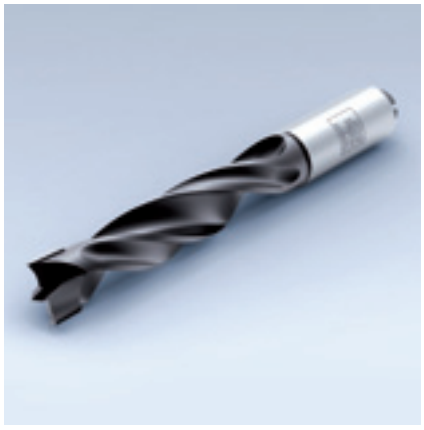
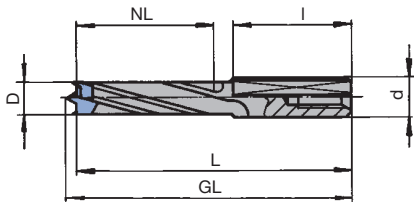
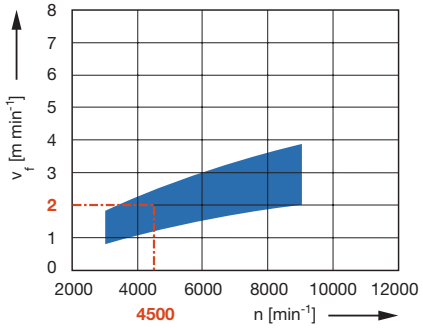



HW




Design with heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 8 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry. Suitable for machines with insufficient bit guidance.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Can be combined with loose countersink WB 701-0-03. Countersink fixed on flute. Continuously adjustable boring and countersink depth. Good guidance during return stroke for tear-free hole edges.

**GL 55.5 mm, with heel, Z 2 / V 2**
WB 120-0-23

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 4 | 55,5 | 54 | 30 | 8x19 | **042550** | ● | **042551** | ● |
| 5 | 55,5 | 54 | 30 | 8x19 | **042552** | ● | **042553** | ● |
| 6 | 55,5 | 54 | 30 | 8x19 | **042554** | ● | **042555** | ● |
| 8 | 55,5 | 53,5 | 30 | 8x19 | **042558** | ● | **042559** | ● |
| 10 | 55,5 | 53,5 | 30 | 8x21 | **042562** | ● | **042563** | ● |

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

**GL 67 mm, with heel, Z 2 / V 2**
WB 120-0-24

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 4 | 67 | 65,5 | 40 | 8x19 | **042566** | ● | **042567** | ● |
| 5 | 67 | 65,5 | 40 | 8x19 | **042568** | ● | **042569** | ● |
| 6 | 67 | 65,5 | 40 | 8x19 | **042570** | ● | **042571** | ● |
| 7 | 67 | 65,5 | 40 | 8x19 | **042572** | ● | **042573** | ● |
| 8 | 67 | 65 | 40 | 8x19 | **042574** | ● | **042575** | ● |
| 9 | 67 | 65 | 40 | 8x21 | **042576** | ● | **042577** | ● |
| 10 | 67 | 65 | 40 | 8x21 | **042578** | ● | **042579** | ● |

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

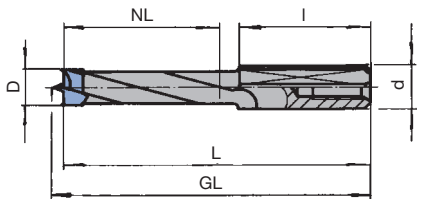
**Spare parts:**

| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |



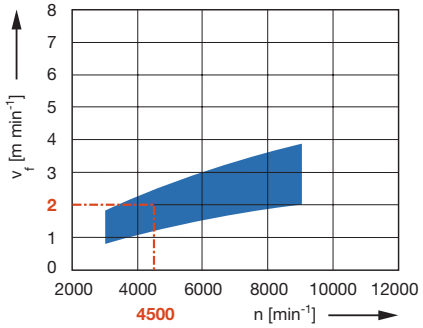
● available ex stock
□ available at short notice


HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Recessed flute for minimum friction and feed force. Can be used with loose countersink WB 701-0-02. Countersinks are fixed to the shank.

