

## 6. Drilling

## 6.4 Multi-purpose drilling

### 6.4.1 Twist drills



#### SP solid, Z 2 / V 2

##### Application:

For multi-purpose drilling of tear-free blind holes.

##### Machine:

Column drilling machines, drilling machines, multi spindle units, special purpose drilling machines, portable drills.

##### Workpiece material:

Softwood and hardwood, laminated veneer lumber (plywood, multiplex plywood etc.), plastics (thermoplastic).

##### Technical information:

Design in SP solid with long centre point and round spurs. Shank diameter identical to the drill diameter. Design with single heel to reduce friction in the hole.

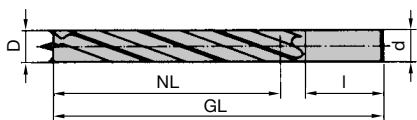


##### Long design

WB 120 0 02

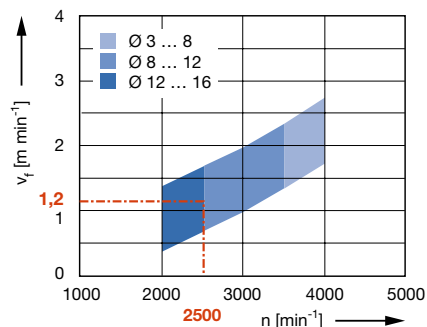
D	GL	NL	S	QAL	DRI	ID
mm	mm	mm	mm			
16	190	125	16x50	SP	RH	035763 •

RPM:  $n = 1500 - 4000 \text{ min}^{-1}$



WB 120 0 02/05, with single heel

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### Workpiece material:

Softwood

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Hardwood = 0.7

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Иркутск (395)279-98-46  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Казахстан (772)734-952-31

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

## 6. Drilling

## 6.4 Multi-purpose drilling

### 6.4.1 Twist drills



#### HS solid, Z 2 / V 2

##### Application:

For multi-purpose drilling of tear-free blind holes.

##### Machine:

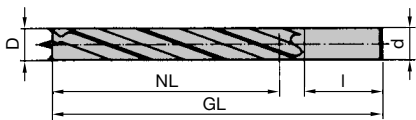
Column drilling machines, drilling machines, multi spindle units, special purpose drilling machines, portable drills.

##### Workpiece material:

Softwood and hardwood, laminated veneer lumber (plywood, multiplex plywood etc.), plastics (thermoplastic).

##### Technical information:

Design in HS solid with long centre point and round spurs. Shank diameter identical to drill diameter. Design with single heel to reduce friction in the hole.



WB 120 0 02/05, with single heel

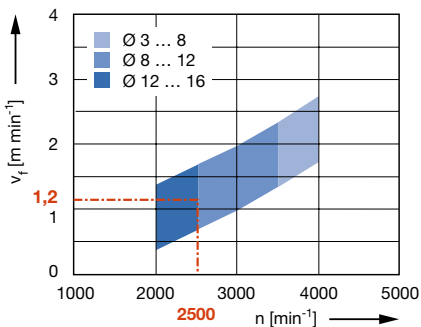
#### Shank diameter identical to drill diameter

WB 120 0 05

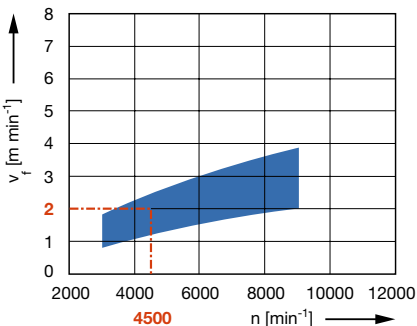
D	GL	NL	S	QAL	DRI	ID
mm	mm	mm	mm			
3	70	35	3x30	HS	RH	035852 ●
4	80	45	4x30	HS	RH	035853 ●
4.5	85	50	4.5x30	HS	RH	035892 ●
5	90	50	5x30	HS	RH	035854 ●
5.5	95	55	5.5x35	HS	RH	035893 ●
6	100	60	6x35	HS	RH	035855 ●
6.5	105	65	6.5x35	HS	RH	035894 ●
7	110	65	7x40	HS	RH	035856 ●
7.5	115	70	7.5x40	HS	RH	035895 ●
8	120	75	8x40	HS	RH	035857 ●
10	140	85	10x50	HS	RH	035859 ●
12	155	95	12x50	HS	RH	035861 ●

