

## Nylon Cable Chains Robot Series



| MFC65100 | page 190 |
| :--- | :--- |
| MRS | page 198 |
| 495 Series | page 206 |
| 500 Series | page 208 |
| 510TN Series | page 210 |
| 515TN Series | page 210 |
| 545 Series | page 212 |
| 599 Series | page 214 |

# Complete equipment for industrial robot 

Axis 3-6
MRS (Multiflex Retraction System)


## Serie Robot

## MFC65100 <br> MULTIFLEX chain for 3D movements with opening frames

Chain for multi-axis movement, for application on robots and newgeneration work centers, fully-enclosed, with opening frames.


| Inner <br> diameter diameter <br> $\mathbf{m m}$ <br> $\mathbf{m m}$ | Outer | Minimum <br> bend radius <br> $\mathbf{m m}$ | Pitch <br> $\mathbf{m m}$ | No. of <br> links per <br> meter | Weight <br> $\mathbf{k g} / \mathbf{m}$ | Torsion <br> per meter | Lodged <br> utilities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 63 | 77 | 100 | 18.5 | 54 | 1.6 | $\sim \pm 540^{\circ}$ | max. $\varnothing 20 \mathrm{~mm}$ |



## Fixation accessories

## Fixation brackets with clamping combs

Standard bracket set with clamping combs.
This product is used at the extremities of MULTIFLEX chain.


| Type <br> of latch | Part No. |
| :--- | :--- |
| Nylon | AMF65K01 |
| Zinc-plated steel | AMF65M01 |

## Fixation brackets with clamping combs

## Frontal fixation

Standard bracket set with clamping combs, for frontal fixation. This product is used at the extremities of MULTIFLEX chain.


| Type <br> of latch | Part No. |
| :--- | :--- |
| Nylon | AMF65K01F |
| Zinc-plated steel | AMF65M01F |

## End and intermediate fixation brackets

Standard bracket set without clamping combs.
This product can be used anywhere on MULTIFLEX chain.


| Type <br> of latch | Part No. |
| :--- | :--- |
| Nylon | AMF65K02 |
| Zinc-plated steel | AMF65M02 |

## End and intermediate fixation brackets

## Frontal fixation

Standard bracket set without clamping combs, for frontal fixation.
This product can be used anywhere on MULTIFLEX chain.


| Type <br> of latch | Part No. |
| :--- | :--- |
| Nylon | AMF65K02F |
| Zinc-plated steel | AMF65M02F |

## Serti Robot



Assembly instructions

## Serte Robot

# MFC65100 MULTIFLEX chain for 3D movements with opening frames 

## Protection and guiding accessories

## Sliding fixation brackets

Sliding bracket set.
This product can be used anywhere on MULTIFLEX chain.


| Type <br> of latch | Part No. |
| :--- | :---: |
| Nylon | AMF65K03 |
| Zinc-plated steel | AMF65M03 |

## Sliding fixation brackets

 Frontal fixationSliding bracket set, for frontal fixation.
This product can be used anywhere on MULTIFLEX chain.


## Oscillating guiding support with ring

Allows to guide passage of chain, maintaining all degrees of liberty of movement.


## Protection ring

Bumper and rotating protection against hard shocks and extreme friction.
This product can be used anywhere on MULTIFLEX chain.

$\qquad$
PCM65

Rotating base
Universal rotating flange, usable with any fixation device. Allows rotation of fixation brackets and pivoting forks.


## Connection jaw

Connector between MULTIFLEX chain and corrugated sheath NW70, or between chain and multi-holed rubber seal. To combine with one fixation brackets type PASSB-70K or PASSB-70M.

| Type <br> of latch | Part No. |
| :--- | :--- |
| Nylon | PASSB-70K |
| Zinc-plated steel | PASSB-70M |



## Fixation bracket

To combine with Part No. PAGB-70/8529.


## Part No.

PAVGB-70/8529

Connection ring
Connector between MULTIFLEX chain and corrugated sheath NW70.