**GL 57.5 mm, without heel, Z 2 / V 2**
WB 120-0-12

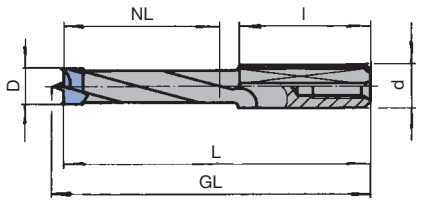
| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 3 | 57,5 | 56 | 16 | 10x34 | **033610** | ● | **033611** | ● |
| 4 | 57,5 | 56 | 25 | 10x27 | **033670** | ● | **033671** | ● |
| 4,5 | 57,5 | 56 | 25 | 10x27 | **033710** | ● | **033711** | ● |
| 5 | 57,5 | 56 | 25 | 10x27 | **033672** | ● | **033673** | ● |
| 5,1 | 57,5 | 56 | 25 | 10x27 | **033674** | ● | **033675** | ● |
| 5,2 | 57,5 | 56 | 25 | 10x27 | **033676** | ● | **033677** | ● |
| 6 | 57,5 | 56 | 25 | 10x27 | **033678** | ● | **033679** | ● |
| 7 | 57,5 | 56 | 25 | 10x27 | **033680** | ● | **033681** | ● |
| 8 | 57,5 | 55,5 | 25 | 10x27 | **033682** | ● | **033683** | ● |
| 8,1 | 57,5 | 55,5 | 25 | 10x27 | **033684** | ● | **033685** | ● |
| 8,2 | 57,5 | 55,5 | 25 | 10x27 | **033686** | ● | **033687** | ● |
| 9 | 57,5 | 55,5 | 25 | 10x27 | **033688** | ● | **033689** | ● |
| 10 | 57,5 | 55,5 | 25 | 10x27 | **033690** | ● | **033691** | ● |
| 12 | 57,5 | 55,5 | 30 | 10x22 | **033692** | ● | **033693** | ● |
| 14 | 57,5 | 55,5 | 30 | 10x22 | **033694** | ● | **033695** | ● |
| 15 | 57,5 | 55,5 | 30 | 10x22 | **033696** | ● | **033697** | ● |
| 16 | 57,5 | 55,5 | 30 | 10x22 | **033698** | ● | **033699** | ● |
| 3,18 | 57,5 | 56 | 25 | 10x27 | **033700** | ● | **033701** | ● |
| 6,35 | 57,5 | 56 | 25 | 10x27 | **033702** | ● | **033703** | ● |
| 9,53 | 57,5 | 55,5 | 25 | 10x27 | **033704** | ● | **033705** | ● |
| 12,7 | 57,5 | 55,5 | 25 | 10x22 | **033708** | ● | **033709** | ● |

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

**Spare parts:**

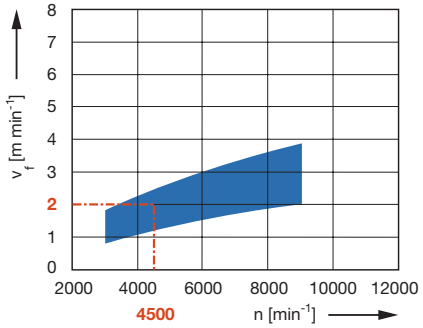
| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |


HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Recessed flute for minimum friction and feed force. Can be used with loose countersink WB 701-0-02. Countersinks are fixed to the shank.

**GL 70 mm, without heel, Z 2 / V 2**
WB 120-0-10

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 3 | 70 | 68,5 | 16 | 10x45 | **042596** | ● | **042597** | ● |
| 4 | 70 | 68,5 | 35 | 10x30 | **033476** | ● | **033477** | ● |
| 5 | 70 | 68,5 | 35 | 10x30 | **033440** | ● | **033441** | ● |
| 6 | 70 | 68,5 | 35 | 10x30 | **033442** | ● | **033443** | ● |
| 7 | 70 | 68,5 | 35 | 10x30 | **033444** | ● | **033445** | ● |
| 8 | 70 | 68 | 35 | 10x30 | **033446** | ● | **033447** | ● |
| 9 | 70 | 68 | 35 | 10x30 | **033478** | ● | **033479** | ● |
| 10 | 70 | 68 | 35 | 10x30 | **033448** | ● | **033449** | ● |
| 11 | 70 | 68 | 35 | 10x30 | **033480** | ● | **033481** | ● |
| 12 | 70 | 68 | 35 | 10x30 | **033450** | ● | **033451** | ● |
| 13 | 70 | 68 | 35 | 10x30 | **033452** | ● | **033453** | ● |
| 14 | 70 | 68 | 35 | 10x30 | **033454** | ● | **033455** | ● |
| 16 | 70 | 67,5 | 35 | 10x30 | **033456** | ● | **033457** | ● |

