

## HSSX-V2 SCHAFTFRÄSER

## HSSX-V2 END MILLS



1.4

1



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3



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Qualitätsprodukte für die Metallbearbeitung.  
Quality products for metalworking.

# HSSX-V2

Die Neuauflage der Power-Serie.  
The new edition of the power series.



## Der wahrscheinlich beste HSS-Fräser der Welt.

HSSX-V2 TiAlN-FUTURA beschichtet, sensationell verschleißfest.

- Extrem zäh (bei HRC 68 ± 1)
- Trocken- und Nassbearbeitung
- Schnittgeschwindigkeit ca. 50 % höher als mit HSSE-Fräsern
- Deutliche Standzeiterhöhung auch bei schwer zerspanbarem Material
- Anwendungstemperatur bis max. 800° C
- Erhöhung der Verschleißbeständigkeit
- Feines Oberflächenmuster (Typ N und Typ HR) - Große Fertigungssicherheit
- Niedrige Werkzeugkosten

INHALTSVERZEICHNIS · TABLE OF CONTENTS

Art.	HSSX-V2 Schaftfräser · HSSX-V2 End mills	Material	UNI	STAHL steel < 1400 N/mm <sup>2</sup>	GJL	GJS	INOX Edelstahl STAINLESS STEEL	INCONEL HASTELLOY TITANIUM	NE METALLE non-ferrous	
Schaftfräser / End mills z=3										
44 2429		 HSSX V2	232	✓	✓	✓	✓	✓	✓	✓
44 2469		 HSSX V2	233	✓	✓	✓	✓	✓	✓	✓
Schaftfräser / End mills z=4										
44 1661		 HSSX V2	234	✓	✓	✓	✓	✓	✓	✓
44 1663		 HSSX V2	235	✓	✓	✓	✓	✓	✓	✓



- Lagerware / Stock tool
- Keine Lagerware, Lieferzeit und Preis auf Anfrage  
No stock tool. Price and delivery on request
- ◼ Lieferzeit kurzfristig da Rohlinglager vorhanden  
Short delivery deadline possible then blanks are on stock available

- 🏷️ Sonderpreis. Solange Vorrat reicht. Rückgabe nicht möglich.  
Special price. While stocks last. Return not possible.
- 📅 2-3 Arbeitstage Lieferzeit / 2-3 work days delivery time

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## 44 2429

HSSX-V2-Schaftfräser  
HSSX-V2-end mills

- UNI
- STAHL  
steel  
< 1400 N/mm<sup>2</sup>
- INOX  
Edelstahl  
STAINLESS STEEL
- GJL
- GJS
- TITAN  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE  
METALLE  
non-ferrous



neu  
new

HSSX-V2  
BESCHICHTET  
COATED



d1* = Ø 6,0	tol 0 / -0,028
d1* = Ø 8,0 - Ø 10,0	tol 0 / -0,034
d1* = Ø 12,0 - Ø 16,0	tol 0 / -0,043
d1* = Ø 20,0	tol 0 / -0,053

Art.	d1	l2	d2	l1	z	€
44 2429 0600	• 6	13	6	57	3	11,00
44 2429 0800	• 8	19	10	69	3	13,00
44 2429 1000	• 10	22	10	72	3	15,00
44 2429 1200	• 12	26	12	83	3	19,00
44 2429 1600	• 16	32	16	92	3	28,00
44 2429 2000	• 20	38	20	104	3	39,00

HSSX V2	DIN 844 K-B
N	DIN 1835 Form B
30°	
HRC < 45	
TIALN-FUTURA	
OIL Emul MMKS	

Schnittdaten Cutting data  
Zeichnungen Drawings

1345 DXF/STEP

## 70 3004

HSSX-V2-Schaftfräser – Set  
HSSX-V2-end mills – set

- UNI
- STAHL  
steel  
< 1400 N/mm<sup>2</sup>
- INOX  
Edelstahl  
STAINLESS STEEL
- GJL
- GJS
- TITAN  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE  
METALLE  
non-ferrous



neu  
new

HSSX-V2  
BESCHICHTET  
COATED



d1* = Ø 6,0	tol 0 / -0,028
d1* = Ø 8,0 - Ø 10,0	tol 0 / -0,034
d1* = Ø 12,0 - Ø 16,0	tol 0 / -0,043
d1* = Ø 20,0	tol 0 / -0,053

