

LATHE TOOLING

For HAAS and Other Brands



RedLine[®] Tools
PERFORMANCE MATTERS



Why Buy RedLine Tools?

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American Made Value

All RedLine products are 100% Made in the USA. We strive to offer quality products with outstanding value, and excellent deliveries at fair prices.

Shop with Confidence

We value your business and will continue to do our best to meet your needs. If you are not completely satisfied with our service or purchase we will do our best to make it right.

Catalog Introduction

Our RedLine Lathe Tooling Catalog is your comprehensive guide to product selection for Live Tools, Tool Blocks & accessories for Lathes.

Tooling for Haas 12 & 24 station bolt-on tool turrets and hybrid turrets can be found by Haas machine model starting on page 14.

Live tools and toolholder blocks for machines equipped with BMT65 turrets can be found on pages 6-11. BMT65 Live Tools and Toolholder blocks work with Haas and select machines equipped with a BMT65 turret.

To increase the productivity of your turning center, consider our tool blocks equipped with KM50 or Polygon Shank Couplings which allows you to change over or replace tools quickly and efficiently.

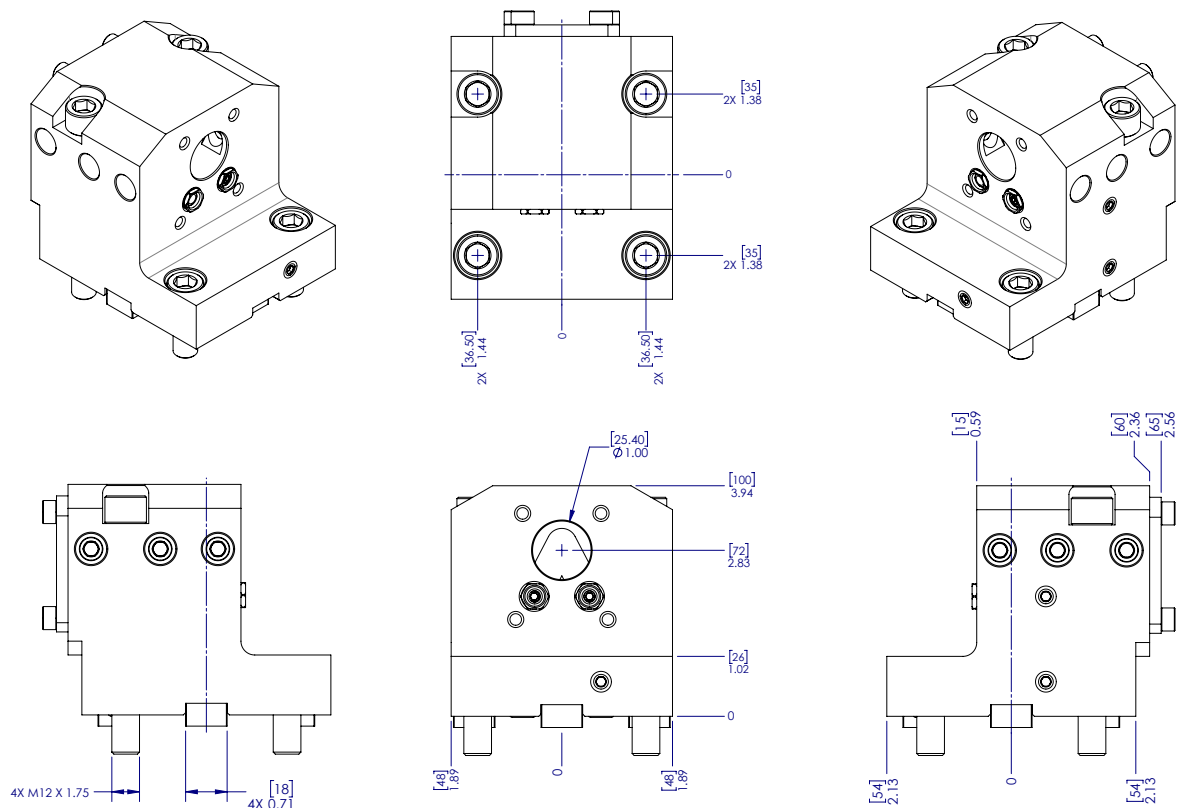
Our live tools equiped with VariaConnect allow you to change tools in less than 20 seconds. These tools can be found on page Z

Compatible machine brands with BMT65 turrets include:

Doosan Daewoo
Emag
Emco
Hwacheon
Hyundai-WIA
LEADWELL

Samsung (SMEC)
Victor
WIA (KIA)

Please check manufacturer drawings and refer to the diagrams below to verify fit on your specific machine turret.



BMT65 Turret Tooling

Fits Haas & Other Brand Lathes

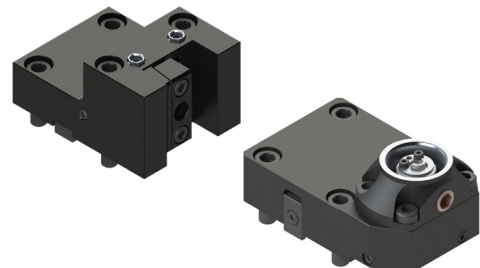
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Tooling for Haas

