



Festoon System

Mobile Electrification System

Catalogue

C-track, I-beam, Wire-rope Series



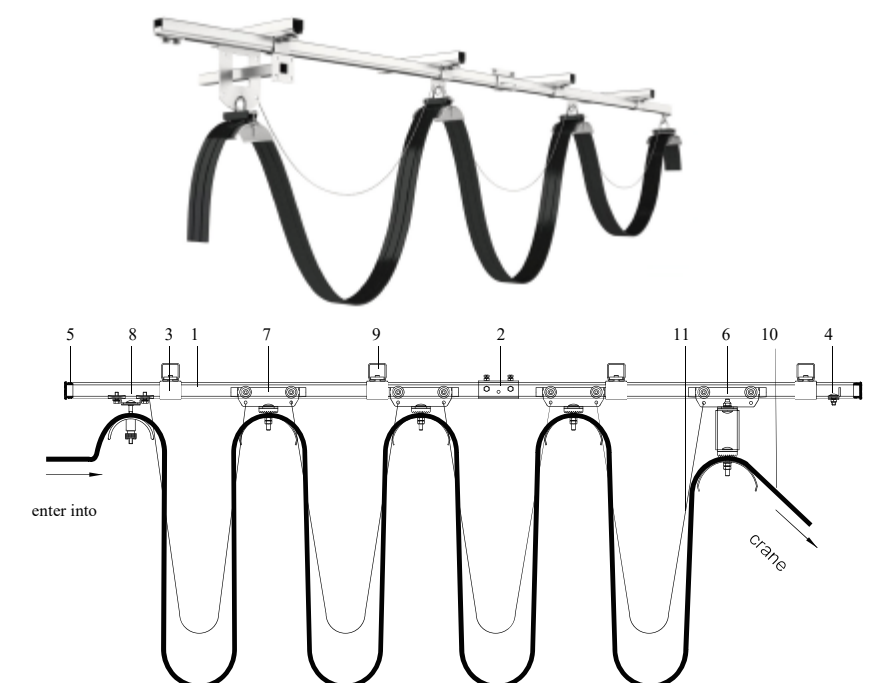
NANTE cable festoon system provide a safe, effective and economical way of supplying power to cranes, hoists and moving machinery travelling along fixed tracks. NANTE can offer the festoon system for C track, I beam, Angel Bar, Wire rope, Square Pipe etc.

Features:

- Safe and reliable
- Simple to install or modify
- Enclosed self cleaning track
- Minimum maintenance

General

1. C-track
2. Joint
3. Hanger
4. End stop
5. End cap
6. Towing Trolley
7. Middle Trolley
8. End Trolley
9. Support Bracket
10. Cable
11. Steel Wire

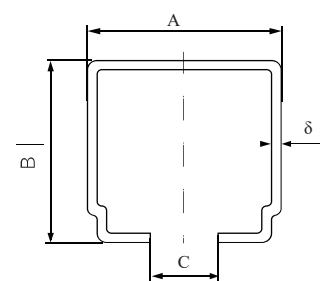


Technical Data

Travel speed	< 120m/min
Temperature	-40℃ -- +125℃
Cable load	< 120kg

Travel speed	Cable loop depth
max.35m/min	≥0.3m
35-50m/min	≤0.8m
50-80m/min	≥0.8m

C-track Festoon accessories - C-track
C32/ C40/ C63

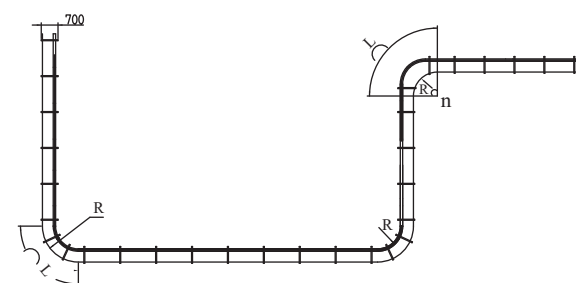


$L = n \times R / 180^\circ$
L is curve length,
n is central angle,
R is curved radius



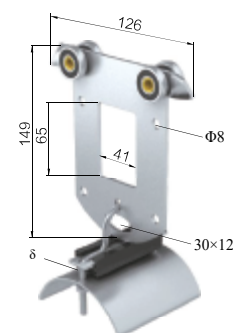
Type	Weight (kg/m)	A	B	C	δ
C32*30*1.5	1.19	32	30	12	1.5
C40*40*2.0	2.0	40	40	13	2.0
C63*63*4.0	5.98	63	63	18	18

Material: Galvanized Steel, 304#, 316# Stainless Steel
(Nylon coating is optional for heavy corrosion environment)
Curve $R \geq 1.0m$, only C32 can be curve



C-track Festoon Accessories - C32 Trolleys for Flat Cable
C32TT-75/ C32MT-75

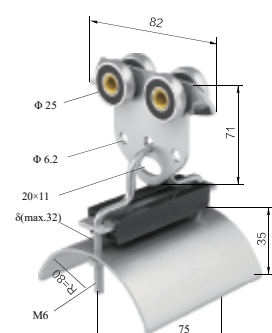
C32TT-75 - Towing trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 75 W* 32mm
Max. Cable weight: 25kg
Weight of Trolley: 0.59kg

C32MT-75 - Middle trolley

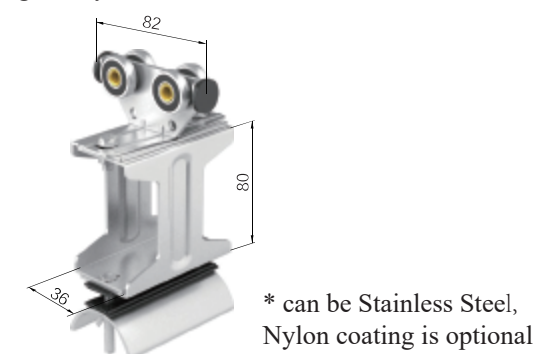


Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 75 W* 32mm
Max. Cable weight: 30kg
Weight of Trolley: 0.41kg

