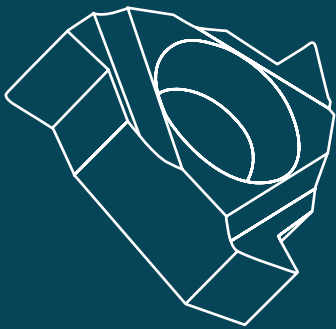
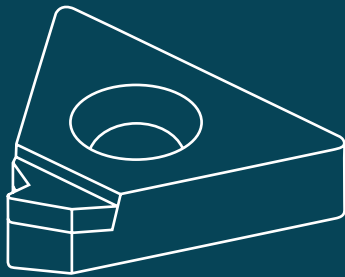




THREADING / carbide



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

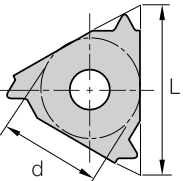
DRILLS

SPARE PARTS

INDEX


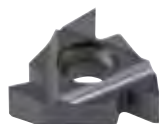
16	E	R	M	—	1.50
1	2	3	4		5

1 Insert Size (d)	
08	4,76mm
11	6,35mm
16	9,525mm
22	12,70mm
27	15,875mm



2 Insert Type	
E	External
I	Internal

3 Hand of Insert	
R	Right
L	Left

4 Chip Breaker	
M	 Chip Breaker Type
Non	 Regular Type

5* Pitch (Full Profile)	
0.35~6.0	mm
3~72	TPI

5* Pitch (Partial Profile)	
A	0.50~1.50
AG	0.50~3.00
G	1.75~3.00
N	3.50~5.00
Q	5.50~6.00

* Should use only one table based on profile type

* Should use only one table based on profile type

ISO	PS	7	4	30
6	10	11	12	13

6 Thread Standard

60	Partial Profile 60°
55	Partial Profile 55°
STACME	Stub ACME
UN	American UN
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
ABUT	American Buttress
BBUT	British Buttress

SAGE	Metric Buttress DIN513
BUT	API Buttress Casing
APIRD	API Round Casing & Tubing
EL	Extreme Line Casing
NPT	NPT
NPTF	NPTF
NPS	NPS
PG	Pg DIN 40430

API	API
ISO	ISO Metric
UNJ	UNJ
MJ	ISO 5855
TR	Trapez DIN103
ACME	ACME
RD	Round DIN405

10 Coating & Material

CS	CVD Coated Carbide
PS	PVD Coated Carbide
PB	New PVD Coating
KS	Ceramic
SS	Cermet
US	Uncoated


11 Workpiece Material

2	Non-Ferrous Material
4	Hardened Steel
5	Steel
7	Stainless Steel
8	Cast Iron
9	General Machining

12 Machining

1	Turning
2	Turning New
4	Threading
9	Milling

13 ISO Grade

05	
10	
15	
20	
25	
30	
35	
40	
45	

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

GRADES

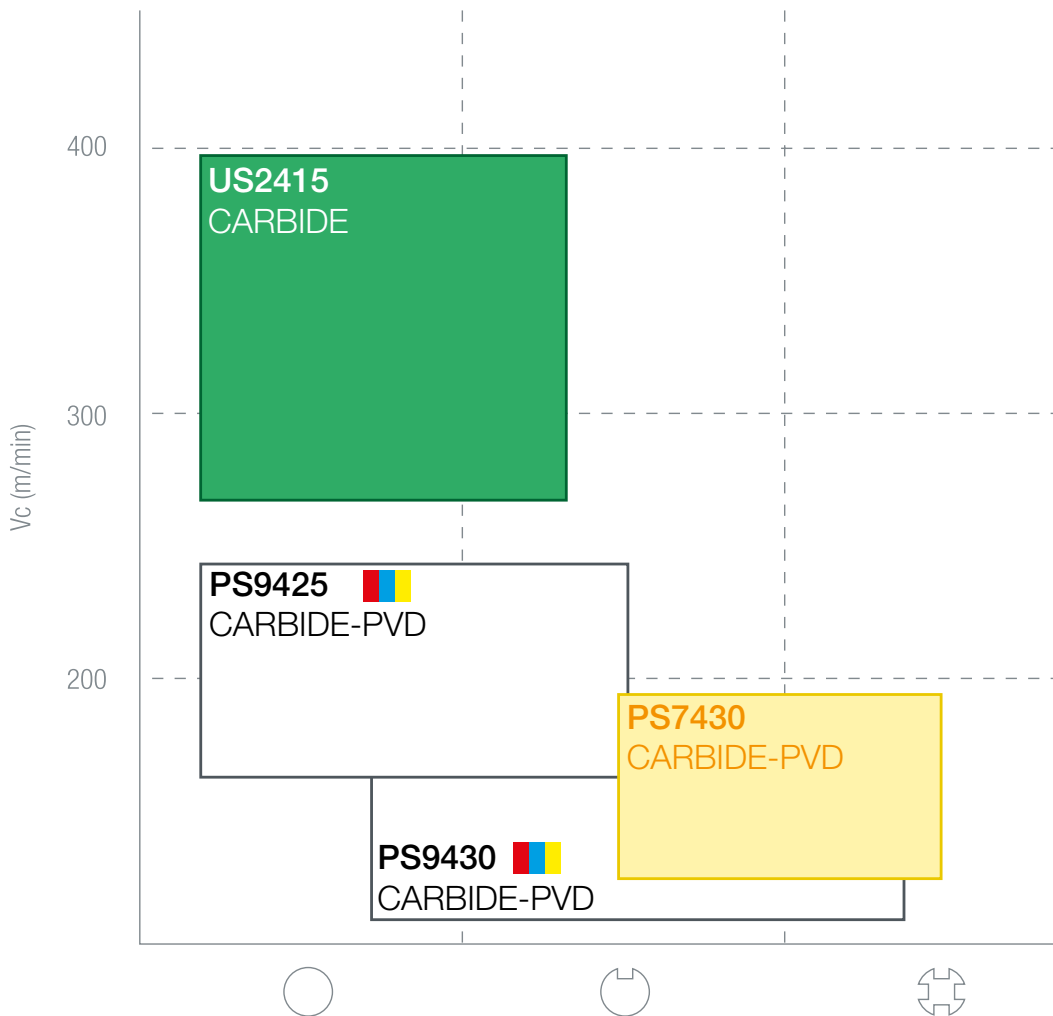
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

	ISO DIN 513																			
	P					M					K					N				
	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40	N01	N10	N20	N30	N40
CARBIDE CVD																				
CARBIDE PVD	PS9425					PS9425					PS9425									
	PS9430					PS9430					PS9430									
	PS7430					PS7430														
CARBIDE UNCOATED																				US2415
CARBIDE UNCOATED																				