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

**GL 77 mm, without heel, Z 2 / V 2**
WB 120-0-07

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 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** | ● |

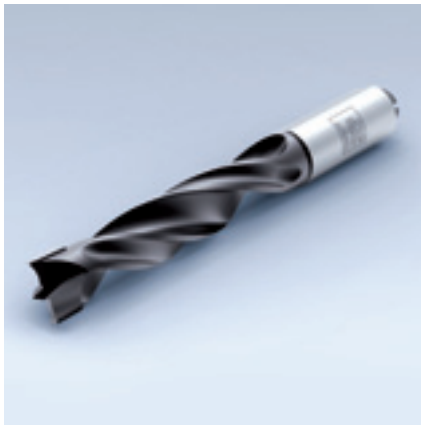
**RPM:** n = 3000 - 9000 $min^{-1}$

**Spare parts:**

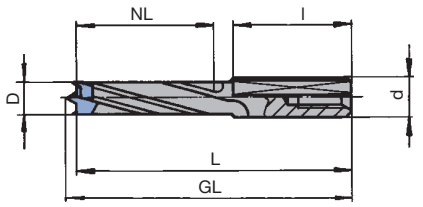
| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |



● available ex stock
□ available at short notice

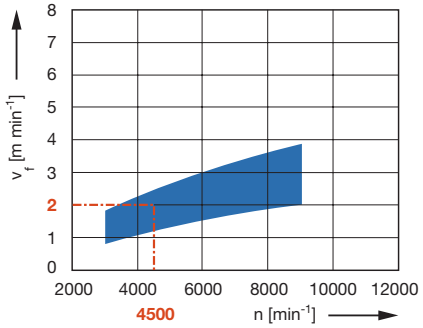



HW




Design with heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry. Suitable for machines with insufficient bit guidance.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Can be combined with loose countersink WB 701-0-03. Countersink fixed on flute. Continuously adjustable boring and countersink depth. Good return stroke guidance for tear-free hole edges.

**GL 70 mm, with heel, Z 2 / V 2**
WB 120-0-26

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 5 | 70 | 68,5 | 43 | 10x19 | **042586** | ● | **042587** | ● |
| 6 | 70 | 68,5 | 43 | 10x19 | **042588** | ● | **042589** | ● |
| 8 | 70 | 68 | 43 | 10x19 | **042590** | ● | **042591** | ● |
| 10 | 70 | 68 | 43 | 10x19 | **042592** | ● | **042593** | ● |
| 12 | 70 | 68 | 43 | 10x19 | **042594** | ● | **042595** | ● |

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

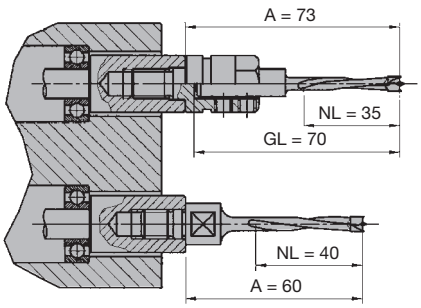
**Spare parts:**

| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |

6


HW

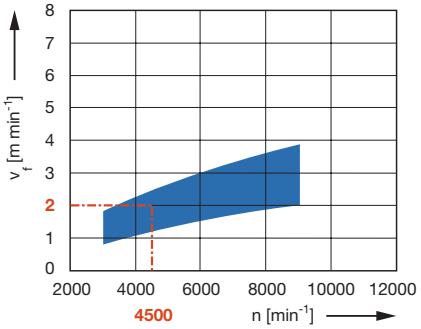
Boring bit mounted in reducing chucks




Boring bit with threaded shank mounted directly in the boring spindle

Length comparison: Dowel drills with threaded shank have a deeper boring depth than a comparable boring bit with cylindrical shank mounted in reducing chucks while having a lower overhang A with regard to the boring spindle.