## Part No.

 GJM65

## Sertie Robot



Assembly instructions

## Sertie Robot

# MFC65100 <br> MULTIFLEX chain for 3D movements with opening frames 

## Rubber seals and end caps

## Holed end rubber seals

Multi-hole rubber seal $\varnothing 14 \mathrm{~mm}(4 x)$ - $\varnothing 20 \mathrm{~mm}(4 \times)$



Part No.
TKKSB-70B01

## Holed end rubber seals

Multi-hole rubber seal $\varnothing 7.5 \mathrm{~mm}(1 \times)-\varnothing 10 \mathrm{~mm}(1 \times)-\varnothing 12.5 \mathrm{~mm}(2 x)-\varnothing 20 \mathrm{~mm}(4 \times)$


Part No.
TKKSB-70B02

## Holed end rubber seals

Multi-hole rubber seal $\varnothing 12.5 \mathrm{~mm}(1 \times)-\varnothing 14 \mathrm{~mm}(1 \times)-\varnothing 15.5 \mathrm{~mm}(2 x)-\varnothing 20 \mathrm{~mm}(3 x)$


Part No.
TKKSB-70B03

Holed end rubber seals
Multi-hole rubber seal $\varnothing 7.5 \mathrm{~mm}(2 x)$ - $\varnothing 10 \mathrm{~mm}(1 \times)$ - $\varnothing 12.5 \mathrm{~mm}(1 \times)$ $\varnothing 15.5 \mathrm{~mm}(1 \times)$ - $\varnothing 20 \mathrm{~mm}(2 \mathrm{x})$


## Holed end rubber seals

Multi-hole rubber seal $\varnothing 12.5 \mathrm{~mm}(1 \times)$ - $\varnothing 14 \mathrm{~mm}(2 x)$ - $\varnothing 17 \mathrm{~mm}(1 \times)$ Ø $18 \mathrm{~mm}(3 \mathrm{x})$ - Ø $19 \mathrm{~mm}(1 \times)$



Part No.
TKKSB-70B05

Serit Robot
MULTIFLEX


## Serte Robot

# MFC65100 <br> MULTIFLEX chain for 3D movements with opening frames 

## Holed end rubber seals

Multi-hole rubber seal $\varnothing 12.5 \mathrm{~mm}(1 \times)-\varnothing 15.5 \mathrm{~mm}(2 x)-\varnothing 14 \mathrm{~mm}(1 \times)-\varnothing 20 \mathrm{~mm}(4 \times)$


Part No.
TKKSB-70B07

Blind end rubber seal



Part No.
TKKSB70BLIND

## End caps



| Part No. |  |
| :--- | :--- |
| Cap 8 | Item No. |
| $\varnothing 10 \mathrm{~mm}$ | TKBSB-10 |
| $\varnothing 12.5 \mathrm{~mm}$ | TKBSB-12.5 |
| $\varnothing 14 \mathrm{~mm}$ | TKBSB-14 |
| $\varnothing 15.5 \mathrm{~mm}$ | TKBSB-15.5 |
| $\varnothing 19.5 \mathrm{~mm}$ | TKBSB-19.5 |

## Kevlar protective coat

## Non-opening Kevlar protective coat for dynamic applications

Coat made of Kevlar aramidic fiber on one side; the other side features an aluminum layer in relief that covers the outer surface and reflects up to $95 \%$ of I thermal radiations.
Protects against weld spurts up to $540^{\circ} \mathrm{C}$.
Kevlar tissue offers good resistance to oils, greases, acids, bases, and solvents in low concentration.
The reflecting surface offers good resistance to UV rays as well.

## Technical data

Thickness: 0.35 mm
Specific weight: 1.44 / $1.45 \mathrm{~g} / \mathrm{cm}^{3}$
Pulling resistance: 2500 N/50 mm
Flammability: non-flammable (up to DIN 4102B1)

| Part No. |  |
| :--- | :--- |
| Length | Item No. |
| 500 mm | KA04S08005 |
| 1000 mm | KA04S08010 |
| 1500 mm | KA04S08015 |
| 2000 mm | KA04S08020 |



## Velcro opening Kevlar protective coat for static applications

Coat made of Kevlar aramidic fiber on one side; the other side features an aluminum layer in relief that covers the outer surface and reflects up to $95 \%$ of I thermal radiations.
Protects against weld spurts up to $540^{\circ} \mathrm{C}$.
Kevlar tissue offers good resistance to oils, greases, acids, bases, and solvents in low concentration.
The reflecting surface offers good resistance to UV rays as well.

