually 3 feet by 6 feet, and weigh about 115 pounds. The sheets are brought in on large A frames, and moved onto carts where they go on to be framed.

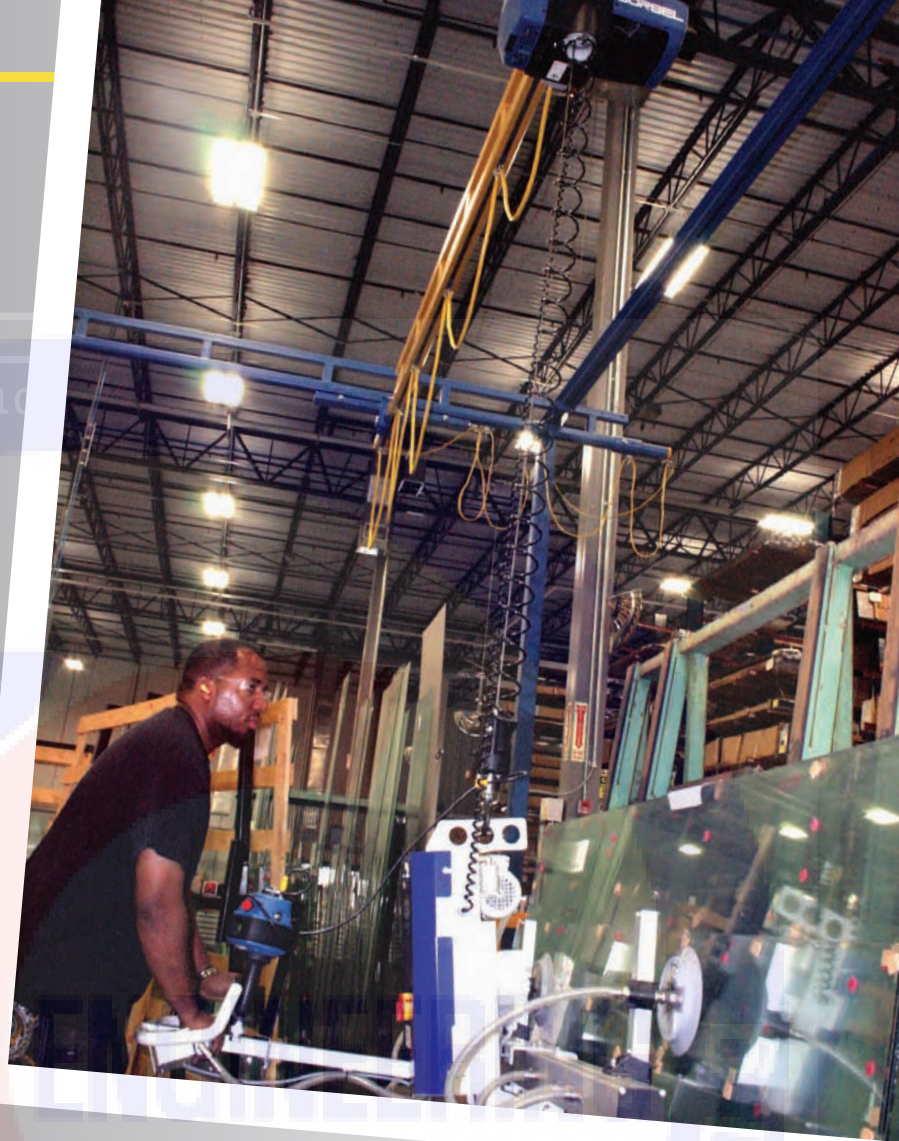
Shipments are received a few times each week, and two workers are required to do as many as 80 lifts each shift. It was clear to the management very early that there was too much at risk to leave the application as it was.

“We had a few small injuries,” said the manufacturing manager. “We did not have any back injuries yet, but it was coming. We didn’t want to wait for it.”

“A very similar application in another facility used a crane as well, but they had a chain hoist to lift the glass. It was very slow, not smooth enough, and operators didn’t feel they had enough control to set the glass down gently. Eventually the workers pushed it off to the side.”

