



THE NEXT GENERATION FOR YOUR APPLICATIONS



QuickTrax EasyTrax UNIFLEX Advanced TKA series



THE NEXT GENERATION FOR YOUR APPLICATIONS

Motion is what drives us. For more than 60 years, we have been developing products that not only react to the ever growing demands of the industry but actually make many further developments in production processes possible through targeted innovations. Our technological improvements optimize complex processes in classic segments such as machine tools, crane systems or medical and laboratory technology as well as for industrial robots, deep-sea oil rigs and space travel. Products such as the UNIFLEX cable carrier have proven successful a thousand times over, taking on a leading position with regard to quality and service life.

In response to increased demands, we have continuously expanded our product range and are now able to develop new application options with improved features. We are pleased to present the next generation of our cable carriers. With the UNIFLEX*Advanced* and the options offered by the TKA, Easy-Trax and QuickTrax series, we have once again optimized our standards, enabling us to present a range that is ideal for your applications in terms of performance, quality and the multiple associated options. We are always in motion.

60 YEARS OF INNOVATIONS AND THOUSANDS OF SUCCESSFUL APPLICATIONS









SAVINGS

Easy handling and fast installation of our products will save you time and money.



EXCELLENCE

Winner of the IF Product Design Award 2013: the TKA55.



FAST DELIVERY

All products are available directly ex warehouse. It doesn't get any faster than that.



ECO LINK

For the active reduction of CO_2 emissions: the Tsubaki environment label.



COMPATIBLE CONNECTION

Various connection options feasible.



OPENING VARIANTS

For maximum flexibility: six opening variants for any requirement.



TIGHT

TKA: no spray water, no dust. No dirt. No chips. Simply tight.



VARIABLE DIVIDER SYSTEM

Movable and fixable dividers – so everything stays in place.



THE NEXT GENERATION QuickTrax



Travel speed up to 10 m/s

FEATURES

noise damping

High torsional rigidity

Travel acceleration up to 50 m/s²

Extremely fast and easy cable laying

Extremely low noise due to integrated

thanks to bracket with film hinge

Extensive unsupported length

Each chain link consists of two different materials:

- Hard cable carrier body made of glass fiber-reinforced material
- Bracket with flexible film hinge made of elastic special plastic
- Sturdy chain design
- High fill level possible

Туре	hi	Bi	t
	[mm]	[mm]	[mm]
QT0320	20	15 – 65	32



Ex-protection

For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < $10^5 \Omega$).

ESD



Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < $10^9 \Omega$) in terms of conductivity and resistance.







INTRODUCTION TO THE NEXT GENERATION - IT COULDN'T BE SIMPLER

Туре	hi				Bi				t				KR							Design			
туре	[mm]				(mn	1]			[mm]				[mm]				030	035	040	045	050	055	060
QT0320 The next Generation	20	15	20	25	38	50	65		32	28	38	48	75	100	125 ¹		•	•	•	•			
UNIFLEX 0345	20	15	20	25	38	50	65	90	34.5		38	50	75	100	125	150	•	•	•	•	•	: -	•
¹ On request												/ width											

Desians

- 030 = Outward hinged-opening and detachable brackets
- 035 = Outward hinged-opening and lockable brackets
- 040 = Inward hinged-opening and detachable brackets
- 045 = Inward hinged-opening and lockable brackets

050 = Covered on one side with internally detachable bracket 055 = Covered on one side with internally lockable bracket 060 = Covered on both sides with internally detachable cover

THE TWO-COMPONENT TECHNOLOGY OF THE QT0320

The two-component technology of the QT0320 combines requirements thanks to its innovative design and material two seemingly incompatible features: stability and flexibility. Cable carriers need to be extremely sturdy, with extensive unsupported length. At the same time, cables need to be inserted easily for fast cable laying. The QT0320 meets these

combination of a hard cable carrier body made from glass fiber-reinforced material and brackets with a film hinge made from rigid special plastic.



