HPC – HIGH PERFORMANCE COUNTING

Current Counting Discs Catalogue





Type

Maschinen- und Werkzeugbau

Alternative Part No. Rotation direction Koester Part No. Adapter Part No. SEG +0 $\frac{R}{L}$ Ø \Rightarrow GSM 13° R6.5 119.6 SST č 18.6 -1 6 119.6 70-120 Clockwise KPN-A01-010-R KPN-A15-010-RV-R 10.0101046.R119.6 Counterclockwise KPN-A01-010-L KPN-A15-010-LV-LD 10.0101046.L119.6 SEG $\frac{R}{L}$ Ø +0 \triangleright GSM V8 SST 13° Č 18.6 -1 119.6 6 50-120 Clockwise KPN-A01-080-R KPN-A15-010-RV-R 10.0101046.R119.6/13V8 Counterclockwise KPN-A01-080-L KPN-A15-010-LV-LD 10.0101046.L119.6/13V8 SEG Ø \triangleright +0 GSM V8 40 ar. R SST 13° 18.6 Č -1 6 119.6 40-110 Clockwise KPN-A01-081-R KPN-A15-010-RV-R 10.0101046.R119.6V8_40GR SEG R L Ø <u>|</u> 13° GSM +0 \Rightarrow V9 SST \check{c} 24.1 -2.5 3 129.6 50-160 Clockwise KPN-A01-090-R KPN-A15-010-RV-R 10.0101046.R129.6V9 KPN-A15-010-LV-LD Counterclockwise KPN-A01-090-L 10.0101046.L129.6V9 24.1 $\frac{R}{L}$ SEG Ø GSM +0 13° V10 SST č 129.6 60-115 -1 6 Clockwise KPN-A01-100-R KPN-A15-010-RV-R 10.0101046.R129.6V10 Counterclockwise KPN-A01-100-L KPN-A15-010-LV-LD 10.0101046.L129.6V10 SEG Ø +0 $\frac{R}{L}$ \Rightarrow \square GSM V11 SST 13° Ċ 24.1 -2.5 3 129.6 60-120 Clockwise KPN-A01-110-R 10.0101046.R129.6V11 KPN-A15-010-RV-R Counterclockwise KPN-A01-110-L KPN-A15-010-LV-LD 10.0101046.L129.6V11 $\frac{R}{L}$ SEG Ø \triangleright +0 GSM V12 SST 13° č 24.1 3 129.6 -2.5 90-250 Clockwise KPN-A01-120-R KPN-A15-010-RV-R 10.0101046.R129.6V12 Counterclockwise KPN-A01-120-L KPN-A15-010-LV-LD 10.0101046.L129.6V12

> Our counting discs are constantly being further developed and optimized. All information refers only to the current range of counting discs.