Technical data
Thickness: 0.35 mm
Specific weight: 1.44 / $1.45 \mathrm{~g} / \mathrm{cm}^{3}$
Pulling resistance: 2500 N/50 mm
Flammability: non-flammable (up to DIN 4102B1)

| Part No. |  |
| :--- | :--- |
| Length | Item No. |
| 500 mm | KA04S080G05 |
| 1000 mm | KA04S080G10 |
| 1500 mm | KA04S080G15 |
| 2000 mm | KA04S080G20 |



## Serie Robot



Assembly instructions

## Serie Robot

MRS

## Dresspack system for robot

Spring-driven retraction dresspack system for industrial robots that features 3D chain MULTIFLEX or polyamide conduits, accessories, and specific installation brackets.


## Available sizes

| MRSC29 |
| :--- |
| Dresspack with corrugated |
| conduits NW29 |

MRSC36
Dresspack with corrugated conduits NW36

## MRSC52*

Dresspack with corrugated conduits NW52

| MRSC70* |
| :--- |
| Dresspack with corrugated | conduits NW70


| MRSM65* |
| :--- |
| Dresspack with Multiflex chain |
| MFC65100 |


*Caseless version available

# Dresspack system for robot 

## Installation Brackets for MRS C29 / C36

For all widely used drill pattern, custom solution on request.

|  | Part number | Robot OEM | Robot model | Weight kg |
| :--- | :--- | :--- | :--- | :--- |
|  | SAMRS10.001 | FANUC | M70IC50 <br> M70IC70 | 1.3 |
|  | SAMRS10.002 | FANUC | R-2000iC <br> R-2000iB <br> R-2000iA <br> S430 | 0.4 |
|  | SAMRS10.003 | KUKA | KR12 <br> KR16 <br> KR20_R1810 | 0.6 |

B
SAMRS10.004
ABB
IRB2600
2.6


Sertie Robot


# Dresspack system for robot 

## Installation Brackets for MRS C52 / M65 / C70

For all widely used drill pattern, custom solution on request.

|  | Part number | Robot OEM | Robot model | Weight kg |
| :--- | :--- | :--- | :--- | :--- |
|  | SAMRS30.001 |  | R-2000iC125L <br> R-2000iC165F/210F <br> R-2000iB <br> R-2000iA <br> S430 |  |


| SAMRS20.012 | HYUNDAI | HS160L | 0.2 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | SAMRS20.007 | KR3100 ultra <br> KR120 <br> KR90 <br> KR150 <br> KR420 | 2.4 |  |
|  | SAMRS20.008 | FANUC | M-900iB/700 | 2.8 |