THE NEXT GENERATION **EasyTrax**



IPA TSUBAKI

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up to 10 m/s

Travel acceleration up to 50 m/s²



FEATURES

- Extremely fast cable laying thanks to easy cable insertion
- Very high fill level due to the bracket pivoting to the side - bracket does not pivot into the cable space
- Each chain link consists of two different materials:
 - Hard cable carrier body made of glass fiber-reinforced material
 - Bracket with flexible film hinge made of elastic special plastic
- Sturdy chain design
- High torsional rigidity
- Extensive unsupported length
- Extremely low noise due to integrated noise damping

Туре	hi	Bi	t
	[mm]	[mm]	[mm]
ET0320	18	15 – 65	32



Ex-protection

For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with $< 10^5 \Omega$).

ESD



Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with $< 10^9 \Omega$) in terms of conductivity and resistance.





INTRODUCTION TO THE NEXT GENERATION - IT COULDN'T BE SIMPLER

Tuno	hi				Bi					t				KR					Design	
Туре	[mm]				[mm]]				[mm]			I	[mm]				030	035	040
ET0320 The next Generation	18	15	20	25		38	50	65		32	28	38	48		75	100	125 ¹	-		•
UNIFLEX 0250	17.5		20		30	40	50	65	80	25	28	38	45	60	75	100		-	•	
¹ On request											widths fr									

Desians

030 = Outward hinged-opening and detachable brackets

035 = Outward hinged-opening and lockable brackets

040 = Inward hinged-opening and detachable brackets

THE TWO-COMPONENT TECHNOLOGY OF THE ET0320

The two-component technology of the ET0320 combines requirements thanks to its innovative design and material two seemingly incompatible features: stability and flexibility. Cable carriers need to be extremely sturdy, with extensive unsupported length. At the same time, cables need to be inserted easily for fast cable laying. The ET0320 meets these

combination of a hard cable carrier body made from glass fiber-reinforced material and brackets with a film hinge made from rigid special plastic.



THE NEXT GENERATION UNIFLEX Advanced



FEATURES

- Universal connection options
- Extensive unsupported lengths
- High torsional rigidity
- Good ratio of inner to outer width
- Low noise emissions
- Numerous custom material types for custom applications available
- Easy assembly

- Fast cable laying
- Assembly tools available
- Stays with ball joint, opening on both sides
- Strain relief integrated into the end connector
- Fixable dividers

- Many possibilities for internal subdivision
- Optionally with C-rail integrated in the connector
- Wear surfaces for gliding applications involving long travel lengths

Туре	hi [mm]	Bi [mm]	t [mm]
UA1320	20	15 - 65	32
UA1455	26	25 – 103	45.5
UA1555	38	50 - 200	55.5
UA1665	44	50 – 250	66.5



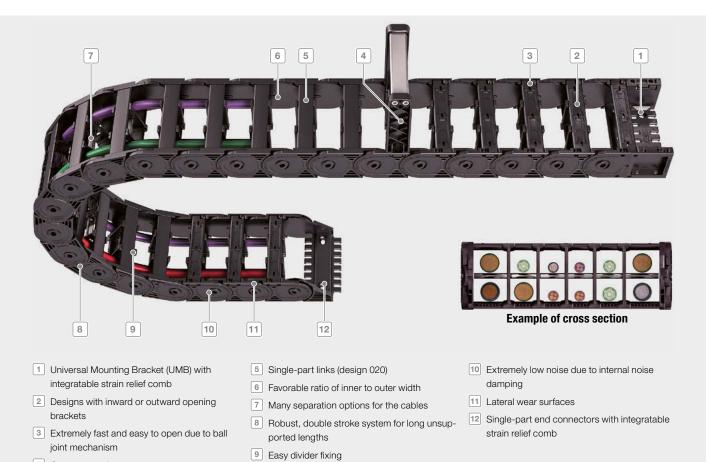
Ex-protection

For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁵ Ω).

ESD

Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < $10^9 \Omega$) in terms of conductivity and resistance.





INTRODUCTION TO THE NEXT GENERATION – IT COULDN'T BE SIMPLER

Туре	h i [mm]					B i [mm]					t [mm]				KF [mr	-				000	000	005		ign	050	055	000
The next					_															020	030	035		045 7	050	055	060
UA1250 The next Generation	17.5		20	30	40	50					25	28	38	45	60	75	100			•	•	•	•	-			
UNIFLEX 0250	17.5		20	30	40	50	65	80			25	28	38	45	60	75	100				•	•					
UA1320 The next Generation	20	15	20	25	38	50	65				32	28	38	48	75	100	125 ⁵			•							
UNIFLEX 0345	20	15	20	25	38	50	65	90			34.5		38	50	75	100	125	150			•	•	•	•	• ¹	• ¹	•'
UA1455 The next Generation	26	25	38	58	78	103	130 ⁶				45.5	52	65	95	125	150	180	200	225 ⁵	•	•	• ⁷	-	7			
UNIFLEX 0455	26	25	38	58	78	103	130				45.5	52	65	95	125	150	180	200	225		•	•	•	-	•	•	•
UA1555 The next Generation	38	50	75	90 ²	100	125	150				55.5	63	80	100	125	160	200	230 ⁴		•	•	• ⁷	•	• ⁷			
UNIFLEX 0555	38	50	75		100	125	150				55.5	63	80	100	125	160	200	230			•	•	•	•		•	•
UA1665 The next Generation	44	50	75	100	125	50	175	200	225	250	66.5	75	100	120	140	200	250	300		•	•	7		7			
UNIFLEX 0665	44	50	75	100	125	150	175	200	225	250	66.5	75	100	120	140	200	250	300			•		•	-	•		3
New widths	from 20	D15											Desig	ns						0	45 =	Inwa	rd hin	ged-	open	ing a	nd

4 Construction frame stay

- ¹ Except B_i 90
- ² Only as version 030
- ³ Up to B_i 175
- ⁴ B_i 50 on request
- ⁵ On request
- ⁶ As UNIFLEX 0455 still available in B_i 130
- 7 The pull-out forces of the UNIFLEX Advanced design 030/040 correspond to
- the UNIFLEX designs 035/045

020 = Closed frame

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kabelschlepp.de/uniflex-advanced 9



THE NEXT GENERATION **TKA series**



Inside widths 15 – 250 mm

Inside heights 20.5 – 45 mm



Additional load up to 10 kg/m

Travel length unsupported up to 6 m

Travel length gliding

up to 150 m Travel speed up to 9 m/s

Travel acceleration up to 45 m/s²



TKA55

IP54

TSUBAKI

ECO

LINK

FEATURES

- Excellent cable protection in the connector area
- Chipping and dirt-resistant due to smooth surfaces
- Extensive unsupported length
- High torsional rigidity
- Good ratio of inner to outer width
- Low noise emissions

- Optional: on request, special material with protection against hot chips up to 850 °C
- Numerous custom material types for custom applications available
- Easy assembly
- Fast cable laying
- TKA55: IP54 tested and certified
- Easy-to-open cover with simultaneously high retention force on the chain link during operation
- Measurement scale for easy alignment of the dividers
- Strain relief can be completely integrated into the mounting bracket (from TKA38)

Туре	hi [mm]	Bi [mm]	t [mm]
TKA30	20.5	15 – 65	30.5
TKA38	26	25 – 130	38.5
TKA45	36	50 – 150	45.5
TKA55	45	50 – 250	55.5



Ex-protection

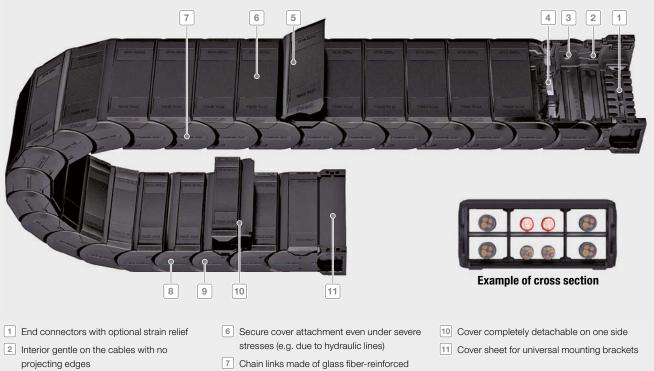
For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁵ Ω).

ESD



Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < $10^9 \Omega$) in terms of conductivity and resistance.





- 3 Integrated noise damper
- 4 Dividers and height separation for separating the cables
- 5 Quick and easy opening from any vantage point
- plastic
- 8 Pin/bore connection and stroke system covered completely
- 9 Designs with inward or outward opening brackets

INTRODUCTION TO THE NEXT GENERATION – IT COULDN'T BE SIMPLER

Туре	hi					Bi					t					KR								Des	sign			
1960	[mm]					[mm]					[mm]					[mm]					030	035	040	045	050	055	060	080
TKA30 The next Generation	20.5	15	20	25	38	50	65				30.5		55	75	95	125	145	180									-	•
UNIFLEX 0345	20	15	20	25	38	50	65	90			34.5	38	50	75	100	125	150					•	•	•	•1	1	• ¹	
TKA38 The next Generation	26	25	38	58	78	103	130				38.5		70	95	120	145	170	195	230								•	•
UNIFLEX 0455	26	25	38	58	78	103	130				45.5	52	65	95	125	150	180	200	225		•	•	•	•	•	•	•	
TKA45 The next Generation	36	50	75	100	125	150					45.5		82	95	125	145	200	230									•	•
UNIFLEX 0555	38	50	75	100	125	150					55.5	63	80	100	125	160	200	230			•	•	•	•	•	•	•	
TKA55 The next Generation	45	50	75	100	125	150	175	200	225	250	55.5		100	120	140	170	195	225	250	300							•	•
UNIFLEX 0665	44	50	75	100	125	150	175	200	225	250	66.5	75	100	120	140		200		250	300	•	-	•		•	•	2 ■	

¹ Except width 90

² Up to Bi 175

- Designs
- 030 = Outward hinged-opening and detachable brackets
- 035 = Outward hinged-opening and lockable brackets
- 040 = Inward hinged-opening and detachable brackets
- 045 = Inward hinged-opening and lockable brackets
- 050 = Covered on one side with internally detachable bracket
- 055 = Covered on one side with internally lockable bracket
- 060 = Covered on both sides with internally detachable cover
- 080 = Covered on both sides with externally detachable cover



CHOOSE ...

... the best possible cable carrier for your requirements. Use the table below to easily decide which cable carrier from the new generation is right for you.

INTRODUCTION TO THE NEXT GENERATION – IT COULDN'T BE SIMPLER

Туре	h i [mm]								B _i [mm]								t [mm]
UNIFLEX 0250	17.5		20	30	40	50	65	80									25
UA1250 The next Generation	17.5		20	30	40	50								İ			25
ET0320 The next Generation	18	15	20	25	38	50	65										32
UNIFLEX 0345	20	15	20	25	38	50	65		90								34.5
TKA30 The next Generation	20.5	15	20	25	38	50	65										30.5
UA1320 The next Generation	20	15	20	25	38	50	65										32
QT0320 The next Generation	20	15	20	25	38	50	65										32
UNIFLEX 0455	26			25	38		58	78		103	130						45.5
UNIFLEX 0455 TKA38	26 26			25 25	38 38		58 58	78 78		103 103	130 130						45.5 38.5
				-						103							
TKA38 The next Ceneration	26			25	38	50	58	78		103	130	150					38.5
TKA38 (hereation) UA1455 (hereation)	26 26			25	38	50	58	78 78		103 103	130 130 ⁴	150					38.5 45.5
TKA38 Thereafter UA1455 Thereafter UNIFLEX 0555	26 26 38			25	38		58	78 78 75	90 ⁵	103 103 100	130 130 ⁴ 125						38.5 45.5 55.5
TKA38 The most for the most	26 26 38 36			25	38	50	58	78 78 75 75	90 ⁵	103 103 100 100	130 130 ⁴ 125 125	150	175	200	225	250	38.5 45.5 55.5 45.5
TKA38 The mathematical sectors UA1455 The mathematical sectors UNIFLEX US555 TKA45 The mathematical sectors UA1555 The mathematical sectors	26 26 38 36 38			25	38	50 50	58	78 78 75 75 75	90 ⁵	103 103 100 100 100	130 130 ⁴ 125 125 125	150 150	175 175	200 200	225 225	250 250	38.5 45.5 55.5 45.5 55.5