C-track Festoon Accessories - C32 Trolley for Flat Cable
C32TT-70/ C32MT-70 / C32ET

C32TT-70 - Towing trolley

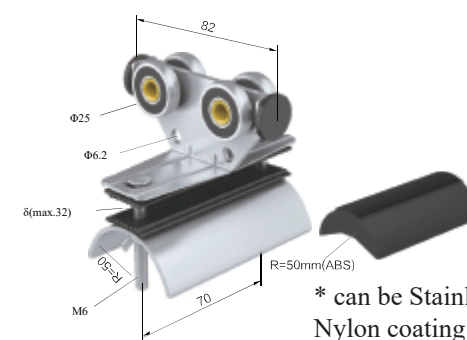


* can be Stainless Steel,
Nylon coating is optional

Technical Feature

Wheels: Ball bearing
Max Travel Speed: 120m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 70 W* 32mm
Max. Cable weight: 22kg
Weight of Trolley: 0.55kg

C32MT-70 - Middle trolley

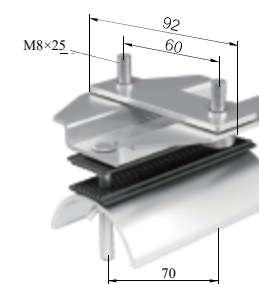


* can be Stainless Steel,
Nylon coating is optional

Technical Feature

Wheels: Ball bearing
Max Travel Speed: 120m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 70 W* 32mm
Max. Cable weight: 22kg
Weight of Trolley: 0.32kg

C32ET- End trolley

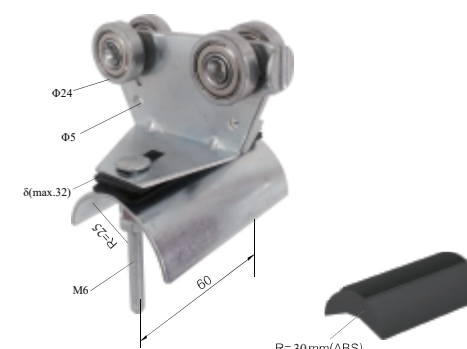


* can be Stainless Steel,
Nylon coating is optional

Technical Feature

Max Travel Speed: 120m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 70 W* 32mm
Max. Cable weight: 25kg
Weight of Trolley: 0.31kg

C-track Festoon Accessories - C32 Trolley for Flat Cable
C32MT-60 Middle trolley

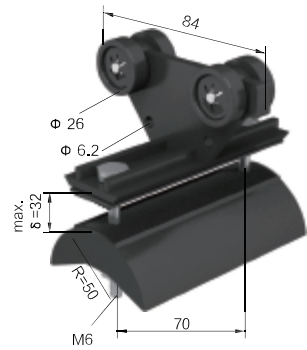


R=30mm(ABS)

Technical Feature

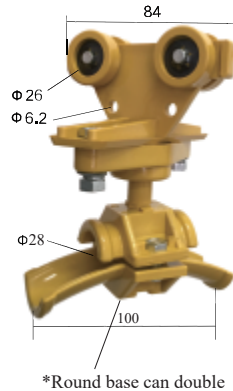
Wheels: Bearing
Max Travel Speed: 120m/min
Material: Galvanized Steel + ABS
Temperature: $-30^\circ\text{C} \sim +100^\circ\text{C}$
Max. Cable (mm): 60 W* 32mm
Max. Cable weight: 20kg
Weight of Trolley: 0.32kg

C-track Festoon Accessories - C32 Plastic Middle Trolley
C32PP-70 / C32RPP-30



Technical Feature

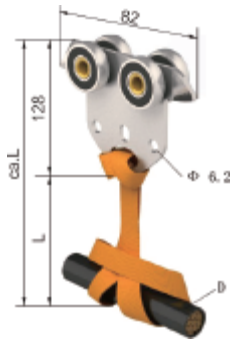
Wheels: Nylon
Max Travel Speed: 120m/min
Material: --ABS
Temperature: -30°C ~ +80°C
Max. Cable (mm): 70 W* 32mm
Max. Cable weight: 8kg
Weight of Trolley: 0.14kg



Technical Feature

Wheels: Nylon
Max Travel Speed: 120m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +80°C
Max. Cable (mm): $\phi 28$ mm
Max. Cable weight: 8kg
Weight of Trolley: 0.15kg

C-track Festoon accessories - C32 Plastic Middle Trolley
C32RMT

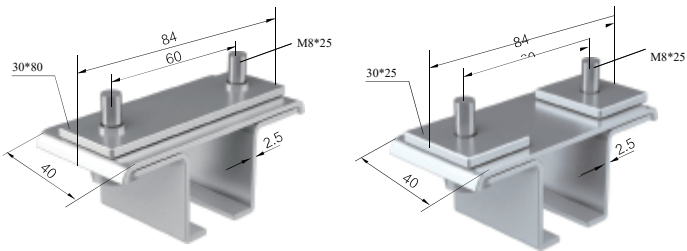


Technical Feature

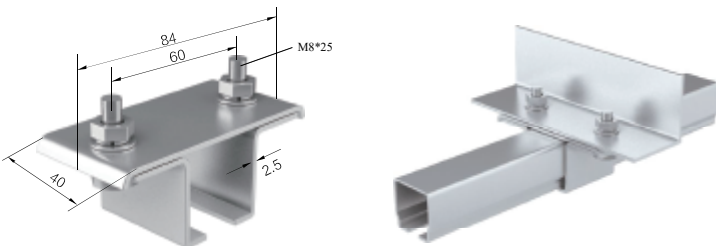
Wheels: Ball bearing
Max Travel Speed: 120m/min
Material: Galvanized Steel + Nylon
Temperature: -30°C ~ +100°C
Max. Cable (mm): $\phi 50$ mm / $\phi 80$ mm / $\phi 160$ mm
Max. Cable weight: 22kg
Weight of Trolley: 0.29kg