Fibryelig

Serit Robot


Brackets for robots not listed may be manufactured upon request

## Serie Robot

 MRS
## Dresspack system for robot

## Brackets for axis no. 6 (Tennis Racket)

| Part number | Robot model | With recess | A (Ø) | B (Ø) | Weight (KG) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TRMRS00.001 | COMAU NJ-165 | no | 102 | / | 2.9 |
| TRMRS00.002 | FANUC R-2000iB | yes | 165 | 160 | 2.6 |
|  | FANUC R-2000iA |  |  |  |  |
|  | FANUC R-2000iC/125L |  |  |  |  |
|  | FANUC M-410iC |  |  |  |  |
|  | KAWASAKI ZX165U |  |  |  |  |
| TRMRS00.003 | FANUC M-900iB/700 | no | 275 | / | 3.7 |
| TRMRS00.004 | FANUC M-900iB/360 | no | 220 | / | 2.9 |
|  | FANUC M-900iB/280L |  |  |  |  |
|  | KUKA KR420 |  |  |  |  |
| TRMRS00.005 | ABB IRB 2400 | yes | 80 | 63 | 1.2 |
|  | ABB IRB 2600 |  |  |  |  |
|  | ABB IRB 460020 |  |  |  |  |
|  | KUKA KR20 |  |  |  |  |
| TRMRS00.006 | FANUC M-710iC 45/50/70 | no | 124 | 1 | 2 |
| TRMRS00.007 | FANUC M-710iC 20L | yes | 80 | 50 | 1.3 |
|  | ABB IRB 1600 |  |  |  |  |
| TRMRS00.008 | ABB IRB 6620 | no | 200 | / | 2.6 |
|  | ABB IRB 6640 |  |  |  |  |
|  | ABB IRB 6650 |  |  |  |  |
|  | ABB IRB 6600 |  |  |  |  |
|  | ABB IRB 6700 |  |  |  |  |
|  | FANUC R-2000iC/210L |  |  |  |  |
|  | KUKA KR210-R3100 |  |  |  |  |
|  | KUKA KR120 |  |  |  |  |
| TRMRS00.009 | KUKA KR90 | no | 140 | / | 2.4 |
|  | KUKA KR120 |  |  |  |  |
|  | KUKA KR150 |  |  |  |  |
|  | KUKA KR160 |  |  |  |  |
| TRMRS00.010 | FANUC M-900iA/400L | no | 314 | 1 | 4.4 |
| TRMRS00.011 | EPSON C8-A1401S | no | 1 | 1 | 1.2 |
| TRMRS00.012 | KUKA KR40PA | no | 125 | / | 1.9 |
|  | COMAU NJ-40 |  |  |  |  |
|  | COMAU NJ-60 |  |  |  |  |
|  | ABB IRB 4600 40 / 45 / 60 |  |  |  |  |
| TRMRS00.013 | COMAU NJ-110 | no | 150 | / | 2.4 |
| TRMRS00.014 | COMAU NS-16 | no | 82 | 1 | 1.4 |
| TRMRS00.015 | KAWASAKI RS30N / 50N / 80N | no | 133 | 1 | 1.5 |
| TRMRS00.016 | YASKAWA GP180 | no | 160 | 1 | 2.7 |
| TRMRS00.017 | ABB IRB 7600-400 | no | 250 | 1 | 3.4 |
| TRMRS00.018 | KAWASAKI RS015X | no | 75 | 1 | 1.4 |
| TRMRS00.019 | FANUC M20iD | no | 56 | 1 | 1.1 |
| TRMRS00.020 | KUKA KR50 / KR70 | yes | 125 | 122 | 1.4 |
| TRMRS00.021 | FANUC R-1000iA/80F | yes | 125 | 121 | 1.4 |
| TRMRS00.022 | ABB IRB 8700 | no | 315 | / | 4 |
| TRMRS00.023 | COMAU NJ-16 | no | 100 | 1 | 1.4 |



[^0]Input data for robot dresspack enquiry
Circular Chain
(axis 1)
YES NO $\square$ Indicate degrees of rotation

MRS
of Utilities


Stationary Side


Robot OEM
Robot model

MRS/Conduits size

495
Circular Nylon Cable Chain with removable frames

## Inner height (D) $\mathbf{3 5} \mathbf{~ m m}$

Double share Sideband \& Frame construction with large anti-friction single-pin.
Frames removable from inner radius.


## Pin

Part.no PG305

## Technical characteristics

| Speed | $180 \%$ s |
| :--- | ---: |
| Acceleration | $180 \% / \mathrm{s}^{2}$ |


| A <br> mm | $\mathbf{B}$ <br> mm | C <br> mm | Dm <br> mm | R <br> mm | Weight/pitch <br> kg | Chain <br> Part Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 69 | 45 | 45 | 35 | 100 | 0,100 | 495 |

For higher requirements please consult our technical dept.


| $\mathbf{R}$ |  |  |
| :---: | :---: | :---: |
| $\mathbf{m m}$ | $\mathbf{D i}$ |  |
| $\mathbf{m m}$ | $\mathbf{D e}$ <br> $\mathbf{m m}$ |  |
| 100 | 600 | 755 |


| Length of Chain |  |  |
| :--- | :---: | :---: |
| Chain <br> Part Numbers | Degrees <br> of Rotation | No <br> of Pitches |
| 495 | 90 | 13 |
| 495 | 180 | 18 |
| 495 | 270 | 22 |
| 495 | 360 | 26 |