For this facility, the company purchased a Gorbels G Force® Q with 330 pound lifting capacity and a remote mounted handle integrated with a Schmalz vacuum lifter. The tooling allows a single user to grip the sheet of glass and tilt it into position. The range of motion of the G Force® allows the users to maintain a fast working pace while still carefully placing each sheet of glass onto the carts. Since installing the G Force®, the management is very satisfied with the results, and the workers were also very happy to have the new lifting method.

“I am very happy with it,” said one of the operators. “Especially on the larger pieces of glass, it saves us a lot of personnel time. We’re able to run things a lot smoother, able to move from job to job and not worry about maneuvering the a frames because of the different sizes of glass.”

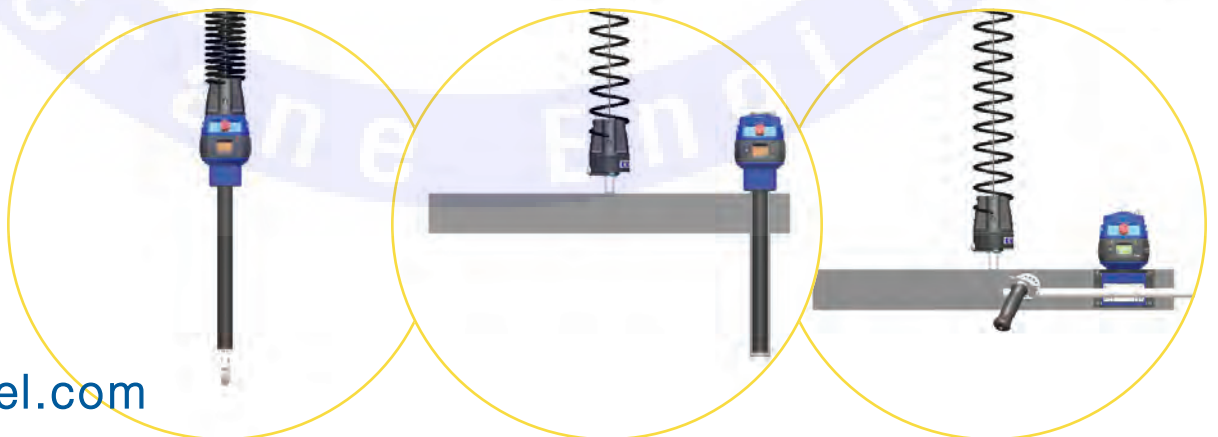
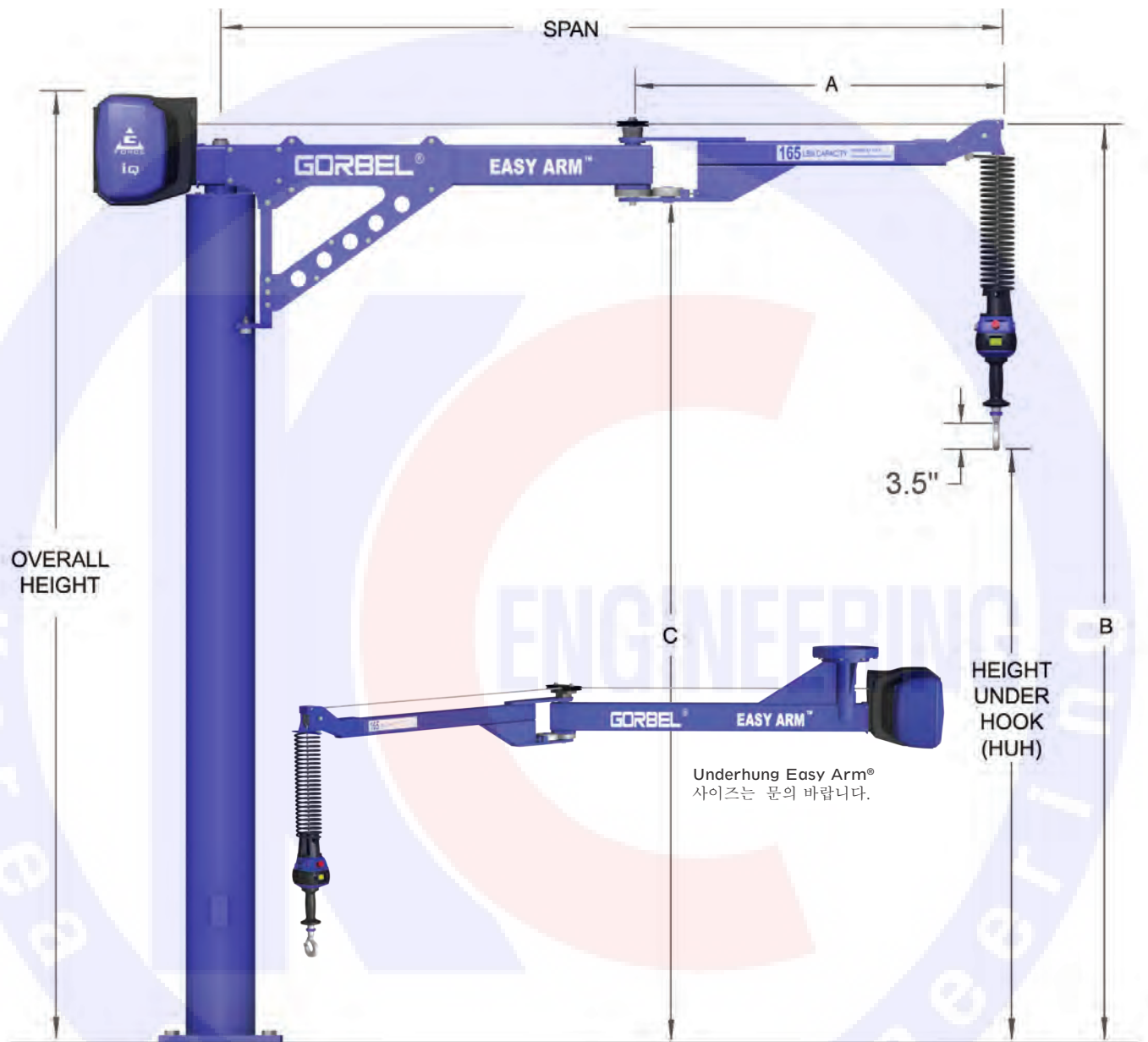