RPM:  $n = 1500 - 4000 \text{ min}^{-1}$

Feed speed  $v_f$  depending on the spindle RPM  $n$



Feed speed  $v_f$  depending on the spindle RPM  $n$



#### GL 77 mm, without heel, Z 2 / V 2

WB 120 0 07

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
5	78.5	77	45	10x30	033370 ●	033371 ●
6	78.5	77	45	10x30	033372 ●	033373 ●
7	78.5	77	45	10x30	033374 ●	033375 ●
8	78.5	77	45	10x30	033376 ●	033377 ●
10	79	77	45	10x30	033378 ●	033379 ●
12	79	77	45	10x30	033380 ●	033381 ●

RPM:  $n = 3000 - 9000 \text{ min}^{-1}$

#### Spare parts:

BEZ	ABM	BEM	ID
	mm		
Allen screw	M5x10	Length adjustment	005802 ●
Anti-twist allen screw	M5x10	Length adjustment	007438 ●
Length adjustment screw Torx® 20	M5x17	for quick-change drill adaptors	009157 ●

## 6. Drilling

### 6.1 Dowel drilling

#### 6.1.1 Dowel drills



#### Shank 8 mm

##### Application:

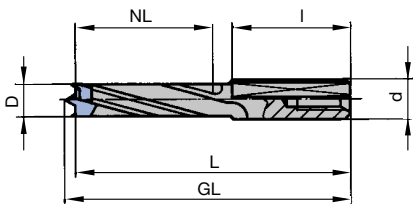
For drilling blind holes, particularly dowel holes in furniture construction. Recommended on drill spindles with limited rigidity.

##### Machine:

Point-to-point drilling machines, through feed drilling machines, CNC machining centres, hinge boring machines, multi spindle units.

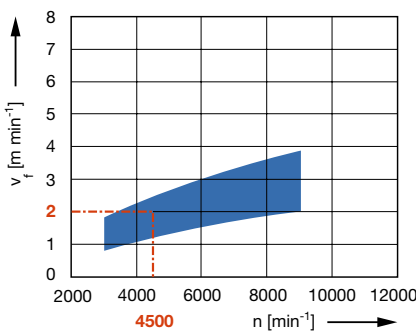
##### Workpiece material:

Softwood and hardwood, chipboard and fibre materials (MDF, HDF etc.), uncoated, plastic coated, veneered etc., laminated veneer lumber (plywood, multiplex plywood etc.).



Design with heel

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### Workpiece material:

Chipboard plastic coated

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Veneered = 0.8

Paper coated = 0.8

MDF, solid wood = 0.7

Chipboard, uncoated = 1.3

##### Technical information:

Spur geometry with shear cut. Drills can be combined with countersink WB 701 0 03. Countersink fixed on heel. Continuously adjustable boring and countersink depth. Good guidance on return stroke for tear-free holes.

##### GL 55.5 mm, with heel, Z 2 / V 2

WB 120 0 23

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
5	55.5	54	30	8x19	042552 ●	042553 ●
6	55.5	54	30	8x19		042555 ●
8	55.5	53.5	30	8x19	042558 ●	042559 ●
10	55.5	53.5	30	8x21		042563 ●

##### GL 67 mm, with heel, Z 2 / V 2

WB 120 0 24

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
5	67	65.5	40	8x19	042568 ●	042569 ●
6	67	65.5	40	8x19	042570 ●	042571 ●
7	67	65.5	40	8x19		042573 ●
8	67	65	40	8x19	042574 ●	042575 ●
10	67	65	40	8x21		042579 ●