THREADING

Range ISO **P** **M** **K**

Grades



TURNING

GROOVING

THREADING

MILLING

DRILLING

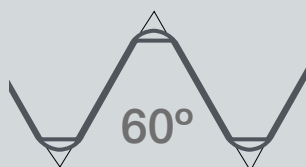
ENDMILLS

DRILLS

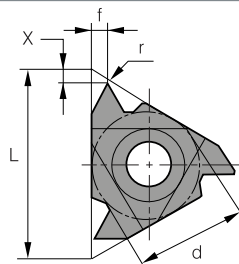
SPARE PARTS

INDEX

ER



EXTERNAL PARTIAL PROFILE



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425
PS9430
PS7430
US2415



R_a d l hmin x f



11ER-A60 0.5~1.5 48-16 6.35 11 0.05 0.8 0.9 ● ● ● ●

16ER-A60 0.5~1.5 48-16 9.525 16 0.05 0.8 0.9 ● ● ●

16ER-G60 1.75~3.0 14-8 9.525 16 0.27 1.2 1.7 ● ● ●

16ER-AG60 0.5~3.0 48-8 9.525 16 0.08 1.2 1.7 ● ● ●

22ER-N60 3.5~5.0 7-5 12.7 22 0.53 1.7 2.5 ● ● ●

27ER-Q60 5.5~6.0 4.5-4 15.875 27 0.64 2.1 3.1 ● ● ●

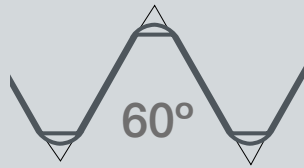


16ERM-AG60 0.5~3.0 48-8 9.525 16 0.08 1.2 1.7 ● ● ●

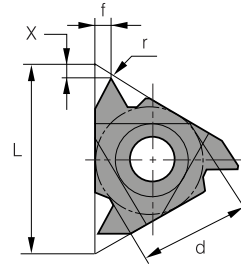
16ERM-G60 1.75~3.0 14-8 9.525 16 0.27 1.2 1.7 ● ● ●

THREADING

IR



INTERNAL PARTIAL PROFILE



- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	08IR-A60	0.5~1.5	48-16	4.76	8	0.05	0.6	0.7	●			
	11IR-A60	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16IR-A60	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●			
	16IR-G60	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●	●		●
	16IR-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	
	22IR-N60	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27IR-Q60	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16IRM-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

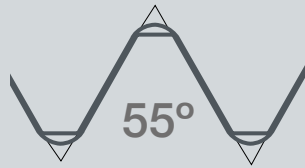
ENDMILLS

DRILLS

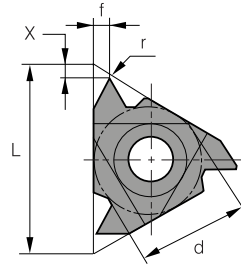
SPARE PARTS

INDEX

ER



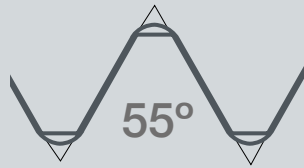
EXTERNAL PARTIAL PROFILE



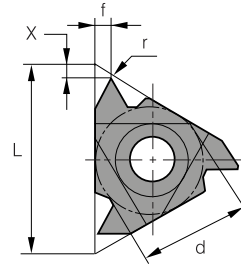
DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11ER-A55	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16ER-A55	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●		●	
	16ER-G55	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●	●		
	16ER-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	●
	22ER-N55	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27ER-Q55	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16ERM-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			

THREADING

IR



INTERNAL PARTIAL PROFILE



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	08IR-A55	0.5~1.5	48-16	4.76	8	0.05	0.6	0.7	●			
	11IR-A55	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16IR-A55	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●			
	16IR-G55	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●		●	●
	16IR-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	
	22IR-N55	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27IR-Q55	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16IRM-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

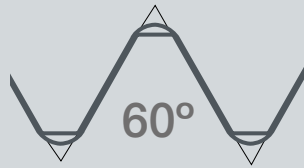
ENDMILLS

DRILLS

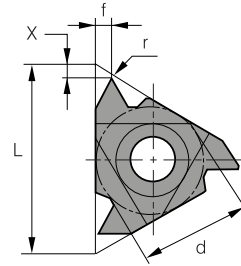
SPARE PARTS

INDEX

11ER



EXTERNAL METRIC



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d


l

hmin

x

f

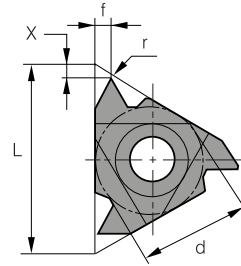
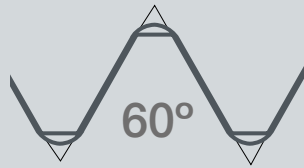


DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
11ER-0.35ISO	0.35	6.35	11	0.21	0.8	0.4	●					
11ER-0.40ISO	0.40	6.35	11	0.25	0.7	0.4	●					
11ER-0.45ISO	0.45	6.35	11	0.28	0.7	0.4	●					
11ER-0.50ISO	0.50	6.35	11	0.31	0.6	0.4	●					
11ER-0.60ISO	0.60	6.35	11	0.37	0.6	0.6	●					
11ER-0.70ISO	0.70	6.35	11	0.43	0.6	0.6	●					
11ER-0.75ISO	0.75	6.35	11	0.46	0.6	0.6	●					
11ER-0.80ISO	0.80	6.35	11	0.49	0.6	0.6	●					
11ER-1.00ISO	1.00	6.35	11	0.61	0.7	0.7	●	●	●			
11ER-1.25ISO	1.25	6.35	11	0.77	0.8	0.9	●					
11ER-1.50ISO	1.50	6.35	11	0.92	0.8	1.0	●	●	●			
11ER-1.75ISO	1.75	6.35	11	1.07	0.8	1.1	●					
11ER-2.00ISO	2.00	6.35	11	1.15	0.9	1.1	●					
16ER-0.35ISO	0.35	9.525	16	0.21	0.8	0.4	●					
16ER-0.40ISO	0.40	9.525	16	0.25	0.7	0.4	●					
16ER-0.45ISO	0.45	9.525	16	0.28	0.7	0.4	●					
16ER-0.50ISO	0.50	9.525	16	0.31	0.6	0.4	●					
16ER-0.60ISO	0.60	9.525	16	0.37	0.6	0.6	●					
16ER-0.70ISO	0.70	9.525	16	0.43	0.6	0.6	●					
16ER-0.75ISO	0.75	9.525	16	0.46	0.6	0.6	●	●	●			
16ER-0.80ISO	0.80	9.525	16	0.49	0.6	0.6	●					
16ER-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●	●	●			
16ER-1.25ISO	1.25	9.525	16	0.77	0.8	0.9	●	●	●			
16ER-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●	●	●			
16ER-1.75ISO	1.75	9.525	16	1.07	0.9	1.2	●	●	●			
16ER-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●	●	●			
16ER-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●	●	●			
16ER-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●	●	●			