C-track Festoon Accessories - C32 Hanger
C32HG-1/ C32HG-2/ C32HG-5

C32HG-1/ C32HG-2 for C-track support bracket

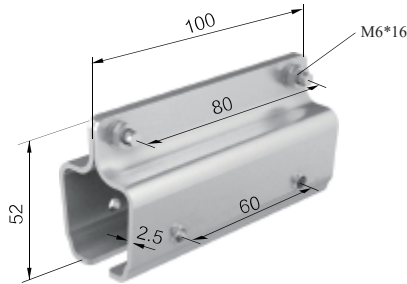


C32HG-5 for Angle steel support bracket



Type	Weight (kg)	Material
C32HG-1	0.22	Galvanized Steel
C32HG-2	0.22	Steel
C32HG-5	0.20	

C-track Festoon Accessories - C32 Joints
C32JS-2



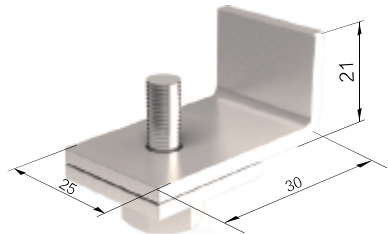
Type	Weight (kg)	Material
C32JS-2	0.27	Galvanized Steel

C-track Festoon Accessories - C32 End Cap
C32EC



Type	Weight (kg)	Material
C32EC	0.005	Plastic

C-track Festoon Accessories - C32 End Stop
C32ED

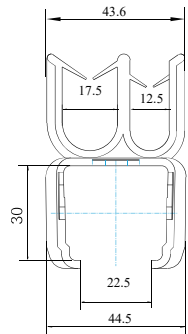


Type	Weight (kg)	Material
C32ED	0.05	Galvanized Steel

*C32ED used for C32/C40 track

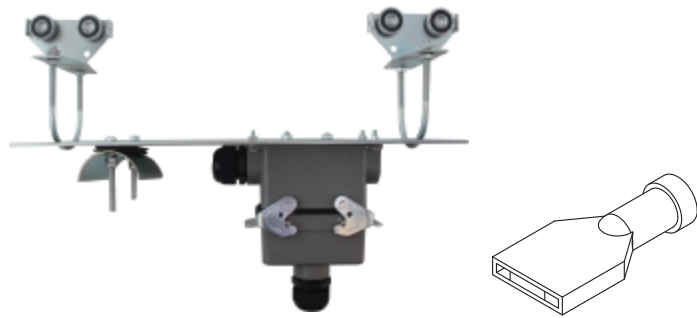


C-track Festoon accessories - C32 Cable Clip
C32CP



Type	Weight (kg)	Material
C32CP	0.02	Plastic

C-track Festoon Accessories - C32 Pendant Trolley for Flat Cable
C32PT

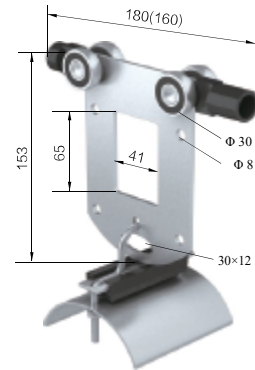


Type	Weight (kg)	Material
C32PT	2.5	Galvanized Steel

Can Customized with Flat Cable Gland

C-track Festoon Accessories - C40 Trolleys
C40TT / C40MT / C40RMT

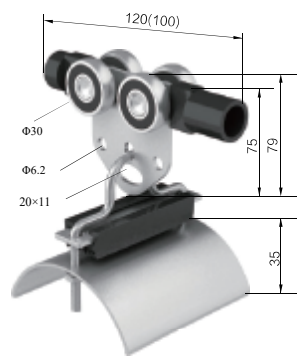
C40TT - Towing trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +100°C
Max. Cable (mm): 75 W*32mm
Max. Cable weight: 35kg
Weight of Trolley: 0.65kg

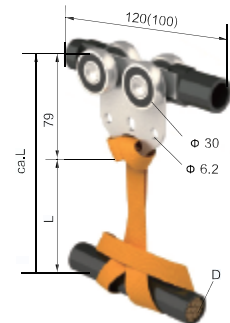
C40MT - Middle trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +100°C
Max. Cable (mm): 75 W*32mm
Max. Cable weight: 30kg
Weight of Trolley: 0.52kg

C40RMT - Plastic middle trolley

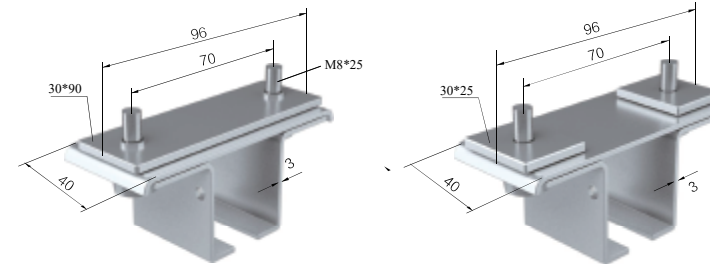


Technical Feature

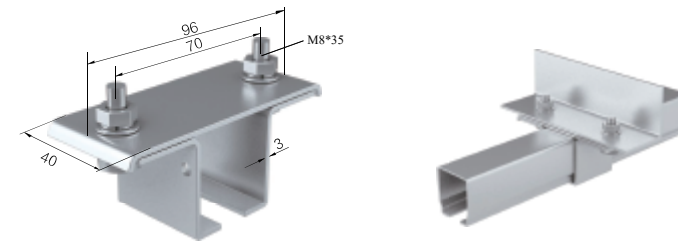
Wheels: Ball bearing
Max Travel Speed: 100m/min
Material: Galvanized Steel + Nylon
Temperature: -30°C ~ +100°C
Max. Cable (mm): $\phi 50\text{mm}$ / $\phi 80\text{mm}$ / $\phi 160\text{mm}$
Max. Cable weight: 28kg
Weight of Trolley: 0.33kg