RPM:  $n = 3000 - 9000 \text{ min}^{-1}$

##### Spare parts:

BEZ	ABM	BEM	ID
	mm		
Allen screw	M5x10	Length adjustment	005802 ●
Anti-twist allen screw	M5x10	Length adjustment	007438 ●

## 6. Drilling

### 6.1 Dowel drilling

#### 6.1.1 Dowel drills



#### Shank 10 mm

##### Application:

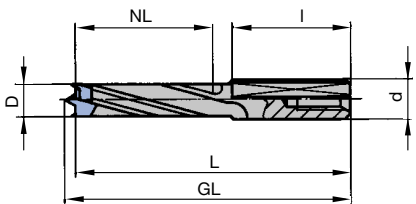
For drilling blind holes, particularly dowel holes in furniture construction. Recommended on drill spindles with limited rigidity.

##### Machine:

Point-to-point drilling machines, through feed drilling machines, CNC machining centres, hinge boring machines, multi spindle units.

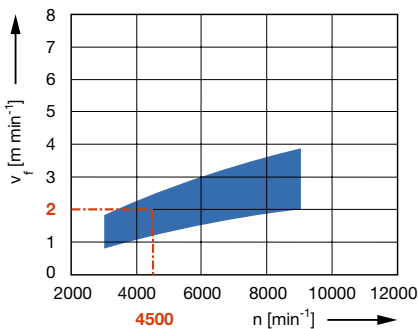
##### Workpiece material:

Softwood and hardwood, chipboard and fibre materials (MDF, HDF etc.), uncoated, plastic coated, veneered etc., laminated veneer lumber (plywood, multiplex plywood etc.).



Design with heel

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### Workpiece material:

Chipboard plastic coated

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Veneered = 0.8

Paper coated = 0.8

MDF, solid wood = 0.7

Chipboard, uncoated = 1.3

##### Technical information:

Spur geometry with shear cut. Drills can be combined with countersink WB 701 0 03. Countersink fixed on heel. Continuously adjustable boring and countersink depth. Good guidance on return stroke for tear-free holes.

##### GL 70 mm, with heel, Z 2 / V 2

WB 120 0 25, WB 120 0 26

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
5	70	68.5	43	10x19	<b>042586</b> ●	<b>042587</b> ●
6	70	68.5	43	10x19	<b>042588</b> ●	<b>042589</b> ●
8	70	68	43	10x19	<b>042590</b> ●	<b>042591</b> ●
10	70	68	43	10x19	<b>042592</b> ●	<b>042593</b> ●
12	70	68	43	10x19	<b>042594</b> ●	<b>042595</b> ●
25	70	68	40	10x25		<b>042610</b> ●

RPM:  $n = 3000 - 9000 \text{ min}^{-1}$

##### Note:

ID **042610** for holes in window manufacture.

##### Spare parts:

BEZ	ABM	BEM	ID
	mm		
Allen screw	M5x10	Length adjustment	<b>005802</b> ●
Anti-twist allen screw	M5x10	Length adjustment	<b>007438</b> ●
Length adjustment screw Torx® 20	M5x17	for quick-change drill adaptors	<b>009157</b> ●

## 6. Drilling

### 6.1 Dowel drilling

#### 6.1.1 Dowel drills



#### Shank 10 mm

##### Application:

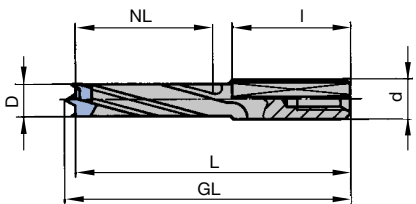
For drilling blind holes, particularly dowel holes in furniture construction. Recommended on drill spindles with limited rigidity.

##### Machine:

Point-to-point drilling machines, through feed drilling machines, CNC machining centres, hinge boring machines, multi spindle units.

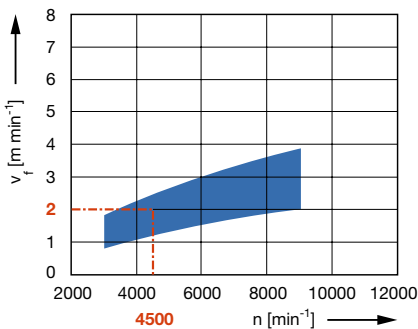
##### Workpiece material:

Softwood and hardwood, chipboard and fibre materials (MDF, HDF etc.), uncoated, plastic coated, veneered etc., laminated veneer lumber (plywood, multiplex plywood etc.).