THREADING

ER

EXTERNAL METRIC



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
		$\frac{1}{4}P$	d	l	h_{min}	x	f	PS9425	PS9430	PS7430	US2415	
	22ER-3.50ISO	3.50	12.7	22	2.15	1.6	2.3	●	●	●		
	22ER-4.00ISO	4.00	12.7	22	2.45	1.6	2.3	●	●	●		
	22ER-4.50ISO	4.50	12.7	22	2.78	1.7	2.4	●	●	●		
	22ER-5.00ISO	5.00	12.7	22	3.07	1.7	2.5	●	●	●		
	22ER-5.50ISO	5.50	12.7	22	3.37	1.9	2.5	●				
	22ER-6.00ISO	6.00	12.7	22	3.68	2.0	2.9	●				
	16ERM-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●				
	16ERM-1.25ISO	1.25	9.525	16	0.77	0.8	0.9	●				
	16ERM-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●				
	16ERM-1.75ISO	1.75	9.525	16	1.07	0.9	1.2	●				
	16ERM-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●				
	16ERM-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●				
	16ERM-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●				
	16ERM-3.50ISO	3.50	9.525	16	2.15	1.6	2.3	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

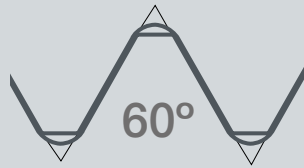
ENDMILLS

DRILLS

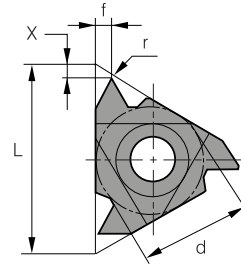
SPARE PARTS

INDEX

IR



INTERNAL METRIC



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d **l** **hmin** **x** **f**



	DESCRIPTION	DIMENSIONS							CARBIDE			
		R_a	d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11IR-0.35ISO	0.35	6.35	11	0.21	0.8	0.4	●				
	11IR-0.40ISO	0.40	6.35	11	0.25	0.7	0.4	●				
	11IR-0.45ISO	0.45	6.35	11	0.28	0.7	0.4	●				
	11IR-0.50ISO	0.50	6.35	11	0.31	0.6	0.4	●				
	11IR-0.60ISO	0.60	6.35	11	0.37	0.6	0.6	●				
	11IR-0.70ISO	0.70	6.35	11	0.43	0.6	0.6	●				
	11IR-0.75ISO	0.75	6.35	11	0.46	0.6	0.6	●				
	11IR-0.80ISO	0.80	6.35	11	0.49	0.6	0.6	●				
	11IR-1.00ISO	1.00	6.35	11	0.61	0.7	0.7	●	●	●		
	11IR-1.25ISO	1.25	6.35	11	0.77	0.8	0.9	●				
	11IR-1.50ISO	1.50	6.35	11	0.92	0.8	1.0	●	●	●		
	11IR-1.75ISO	1.75	6.35	11	1.07	0.8	1.1	●				
	11IR-2.00ISO	2.00	6.35	11	1.15	0.9	1.1	●				
	16IR-0.35ISO	0.35	9.525	16	0.21	0.8	0.4	●				
	16IR-0.40ISO	0.40	9.525	16	0.25	0.7	0.4	●				
	16IR-0.45ISO	0.45	9.525	16	0.28	0.7	0.4	●				
	16IR-0.50ISO	0.50	9.525	16	0.31	0.6	0.4	●				
	16IR-0.60ISO	0.60	9.525	16	0.37	0.6	0.6	●				
	16IR-0.70ISO	0.70	9.525	16	0.43	0.6	0.6	●				
	16IR-0.75ISO	0.75	9.525	16	0.46	0.6	0.6	●	●	●		
	16IR-0.80ISO	0.80	9.525	16	0.49	0.6	0.6	●				
	16IR-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●	●	●		
	16IR-1.25ISO	1.25	9.525	16	0.77	0.8	0.9	●	●	●		
	16IR-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●	●	●		
	16IR-1.75ISO	1.75	9.525	16	1.07	0.9	1.2	●	●	●		
	16IR-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●	●	●		
	16IR-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●	●	●		
	16IR-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●	●	●		

TURNING

GROOVING

THREADING

MILLING

DRILLING

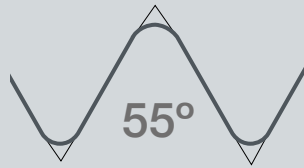
ENDMILLS

DRILLS

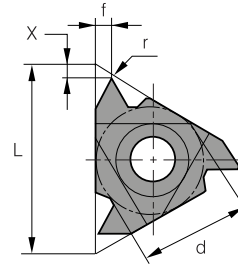
SPARE PARTS

INDEX

11ER



EXTERNAL WHITWORTH



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f



11ER-14W

14

6,35

11

1,16

0,9

1,1

●

11ER-16W

16

6,35

11

1,02

0,9

1,1

●

11ER-18W

18

6,35

11

0,9

0,8

1

●

11ER-19W

19

6,35

11

0,86

0,8

1

●

11ER-20W

20

6,35

11

0,81

0,8

0,9

●

11ER-22W

22

6,35

11

0,74

0,8

0,9

●

11ER-24W

24

6,35

11

0,68

0,7

0,8

●

11ER-26W

26

6,35

11

0,63

0,7

0,7

●

11ER-28W

28

6,35

11

0,58

0,6

0,7

●

11ER-32W

32

6,35

11

0,51

0,6

0,6

●

11ER-36W

36

6,35

11

0,45

0,6

0,6

●

11ER-40W

40

6,35

11

0,41

0,6

0,6

●

11ER-48W

48

6,35

11

0,34

0,6

0,6

●

11ER-56W

56

6,35

11

0,29

0,7

0,4

●

11ER-60W

60

6,35

11

0,27

0,7

0,4

●

11ER-72W

72

6,35

11

0,23

0,7

0,4

●

16ER-8W

8

9,52

16

2,03

1,2

1,5

●

16ER-9W

9

9,52

16

1,81

1,2

1,7

●

16ER-10W

10

9,52

16

1,63

1,1

1,5

●

16ER-11W

11

9,52

16

1,48

1,1

1,5

●

●

●

16ER-12W

12

9,52

16

1,36

1,1

1,4

●

16ER-14W

14

9,52

16

1,16

1

1,2

●

●

●

16ER-16W

16

9,52

16

1,02

0,9

1,1

●

16ER-18W

18

9,52

16

0,9

0,8

1

●

16ER-19W

19

9,52

16

0,86

0,8

1

●

●

●

16ER-20W

20

9,52

16

0,81

0,8

0,9

●

16ER-22W

22

9,52

16

0,74

0,8

0,9

●

16ER-24W

24

9,52

16

0,68

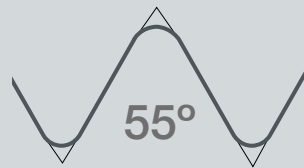
0,7

0,8

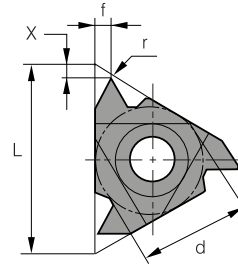
●

THREADING

16ER



EXTERNAL WHITWORTH



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
	16ER-26W	26	9,52	16	0,63	0,7	0,7	●				
	16ER-28W	28	9,52	16	0,58	0,6	0,7	●				
	16ER-30W	30	9,52	16	0,55	0,6	0,7	●				
	16ER-32W	32	9,52	16	0,51	0,6	0,6	●				
	16ER-36W	36	9,52	16	0,45	0,6	0,6	●				
	16ER-40W	40	9,52	16	0,41	0,6	0,6	●				
	16ER-48W	48	9,52	16	0,34	0,6	0,6	●				
	16ER-56W	56	9,52	16	0,29	0,7	0,4	●				
	16ER-60W	60	9,52	16	0,27	0,7	0,4	●				
	16ER-72W	72	9,52	16	0,23	0,7	0,4	●				
	22ER-5W	5	12,7	22	3,25	1,7	2,4	●				
22ER-6W	6	12,7	22	2,71	1,6	2,3	●					
22ER-7W	7	12,7	22	3,32	1,6	2,3	●					
27ER-4W	4	15,88	27	4,07	2	2,9	●					
27ER-4.5W	4,5	15,88	27	3,61	1,8	2,6	●					
	16ERM-8W	8	9,52	16	2,03	1,2	1,5	●				
	16ERM-11W	11	9,52	16	1,48	1,1	1,5	●				
	16ERM-14W	14	9,52	16	1,16	1	1,2	●				
	16ERM-24W	24	9,52	16	0,68	0,7	0,8	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

