

# Radio Remote Control Grab

"ZERO SHOCK OPENING SYSTEM"



Confidence,  
**QUALITY,**  
Reliability



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**güven**<sup>®</sup>  
grab & machine



# Radio Remote Control Grab

## Comfortable and Efficient Using

- NO motor and pump.
- NO cable and electric supply.
- NO need to operate generators.
- Opens on the air by remote control  
Closes on the ground by lifting of crane.
- Special design «zero shock opening system» with high technology.  
No any shake to crane
- Operating up to 45 degrees angle of cargo with central cylinder.
- Up to 400 hours non-stop working without recharging of batteries.
- Up to 100 meters operating range  
Heavy duty remote controller.
- Kick plates for reduce the capacity in order to handle different types of bulk cargoes.

## Less Maintenance

- Simple and basic hydraulic system, central hydraulic cylinder and hydraulic block unit.
- Less hydraulic oil, only 105 liters.
- NO complicated electrical system, no special cards.

## Easy Installation and Fitting

- Possible to use any type of crane
- Always ready to use with all accessories.
- NO need additional accessories to use on vessel like cable drum system or chain. Connect to hook of crane and work with immediately



## General Specs

<b>Grab Model</b>	Radio Remote Control Grab
<b>Type</b>	RRCG – 12 – 5
<b>Grab Capacity</b>	12 cbm
<b>Capacity Adjust</b>	4 Line Kick Plates
All kick plates are fitted	12 cbm
1 <sup>st</sup> kick plate is taken out	10 cbm
2 <sup>nd</sup> kick plate is taken out	8 cbm
3 <sup>rd</sup> kick plate is taken out	6 cbm
4 <sup>th</sup> kick plate is taken out	5 cbm
<b>Empty Weight (Tare)</b>	8.700 kgs (approx.) with all accessories
<b>Type of Cargo to Handle</b>	All kind of bulk cargoes Size of pieces up to 10mm Coal and soft pieces cargoes are handled  Not suitable for : Alumina Powder Soda Ash (very fine cargoes need special sealing) Scrap, Rock and etc..
<b>SWL</b>	
For 30T Ship Crane	15,3 tons
For 35T Ship Crane	18 tons
For Shore Crane	18 tons

## Operating System

<b>Working System</b>	By oil circulation through cylinder and hydraulic block, solenoid valve, and oil tank which operated by Remote control device and powered by 2x12V dry cell battery. Opening by remote control device on the air, closing by lifting of crane on the ground.
<b>Operating Times</b>	
Opening	7 seconds (approx.) - 70% opening 13 seconds (approx.) - 100% opening Depends on crane's speed.
Closing	(Lowering time of cylinder : 7 - 9 seconds)
<b>Hydraulic System</b>	
Hydraulic Cylinder	Central hydraulic cylinder by GUVEN
Hydraulic Block	GUVEN made, zero shock opening system
Solenoid Valve	Rexroth 24V DC
Motor & Pump	NO any motor and pump in radio remote control grab
Operating / Max. Pressure	80 bars / 150 bars
Oil Capacity	105 liters, Shell Tellus T32
<b>Electrical System</b>	
Batteries	Gel type Marine batteries, 2 pcs
Voltage	12V DC 45Ah 2 pcs x 12V = 24 V
Battery Recharging Period	Up to 400 hours (approx.) non-stop working
Remote Control Device	Gain Electronic made in Taiwan, Licensed in USA. Heavy duty.
Range	Up to 100 meters
Others	NO any antenna outside of grab NO any antenna on the transmitter

## Steel Plates

<b>Steel Specs</b>	EN 10025-2-2004, S275JR
<b>Thicknesses</b>	
Shells	10-12 mm
Side Lips	25 mm Bruxite 500 HB
Bottom Lips	30 mm Bruxite 500 HB
Mechanism Groups	10-50 mm
<b>Arms</b>	150 x 200 x 8 mm profile

## Surface Treatment & Coating

<b>Sandblasting</b>	SA 2,5
<b>First Coat</b>	Hempel's primer
<b>Top Coat</b>	Hempel's epoxy
<b>Colour</b>	As per your request in RAL colour code



## Others

<b>Pins</b>	42- Cr Mo-4, oil channel
<b>Bearings</b>	Cast polyamide bearings with lubrication channels
<b>Sheaves</b>	2 pieces Bottom, 2 pieces Upper
Bearing of Sheaves	Roller Bearing
<b>Wire Rope</b>	
Diameter	30 mm
Type	6x36 Galvanized Warrington Seale Fibre Core
Length	22 meters Soft Wire, both end open (no thimble and lead covering)
<b>Wire Guide sheaves</b>	2x4 pieces Small Rollers
<b>Lifting Plate</b>	GUVEN Balancer Lifting Plate