www.gorbel.com

www.newkce.com

Korea Crane Engineering(KCE Inc)

EASY ARM® Q AND IQ: FREE STANDING LIFTING DEVICE



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www.newkce.com

Korea Crane Engineering(KCE Inc)

165 LB (75 KG) UNIT

Span	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)
HUH	6' (1829)					8' (2438)					10' (3048)				
OAH	109.14" (2772)					133.14" (3382)					157.14" (3991)				
A	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)
B	105.98" (2692)					129.98" (3301)					153.98" (3911)				
C	97.89" (2486)					121.89 (3096)					145.89" (3706)				
D	24.90" (632)	32.06" (814)	40.03" (1017)	48.00" (1219)	56" (1422)	24.90" (632)	32.06" (814)	40.03" (1017)	48.00" (1219)	56" (1422)	24.90" (632)	32.06" (814)	40.03" (1017)	48.00" (1219)	56" (1422)

330 LB. (150 KG) UNIT

Span	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	6' (1829mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)
HUH	6' (1829)					8' (2438)					10' (3048)				
OAH	109.88" (2791)					133.88" (3401)					157.88" (4010)				
A	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)	33.84" (860)	45.12" (1146)	56.40" (1433)	67.68" (1719)	78.96" (2006)
B	106.86" (2714)					130.86" (3324)					154.86" (3933)				
C	97.77" (2483)					121.77" (3093)					145.77" (3703)				
D	24.34" (618)	32.26" (819)	42.70" (1085)	51.48" (1308)	59.76" (1518)	24.34" (618)	32.26" (819)	42.70" (1085)	51.48" (1308)	59.76" (1518)	24.34" (618)	32.26" (819)	42.70" (1085)	51.48" (1308)	59.76" (1518)