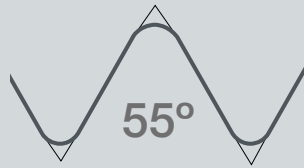
ENDMILLS

DRILLS

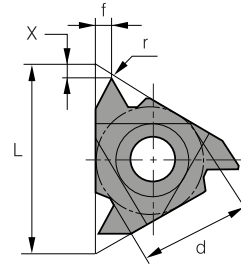
SPARE PARTS

INDEX

11IR



INTERNAL WHITWORTH



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f

11IR-14W

14

6,35

11

1,16

0,9

1,1

●

11IR-16W

16

6,35

11

1,02

0,9

1,1

●

11IR-18W

18

6,35

11

0,9

0,8

1

●

11IR-19W

19

6,35

11

0,86

0,8

1

●

11IR-20W

20

6,35

11

0,81

0,8

0,9

●

11IR-22W

22

6,35

11

0,74

0,8

0,9

●

11IR-24W

24

6,35

11

0,68

0,7

0,8

●

11IR-26W

26

6,35

11

0,63

0,7

0,7

●

11IR-28W

28

6,35

11

0,58

0,6

0,7

●

11IR-32W

32

6,35

11

0,51

0,6

0,6

●

11IR-36W

36

6,35

11

0,45

0,6

0,6

●

11IR-40W

40

6,35

11

0,41

0,6

0,6

●

11IR-48W

48

6,35

11

0,34

0,6

0,6

●

11IR-56W

56

6,35

11

0,29

0,7

0,4

●

11IR-60W

60

6,35

11

0,27

0,7

0,4

●

11IR-72W

72

6,35

11

0,23

0,7

0,4

●

16IR-8W

8

9,52

16

2,03

1,2

1,5

●

16IR-9W

9

9,52

16

1,81

1,2

1,7

●

16IR-10W

10

9,52

16

1,63

1,1

1,5

●

16IR-11W

11

9,52

16

1,48

1,1

1,5

●

●

●

16IR-12W

12

9,52

16

1,36

1,1

1,4

●

16IR-14W

14

9,52

16

1,16

1

1,2

●

●

●

16IR-16W

16

9,52

16

1,02

0,9

1,1

●

16IR-18W

18

9,52

16

0,9

0,8

1

●

16IR-19W

19

9,52

16

0,86

0,8

1

●

16IR-20W

20

9,52

16

0,81

0,8

0,9

●

16IR-22W

22

9,52

16

0,74

0,8

0,9

●

16IR-24W

24

9,52

16

0,68

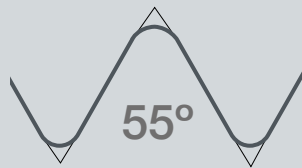
0,7

0,8

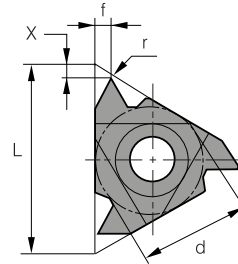
●

THREADING

IR



INTERNAL WHITWORTH



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16IR-26W	26	9,52	16	0,63	0,7	0,7	●				
	16IR-28W	28	9,52	16	0,58	0,6	0,7	●				
	16IR-30W	30	9,52	16	0,55	0,6	0,7	●				
	16IR-32W	32	9,52	16	0,51	0,6	0,6	●				
	16IR-36W	36	9,52	16	0,45	0,6	0,6	●				
	16IR-40W	40	9,52	16	0,41	0,6	0,6	●				
	16IR-48W	48	9,52	16	0,34	0,6	0,6	●				
	16IR-56W	56	9,52	16	0,29	0,7	0,4	●				
	16IR-60W	60	9,52	16	0,27	0,7	0,4	●				
	16IR-72W	72	9,52	16	0,23	0,7	0,4	●				
	22IR-5W	5	12,7	22	3,25	1,7	2,4	●				
	22IR-6W	6	12,7	22	2,71	1,6	2,3	●				
	22IR-7W	7	12,7	22	3,32	1,6	2,3	●				
	27IR-4W	4	15,88	27	4,07	2	2,9	●				
27IR-4.5W	4,5	15,88	27	3,61	1,8	2,6	●					
	16IRM-11W	11	9,52	16	1,48	1,1	1,5	●				
	16IRM-14W	14	9,52	16	1,16	1	1,2	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

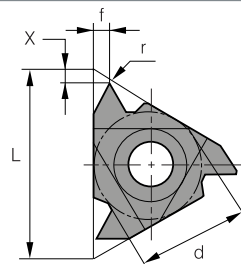
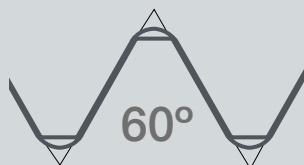
DRILLS