## Steel End Brackets

The end brackets set, containing two steel plates screwed to the links, allows the two ends of the chain to be attached to the equipment. The end brackets are installed in one position offering the possibility of attaching the chain externally. (Fig. A)


Fig. A

## Steel End Brackets Part Numbers

\section*{| Complete Set Assembled |  |
| :--- | :---: |
| Chain | End Brackets |
| Type | Set |
| $495 . .$. | A495KM |}

Complete Set Unassembled

| Chain <br> Type | End Brackets <br> Set |
| :--- | :---: |
| $495 \ldots$ | A495K |

## Support Guide

For correct functioning of the chain it is necessary that the installation is done in a specific position.
For this reason Brevetti Stendalto has observed and created a support guide which can do this. (Fig. B)
For particular applications it is possible to create support guides with attachment plates and special dimensions.


Fig. B

For applications with rotations exceeding $200^{\circ}$ it is necessary to use the appropriate accessories for supporting the cable chain. (see page 29).

## Seu゙e Robot

495
Circular Nylon Cable Chain with removable frames

## Serie Robot

## 500 <br> Circular Nylon Cable Chain

## Inner height (D) $\mathbf{3 0} \mathbf{~ m m}$

Single link construction.
Frames opening from inner radius. Internal separation available.

## Technical characteristics

| Speed | $180 \%$ s |
| :--- | ---: |
| Acceleration | $180 \% \mathrm{~s}^{2}$ |

For higher requirements please consult our technical dept.


## Separator

- Unassembled Part.no S500
- Assembled Part.no S500MC

| A <br> mm | B <br> mm | C <br> mm | $\mathbf{D}$ <br> mm | R <br> mm | Weight/pitch <br> kg | Chain <br> Part Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 86,5 | 43 | 68,5 | 30 | 100 | 0,086 | $\mathbf{5 0 0 1 0}$ |
| 86,5 | 43 | 68,5 | 30 | 150 | 0,086 | $\mathbf{5 0 0 2 0}$ |


| $\mathbf{R}$ <br> $\mathbf{m m}$ | Di <br> $\mathbf{m m}$ | De <br> $\mathbf{m m}$ |
| :---: | :---: | :---: |
| 100 | 630 | 830 |
| 150 | 630 | 830 |


| Length of Chain |  |
| :---: | :---: |
| Chain $\quad$ Degrees | No |
| Part Numbers of Rotation | of Pitches |


| 50010 | 90 | 13 |
| :---: | :---: | :---: |
| 50010 | 180 | 17 |
| 50010 | 270 | 21 |
| 50010 | 360 | 26 |
| 50020 | 90 | 15 |
| 50020 | 180 | 19 |
| 50020 | 270 | 24 |
| 50020 | 360 | 28 |

## Steel End Brackets

The end brackets set, containing two steel plates screwed to the links, allows the two ends of the chain to be attached to the equipment. The end brackets are installed in one position offering the possibility of attaching the chain externally. (Fig. A)


Fig. A

| Chain <br> Type | H |
| :--- | :--- |
| 50010 | 330 |
| 50020 | 410 |

## Steel End Brackets Part Numbers

| Complete Set Assembled |  |
| :--- | :---: |
| Chain | End Brackets <br> Set |
| Type | A50010NKM |
| 50010 | A50020NKM |
| 50020 | End Brackets <br> Set |
| Complete Set Unassembled | A50010NK |
| Chain | A50020NK |
| Type |  |
| 50010 |  |
| 50020 |  |

## Support Guide

For correct functioning of the chain it is necessary that the installation is done in a specific position.
For this reason Brevetti Stendalto has observed and created a support guide which can do this. (Fig. B)
For particular applications it is possible to create support guides with attachment plates and special dimensions.


Fig. B

For applications with rotations exceeding $200^{\circ}$ it is necessary to use the appropriate accessories for supporting the cable chain. (see page 29).

## Serie Robot

## 500

Circular Nylon Cable Chain

Serie Robot

## 510TN-515TN Circular Nylon Cable Chain with opening frames

## Inner height (D) $\mathbf{4 6} \mathbf{~ m m}$

Double share Sideband \& Frame construction with large anti-friction twin-pin.
Frames opening from inner radius.