Feed speed $v_f$ depending on the spindle RPM n




## Threaded shank

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Recessed flute for minimum friction and feed force. Threaded shank for direct mounting in the drilling spindles.

**M 10, tapered seating 11 mm, without heel, Z 2 / V 2**
WB 120-0-17

| D mm | GL mm | NL mm | b mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 5 | 75 | 40 | 60 | M 10, tapered seating 11 mm | **035200** | ● | **035201** | ● |
| 6 | 75 | 40 | 60 | M 10, tapered seating 11 mm | **035202** | ● | **035203** | ● |
| 8 | 75 | 40 | 60 | M 10, tapered seating 11 mm | **035204** | ● | **035205** | ● |
| 10 | 75 | 40 | 60 | M 10, tapered seating 11 mm | **035206** | ● | **035207** | ● |
| 12 | 75 | 40 | 60 | M 10, tapered seating 11 mm | **035208** | ● | **035209** | ● |

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

**M 10, without tapered seating, without heel, Z 2 / V 2**
WB 120-0-18

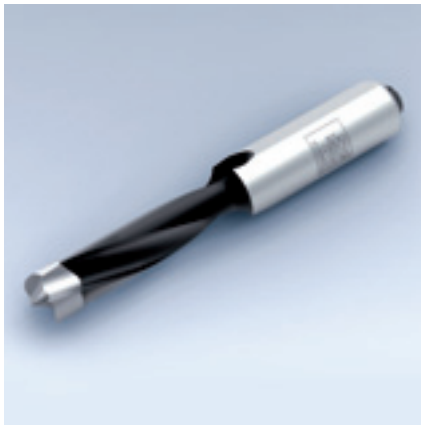
| D mm | GL mm | NL mm | b mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 5 | 78 | 43 | 63 | M 10, without tapered seating | **035260** | ● | **035261** | ● |
| 6 | 78 | 43 | 63 | M 10, without tapered seating | **035262** | ● | **035263** | ● |
| 8 | 78 | 43 | 63 | M 10, without tapered seating | **035264** | ● | **035265** | ● |
| 10 | 78 | 43 | 63 | M 10, without tapered seating | **035266** | ● | **035267** | ● |
| 12 | 78 | 43 | 63 | M 10, without tapered seating | **035268** | ● | **035269** | ● |

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

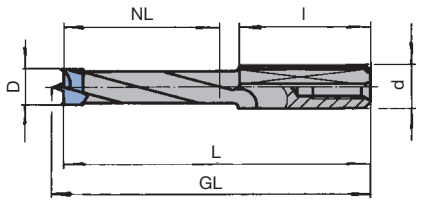
**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3



● available ex stock
□ available at short notice

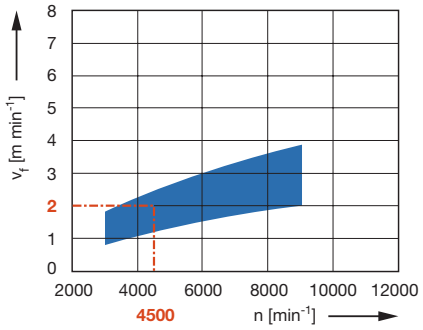



HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7

## Shank 8 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry. Suitable for drilling tear-free hinge holes in visible areas and for machining panel materials which are covered with hard-to-machine surface coatings (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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with extreme shear cut. High wear-resistant tungsten carbide quality for maximum life time. Recessed flute for minimum friction and feed forces.

**GL 55.5 mm, Z 2 / V 2**
WB 120-0-31

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 5 | 55,5 | 54 | 30 | 8x19 | **033724** | ● | **033725** | ● |
| 8 | 55,5 | 54 | 30 | 8x19 | **033726** | ● | **033727** | ● |