SPARE PARTS

INDEX

11ER

EXTERNAL UN



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f

11ER-14UN

14

6,35

11

1,11

0,9

1,1

●

11ER-16UN

16

6,35

11

0,97

0,9

1,1

●

11ER-18UN

18

6,35

11

0,87

0,8

1

●

11ER-20UN

20

6,35

11

0,78

0,8

0,9

●

11ER-24UN

24

6,35

11

0,65

0,7

0,8

●

11ER-27UN

27

6,35

11

0,58

0,7

0,8

●

11ER-28UN

28

6,35

11

0,56

0,6

0,7

●

11ER-32UN

32

6,35

11

0,49

0,6

0,6

●

11ER-36UN

36

6,35

11

0,43

0,6

0,6

●

11ER-40UN

40

6,35

11

0,39

0,6

0,6

●

11ER-44UN

44

6,35

11

0,35

0,6

0,6

●

11ER-48UN

48

6,35

11

0,32

0,6

0,6

●

11ER-56UN

56

6,35

11

0,28

0,7

0,4

●

11ER-64UN

64

6,35

11

0,24

0,8

0,4

●

11ER-72UN

72

6,35

11

0,22

0,8

0,4

●

16ER-8UN

8

9,52

16

1,95

1,2

1,6

●

16ER-9UN

9

9,52

16

1,73

1,2

1,7

●

16ER-10UN

10

9,52

16

1,56

1,1

1,5

●

16ER-11UN

11

9,52

16

1,42

1,1

1,5

●

16ER-11.5UN

11,5

9,52

16

1,35

1,1

1,5

●

16ER-12UN

12

9,52

16

1,3

1,1

1,4

●

16ER-13UN

13

9,52

16

1,2

1

1,3

●

16ER-14UN

14

9,52

16

1,11

0,9

1,2

●

16ER-16UN

16

9,52

16

0,97

0,9

1,1

●

16ER-18UN

18

9,52

16

0,87

0,8

1

●

●

●

16ER-20UN

20

9,52

16

0,78

0,8

0,9

●

●

●

16ER-24UN

24

9,52

16

0,65

0,7

0,8

●

●

●

16ER-27UN

27

9,52

16

0,58

0,7

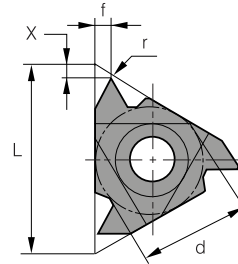
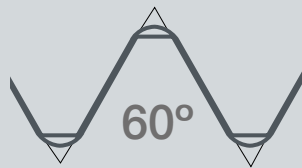
0,8

●

THREADING

ER

EXTERNAL UN



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16ER-28UN		28	9,52	16	0,56	0,6	0,7	●			
	16ER-32UN		32	9,52	16	0,49	0,6	0,6	●			
	16ER-36UN		36	9,52	16	0,43	0,6	0,6	●			
	16ER-40UN		40	9,52	16	0,39	0,6	0,6	●			
	16ER-44UN		56	9,52	16	0,28	0,7	0,4	●			
	16ER-48UN		64	9,52	16	0,24	0,8	0,4	●			
	16ER-56UN		56	9,52	16	0,28	0,7	0,4	●			
	16ER-64UN		64	9,52	16	0,24	0,8	0,4	●			
	16ER-72UN		72	9,52	16	0,22	0,8	0,4	●			
	22ER-5UN		5	12,7	22	3,12	1,6	2,3	●			
	22ER-6UN		6	12,7	22	2,6	1,6	2,3	●			
	22ER-7UN		7	12,7	22	2,22	1,6	2,3	●			
	27ER-4UN		4	15,88	27	3,89	1,8	2,7	●			
	27ER-4.5UN		4,5	15,88	27	3,46	1,7	2,4	●			
		16ERM-12UN		12	9,52	16	1,3	1,1	1,4	●		
16ERM-16UN			16	9,52	16	0,97	0,9	1,1	●			
16ERM-18UN			18	9,52	16	0,87	0,8	1	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

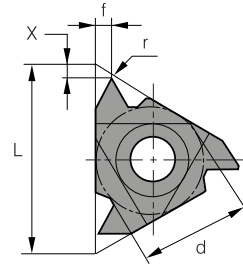
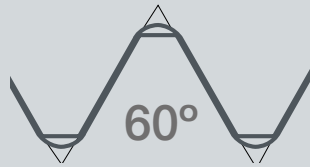
DRILLS

SPARE PARTS

INDEX

11IR

INTERNAL UN



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f

11IR-14UN

14

6,35

11

1,11

0,9

1,1

11IR-16UN

16

6,35

11

0,97

0,9

1,1

11IR-18UN

18

6,35

11

0,87

0,8

1

11IR-20UN

20

6,35

11

0,78

0,8

0,9

11IR-24UN

24

6,35

11

0,65

0,7

0,8

11IR-27UN

27

6,35

11

0,58

0,7

0,8

11IR-28UN

28

6,35

11

0,56

0,6

0,7

11IR-32UN

32

6,35

11

0,49

0,6

0,6

11IR-36UN

36

6,35

11

0,43

0,6

0,6

11IR-40UN

40

6,35

11

0,39

0,6

0,6

11IR-44UN

44

6,35

11

0,35

0,6

0,6

11IR-48UN

48

6,35

11

0,32

0,6

0,6

11IR-56UN

56

6,35

11

0,28

0,7

0,4

11IR-64UN

64

6,35

11

0,24

0,8

0,4

11IR-72UN

72

6,35

11

0,22

0,8

0,4

16IR-8UN

8

9,52

16

1,95

1,2

1,6

16IR-9UN

9

9,52

16

1,73

1,2

1,7

16IR-10UN

10

9,52

16

1,56

1,1

1,5

16IR-11UN

11

9,52

16

1,42

1,1

1,5

16IR-11.5UN

11,5

9,52

16

1,35

1,1

1,5

16IR-12UN

12

9,52

16

1,3

1,1

1,4

16IR-13UN

13

9,52

16

1,2

1

1,3

16IR-14UN

14

9,52

16

1,11

0,9

1,2

16IR-16UN

16

9,52

16

0,97

0,9

1,1

16IR-18UN

18

9,52

16

0,87

0,8

1

16IR-20UN

20

9,52

16

0,78

0,8

0,9

16IR-24UN

24

9,52

16

0,65

0,7

0,8

16IR-27UN

27

9,52

16

0,58

0,7

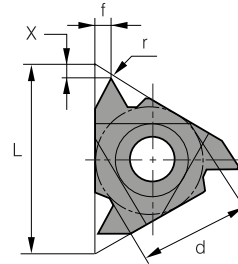
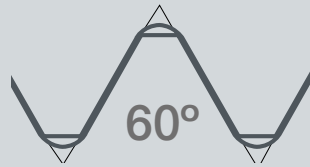
0,8



THREADING

IR

INTERNAL UN



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16IR-28UN	28	9,52	16	0,56	0,6	0,7	●				
	16IR-32UN	32	9,52	16	0,49	0,6	0,6	●				
	16IR-36UN	36	9,52	16	0,43	0,6	0,6	●				
	16IR-40UN	40	9,52	16	0,39	0,6	0,6	●				
	16IR-44UN	44	9,52	16	0,35	0,6	0,6	●				
	16IR-48UN	48	9,52	16	0,32	0,6	0,6	●				
	16IR-56UN	56	9,52	16	0,28	0,7	0,4	●				
	16IR-64UN	64	9,52	16	0,24	0,8	0,4	●				
	16IR-72UN	72	9,52	16	0,22	0,8	0,4	●				
	22IR-5UN	5	12,7	22	3,12	1,6	2,3	●				
	22IR-6UN	6	12,7	22	2,6	1,6	2,3	●				
	22IR-7UN	7	12,7	22	2,22	1,6	2,3	●				
	27IR-4UN	4	15,88	27	3,89	1,8	2,7	●				
	27IR-4.5UN	4,5	15,88	27	3,46	1,7	2,4	●				
	16IRM-12UN	12	9,52	16	1,3	1,1	1,4	●				
	16IRM-16UN	16	9,52	16	0,97	0,9	1,1	●				
	16IRM-18UN	18	9,52	16	0,87	0,8	1	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