C-track Festoon Accessories - C40 Hanger
C40HG-1/ C40HG-2 / C40HG-5

C40HG-1 and C40HG-2 for C-track support bracket

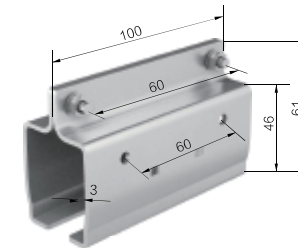


C40HG-5 for Angle steel support bracket



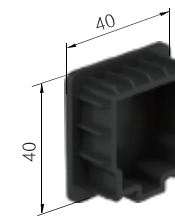
Type	Weight (kg)	Material
C40HG-1	0.30	Galvanized Steel
C40HG-2	0.30	
C40HG-5	0.22	

C-track Festoon Accessories - C40 Joints
C40JS-2



Type	Weight (kg)	Material
C40JS-2	0.32	Galvanized Steel

C-track Festoon Accessories - C40 End Cap
C40EC



Type	Weight (kg)	Material
C40EC	0.01	Plastic

C-track Festoon Accessories - C40 Pendant Trolley for Flat Cable
C40PT

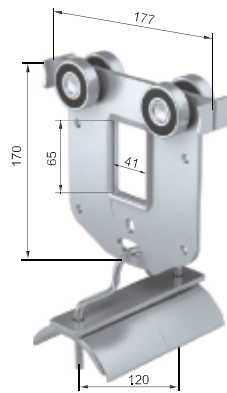


Type	Weight (kg)	Material
C40PT	2.7	Galvanized Steel

Can Customized with Flat Cable Gland

C-track Festoon Accessories - C63 Trolleys for Flat Cable
C63TT / C63MT/ C63ET

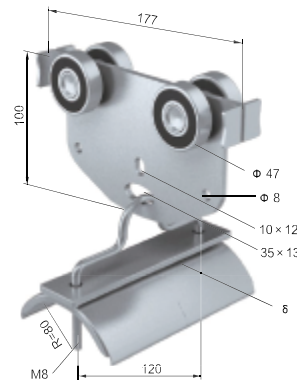
C63TT- Towing trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel
Temperature: -30°C ~ +100°C
Max. Cable (mm): 120 W*40mm
Max. Cable weight: 65kg
Weight of Trolley: 2.3kg

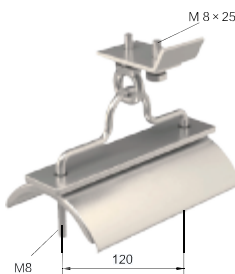
C63MT - Middle trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel
Temperature: -30°C ~ +100°C
Max. Cable (mm): 120 W*40mm
Max. Cable weight: 65kg
Weight of Trolley: 1.95kg

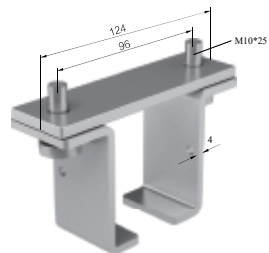
C63ET - End trolley



Technical Feature

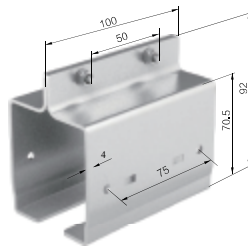
Max Travel Speed: 160m/min
Material: Galvanized Steel
Temperature: -30°C ~ +100°C
Max. Cable (mm): 120 W*40mm
Max. Cable weight: 65kg
Weight of Trolley: 1.15kg

C-track Festoon Accessories - C63 Hanger
C63HG



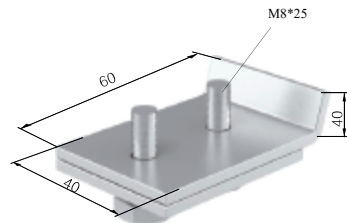
Type	Weight (kg)	Material
C63HG	0.45	Galvanized Steel

C-track Festoon Accessories - Joints
C63JS



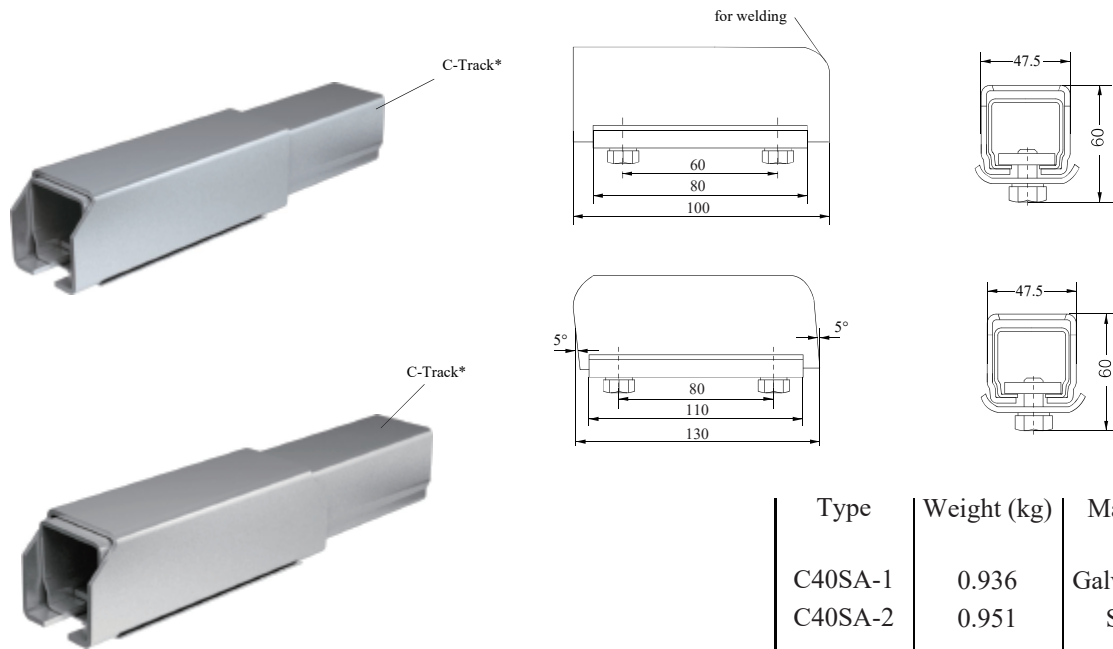
Type	Weight (kg)	Material
C63JS	0.72	Galvanized Steel