Design with heel

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### Workpiece material:

Chipboard plastic coated

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Veneered = 0.8

Paper coated = 0.8

MDF, solid wood = 0.7

Chipboard, uncoated = 1.3

##### Technical information:

Spur geometry with shear cut. Drills can be combined with countersink WB 701 0 03. Countersink fixed on heel. Continuously adjustable boring and countersink depth. Good guidance on return stroke for tear-free holes.

##### GL 70 mm, with heel, Z 2 / V 2

WB 120 0 25, WB 120 0 26

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
5	70	68.5	43	10x19	<b>042586</b> ●	<b>042587</b> ●
6	70	68.5	43	10x19	<b>042588</b> ●	<b>042589</b> ●
8	70	68	43	10x19	<b>042590</b> ●	<b>042591</b> ●
10	70	68	43	10x19	<b>042592</b> ●	<b>042593</b> ●
12	70	68	43	10x19	<b>042594</b> ●	<b>042595</b> ●
25	70	68	40	10x25		<b>042610</b> ●

RPM:  $n = 3000 - 9000 \text{ min}^{-1}$

##### Note:

ID **042610** for holes in window manufacture.

##### Spare parts:

BEZ	ABM	BEM	ID
	mm		
Allen screw	M5x10	Length adjustment	<b>005802</b> ●
Anti-twist allen screw	M5x10	Length adjustment	<b>007438</b> ●
Length adjustment screw Torx® 20	M5x17	for quick-change drill adaptors	<b>009157</b> ●

## 6. Drilling

### 6.4 Multi-purpose drilling

#### 6.4.1 Twist drills



#### HW, Z 2 / V 2, with heel

**Application:**

For multi-purpose drilling of tear-free blind holes.

**Machine:**

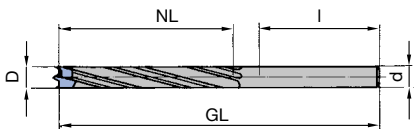
Column drilling machines, drilling machines, multi spindle units, special purpose drilling machines, portable drills.

**Workpiece material:**

Softwood and hardwood, chipboard and fibre materials (MDF, HDF etc.), uncoated, plastic coated, veneered etc., laminated veneer lumber (plywood, multiplex plywood etc.).

**Technical information:**

Tungsten carbide tipped design. Shank diameter identical to the drill diameter. Design with double heel for improved guidance during drilling and return stroke from the hole.



WB 120 0 25/27, with double heel

**Short design**

WB 120 0 27

D mm	GL mm	NL mm	S mm	QAL	DRI	ID
5	70	35	5x35	HW	RH	035885 ●
6	70	35	6x35	HW	RH	035886 ●
8	70	35	8x35	HW	RH	035888 ●
10	70	35	10x35	HW	RH	035889 ●

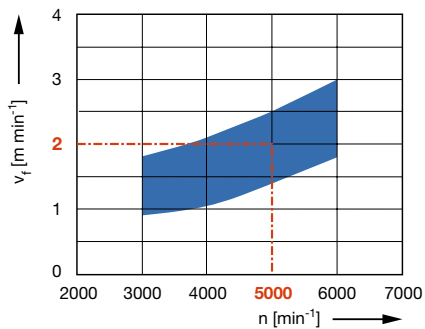
**Long design**

WB 120 0 25

D mm	GL mm	NL mm	S mm	QAL	DRI	ID
4	80	55	4x25	HW	RH	035882 ●
5	90	60	5x30	HW	RH	035872 ●
6	100	65	6x35	HW	RH	035874 ●
7	110	70	7x40	HW	RH	035876 ●
8	120	75	8x45	HW	RH	035877 ●
9	130	80	9x50	HW	RH	035878 ●
10	140	90	10x50	HW	RH	035879 ●
12	155	100	12x55	HW	RH	035881 ●

**RPM:**  $n = 3000 - 6000 \text{ min}^{-1}$

Feed speed  $v_f$  depending on the spindle RPM  $n$



**Workpiece material:**

Chipboard plastic coated

**Operation:**

Drilling

**Correction factor for  $v_f$ :**

Solid wood = 0.7

Laminated veneer lumber = 0.8

When drilling holes with a depth greater than  $4 \times D$  interim clearance stroke is recommended!