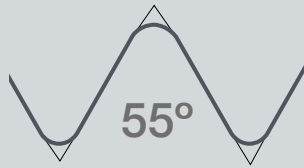
ENDMILLS

DRILLS

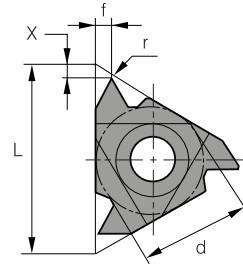
SPARE PARTS

INDEX

ER



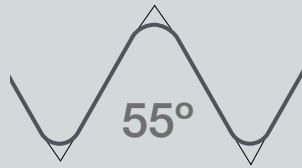
EXTERNAL BSPT



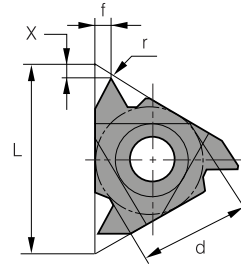
DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
	11ER-14BSPT	14	6,35	11	1,16	0,9	1	●				
	11ER-19BSPT	19	6,35	11	0,86	0,8	0,9	●				
	11ER-28BSPT	28	6,35	11	0,58	0,6	0,6	●				
	16ER-11BSPT	11	9,52	16	1,48	1,1	1,5	●	●	●		
	16ER-14BSPT	14	9,52	16	1,16	1	1,2	●	●	●		
	16ER-19BSPT	19	9,52	16	0,86	0,8	0,9	●	●	●		
	16ER-28BSPT	28	9,52	16	0,58	0,6	0,6	●				
	16ERM-11BSPT	11	9,52	16	1,48	1,1	1,5	●				
	16ERM-14BSPT	14	9,52	16	1,16	1	1,2	●				

THREADING

IR



INTERNAL BSPT



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
	11IR-14BSPT	14	6,35	11	1,16	0,9	1	●				
	11IR-19BSPT	19	6,35	11	0,86	0,8	0,9	●				
	11IR-28BSPT	28	6,35	11	0,58	0,6	0,6	●				
	16IR-11BSPT	11	9,52	16	1,48	1,1	1,5	●	●	●		
	16IR-14BSPT	14	9,52	16	1,16	1	1,2	●				
	16IR-19BSPT	19	9,52	16	0,86	0,8	0,9	●				
	16IR-28BSPT	28	9,52	16	0,58	0,6	0,6	●				
	16IRM-11BSPT	11	9,52	16	1,48	1,1	1,5	●				
	16IRM-14BSPT	14	9,52	16	1,16	1	1,2	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

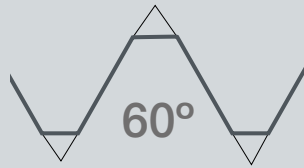
ENDMILLS

DRILLS

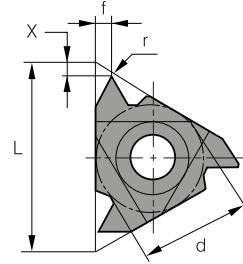
SPARE PARTS

INDEX

11ER



EXTERNAL NPT



DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
	11ER-14NPT	14	6,35	11	1,33	0,8	1	●				
	11ER-18NPT	18	6,35	11	1,01	0,8	1	●				
	11ER-27NPT	27	6,35	11	0,66	0,7	0,8	●				
	16ER-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16ER-14NPT	14	9,52	16	1,33	0,9	1,2	●	●			
	16ER-18NPT	18	9,52	16	1,01	0,8	1	●	●	●		
	16ER-27NPT	27	9,52	16	0,66	0,7	0,8	●	●	●		
	16ER-8NPT	8	9,52	16	2,42	1,3	1,8	●				
	16ERM-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16ERM-14NPT	14	9,52	16	1,33	0,9	1,2	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

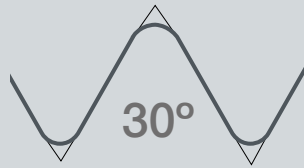
ENDMILLS

DRILLS

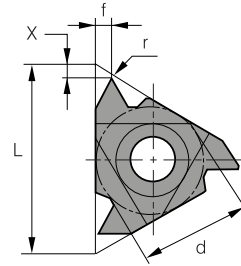
SPARE PARTS

INDEX

ER



EXTERNAL ROUND



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f



16ER-6RND

6

9,52

16

2,12

1,5

1,7

●

16ER-8RND

8

9,52

16

1,59

1,4

1,3

●

16ER-10RND

10

9,52

16

1,27

1,1

1,2

●

22ER-4RND

4

12,7

22

3,18

2,2

2,3

●

22ER-6RND

6

12,7

22

2,12

1,5

1,7

●

27ER-4RND

4

15,88

27

3,18

2,2

2,3

●

TURNING

GROOVING

THREADING

MILLING

DRILLING

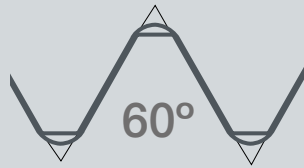
ENDMILLS

DRILLS

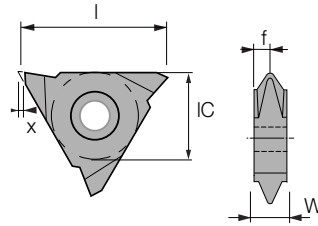
SPARE PARTS




INDEX

VER



EXTERNAL METRIC

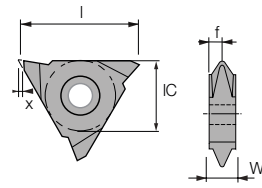
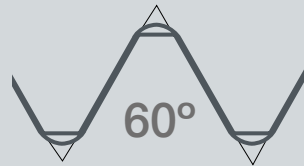





DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-0.75ISO	0.75	6.35	11	3.2	0.7	2.6	●				
	VER11-1.00ISO	1.00	6.35	11	3.2	0.7	2.5	●				
	VER11-1.50ISO	1.50	6.35	11	3.2	0.7	2.2	●				
	VER11-1.75ISO	1.75	6.35	11	3.2	0.7	2.1	●				
	VER11-2.00ISO	2.00	6.35	11	3.2	0.7	1.9	●				
	VER16-0.35ISO	0.35	9.525	16	3.5	1.1	3.2	●				
	VER16-0.40ISO	0.40	9.525	16	3.5	1.1	3.2	●				
	VER16-0.50ISO	0.50	9.525	16	3.5	1.1	3.0	●				
	VER16-0.75ISO	0.75	9.525	16	3.5	1.1	3.0	●				
	VER16-0.80ISO	0.80	9.525	16	3.5	1.1	3.0	●				
	VER16-1.00ISO	1.00	9.525	16	3.5	1.1	2.9	●				
	VER16-1.25ISO	1.25	9.525	16	3.5	1.1	2.7	●				
	VER16-1.50ISO	1.50	9.525	16	3.5	1.1	2.6	●				
	VER16-1.75ISO	1.75	9.525	16	3.5	1.1	2.4	●				
	VER16-2.00ISO	2.00	9.525	16	3.5	1.1	2.3	●				
	VER16-2.50ISO	2.50	9.525	16	3.5	1.1	2.1	●				
	VER16-3.00ISO	3.00	9.525	16	3.5	1.1	2.0	●				