C-track Festoon Accessories - End Stop
C63ED



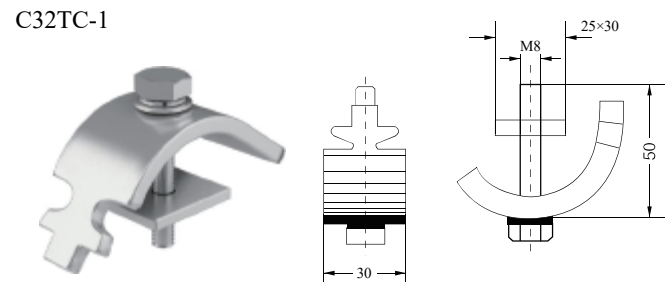
Type	Weight (kg)	Material
C63ED	0.72	Galvanized Steel

C-track Festoon Accessories - C40 Support Attachment
C40SA-1 /C40SA-2

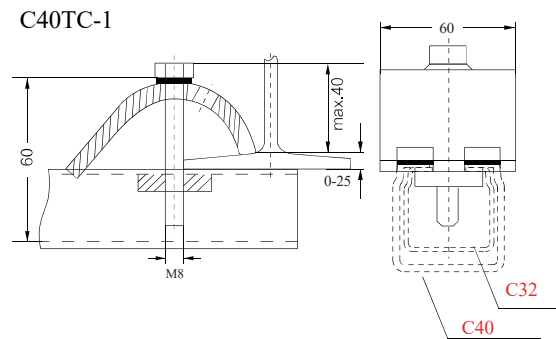


Type	Weight (kg)	Material
C40SA-1	0.936	Galvanized Steel
C40SA-2	0.951	Steel

C-track Festoon Accessories - C-track Claw
C32TC-1/ C40TC-1

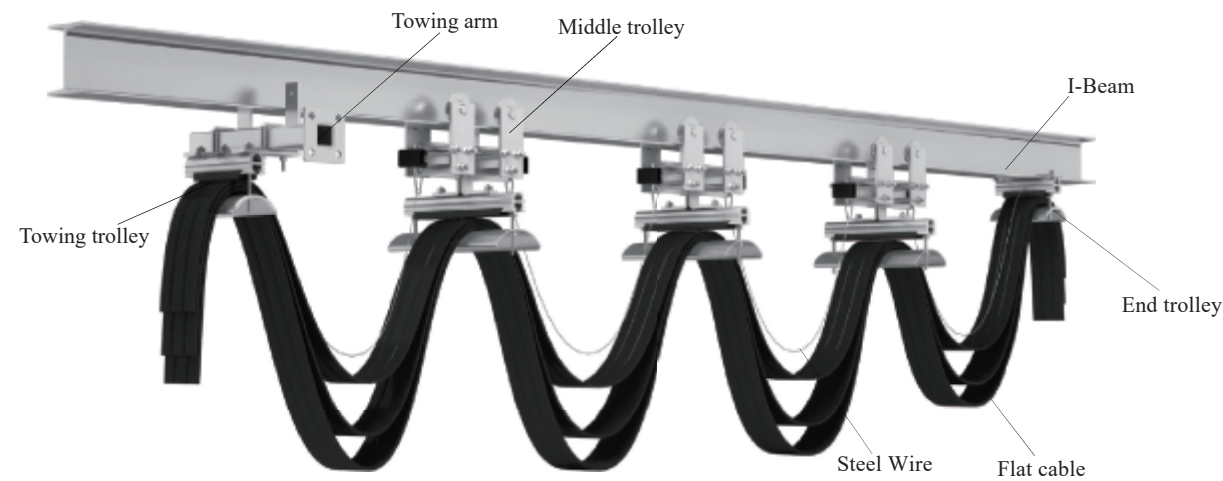


Be used for Standard Bracket



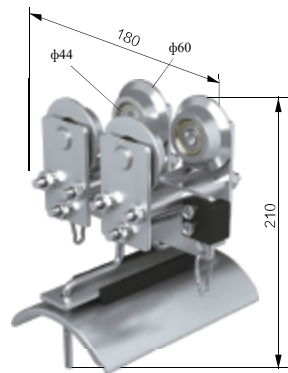
Be used for Heavy duty Bracket

Type	Weight (kg)	Material
C32TC-1	0.202	Galvanized Steel
C40TC-1	0.281	Steel



I-Beam Trolley
N35MT series / N35MTL series / N35MTA series

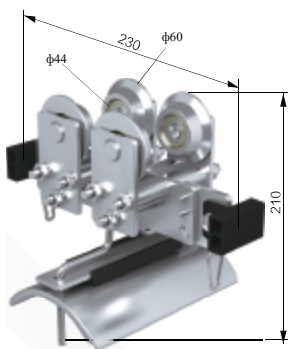
N35MT series - Middle trolley



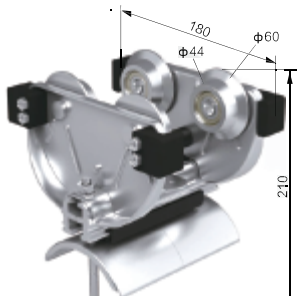
Technical Feature

Wheels: Ball bearing
Max Travel Speed: 300m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ + 120°C