Art.	Set	€
70 3004	Set bestehend aus je 1 St. Art. 44 2429 Ø 6, 8, 10, 12, 16, 20 Set consisting of 1 pc. each Art. 44 2429 Ø 6, 8, 10, 12, 16, 20	115,00

HSSX V2	DIN 844 K-B
N	DIN 1835 Form B
30°	
HRC < 45	
TIALN-FUTURA	
OIL Emul MMKS	

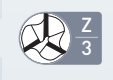
Schnittdaten Cutting data  
Zeichnungen Drawings

1345 DXF/STEP

HSSX-V2-Feinschruppfräser  
HSSX-V2-fine roughing end mills

44 2469

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN**  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE**  
METALLE  
non-ferrous



d1* = Ø 6,0	tol +0,120 / 0
d1* = Ø 8,0 - Ø 10,0	tol +0,150 / 0
d1* = Ø 12,0 - Ø 16,0	tol +0,180 / 0
d1* = Ø 20,0	tol +0,210 / 0

Art.	d1	l2	d2	l1	z	€
44 2469 0600	• 6	13	6	57	3	12,00
44 2469 0800	• 8	19	10	69	3	15,00
44 2469 1000	• 10	22	10	72	3	17,00
44 2469 1200	• 12	26	12	83	3	20,00
44 2469 1600	• 16	32	16	92	3	29,00
44 2469 2000	• 20	38	20	104	3	41,00

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>HR</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Schnittdaten Cutting data

Zeichnungen Drawings

**1345** **DXF/STEP**

HSSX-V2-Feinschruppfräser – Set  
HSSX-V2-fine roughing end mills – set

70 3006

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN**  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE**  
METALLE  
non-ferrous



d1* = Ø 6,0	tol +0,120 / 0
d1* = Ø 8,0 - Ø 10,0	tol +0,150 / 0
d1* = Ø 12,0 - Ø 16,0	tol +0,180 / 0
d1* = Ø 20,0	tol +0,210 / 0

Art.	Set	€
70 3006	Set bestehend aus je 1 St. Art. 44 2469 Ø 6, 8, 10, 12, 16, 20 Set consisting of 1 pc. each Art. 44 2469 Ø 6, 8, 10, 12, 16, 20	124,00

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>HR</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Schnittdaten Cutting data

Zeichnungen Drawings

**1345** **DXF/STEP**



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## 44 1661

HSSX-V2-Schaftfräser  
HSSX-V2-end mills

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN TITANIUM**  
< 1100 N/mm<sup>2</sup>
- NE METALLE**  
non-ferrous



d1* = Ø 6,0	tol 0 / -0,028
d1* = Ø 8,0 - Ø 10,0	tol 0 / -0,034
d1* = Ø 12,0 - Ø 16,0	tol 0 / -0,043
d1* = Ø 20,0	tol 0 / -0,053

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>N</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Art.	d1	l2	d2	l1	z	€
44 1661 0600	• 6	13	6	57	4	11,00
44 1661 0800	• 8	19	10	69	4	13,00
44 1661 1000	• 10	22	10	72	4	15,00
44 1661 1200	• 12	26	12	83	4	19,00
44 1661 1600	• 16	32	16	92	4	28,00
44 1661 2000	• 20	38	20	104	4	39,00

Schnittdaten  
Cutting data

Zeichnungen  
Drawings

1345

DXF/STEP

## 70 3008

HSSX-V2-Schaftfräser – Set  
HSSX-V2-end mills – set

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN TITANIUM**  
< 1100 N/mm<sup>2</sup>
- NE METALLE**  
non-ferrous



d1* = Ø 6,0	tol 0 / -0,028
d1* = Ø 8,0 - Ø 10,0	tol 0 / -0,034
d1* = Ø 12,0 - Ø 16,0	tol 0 / -0,043
d1* = Ø 20,0	tol 0 / -0,053