## 6. Drilling

### 6.1 Dowel drilling 6.1.2 Dowel drills - *Premium*



#### Shank 10 mm, HW tipped

##### Application:

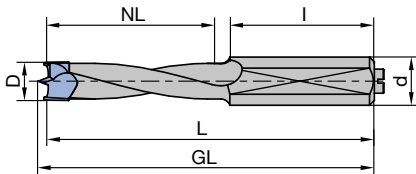
For drilling blind holes, particularly dowel holes in furniture construction. Suitable for drilling tear-free blind holes in visible areas and for machining panel materials which are covered with laminations difficult to machine (e.g. thin decorative paper).

##### Machine:

Point-to-point drilling machines, through feed drilling machines, CNC machining centres, hinge boring machines, multi spindle units.

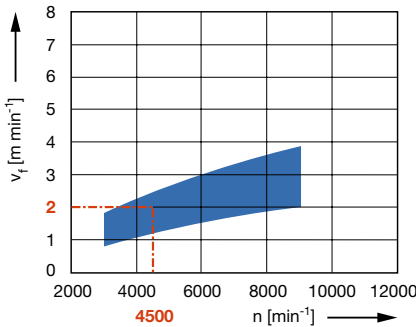
##### Workpiece material:

Softwood and hardwood, chipboard and fibre materials (MDF, HDF etc.), uncoated, plastic coated, veneered etc., laminated veneer lumber (plywood, multiplex plywood etc.).



Design without heel

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### Workpiece material:

Chipboard plastic coated

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Veneered = 0.8

Paper coated = 0.8

MDF, solid wood = 0.7

##### Technical information:

Spur geometry with high shear cut. High wear resistant tungsten carbide grade for maximum life time. Drills can be combined with countersink WB 701 0 02.

Countersinks can be clamped on the shank. Recessed flute for minimised friction and feed forces.

##### GL 57.5 mm, Z 2 / V 2

WB 120 0 29

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
4	57.5	56	25	10x27		<b>033715</b> ●
5	57.5	56	25	10x27	<b>033716</b> ●	<b>033717</b> ●
6	57.5	56	25	10x27	<b>033718</b> ●	<b>033719</b> ●
8	57.5	55.5	25	10x27	<b>033720</b> ●	<b>033721</b> ●
10	57.5	55.5	25	10x27	<b>033722</b> ●	<b>033723</b> ●

##### GL 70 mm, Z 2 / V 2

WB 120 0 30

D	GL	L	NL	S	ID	ID
mm	mm	mm	mm	mm	LH	RH
4	70	68.5	35	10x30	<b>033482</b> ●	<b>033483</b> ●
5	70	68.5	35	10x30	<b>033484</b> ●	<b>033485</b> ●
5.1	70	68.5	35	10x30	<b>033492</b> ●	<b>033493</b> ●
6	70	68.5	35	10x30	<b>033486</b> ●	<b>033487</b> ●
8	70	68.5	35	10x30	<b>033488</b> ●	<b>033489</b> ●
8.2	70	68.5	35	10x30	<b>033494</b> ●	<b>033495</b> ●
10	70	68.5	35	10x30	<b>033490</b> ●	<b>033491</b> ●

RPM:  $n = 3000 - 9000 \text{ min}^{-1}$

##### Spare parts:

BEZ	ABM	BEM	ID
	mm		
Allen screw	M5x10	Length adjustment	<b>005802</b> ●
Anti-twist allen screw	M5x10	Length adjustment	<b>007438</b> ●
Length adjustment screw Torx® 20	M5x17	for quick-change drill adaptors	<b>009157</b> ●

## 6. Drilling

### 6.4 Multi-purpose drilling

#### 6.4.1 Twist drills



#### HW solid, Z 2 / V 2, Marathon

##### Application:

For drilling very deep holes without interim clearance strokes. Particularly suitable for drilling connection and dowel holes in timber frame and window construction.