N35MTL series - Middle trolley



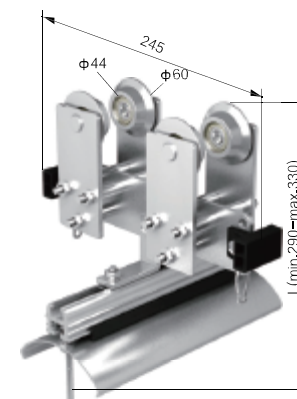
N35MTA series - Middle trolley



Type	Max.cable load	Dia. of Cable(mm)	Weight (kg)
N35MT-70	max.50kg/trolley	max.75 W × 32δ	1.90
N35MT-120	max.60kg/trolley	max.120 W × 60δ	2.40
N35MT-150	max.70kg/trolley	max.150 W × 70δ	2.50
N35MTL-120	max.50kg/trolley	max.120 W × 60δ	2.10
N35MTL-150	max.60kg/trolley	max.150 W × 70δ	2.60
N35MTL-250	max.120kg/trolley	max.250 W × 100δ	3.65
N35MTA-120	max.35kg/trolley	max.120 W × 50δ	2.20
N35MTA-150	max.40kg/trolley	max.150 W × 60δ	2.40

I-Beam Trolley
N55MT series / N35TT-N55TT series / N35ET-N55ET series

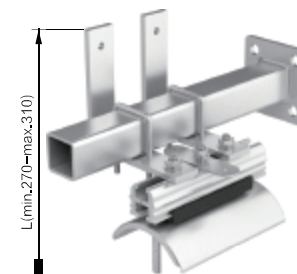
N55MT series - Middle trolley



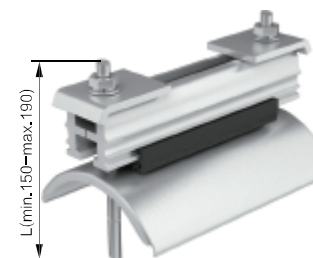
Technical Feature

Wheels: Ball bearing
Max Travel Speed: 300m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ + 120°C

N35TT / N55TT series - Towing trolley

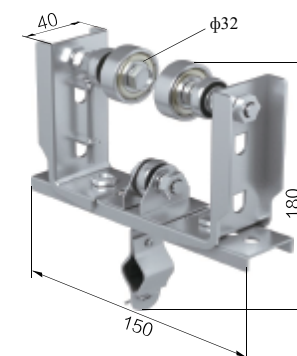


N35ET / N55ET series - End trolley



Type	Max.cable load	Dia. of Cable(mm)	Weight (kg)
N55MT-250	max.150kg/trolley	max.120 W × 50δ	4.35
N55MT-300	max.200kg/trolley	max.150 W × 50δ	4.75
N55MT-350	max.250kg/trolley	max.250 W × 70δ	5.15
N35TT-120	max.60kg/trolley	max.120 W × 50δ	2.1
N35TT-150	max.70kg/trolley	max.150 W × 50δ	2.30
N55TT-250	max.150kg/trolley	max.250 W × 70δ	2.60
N55TT-350	max.250kg/trolley	max.300 W × 70δ	3.00
N35ET-120	max.60kg/trolley	max.120 W × 50δ	1.25
N35ET-150	max.70kg/trolley	max.150 W × 50δ	1.45
N55ET-250	max.150kg/trolley	max.250 W × 70δ	1.95
N55ET-350	max.250kg/trolley	max.300 W × 70δ	2.35

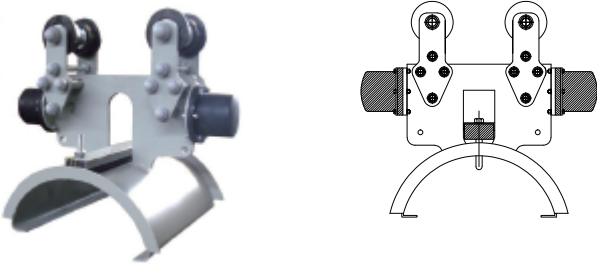
I-Beam Trolley - for Round Cable
N15RMT



Type	Max.cable load	Dia. of Cable(mm)	Weight (kg)
N15RMT	max.5kg/trolley	D= φ 15mm	0.64

I-Beam Trolley
N75MT-1 series / N75MT-2series / N75MT-1 series

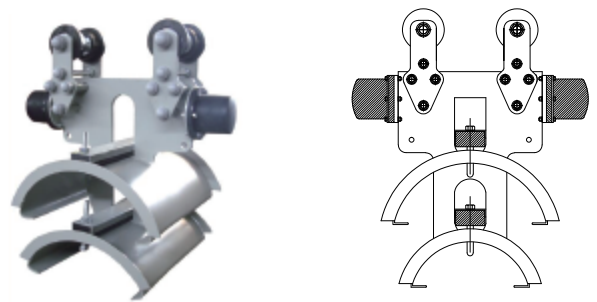
N75-1 - Middle trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +100°C
Max. Cable weight: 200kg

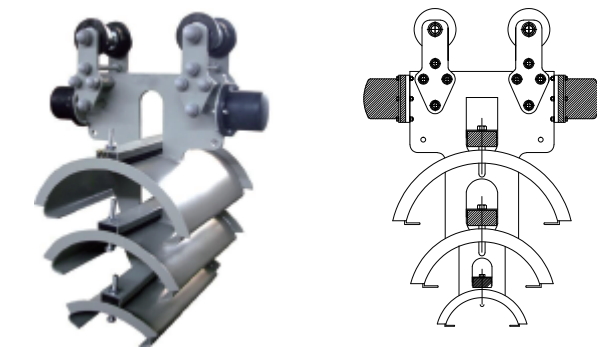
N75-2 - Middle trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +100°C
Max. Cable weight: 200kg