THREADING

VER

EXTERNAL UN



DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-20UN		20	6.35	11	3.2	0.69	2.3	●			
	VER11-18UN		18	6.35	11	3.2	0.69	2.2	●			
	VER11-16UN		16	6.35	11	3.2	0.69	2.2	●			
	VER11-14UN		14	6.35	11	3.2	0.69	2.0	●			
	VER11-12UN		12	6.35	11	3.2	0.69	1.8	●			
	VER16-32UN		32	9.525	16	3.5	1.1	3.0	●			
	VER16-28UN		28	9.525	16	3.5	1.1	3.0	●			
	VER16-24UN		24	9.525	16	3.5	1.1	2.9	●			
	VER16-20UN		20	9.525	16	3.5	1.1	2.7	●			
	VER16-18UN		18	9.525	16	3.5	1.1	2.6	●			
	VER16-16UN		16	9.525	16	3.5	1.1	2.55	●			
	VER16-14UN		14	9.525	16	3.5	1.1	2.5	●			
	VER16-12UN		12	9.525	16	3.5	1.1	2.2	●			
	VER16-10UN		10	9.525	16	3.5	1.1	2.1	●			
	VER16-08UN		8	9.525	16	3.5	1.1	2.0	●			

TURNING
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ENDMILLS
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DRILLING

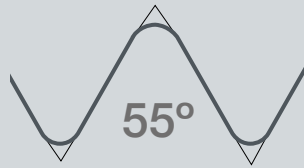
ENDMILLS

DRILLS

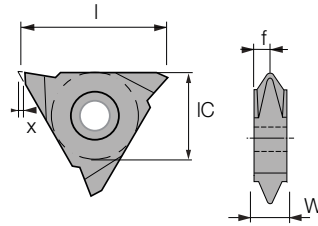
SPARE PARTS

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VER



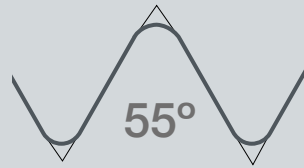
EXTERNAL WHITWORTH



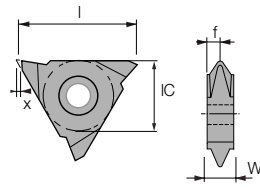
DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	W	x	f	PS9425	PS9430	PS7430	US2415		
	VER11-19W	19	6.35	11	3.2	0.7	2.3	●				
	VER11-14W	14	6.35	11	3.2	0.7	2.0	●				
	VER11-11W	11	6.35	11	3.2	0.7	1.7	●				
	VER16-19W	19	9.525	16	3.5	1.1	2.7	●				
	VER16-18W	18	9.525	16	3.5	1.1	2.6	●				
	VER16-16W	16	9.525	16	3.5	1.1	2.6	●				
	VER16-14W	14	9.525	16	3.5	1.1	2.4	●				
	VER16-12W	12	9.525	16	3.5	1.1	2.2	●				
	VER16-11W	11	9.525	16	3.5	1.1	2.1	●				

THREADING

VER



EXTERNAL BSPT



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

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INDEX

DESCRIPTION	DIMENSIONS							CARBIDE			
		d	l	w	x	f	PS9425	PS9430	PS7430	US2415	
	VER16-28BSPT	28	9.525	16	3.5	1.1	3.0	●			
	VER16-19BSPT	19	9.525	16	3.5	1.1	2.7	●			
	VER16-14BSPT	14	9.525	16	3.5	1.1	2.4	●			
	VER16-11BSPT	11	9.525	16	3.5	1.1	2.1	●			

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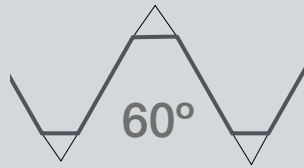
ENDMILLS

DRILLS

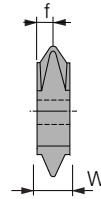
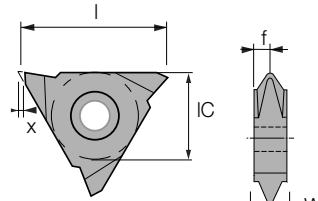
SPARE PARTS

INDEX

VER



EXTERNAL NPT



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

W

x

f



VER11-27NPT

27

6.35

11

3.2

0.7

2.0

●

VER11-18NPT

18

6.35

11

3.2

0.7

1.8

●

VER11-14NPT

14

6.35

11

3.2

0.7

1.8

●



VER16-27NPT

27

9.525

16

3.5

1.1

2.9

●

VER16-18NPT

18

9.525

16

3.5

1.1

2.6

●

VER16-11.5NPT

11.5

9.525

16

3.5

1.1

2.1

●

THREADING

SR 14 I	-11 W	PS 9 4 25
1 2 3	4 5	6 7 8 9

1	
SL	Screw on Left
SR	Screw on Right

3	Insert Type
E	External
I	Internal

5	Thread Standard
ISO	Metric
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
UN	American UN
NPT	NPT
NPTF	NPTF
PG	Pg DIN40430

2	Insert Length
12	12mm
14	14mm
21	21mm
30	30mm
40	40mm

4	Pitch (Full Profile)
0.35~6.0	mm
3~72	TPI

10	Coating & Material
CS	CVD Coated Carbide
PS	PVD Coated Carbide
PB	New PVD Coating
KS	Ceramic
SS	Cermet
US	Uncoated

11	Workpiece Material
2	Non-Ferrous Material
4	Hardened Steel
5	Steel
7	Stainless Steel
8	Cast Iron
9	General Machining

12	Machining
1	Turning
2	Turning New
4	Threading
9	Milling

13	ISO Grade
05	
10	
15	
20	
25	
30	
35	
40	
45	

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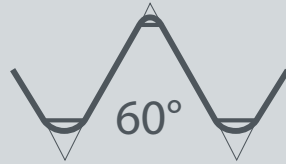
ENDMILLS

DRILLS

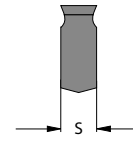
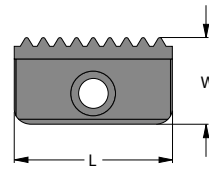
SPARE PARTS

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SR□□



INTERNAL METRIC

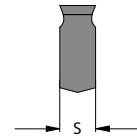
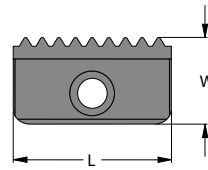
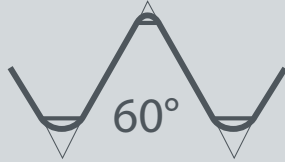