Please note:

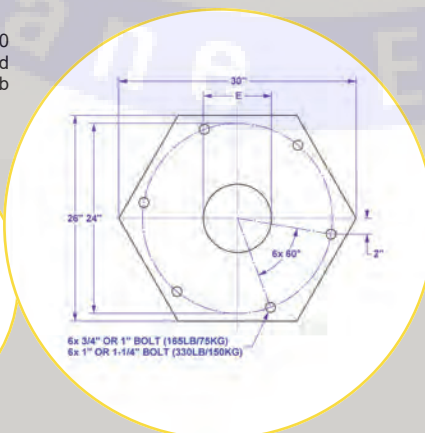
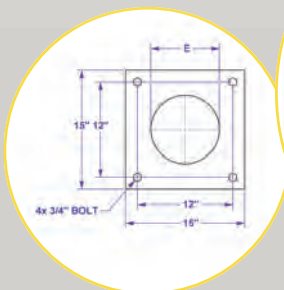
이 치수는 인라인 슬라이드 손잡이가있는 Easy Arm® 장치 용입니다. 팬던트 핸들 관련 치수는 문의 바랍니다.

660 LB. (300 KG) UNIT

Span	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)	8' (2438mm)	10' (3048mm)	12' (3658mm)	14' (4267mm)
HUH	6' (1829)				8' (2438)				10' (3048)			
OAH	122" (3099)				146" (3708)				170" (4318)			
A	45.12" (1146)	56.4" (1433)	67.68" (1719)	78.96" (2006)	45.12" (1146)	56.4" (1433)	67.68" (1719)	78.96" (2006)	45.12" (1146)	56.4" (1433)	67.68" (1719)	78.96" (2006)
B	114.22" (2901)				138.22" (3511)				162.22" (4120)			
C	94.39" (2398)		91.66" (2329)		118.39" (3007)		115.66" (2938)		142.39" (3617)		139.66" (3547)	
D	40.1" (1019)	50.1" (1273)	60.1" (1527)	70.1" (1781)	40.1" (1019)	50.1" (1273)	60.1" (1527)	70.1" (1781)	40.1" (1019)	50.1" (1273)	60.1" (1527)	70.1" (1781)

BASEPLATE DIMENSIONS

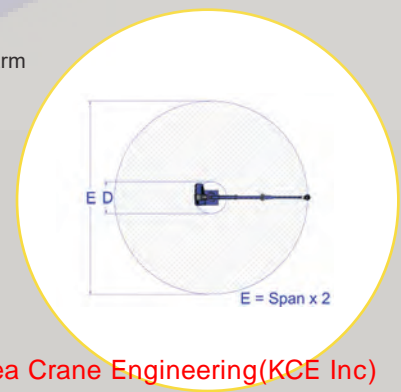
Please note: Hex baseplates are used on all 330 lb units, and on 165 lb units with a combined HUH plus span of 18' or more. All other 165 lb units use a quare baseplate.



HOOK COVERAGE

Arm Rotation:

355° primary arm
320° secondary arm

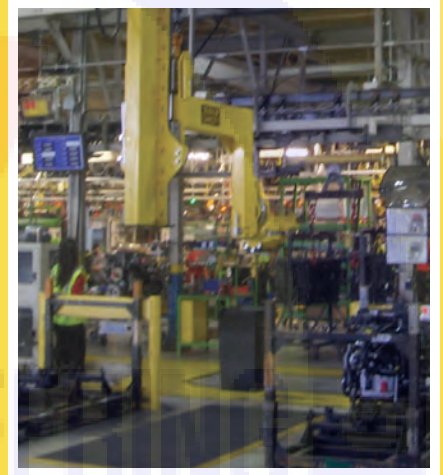
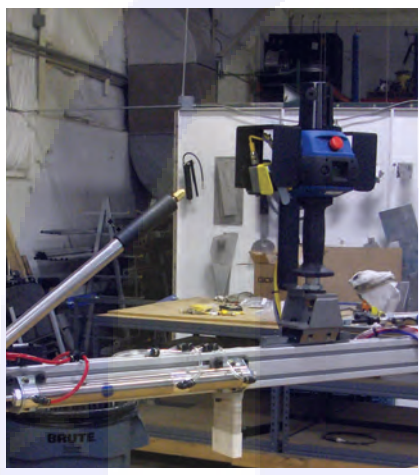