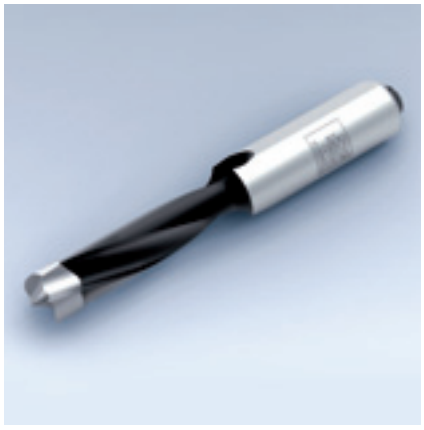
**RPM:** n = 3000 - 9000 min$^{-1}$

**Spare parts:**

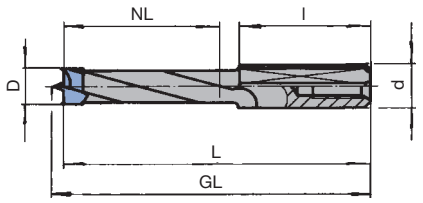
| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |

6

● available ex stock
□ available at short notice

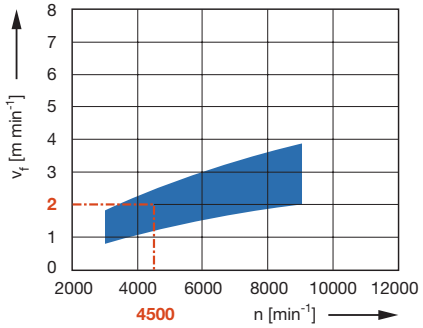



HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry. Suitable for drilling tear-free hinge holes in visible areas and for machining panel materials which are covered with hard-to-machine surface coatings (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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with extreme shear cut. High wear-resistant tungsten carbide quality for maximum life time. Can be combined with loose countersink
WB 701-0-02. Countersink fixed on flute. Recessed flute for minimum friction and feed forces.

**GL 57.5 mm, Z 2 / V 2**
WB 120-0-29

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 4 | 57,5 | 56 | 25 | 10x27 | **033714** | ● | **033715** | ● |
| 5 | 57,5 | 56 | 25 | 10x27 | **033716** | ● | **033717** | ● |
| 6 | 57,5 | 56 | 25 | 10x27 | **033718** | ● | **033719** | ● |
| 8 | 57,5 | 55,5 | 25 | 10x27 | **033720** | ● | **033721** | ● |
| 10 | 57,5 | 55,5 | 25 | 10x27 | **033722** | ● | **033723** | ● |

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

**GL 70 mm, Z 2 / V 2**
WB 120-0-30

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 4 | 70 | 68,5 | 35 | 10x30 | **033482** | ● | **033483** | ● |
| 5 | 70 | 68,5 | 35 | 10x30 | **033484** | ● | **033485** | ● |
| 5,1 | 70 | 68,5 | 35 | 10x30 | **033492** | ● | **033493** | ● |
| 6 | 70 | 68,5 | 35 | 10x30 | **033486** | ● | **033487** | ● |
| 8 | 70 | 68,5 | 35 | 10x30 | **033488** | ● | **033489** | ● |
| 8,2 | 70 | 68,5 | 35 | 10x30 | **033494** | ● | **033495** | ● |
| 10 | 70 | 68,5 | 35 | 10x30 | **033490** | ● | **033491** | ● |

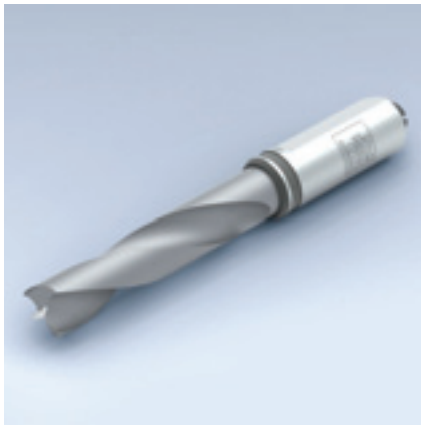
**RPM:** n = 3000 - 9000 min$^{-1}$

**Spare parts:**

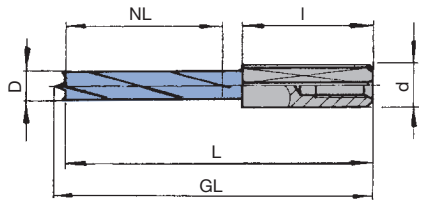
| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |
| Allen screw | M3x2,5 | Locking device | **007889** | ● |