DESCRIPTION	DIMENSIONS						CARBIDE					
		I	W	S	PS9425							
												0.05
	SR14I-0.50-ISO	0.50	14	7,9	3,2	●						
	SR14I-0.75-ISO	0.75	14	7,9	3,2	●						
	SR14I-1.00-ISO	1.00	14	7,9	3,2	●						
	SR14I-1.25-ISO	1.25	14	7,9	3,2	●						
	SR14I-1.50-ISO	1.50	14	7,9	3,2	●						
	SR14I-1.75-ISO	1.75	14	7,9	3,2	●						
	SR14I-2.00-ISO	2.00	14	7,9	3,2	●						
	SR14I-2.50-ISO	2.50	14	7,9	3,2	●						
	SR14I-2.50-ISO	3.00	14	7,9	3,2	●						
	SR21I-1.00-ISO	1.00	21	12,6	4,8	●						
	SR21I-1.25-ISO	1.25	21	12,6	4,8	●						
	SR21I-1.50-ISO	1.50	21	12,6	4,8	●						
	SR21I-1.75-ISO	1.75	21	12,6	4,8	●						
	SR21I-2.00-ISO	2.00	21	12,6	4,8	●						
	SR21I-2.50-ISO	2.50	21	12,6	4,8	●						
	SR21I-3.00-ISO	3.00	21	12,6	4,8	●						
	SR21I-3.50-ISO	3.50	21	12,6	4,8	●						

THREADING

SR□□

INTERNAL METRIC



TURNING

GROOVING

THREADING

MILLING


DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION	DIMENSIONS					CARBIDE													
	$\frac{1}{4}P$	I	W	S	PS9425														
	SR30I-1.50-ISO	1.50	30	16,7	5,6	●													
	SR30I-2.00-ISO	2.00	30	16,7	5,6	●													
	SR30I-3.00-ISO	3.00	30	16,7	5,6	●													
	SR30I-3.50-ISO	3.50	30	16,7	5,6	●													
	SR30I-4.00-ISO	4.00	30	16,7	5,6	●													
	SR30I-4.50-ISO	4.50	30	16,7	5,6	●													
	SR30I-5.00-ISO	5.00	30	16,7	5,6	●													
	SR40I-1.50-ISO	1.50	40	20,8	6,4	●													
	SR40I-2.00-ISO	2.00	40	20,8	6,4	●													
	SR40I-3.00-ISO	3.00	40	20,8	6,4	●													
	SR40I-3.50-ISO	3.50	40	20,8	6,4	●													
	SR40I-4.00-ISO	4.00	40	20,8	6,4	●													
	SR40I-4.50-ISO	4.50	40	20,8	6,4	●													
	SR40I-5.00-ISO	5.00	40	20,8	6,4	●													
	SR40I-5.50-ISO	5.50	40	20,8	6,4	●													
	SR40I-6.00-ISO	6.00	40	20,8	6,4	●													

TURNING

GROOVING

THREADING

MILLING

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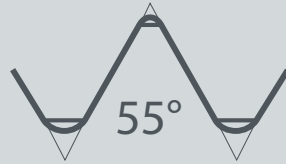
ENDMILLS

DRILLS

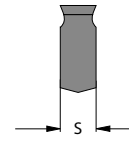
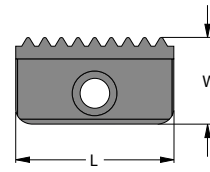
SPARE PARTS

INDEX

SR□□



INTERNAL WHITWORTH



DESCRIPTION	DIMENSIONS						CARBIDE				
		I	W	S	PS9425						
	SR14I-24W	24	14	7.9	3.2	●					
	SR14I-20W	20	14	7.9	3.2	●					
	SR14I-19W	19	14	7.9	3.2	●					
	SR14I-16W	16	14	7.9	3.2	●					
	SR14I-14W	14	14	7.9	3.2	●					
	SR21I-11W	11	14	7.9	3.2	●					
	SR21I-20W	20	21	12.6	4.8	●					
	SR21I-19W	19	21	12.6	4.8	●					
	SR21I-16W	16	21	12.6	4.8	●					
	SR21I-14W	14	21	12.6	4.8	●					
	SR21I-11W	11	21	12.6	4.8	●					
	SR30I-16W	16	30	16.7	5.6	●					
	SR30I-14W	14	30	16.7	5.6	●					
	SR30I-11W	11	30	16.7	5.6	●					
	SR40I-11W	11	40	20.8	6.4	●					
	SR40I-8W	8	40	20.8	6.4	●					

E	ST	B	06	04	C	5	-	11	W
1	2	3	4	5	6	7		8	9

1	
E	External
Non	Internal

2	Type
ST	Solide Thread Mill

3	Endmill Type
Non	Without Coolant
B	With Coolant

4	Shank Diameter
06	6mm
08	8mm
10	10mm
12	12mm
14	14mm
16	16mm
20	20mm
25	25mm

5	Cutting Diameter
06	6mm
08	8mm
10	10mm
12	12mm
14	14mm
16	16mm
20	20mm
25	25mm

6	Number of Flutes
C	3
D	4
E	5
F	6

7	Cutting Length
	mm

8	Pitch (Full Profile)
0.35~6.0	mm
3~72	TPI

9	Thread Standard
ISO	Metric
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
UN	American UN
NPT	NPT
NPTF	NPTF
PG	Pg DIN40430

TURNING

GROOVING

THREADING

MILLING

DRILLING

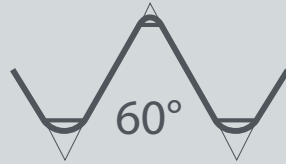
ENDMILLS

DRILLS

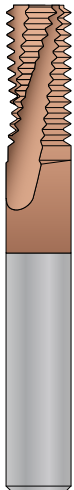
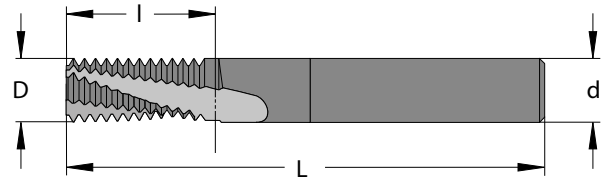
SPARE PARTS

INDEX

ST



INTERNAL METRIC



DESCRIPTION

DIMENSIONS

Z

Carbide



D

d

l

L

ST06022C5-0.50ISO

0,50

6

2,2

5,3

58

3

●

ST06031C7-0.70ISO

0,70

6

3,1

7,4

58

3

●

ST06036C9-0.80ISO

0,80

6

3,6

9,2

58

3

●

ST0604C10-1.00ISO

1,00

6

4,0

10,5

58

3

●

ST0604C14-1.00ISO

1,00

6

4,0

14,5

58

3

●

ST0605C14-1.25ISO

1,25

6

5,0

14,4

58

3

●

ST0605C19-1.25ISO

1,25

6

5,0

17,3

58

3

●

ST0807C17-1.50ISO

1,50

8

7,0

17,3

64

3

●

ST0807C24-1.50ISO

1,50

8

7,0

24,8

76

3

●

ST0808C20-1.75ISO

1,75

8

8,0

20,1

64

3

●

ST0808C28-1.75ISO

1,75

8

8,0

28,9

76

3

●

ST1010C27-2.00ISO

2,00

10

10

27,0

73

3

●

ST1010C39-2.00ISO

2,00

10

10

39,0

105

3

●

ST1414D33-2.50ISO

2,50

14

14

33,8

84

4

●

ST1414D48-2.50ISO

2,50

14

14

48,8

105

4

●

ST1616C40-3.00ISO

3,00

16

16

40,5

105

3

●

ST1616C58-3.00ISO

3,00

16

16

58,5

120

3

●

ST2020D43-3.00ISO

3,00

20

20

43,5

105

4

●