TOOLING

EASE OF TOOLING INTEGRATION

GORBEL'S G-FORCE® TOOLING EXAMPLES

Q 및 iQ 모델은 금형 통합을 염두에두고 설계되었습니다.
옵션 핸들 보조 컨트롤 브래킷을 사용하여 공압식 밸브 또는 전기 스위치를 G-Force® 컨트롤 핸들과 통합 할 수 있습니다.
아래의 핸들 구성 중 하나를 선택하십시오.

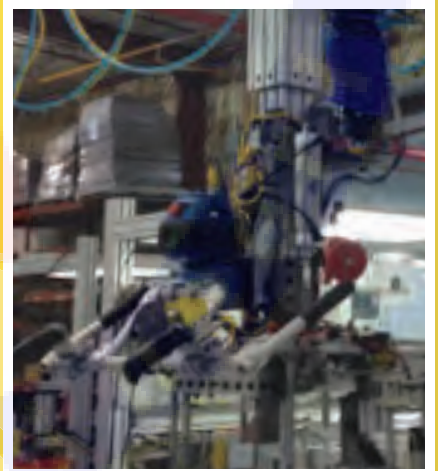


G-Force or Easy Arm iQ 모델을 위한

최고의 장치틀링의 완성 - 소프트 터치 조작 핸들

틀링을 직접 컨트롤 할 수 있는 에어 밸브입니다.

- 새로운 장비를 완성시키는 완벽한 디자인
- 핸들 교체의 편리성
합리적인 핸들 교체비용



GORBEL'S G-FORCE® TECHNOLOGY: PROVEN PERFORMANCE

ERGONOMIC STUDY

다음의 내용은 Rochester Institute of Technology 에서 수행한 연구를 기반으로 합니다. Gorbels G-Force® Intelligent Lifting Device를 다른 리프팅 장치를 비교하였습니다.

전체 연구 내용은 http://www.gorbel.com/pdfs/study_gforceergostudy.pdf를 참고하여 주시기 바랍니다.

High Cycle Test

Operators were:

- **124%** more productive with the G-Force® than with air balancers
- **74%** more productive with the G-Force® than with variable frequency drive hoists

Precision Placement Test

Operators were:

- **76%** 더 생산적 에어발란서보다
- **59%** 더 생산적 일반 호이스트보다

Force of Placement

The G-Force® was:

- **2.5x** less likely to damage the load than the air balancer with pendant control
- **3.3x** less likely to damage the load than the variable frequency drive hoists
- **2.2x** less likely to damage the load than manual