##### Machine:

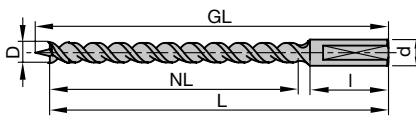
Stationary routers with/without CNC control, machining centres, special cutting machines to machine frame parts, column drilling machines, drilling machines, multi spindle units, portable drills.

##### Workpiece material:

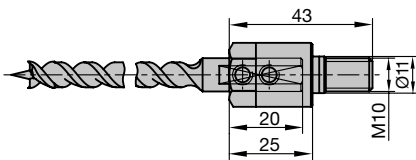
Softwood and hardwood, modified timber for window construction, laminated veneer lumber (plywood, multiplex etc.), glued lumber.

##### Technical information:

Design in solid tungsten carbide, Z 2/V 2 and centre point. Marathon coating for increased performance time. Extra-long centre point for use of the drills at an angle. Very large gullets for perfect chip removal particularly when drilling in end grain. Shank design with reduced clamping area for good centering in shrink and collet chucks.

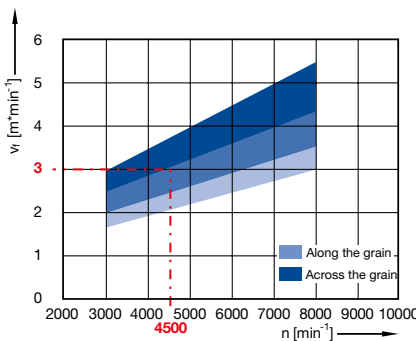


WB 120 0 34, solid tungsten carbide drill



WB 120 0 34, solid tungsten carbide drill with adaptor

Feed speed  $v_f$  depending on the spindle RPM  $n$



##### GL 105 mm

WB 120 0 34

D mm	GL mm	L mm	NL mm	S mm	DRI	ID with adaptor	ID without adaptor
3	105	102	70	10x25	RH	230121 □	230021 ●
3.5	105	102	70	10x25	RH	230122 □	230022 ●
4.5	105	101	70	10x25	RH	230123 □	230023 ●
6	105	100.5	70	10x25	RH	230108 □	230008 ●
6	105	100.5	70	10x25	LH	230109 □	230009 ●
8	105	99.5	70	10x25	RH	230110 □	230010 ●
8	105	99.5	70	10x25	LH	230111 □	230011 ●
10	105	98.5	70	10x25	RH	230112 □	230012 ●
10	105	98.5	70	10x25	LH	230113 □	230013 ●
12	105	97.5	70	10x25	RH	230114 □	230014 ●
12	105	97.5	70	10x25	LH	230115 □	230015 ●

##### GL 130 mm

WB 120 0 34

D mm	GL mm	L mm	NL mm	S mm	DRI	ID with adaptor	ID without adaptor
6	130	125.5	90	10x30	RH	230100 □	230000 ●
6	130	125.5	90	10x30	LH	230101 □	230001 ●
6.5	130	125.5	90	10x30	RH	230120 □	230020 ●
8	130	124.5	90	10x30	RH	230102 □	230002 ●
8	130	124.5	90	10x30	LH	230103 □	230003 ●
10	130	123.5	90	10x30	RH	230104 □	230004 ●
10	130	123.5	90	10x30	LH	230105 □	230005 ●
12	130	122.5	90	10x30	RH	230106 □	230006 ●
12	130	122.5	90	10x30	LH	230107 □	230007 ●

##### Diameter:

$D \leq 6$  mm

##### Workpiece material:

Softwood

##### Operation:

Drilling

##### Correction factor for $v_f$ :

Hardwood = 0.8

Laminated veneer lumber = 1.2





**HW solid, Z 2 / V2, with heel**

**Application:**

For drilling deep holes. Particularly suitable for drilling connection and dowel holes in timber frame and window construction.