Type Rotation direction	Koester Part No.	Adapter Part No.	Alternative Part No.	Type Rotation direction Koester Part No. Adapter Part No. Alternative Part No.
V13	SST SEG 3	Ø 139 10° GSM 120- 300	$\begin{array}{c c} & & & \\ \hline \\ 29.2 \end{array} \begin{array}{c} & & \\ \hline \\ C \end{array} \begin{array}{c} +0 \\ -1 \end{array} \begin{array}{c} \\ \hline \\ L \end{array}$	C7 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 6 \end{array} \begin{array}{c} \emptyset \\ 158 \end{array} \begin{array}{c} \searrow \\ 8^{\circ} \end{array} \begin{array}{c} GSM \\ 120 \\ 350 \end{array} \begin{array}{c} \longrightarrow \\ 36.6 \end{array} \begin{array}{c} \leftrightarrow \\ C \end{array} \begin{array}{c} +0 \\ -3 \end{array} \begin{array}{c} R \end{array}$
Clockwise Counterclockwise	KPN-A01-130-R KPN-A01-130-L	KPN-A15-010-RV-R KPN-A15-010-LV-LD	10.0101046.R139V13 10.0101046.L139V13	Clockwise KPN-A02-007-R KPN-A15-020-RV-RC7
V15	SST SEG 4	Ø SSM 40-150	≥ 29.2 C +0 −2 R	S1 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 4 \end{array} \left(\begin{matrix} \emptyset \\ 139 \end{matrix} \right) \left(\begin{matrix} \frown \\ 9^{\circ} \end{matrix} \right) \left(\begin{matrix} GSM \\ 200^{\circ} \\ 500 \end{matrix} \right) \left(\begin{matrix} \frown \\ 25.8 \end{matrix} \right) \left(\begin{matrix} \frown \\ E \end{matrix} \right) \left(\begin{matrix} +0 \\ -1.5 \end{matrix} \right) \left(\begin{matrix} R \\ L \end{matrix} \right)$
Clockwise	KPN-A01-150-R	KPN-A15-010-RV-R	10.0101046.R139V15	Clockwise KPN-A03-001-R KPN-A15-030-RV-RS1 10.010101046.R139S1 Counterclockwise KPN-A03-001-L KPN-A15-030-RV-LS1 10.010101046.L139S1
C1 (HPC ready SST SEG 6	Ø 112 13° GSM 35-70	► +0 +0 R 14.4 C -0.5 R	S2 $\begin{array}{c c} HPC \\ ready \end{array} SST \\ SST \\ S \\$
Clockwise	KPN-A02-001-R	KPN-A15-020-RV-RC1	10.0101046.R112/13_C1	Clockwise KPN-A03-002-R KPN-A15-030-RV-RS2 10.010101046.R119.6/8_S2 Counterclockwise KPN-A03-002-L KPN-A15-030-RV-LS2 10.010101046.L119.6/8_S2
C2	HPC ready SST SEG 6	Ø 129.6 10° GSM 30-150	$\begin{array}{ c c c } \hline \hline \\ 24.1 \end{array} \begin{array}{ c c } \hline \\ \hline \\ C \end{array} \begin{array}{ c c } +0 \\ -3 \end{array} \begin{array}{ c } \hline \\ \hline \\ L \end{array}$	S3 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 5 \end{array} \left(\begin{matrix} \emptyset \\ 119.6 \end{matrix} \right) \left(\begin{matrix} b \\ 8^{\circ} \end{matrix} \right) \left(\begin{matrix} GSM \\ 40-115 \end{matrix} \right) \left(\begin{matrix} b \\ 16.1 \end{matrix} \right) \left(\begin{matrix} b \\ E \end{matrix} \right) \left(\begin{matrix} +0 \\ -2.5 \end{matrix} \right) \left(\begin{matrix} R \\ L \end{matrix} \right) \left(\begin{matrix} b \\ 11 \end{matrix} $
Clockwise Counterclockwise	KPN-A02-002-R KPN-A02-002-L	KPN-A15-020-RV-RC2 KPN-A15-020-LV-LC2	10.0101046.R129.6/10_C2 10.0101046.L129.6/10_C2	Clockwise KPN-A03-003-R KPN-A15-030-RV-RS3 10.010101046.R119.6/8_S3 Counterclockwise KPN-A03-003-L KPN-A15-030-RV-LS3 10.010101046.L119.6/8_S3
C3	HPC ready SST SEG 6	Ø 119.6 10° GSM 35-140	$\begin{array}{ c c c c c } \hline \hline \\ \hline 18.6 \end{array} \begin{array}{ c c c } \hline \\ \hline $	S4 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 6 \end{array} \begin{array}{c} \emptyset \\ 129.6 \end{array} \begin{array}{c} \searrow \\ 8^{\circ} \end{array} \begin{array}{c} GSM \\ 40-115 \end{array} \begin{array}{c} \longmapsto \\ 21.1 \end{array} \begin{array}{c} +0 \\ E \end{array} \begin{array}{c} -3 \end{array} \begin{array}{c} R \\ L \end{array}$
Clockwise Counterclockwise	KPN-A02-003-R KPN-A02-003-L	KPN-A15-020-RV-RC3 KPN-A15-020-LV-LC3	10.0101046.R119.6_C3	Clockwise KPN-A03-004-R KPN-A15-030-RV-RS4 10.010101046.R129.6/8_S4 Counterclockwise KPN-A03-004-L KPN-A15-030-LV-LS4 10.010101046.L129.6/8_S4
C4	HPC ready SST SEG 3	Ø 158 8° GSM 250- >600	65.5 C +0 −3 R	S5 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 4 \end{array} \begin{array}{c} \emptyset \\ 129.6 \end{array} \begin{array}{c} \searrow \\ 8^{\circ} \end{array} \begin{array}{c} GSM \\ 40-115 \end{array} \begin{array}{c} \longmapsto \\ 21.1 \end{array} \begin{array}{c} +0 \\ E \end{array} \begin{array}{c} +0 \\ -4 \end{array} \begin{array}{c} R \\ L \end{array}$
Clockwise Counterclockwise	KPN-A02-004-R	KPN-A15-020-RV-RC4		Clockwise KPN-A03-005-R KPN-A15-030-RV-RS5 10.010101046.R129.6/8_S5 Counterclockwise KPN-A03-005-L KPN-A15-030-LV-LS5 10.010101046.L129.6/8_S5
C6	HPC ready SST SEG 6	Ø 129.6 10° GSM 50-200	$\begin{array}{c c} & & & \\ \hline 24.1 & C & -2 & \hline \\ \hline \end{array}$	S6 $\begin{array}{c c} HPC \\ ready \end{array} SST \begin{array}{c} SEG \\ 4 \end{array} \begin{array}{c} \emptyset \\ 158 \end{array} \begin{array}{c} \searrow \\ 8^{\circ} \end{array} \begin{array}{c} GSM \\ 4^{\circ}-200 \end{array} \begin{array}{c} \longrightarrow \\ 31 \end{array} \begin{array}{c} +4 \\ E \end{array} \begin{array}{c} +4 \\ -4 \end{array} \begin{array}{c} R \\ L \end{array}$
Clockwise Counterclockwise	KPN-A02-006-R KPN-A02-006-L	KPN-A15-020-RV-RC2 KPN-A15-020-LV-LC2		Clockwise KPN-A03-006-R KPN-A15-030-RV-RS6 10.0101046.R158/8_S6 Counterclockwise KPN-A03-006-L KPN-A15-030-LV-LS6 10.0101046.L158/8_S6