Figure 1: 적재회수

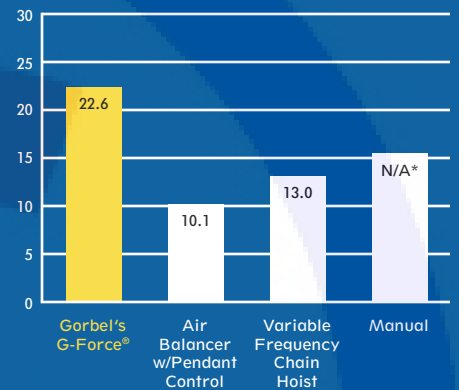


Figure 2: 정밀배치 회수 비교

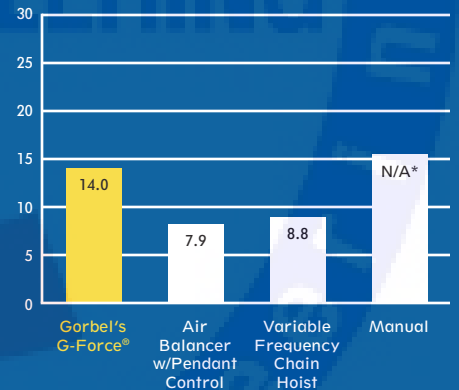
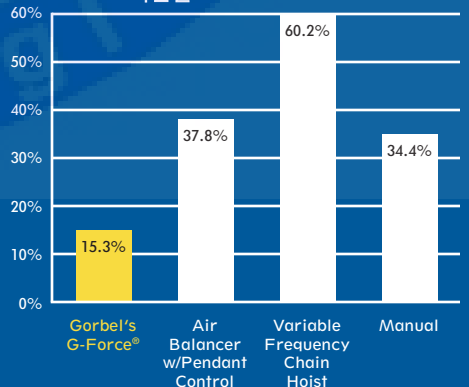


Figure 3: 강제 임계 값을 초과하는 리프트의 백분율



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Korea Crane Engineering(KCE Inc)

GORBEL'S Q AND IQ TECHNOLOGY: TECHNICAL SPECIFICATIONS

BRIDGE MOUNTED G-FORCE® Q AND IQ QUICK FACTS

G-Force®	Q	iQ	Q	iQ	Q	iQ	Q	iQ
Maximum Capacity (Load & Tool)	165 lb 75 kg		330 lb 150 kg		660 lb 300 kg		1320 lb 600 kg	
Maximum Lifting Speed Unloaded	200 ft/min 61 m/min		100 ft/min 30 m/min		50 ft/min 14.94 m/min		25 fpm 7.47 m/min	
Maximum Lifting Speed Fully Loaded	125 ft/min 38 m/min		75 ft/min 23 m/min		42 ft/min 12.80 m/min		21 fpm 6.4 m/min	
Maximum Float Mode Lifting Speed	103 ft/min 31 m/min		65 ft/min 20 m/min		38 ft/min 11.58 m/min		19 fpm 5.79 m/min	
Maximum Lift Range	11 ft 3.35 m		11 ft 3.35 m		11 ft 3.35 m		5.5 ft 1.68 m	

FREE STANDING EASY ARM® Q AND IQ QUICK FACTS

Easy Arm®	Q	iQ	Q	iQ
Maximum Capacity (Load & Tool)	165 lb 75 kg		330 lb 150 kg	
Maximum Lifting Speed Unloaded	180 ft/min 55 m/min		90 ft/min 27 m/min	
Maximum Lifting Speed Fully Loaded	125 ft/min 38 m/min		75 ft/min 23 m/min	
Maximum Float Mode Lifting Speed	103 ft/min 31 m/min		65 ft/min 20 m/min	
Maximum Lift Range	11 ft 3.35 m		11 ft 3.35 m	

Q AND IQ TECHNICAL SPECS

G-Force® and Easy Arm®	Q	iQ
Primary Lift Voltage (VAC)	220 +/- 10%	
Maximum Current (Amps)	10	
Duty Cycle	H5	
Operating Temperature Range	41 - 122° F 5 - 50° C	
Operating Humidity Range (Non-Condensing)	35 - 90%	
User Accessible Power	Not Available	24VDC @ 0.5A
Virtual Limits (Upper Limit, Power Limit, Speed Reduction)	Standard	Standard

IQ SPECIFIC INFORMATION

I/O Actuator (iQ Only)	iQ
Number of Inputs, Type	8, Sinking
Input Current @ 24 VDC	6ma
Number of Outputs, Type	8, FET
Continuous Current/Channel (Amps)	0.5
Module Maximum Current (Amps)	0.5
Handle with I/O Module (iQ Only)	iQ
Number of Inputs, Type	8, Sinking
Input Current @ 24 VDC	4ma
Number of Outputs, Type	8, FET
Continuous Current/Channel (Amps)	0.5
Module Maximum Current (Amps)	0.5

OVERVIEW



BRIDGE CRANES



Work Station Cranes



Cleveland Tramrail



Ergonomic Study

ERGONOMIC LIFTING



G-Force® & Easy Arm®



Ergonomic Study

JIB CRANES



Jib Cranes

FALL PROTECTION



Fall Arrest

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