## Accessories

<b>Shackle</b>				SWL 42,5 tons BB type
<b>Master link</b>				SWL 40 tons to fit crane hook
<b>Additional Accessories</b>				NO need additional accessories to use on vessel. Connect to hook and work with any crane
<b>Spares for Emergency Use</b>				Free of Charge
<b>1 unit Grab</b>	<b>2 unit Grab</b>	<b>3 unit Grab</b>	<b>4 unit Grab</b>	
1 pce	1 pce	2 pcs	2 pcs	Sheave
1 pce	1 pce	2 pcs	2 pcs	Sheave Pin
1 pce	2 pcs	3 pcs	4 pcs	Battery
1 pce	1 pce	2 pcs	2 pcs	Charger
1 set	1 set	2 set	2 set	Wire Rope
2 pcs	2 pcs	4 pcs	4 pcs	Air Filter
1 set	1 set	2 set	2 set	Remote Control Device
1 set	1 set	2 set	2 set	Solenoid Valve
	1 set			Hydraulic Hose
	1 set			Seal Kit of cylinder
	1 set			Other Tools and Spares

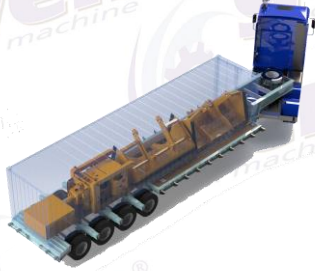











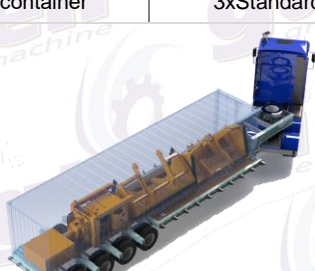



## Handling Capacities (30T crane, 24T in Grab Mode)

Crane Capacity (in grab operation)	Dead Weight	Allowed Cargo	Kick Plates	Capacity of Grab	Density of Cargo (up to...)
24 tons	8,7 tons	15,3 tons	All fitted	12 cbm	1,28 tons / cbm
24 tons	8,7 tons	15,3 tons	1 <sup>st</sup> open	10 cbm	1,53 tons / cbm
24 tons	8,7 tons	15,3 tons	1 <sup>st</sup> +2 <sup>nd</sup> open	8 cbm	1,91 tons / cbm
24 tons	8,7 tons	15,3 tons	1 <sup>st</sup> +2 <sup>nd</sup> +3 <sup>rd</sup> open	6 cbm	2,55 tons / cbm
24 tons	8,7 tons	15,3 tons	1 <sup>st</sup> +2 <sup>nd</sup> +3 <sup>rd</sup> +4 <sup>th</sup> open	5 cbm	3,06 tons / cbm

## Handling Capacities (35T crane, 28T in Grab Mode)

Crane Capacity (in grab mode)	Dead Weight	Allowed Cargo	Kick Plates	Capacity of Grab	Density of Cargo (up to...)
28 tons	8,7 tons	18 tons	All fitted	12 cbm	1,50 tons / cbm
28 tons	8,7 tons	18 tons	1 <sup>st</sup> open	10 cbm	1,80 tons / cbm
28 tons	8,7 tons	18 tons	1 <sup>st</sup> +2 <sup>nd</sup> open	8 cbm	2,25 tons / cbm
28 tons	8,7 tons	18 tons	1 <sup>st</sup> +2 <sup>nd</sup> +3 <sup>rd</sup> open	6 cbm	3,00 tons / cbm
28 tons	8,7 tons	18 tons	1 <sup>st</sup> +2 <sup>nd</sup> +3 <sup>rd</sup> +4 <sup>th</sup> open	5 cbm	3,60 tons / cbm

## Shipment of GUVEN Radio Remote Control Grab, 12 cbm (RRCG – 12 – 5)

		Dismantled Position (need to assembly at final dest.)		Assembled Position (Ready to use)	
		by Sea	by Land	by Sea	by Land
Number of Grabs	1 unit	1x40'DC container 	1xStandard Truck 	1x20'FR container 	1xLow-bed Truck 
	2 units	2x40'DC container 	2xStandard Truck 	1x40'FR container 	1xLow-bed Truck 
	3 units	3x40'DC container 	3xStandard Truck 	1x40'FR container 	2xLow-bed Truck 
	4 units	4x40'DC container 	3xStandard Truck 	2x40'FR container 	2xLow-bed Truck 
	5 units	5x40'DC container	4xStandard Truck	2x40'FR container	3xLow-bed Truck
	6 units	6x40'DC container	5xStandard Truck	2x40'FR container	3xLow-bed Truck
	7 units	7x40'DC container	6xStandard Truck	3x40'FR container	4xLow-bed Truck
	8 units	8x40'DC container	6xStandard Truck	3x40'FR container	4xLow-bed Truck





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