Our counting discs are constantly being further developed and optimized. All information refers only to the current range of counting discs. Our counting discs are constantly being further developed and optimized. All information refers only to the current range of counting discs.



Specific Explanations

Counting Discs Positions Overview

R6.5 119.6	In production use since 1991. Initial designation 117.6. Typical application, counting banknotes.		
V8	In production use since 2002. First disc design with micro suction holes instead of suction slots.		
V8 40 gr.	Enhanced design of the V8 disc. Grammages up to min. 40 GSM could be counted - a breakthrough in the processing of low GSM values.		
V9	In production use since 2002. First disc design that processes and counts higher sheet-to-sheet offset tolerances and an extended product range almost independent of substrate.		
V12	First disc for processing higher GSM values.		
V13	First disc with flat suction profile for high GSM values.		
C1	Designed for processing very small formats, e.g. format size 9x32 mm in combination with our HPC counting machine B03.		
C3	Latest design, the successor of the 119.6, V8, V8 40 gr. Larger GSM range combined with smaller diameter.		
S6	Counting on the side edge of the product. Increased distance to the transfer block. Free choice of counting area on the product side edge. Simplification of the layer separation for loading purposes.		
S01	Developed to recognize printed codes on the side edge of the product. The world's first counting disc with an enlarged opening gap.		



Features of Koester HPC Discs

The Original



00

The Copy

Features of Koester HPC Discs

The Original



- Disc type and part number
- Koester logo as of 2018 before without logo
- Laser-welded disc body
- Wing ring screwed



- Guaranteed manufacturing precision
- Guaranteed concentricity and axial runout



The Copy

 \sim



- Precise, automated CNC production
- Constant geometry
- Constant working noise
- Surface plane ground
- Surface mirror polished



- Identical segments
- Identical fillets
- Identical drilling pattern
- Identical function of all segments
- Guaranteed repeatability



Features of Koester HPC Discs

Features of Koester HPC Discs

The Original Koester discs as of 2018 with logo before without logo





The Manipulation Genuine Koester discs supplied by the competitor as of 2018

The Original Discs supplied by Koester





The Manipulation Genuine Koester discs supplied by the competitor







Logo label cut off and removed



Logo removed by competitor

Counting Discs – Since 1991

HPC – HIGH PERFORMANCE COUNTING



Basic Information

Counting Discs:

- The details of the GSM values are based on experience and tests.
 Depending on the product rigidity, these values may differ.
- Older produced counting discs for corner position are designated by 1xx,x for the diameter in "mm" and / or "V8 - V15" depending on the type.
- Newly produced counting discs for corner position are designated by "C1-Cx" depending on the type.
- Newly produced counting discs for edge position are designated by "S1-Sx" depending on the type.
- Warranty for the lifetime of the counting discs is not granted as the abrasive wear depends highly to the processed product.

Counting Machines:

- Maximum counting speed refers generally to the rated maximum rpm value and the machine design.
- It is not granted that maximum speed can be attended using all kind of substrates / materials.
- Warranty time 12 months upon issuing of the acceptance certificate.
- Warranty extension 24 months optionally available.
- Warranty coverage except wear parts.





Köster GmbH · Maschinen- und Werkzeugbau · Robert-Bosch-Straße 4 · D-74182 Obersulm-Willsbach Telefon: +49 (0) 7134 4051 · E-Mail: service@koester-gmbh.de · Internet: www.koester-gmbh.de

Köster GmbH · **Maschinen- und Werkzeugbau** · Robert-Bosch-Straße 4 · D-74182 Obersulm-Willsbach Telefon: +49 (0) 7134 4051 · E-Mail: service@koester-gmbh.de · Internet: www.koester-gmbh.de