New widths from 2015

¹ The pull-out forces of the UNIFLEX Advanced design 030/040 correspond to the UNIFLEX designs 035/045

^a Except B_i 90
⁴ As UNIFLEX 0455 still available in B_i 130 ⁵ Only as version 030
⁶ B_i 50 on request
⁷ Up to B_i 175

² On request



I							KR											Design				
							[mm]							020	030	035	040	045	050	055	060	080
	28	38	45	60	75	100									-	•						
	28	38	45	60	75	100								-		1	-	1				
	28	38	48		75	100	125 ²								-		-					
		38	50		75	100	125	150							•	•	•	•	_3 _	_3 _	_3 ■	
				55	75	95	125	145	180													
	28	38	48		75	100	125 ²							-								
	28	38	48		75	100	125 ²								-	_1 _	-	_ 1				
I				52	65	95	125	150	180	200	225				•	•	•			•	•	
					70	95	120	145	170	195	230											
				52	65	95	125	150	180	200	225 ²			-		1 ■		1				
I				63	80	100	125	160		200	230				•	•	•			•	•	
	ĺ				82	95	125	145		200	230											-
				63	80	100	125	160		200	230 ⁶			-		_1 _		1				
					75	100	120	140		200		250	300		•	•	•	•	•	•	_7 ■	
	Ĺ	_	_			100	120	140	170	195	225	250	300									
					75	100	120	140		200		250	300	-		_ 1		_1 _				

Designs

020 = Closed frame

030 = Outward hinged-opening and detachable brackets

035 = Outward hinged-opening and lockable brackets

040 = Inward hinged-opening and detachable brackets

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TRAXLINE **CABLES FOR CABLE CARRIERS**

TSUBAKI KABELSCHLEPP cables were developed specifi- impose stringent demands on motor and control cables due cally for use in cable carriers. The reliable, durable yet inex- to long travel lengths and high travel speeds. pensive cables can even be used outdoors under adverse environmental conditions, e.g. in port crane systems which

PVC CONTROL CABLES

Cost-effective control cables for standard applications

Temperature: Minimum bending radius. v_{max} unsupported amax: Cross section: Number of cores:

– 5 to + 80 °C $KR_{min} \ge 7.5 \times Q$ $KR_{min} \ge 10 \text{ x } \emptyset$ 3.5 – 10 m/s 10 – 20 m/s² 0.5² to 2.5² 2 - 36

PUR MOTOR CABLES

High-quality, robust motor cables for the most sophisticated applications

Temperature:	– 35 to + 90 °C
Minimum bending	
radius:	$KR_{min} \ge 7.5 \text{ x } \emptyset$
v _{max} unsupported	20 m/s
a _{max} :	50 m/s ²
Cross section:	0.25 ² to 700 ²
Number of cores:	1 – 49

PUR SYSTEM CABLES

High-quality combination cables for sophisticated system applications

Temperature:
Minimum bending
radius:
v _{max} unsupported
a _{max} :
Cross section:
Number of cores:

– 35 to + 90 °C $KR_{min} \ge 7.5 \times Q$ 6 m/s 8 m/s² 0.14² to 50² 4 - 16

PUR CONTROL CABLES

High-quality control cables for the most sophisticated appli-

cations – 35 to + 90 °C Temperature: Minimum bending radius: $KR_{min} \ge 7.5 \ x \ Ø$ 20 m/s v_{max} unsupported 50 m/s² a_{max}: Cross section: 0.5^{2} to 2.5^{2} Number of cores: 2 - 36

PUR DATA CABLES

Super-flexible, continuous bending and robust cables with an inner jacket

- 35 to + 90 °C Temperature: Minimum bending $KR_{min} \ge 7.5 \ x \ Ø$ radius: 20 m/s v_{max} unsupported 50 m/s^2 a_{max}: Cross section: 0.25² to 1.5 Number of cores: 2 – 32

TRAXLINE INFO CENTER

With the aid of the TRAXLINE info center, you can find the right cable for your cable carrier system with just a few clicks of the mouse. Simply enter the parameters for your application at traxline.de and find the ideal cable for your requirements.

PVC MOTOR CABLES

Robust motor cables for sophisticated applications

Temperature: Minimum bending radius: v_{max} unsupported amov. Cross section: Number of cores:

 $KR_{min} \ge 7.5 \ x \ Ø$ 5 m/s20 m/s² 1.5² to 70² 2 - 25

-5 to + 80 °C

PUR BUS/COAXIAL/ LWL CABLES

Super-flexible, continuous bending and robust cables

Temperature:	- 30
Minimum bending	
radius:	type
v _{max} unsupported	3.5 -
a _{max} :	10 m
Cross section:	0.25
Number of cores:	1 – 1

-dependent – 4 m/s n/s² ² to 1.5

2

to + 70 °C





TOTALTRAX COMPLETE SYSTEMS

REDUCE COSTS WITH TOTALTRAX COMPLETE SYSTEMS

Take advantage of our expertise. Our experienced system specialists work closely together with you and support you from the planning and project planning phases all the way up to the installation process. You have just one contact partner for the complete system. All of the components are optimally aligned to one another – cable carriers, electric cables, hydraulic and pneumatic hoses and plug connections. TOTALTRAX means: Complete delivery from a single source – with a guarantee certificate on request. TOTALTRAX will reduce your storage costs for cable carriers, cables and plug connectors. We deliver the complete cable carrier system just-in-time, either directly to your production facilities or to the installation site.

EVERYTHING FROM A SINGLE SOURCE:

- Consultancy
- Planning
- Project planning
- Cable carriers
- Full guaranteeHydraulic hoses

Motor and control cables

- Pneumatic hoses
- Frieumatic noses
- Plug connectors
 Assembly plates
- Complete assembly of all
- components

TOTALTRAX – FROM THE PROJECT PLANNING TO THE COMPLETED SYSTEM

- One contact partner
- + One order
- + One delivery
- + Guaranteed quality
- = TOTALTRAX complete system





CABLE CARRIER SYSTEMS

Cable carriers made of steel and plastic QUANTUM cable and hose carrier system PROTUM cable and hose carrier system ROBOTRAX cable and hose carrier system

TRAXLINE CABLES FOR MOTION

Continuous bending Hi-flex cables for cable carriers TOTALTRAX complete turn-key carrier system Pre-assembled cables

GUIDEWAY PROTECTION SYSTEMS

Telescopic covers Link apron covers Way wipers Conical spring covers Bellows Protective devices

CONVEYOR SYSTEMS

Hinged belt conveyors Scraper conveyors Belt conveyors

TSUBAKI KABELSCHLEPP GmbH

Daimlerstraße 2 D-57482 Wenden-Gerlingen Tel.: +49 (0)2762 4003-0 Fax: +49 (0)2762 4003-220 E-mail: info@kabelschlepp.de kabelschlepp.de

TSUBAKI KABELSCHLEPP worldwide

For contacts, addresses and much more, visit our web site at **kabelschlepp.de**