● available ex stock
□ available at short notice

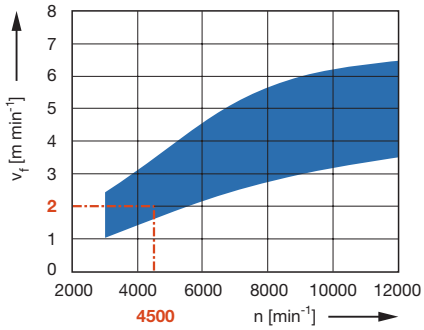



HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry. Suitable for drilling tear-free hinge holes in visible areas and for machining panel materials which are covered with hard-to-machine surface coatings (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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with extreme shear cut. Solid tungsten carbide design with high wear-resistant tungsten carbide quality. High stability and long performance time. Polished gullet for minimum friction and feed forces.

**GL 57.5 mm, Z 2 / V 2**
WB 120-0-11, WB 120-0-32, WB 120-0-33

| D mm | GL mm | L mm | NL mm | S mm | ID LL | ID RL |
|---|---|---|---|---|---|---|
| 3 | 57,5 | 56 | 16 | 10x34 | **033610** ● | **033611** ● |
| 5 | 57,5 | 56 | 25 | 10x27 | **033728** ● | **033729** ● |
| 6 | 57,5 | 56 | 25 | 10x27 | **033730** ● | **033731** ● |
| 8 | 57,5 | 56 | 25 | 10x27 | **033732** ● | **033733** ● |

**RPM:** n = 3000 - 12000 min$^{-1}$

**GL 70 mm, Z 2 / V 2**
WB 120-0-11, WB 120-0-32, WB 120-0-33

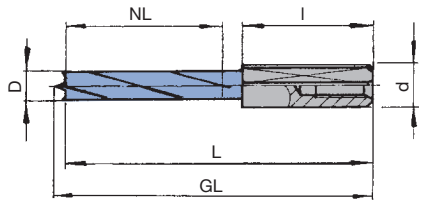
| D mm | GL mm | L mm | NL mm | S mm | ID LL | ID RL |
|---|---|---|---|---|---|---|
| 5 | 70 | 68,5 | 35 | 10x27 | **033496** ● | **033497** ● |
| 6 | 70 | 68,5 | 35 | 10x27 | **033498** ● | **033499** ● |
| 8 | 70 | 68,5 | 35 | 10x27 | **033500** ● | **033501** ● |

**RPM:** n = 3000 - 12000 min$^{-1}$

**Spare parts:**

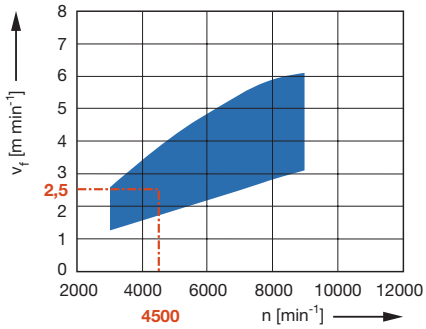
| BEZ | ABM mm | BEM | ID |
|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** ● |
| Allen screw for S10x27 | M5x8 | Length adjustment | **006378** ● |


HW




Design without heel

Feed speed $v_f$ depending on the spindle RPM n




**Workpiece material:**
Chipboard plastic coated
**Working step:**
Boring
**Correction factor for $v_f$:**
Veneered = 0.8
Paper-coated = 0.8
MDF, solid wood = 0.7
Chipboard, untreated = 1.3

## Shank 10 mm

**Application:**
For drilling dowel holes, especially dowel holes in cabinetry, with increased feed speed compared to drilling bits with Z 2 / V 2.

**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 (chipboard, MDF, HF etc.), untreated, plastic-coated, veneered etc., laminated woods (plywood etc.).

**Technical information:**
Spur geometry with shear cut. Version in HW-solid.

**Z 3 / V 3**
WB 120-0-11,

| D mm | GL mm | L mm | NL mm | S mm | ID LL | | ID RL | |
|---|---|---|---|---|---|---|---|---|
| 5 | 57,5 | 56 | 25 | 10x26 | **034124** | ● | **034125** | ● |

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

**Spare parts:**

| BEZ | ABM mm | BEM | ID | |
|---|---|---|---|---|
| Allen screw | M5x10 | Length adjustment | **005802** | ● |



● available ex stock
□ available at short notice