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>N</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Schnittdaten  
Cutting data

Zeichnungen  
Drawings

1345

DXF/STEP

Art.	Set	€
70 3008	Set bestehend aus je 1 St. Art. 44 1661 Ø 6, 8, 10, 12, 16, 20 Set consisting of 1 pc. each Art. 44 1661 Ø 6, 8, 10, 12, 16, 20	115,00

HSSX-V2-Feinschruppfräser  
HSSX-V2-fine roughing end mills

44 1663

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN**  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE**  
METALLE  
non-ferrous



d1* = Ø 6,0	tol +0,120 / 0
d1* = Ø 8,0 - Ø 10,0	tol +0,150 / 0
d1* = Ø 12,0 - Ø 16,0	tol +0,180 / 0
d1* = Ø 20,0	tol +0,210 / 0

Art.	d1	l2	d2	l1	z	€
44 1663 0600	• 6	13	6	57	4	12,00
44 1663 0800	• 8	19	10	69	4	15,00
44 1663 1000	• 10	22	10	72	4	17,00
44 1663 1200	• 12	26	12	83	4	20,00
44 1663 1600	• 16	32	16	92	4	29,00
44 1663 2000	• 20	38	20	104	4	41,00

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>HR</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Schnittdaten Cutting data **1345**

Zeichnungen Drawings **DXF/STEP**

HSSX-V2-Feinschruppfräser – Set  
HSSX-V2-fine roughing end mills – set

70 3009

- UNI**
- STAHL**  
steel  
< 1400 N/mm<sup>2</sup>
- INOX**  
Edelstahl  
STAINLESS STEEL
- GJL**
- GJS**
- TITAN**  
TITANIUM  
< 1100 N/mm<sup>2</sup>
- NE**  
METALLE  
non-ferrous



d1* = Ø 6,0	tol +0,120 / 0
d1* = Ø 8,0 - Ø 10,0	tol +0,150 / 0
d1* = Ø 12,0 - Ø 16,0	tol +0,180 / 0
d1* = Ø 20,0	tol +0,210 / 0

Art.	Set	€
70 3009	Set bestehend aus je 1 St. Art. 44 1663 Ø 6, 8, 10, 12, 16, 20 Set consisting of 1 pc. each Art. 44 1663 Ø 6, 8, 10, 12, 16, 20	124,00

<b>HSSX V2</b>	<b>DIN 844 K-B</b>
<b>HR</b>	<b>DIN 1835 Form B</b>
	<b>HRC &lt; 45</b>
	<b>TIALN-FUTURA</b>
	<b>OIL Emul MMKS</b>

Schnittdaten Cutting data **1345**

Zeichnungen Drawings **DXF/STEP**



**Ihre Notizen & Zeichnungen**  
**Your notices & drafts**

A large grid area for taking notes and drawings, consisting of 30 columns and 40 rows of small squares.

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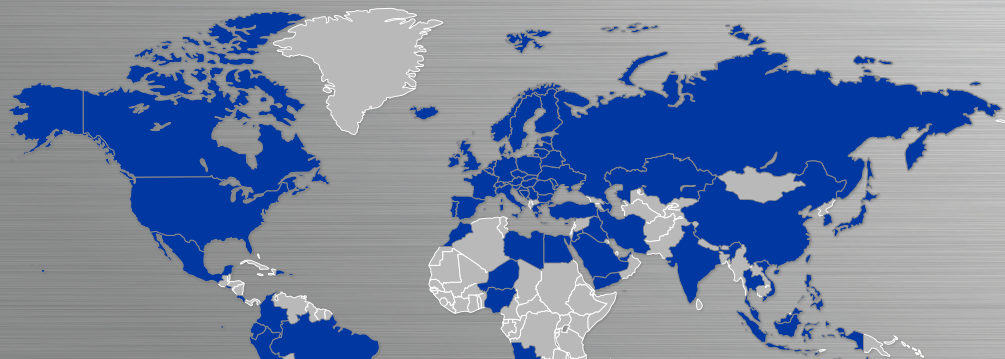
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