**Machine:**

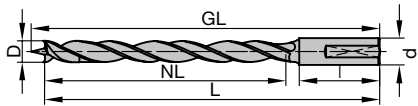
Stationary routers with/without CNC control, machining centres, special cutting machines to machine frame parts, column drilling machines, drilling machines, multi spindle units, portable drills.

**Workpiece material:**

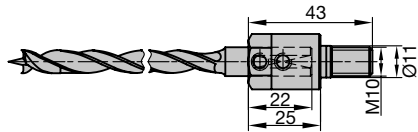
Softwood and hardwood, modified timber for window construction, laminated veneer lumber (plywood, multiplex etc.), glued lumber.

**Technical information:**

Design in solid tungsten carbide, Z 2/V 2 and centre point. Extra-long centre point for use of the drills at an angle. Design with double heel for improved guidance while drilling and return stroke from the hole. Shank design with reduced clamping area for good centering in shrink and collet chucks.

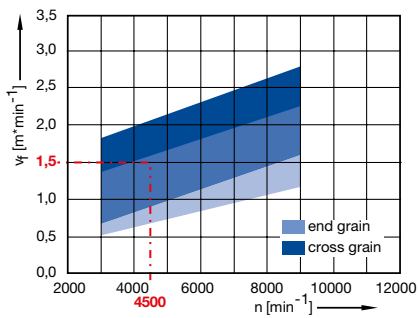


WB 120 0 35, solid tungsten carbide drill



WB 120 0 35, solid tungsten carbide drill with adaptor

Feed speed  $v_f$  depending on the spindle RPM  $n$



**Workpiece material:**

Softwood

**Operation:**

Drilling

**Correction factor for  $v_f$ :**

Hardwood = 0.8

Laminated veneer lumber = 1.1

**GL 105 mm**

WB 120 0 35

D mm	GL mm	L mm	NL mm	S mm	QAL	DRI	ID with adaptor	ID without adaptor
6	105	100.5	70	10x25	HW solid	RH	230158 □	230058 ●
6	105	100.5	70	10x25	HW solid	LH	230159 □	230059 ●
8	105	100	70	10x25	HW solid	RH	230160 □	230060 ●
8	105	100	70	10x25	HW solid	LH	230161 □	230061 ●
10	105	99.5	70	10x25	HW solid	RH	230162 □	230062 ●
10	105	99.5	70	10x25	HW solid	LH	230163 □	230063 ●
12	105	99	70	10x25	HW solid	RH	230164 □	230064 ●
12	105	99	70	10x25	HW solid	LH	230165 □	230065 ●

**GL 130 mm**

WB 120 0 35

D mm	GL mm	L mm	NL mm	S mm	QAL	DRI	ID with adaptor	ID without adaptor
6	130	125.5	90	10x30	HW solid	RH	230150 □	230050 ●
6	130	125.5	90	10x30	HW solid	LH	230151 □	230051 ●
6.5	130	125.5	90	10x30	HW solid	RH	230170 □	230070 ●
8	130	125	90	10x30	HW solid	RH	230152 □	230052 ●
8	130	125	90	10x30	HW solid	LH	230153 □	230053 ●
10	130	124.5	90	10x30	HW solid	RH	230154 □	230054 ●
10	130	124.5	90	10x30	HW solid	LH	230155 □	230055 ●
12	130	124	90	10x30	HW solid	RH	230156 □	230056 ●
12	130	124	90	10x30	HW solid	LH	230157 □	230057 ●

**GL 150 mm**

WB 120 0 35

D mm	GL mm	L mm	NL mm	S mm	QAL	DRI	ID without adaptor
14	150	143.5	100	10x30	HW solid	RH	230066 ●
16	150	143	100	10x30	HW solid	RH	230068 ●

**RPM:**  $n = 3000 - 9000 \text{ min}^{-1}$

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Казахстан (772)734-952-31

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93