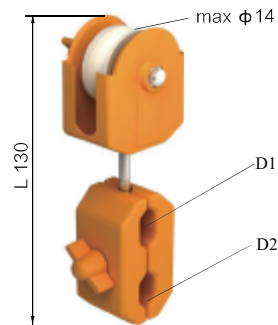
N75-3 - Middle trolley



Technical Feature

Wheels: Ball bearing
Max Travel Speed: 160m/min
Material: Galvanized Steel + ABS
Temperature: -30°C ~ +100°C
Max. Cable weight: 200kg

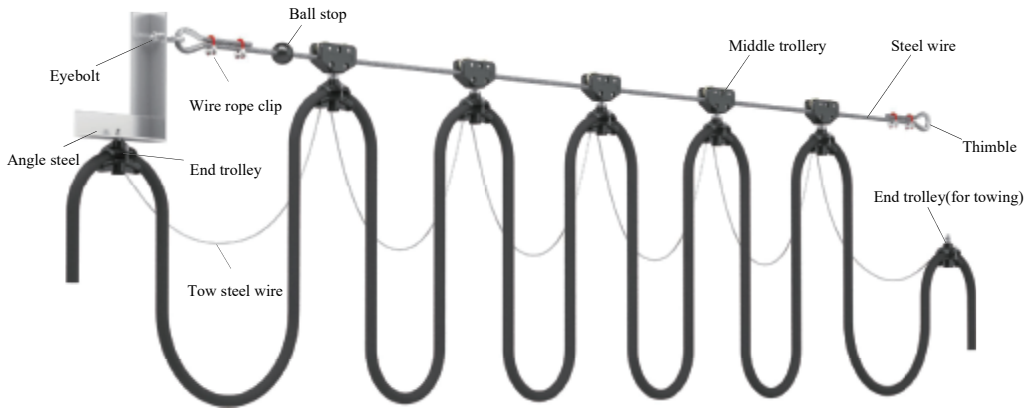
Wire Steel Festoon Accessories - for Round Cable
ST-12/14 & ST-14/16



Technical Feature

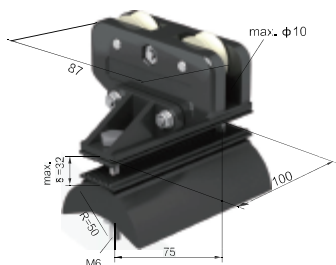
Wheels: Plastic
Max Travel Speed: 100m/min
Material: Plastic
Temperature: -30°C ~ +80°C

Type	Max.cable load	Dia. of Cable(mm)	Weight (kg)
ST-12/14	max.6kg/trolley	max.D1/D2= φ12mm/12mm	0.08
ST-14/16	max.7kg/trolley	max.D1/D2= φ12mm/12mm	0.09



Wire Steel Festoon Accessories - for Flat Cable
WFMT-70 / WFET-70

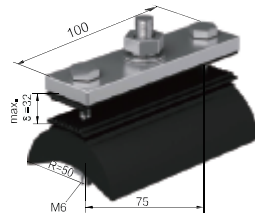
Wire steel festoon system - Middle trolley



Technical Feature

Wheels: Plastic
Max Travel Speed: 120m/min
Material: ABS
Temperature: -30°C ~ +80°C

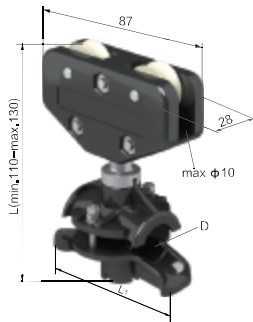
Wire steel festoon system - End trolley



Type	Max.cable load	Dia. of Cable(mm)	Weight (kg)
WFMT-70	max.12kg/trolley	max.75 W × 50 δ	0.20
WFET-70	max.12kg/trolley	max.75 W × 50 δ	0.24

Wire Steel Festoon Accessories - for Round Cable
WRMT-30 / WRMT-40/ WRET-30 / WRET-40

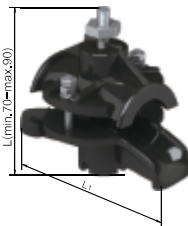
Wire steel festoon system - Middle trolley



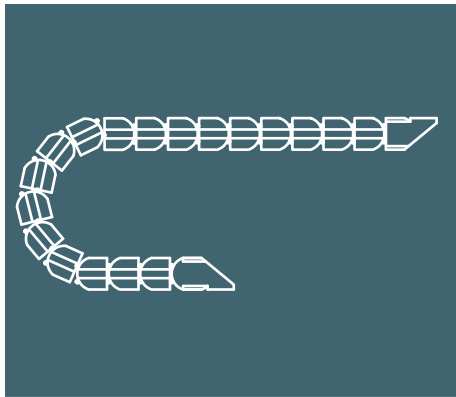
Technical Feature

Wheels: Plastic
Max Travel Speed: 120m/min
Material: ABS
Temperature: -30°C ~ +80°C

Wire steel festoon system - End trolley



Type	Max.cable load	Dia. of Cable(mm)	Weight(kg)
WRMT-30	max.8kg/trolley	D= φ30mm	0.17
WRMT-40	max.10kg/trolley	D= φ40mm	0.18
WRET-30	max.8kg/trolley	D= φ30mm	0.06
WRET-40	max.10kg/trolley	D= φ40mm	0.07



Energy Chain System

Mobile Electrification System

Catalogue

TKA Series

Energy Chain
TKA Series



TKA38 - 75 - R150 - 025

Model

Length of the chain

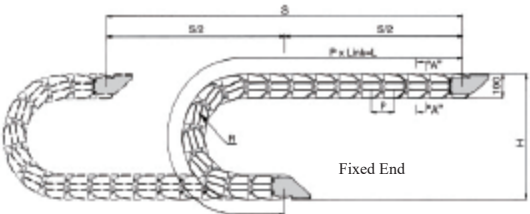
Inside width of the chain

Curve Radius

Feature:

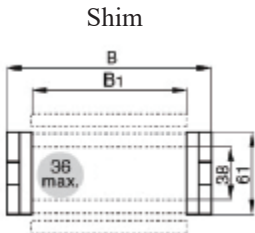
1. The material is reinforced nylon which is more strong and long service life.
2. The chain is special design for twisting-resistant and stretching- resistant.
3. Special wheeled chain design for suspension, long horizontal movement.
 - a) The travel length can reach up to 400-600m
 - b) The noise can reduce 30%, the bearing capacity can increase 20%, and service life can be two times more than common energy chain.
4. The energy chain tray is special for crane festoon system.
 - a) Galvanized steel material is Anti-corrosion.
 - b) Two layer special design which can put the no-mobile cable in the bottom layer.
 - c) High and low position design can let the power feed be in the middle.