Pin 510TN

|  | Part.no PG511 |
| :--- | ---: |
| Pin 515TN |  |
|  | Part.no PG515-B515 |

Technical characteristics

| Speed | $180 \%$ s |
| :--- | ---: |
| Acceleration | $180 \% \mathrm{~s}^{2}$ |


| A <br> mm | $\mathbf{B}$ <br> mm | C <br> mm | $\mathbf{D}$ <br> mm | R <br> mm | Weight/pitch <br> kg | Chain <br> Part Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 132 | 55 | 88 | 46 | 125 | 0,200 | 510TN |
|  |  |  |  |  |  |  |
| 132 | 55 | 88 | 46 | 175 | 0,200 | 515TN |

For higher requirements please consult our technical dept.


| Chain <br> Part Number | R <br> $\mathbf{m m}$ | Di <br> $\mathbf{m m}$ | De <br> $\mathbf{m m}$ |
| :--- | :---: | :---: | :---: |
| 510TN | 125 | 940 | 1220 |
| 515TN | 175 | 1060 | 1340 |


| Length of Chain |  |
| :---: | :---: |
| Chain $\quad$ Degrees | No |
| Part Numbers of Rotation | of Pitches |



515TN

## Steel End Brackets

The end brackets set, containing two steel plates screwed to the links, allows the two ends of the chain to be attached to the equipment. The end brackets are installed in one position offering the possibility of attaching the chain externally. (Fig. A)

## 510TN



Fig. A

## 515TN



Fig. A


## Steel End Brackets Part Numbers

| Complete Set Assembled <br> Chain <br> Type | End Brackets <br> Set |
| :--- | :---: |
| 510TN | A510TNKM |
| 515TN | A515TNKM |
| Complete Set Unassembled |  |
| Chain | End Brackets <br> Set |
| Type | A510TNK |
| 510TN | A515TNK |

## Support Guide

For correct functioning of the chain it is necessary that the installation is done in a specific position.
For this reason Brevetti Stendalto has observed and created a support guide which can do this. (Fig. B)
For particular applications it is possible to create support guides with attachment plates and special dimensions.


Fig. B
For applications with rotations exceeding $200^{\circ}$ it is necessary to use the appropriate accessories for supporting the cable chain. (see page 29).


## Serie Robot

## 510TN <br> 515TN

Circular Nylon Cable Chain with opening frames

For further information please consult Brevetti Stendalto's Technical Office

## 545

## Circular Nylon Cable Chain with opening frames

## Inner height (D) $\mathbf{4 6} \mathbf{~ m m}$

Double share Sideband \& Frame construction with large anti-friction single-pin.
Frames opening from inner radius.


## Separator

- Unassembled Part.no S445UF
- Assembled Part.no S445UFMC


## Pin

Part.no PG545

## Technical characteristics

| Speed | $180 \%$ s |
| :--- | ---: |
| Acceleration | $180 \% / \mathrm{s}^{2}$ |

For higher requirements please consult our technical dept.


| A | $\mathbf{B}$ | C | D | R | Weight/pitch | Chain <br> mm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | mm | mm | mm | kg | Part Number |  |
| 123 | 62 | 100 | 46 | 100 | 0,200 | $\mathbf{5 4 5 S I 1 0 0 1 0 0}$ |



| Length of Chain <br> Chain |  |  |
| :--- | :---: | :---: |
| Degrees <br> Part Numbers of Rotation | No <br> of Pitches |  |
| 545 | 90 | 14 |
| 545 | 180 | 18 |
| 545 | 270 | 22 |
| 545 | 360 | 27 |



## Steel End Brackets

The end brackets set, containing two steel plates screwed to the links, allows the two ends of the chain to be attached to the equipment. The end brackets are installed in one position offering the possibility of attaching the chain externally. (Fig. A)


Fig. A

## Steel End Brackets Part Numbers

\section*{| Complete Set Assembled |  |
| :--- | :---: |
| Chain | End Brackets |
| Type | Set |
| 545 | A545KM |}

## Complete Set Unassembled

| Chain End Brackets <br> Type  | Set |
| :--- | :---: |
| 545 | A545K |

## Support Guide

For correct functioning of the chain it is necessary that the installation is done in a specific position.
For this reason Brevetti Stendalto has observed and created a support guide which can do this. (Fig. B)
For particular applications it is possible to create support guides with attachment plates and special dimensions.


Fig. B

For applications with rotations exceeding $200^{\circ}$ it is necessary to use the appropriate accessories for supporting the cable chain. (see page 29).

## Seu゙e Robot

## 545

Circular Nylon Cable Chain with opening frames

## Serie Robot

## 599

## Circular Nylon Cable Chain with un-screwable aluminium frames

## Inner height (D) $\mathbf{5 9} \mathbf{~ m m}$

Strong double share Sideband \& Frame construction with three single-pins in steel for high torsion resistance.
Alu-frames are un-screwable from inner and outer radius.


Technical characteristics

| Speed | $180 \%$ s |
| :--- | ---: |
| Acceleration | $180 \% / \mathrm{s}^{2}$ |

For higher requirements please consult our technical dept.


## Steel End Brackets

The end brackets set, containing two steel plates screwed to the links, allows the two ends of the chain to be attached to the equipment. The end brackets are installed in one position offering the possibility of attaching the chain externally. (Fig. A)


Fig. A

Steel End Brackets Part Numbers


## Complete Set Unassembled

| Chain <br> Type | End Brackets <br> Set |
| :--- | :---: |
| 599 | A599K |

## Support Guide

For correct functioning of the chain it is necessary that the installation is done in a specific position.
For this reason Brevetti Stendalto has observed and created a support guide which can do this. (Fig. B)
For particular applications it is possible to create support guides with attachment plates and special dimensions.


Fig. B

For applications with rotations exceeding $200^{\circ}$ it is necessary to use the appropriate accessories for supporting the cable chain. (see page 29).

## Serie Robot

## 599

Circular Nylon Cable Chain with un-screwable aluminium frames

# Separation System 

The Separation System, proposed by Brevetti Stendalto, guarantees the perfect disposal of cables inside the chain and allows an easy opening of the frame also when the chain is already harnessed. A wide range of horizontal separators is available in order to obtain many different arrangements.


## 445MU/PU/AU

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 4 horizontal separations.


## 660A - 306SU/CU - 326SU

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 2 horizontal separations.


## 307SU

Side separator. Halfway separator. Horizontal separator. Up to 4 horizontal separations.


## 309SU/CU - 475MU/PU - 478MU/PU 319ZE - 329SU - 329CD

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 6 horizontal separations.

## 770A

Side separator. Halfway separator. Horizontal separator. Up to 4 horizontal separations.


## 308SU/CU - 328SU

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 4 horizontal separations.


## 80PU

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 6 horizontal separations.


## 325LI/LE/PI

Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 2 horizontal separations.


| Horizontal <br> Separator <br> Part Number | $\mathbf{X}$ <br> $\mathbf{m m}$ |
| :---: | :---: |
| SO11031 | 31 |
| SO11052 | 52 |
| SO11068 | 68 |

Side separator. Halfway mobile separator. Halfway separator. Horizontal separator. Up to 4 horizontal separations.
Separation system with 2 slots or 3 slots.


Side separator. Halfway mobile separator. Halfway separator. Horizontal separator. Up to 4 horizontal separations.


Side separator. Halfway separator. Horizontal separator. In chains type H80 and H100, versions PC and PA, dimensions of inner compartments change according to the position of horizontal separators, due to the inner cover.


Side Separator. Halfway Separator. Horizontal Separator.
S1105F designed to having a side of 5 slots and other side of 3 slots for many separations.


X36
Side separator. Halfway separator. Halfway mobile separator. Horizontal separator. Up to 4 horizontal separations.


| Horizontal <br> Separator <br> Part Number | $\mathbf{X}$ <br> $\mathbf{m m}$ |
| :---: | :---: |
| SO11031 | 31 |
| SO11052 | 52 |
| SO11068 | 68 |



| Horizontal <br> Separator <br> Part Number | $\mathbf{X}$ <br> $\mathbf{m m}$ |
| :---: | :---: |
| SO11031 | 31 |
| SO11052 | 52 |
| SO11068 | 68 |


[^0]:    Tennis rackets for robots not listed mav be manufactured upon request