Calculation of the length

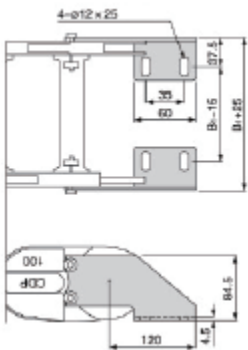


L = Length of the energy chain
S = Travelling length
b = Length of curve
 $L = S/2 + b$

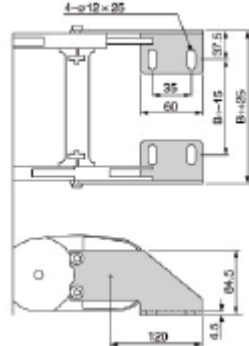
TKA38



Fixed End



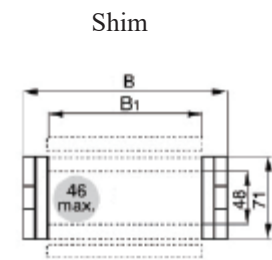
Mobile End



Model No.	Inside Width (mm) B1	Inside Height (mm)	Outside Width (mm) B	Outside Height (mm)	Curve radius (mm)
TKA38	60	38	91	61	75
	75		106		100
	80		111		125
	90		121		150
	100		131		175
	120		151		200
	125		156		250
	150		181		
	175		206		
	200		231		

Energy Chain
TKA Series

TKA48



Shim

Fixed End

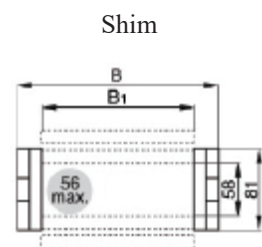


Mobile End



Model No.	Inside Width (mm) B1	Inside Height (mm)	Outside Width (mm) B	Outside Height (mm)	Curve radius (mm)
TKA48	60	48	91	71	75
	75		106		
	80		111		
	90		121		
	100		131		
	120		151		
	125		156		
	150		181		
	175		206		
	200		231		

TKA58



Shim

Fixed End



Mobile End

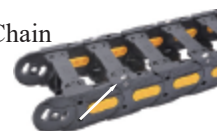


Model No.	Inside Width (mm) B1	Inside Height (mm)	Outside Width (mm) B	Outside Height (mm)	Curve radius (mm)
TKA58	75	57.2	111	89	150
	100		136		
	125		161		
	140		176		
	150		186		
	175		211		
	200		236		
	225		261		
	250		286		
	275		311		
TKA58	300	57.2	336	89	150
	350		386		
	400		436		

Shim



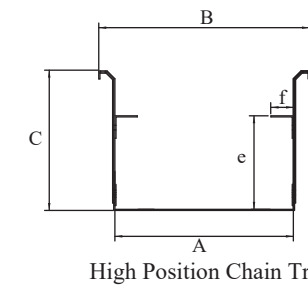
Wheel Chain



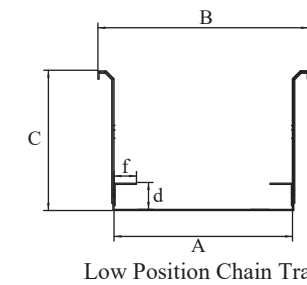
Disassembly Diagram



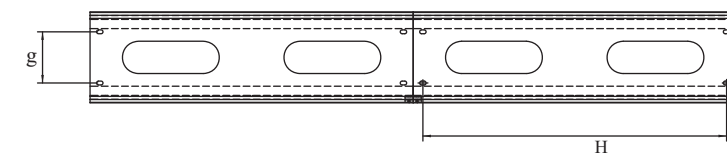
Chain Tray



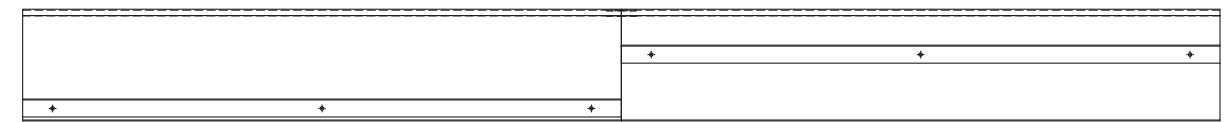
High Position Chain Tray



Low Position Chain Tray



The energy chain tray is special for crane festoon system.
a) Galvanized steel material is Anti-corrosion.
b) Two layer special design which can put the no-mobile cable in the bottom layer.
c) High and low position design can let the power feed be in the middle.



Energy Chain Model		Chain Tray Dimensions							
Model No.	Inside Width (mm)	A	B	C	d	e	f	g	H
TKA38	75	110	157	127	30	85	25	50	1200
	100	135	182	127	30	85	25	70	1200
	125	160	207	127	30	85	25	90	1200
TKA48	125	158	205	151	30	100	25	90	1200
	150	183	230	151	30	100	25	100	1200
	200	233	280	151	30	100	25	120	1200
TKA58	125	165	221	180	35	124	30	90	1200
	150	190	246	180	35	124	30	110	1200
	200	240	296	180	35	124	30	150	1200
	250	290	346	180	35	124	30	200	1200