12 Station Bolt-On Tool Turrets and 12 & 24 Station Hybrid Turrets

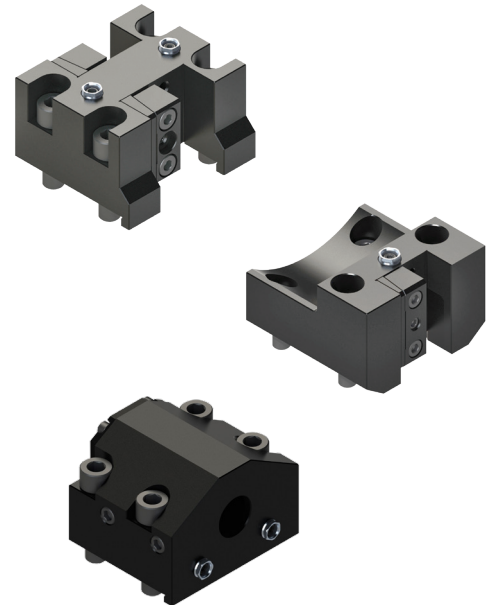
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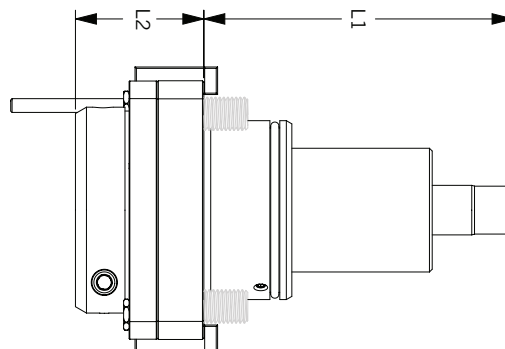
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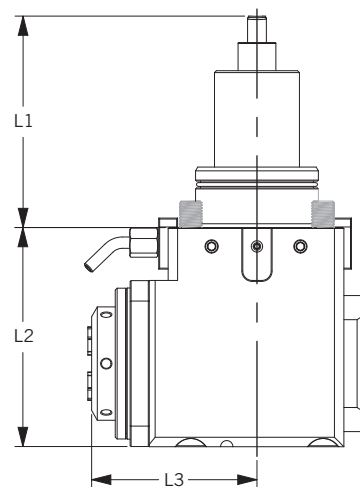


BMT65 Live Tools - ER32 Spindle

*One (1) collet nut wrench and one (1) spanner wrench is included.

**Axial****BMT65 Axial Live Tool***Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Collet	LI	L2	Max RPM	Drive Ratio	Runout
RHAB65A32	BMT65	Internal	ER32	112MM	47MM	6,000	1:1	≤.0002

**Radial****BMT65 Radial Live Tool***Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Tool Type	LI	L2	L3	Max RPM	Drive Ratio	Runout
RHRB65A32	BMT65	Internal	ER32	112MM	116MM	87.50MM	6,000	1:1	≤.0002

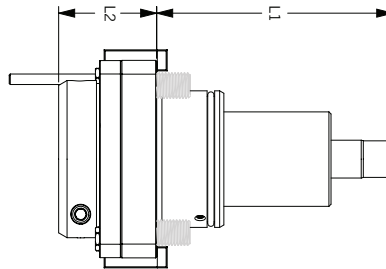
Collets can be found on pages [50-66](#). For hardware visit page [44](#).

BMT65 Live Tools - VariaConnect Spindle

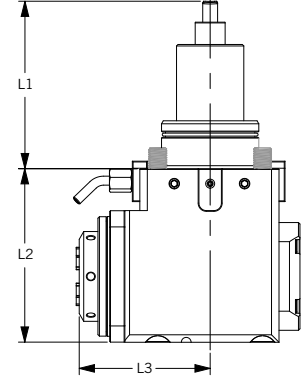
*Must purchase VariaConnect adapter to use these tools. *Torque Wrench sold separately.



Axial



Radial



BMT65 Axial Live Tool*

Coolant Option: **External Coolant**

Part #	Coupling	Tool Type	L1	L2	Max RPM	Drive Ratio	Runout
RHAB65AVC	BMT65	VariaConnect	112MM	47MM	6,000	1:1	≤.0002

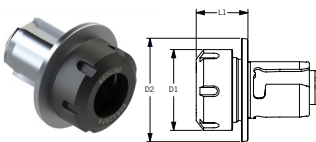
BMT65 Radial Live Tool*

Coolant Option: **External Coolant**

Part #	Coupling	Tool Type	L1	L2	L3	Max RPM	Drive Ratio	Runout
RHRB65AVC	BMT65	VariaConnect	112MM	116MM	88.13MM	6,000	1:1	≤.0002

VariaConnect Adapters & Accessories

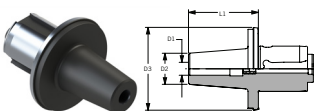
Collet Chucks



Series	Collet Range	L1	D1	D2	Part #
ER16	.0197-.3937	23.50MM	28MM	64MM	RVCER16
ER20	.0197-.5118	27MM	34MM	64MM	RVCER20
ER25	.0197-.6300	28MM	42MM	64MM	RVCER25
ER32	.0394-.7874	30MM	50MM	64MM	RVCER32
ER40	.0787-1.1811	57MM	63MM	64MM	RVCER40

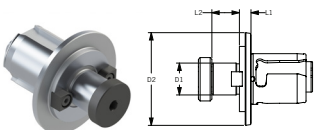
Collets can be found on pages [50-66](#).

Shrink Fit Holders



Size	L1	D1	D2	D3	Part #
1/4"	54MM	6.35MM	21MM	64MM	RVCSF0250
3/8"	54MM	9.53MM	24MM	64MM	RVCSF0375
1/2"	54MM	12.70MM	24MM	64MM	RVCSF0500
5/8"	54MM	15.88MM	27MM	64MM	RVCSF0625
3/4"	61.50MM	19.05MM	33MM	64MM	RVCSF0750

FaceMill Holders



Size	L1	L2	D1	D2	Part #
1/2"	8MM	14.30MM	12.70MM	64MM	RVCFM0500
3/4"	8MM	17MM	19.05MM	64MM	RVCFM0750

Set-up Fixture
Part #: [RVCSF](#)



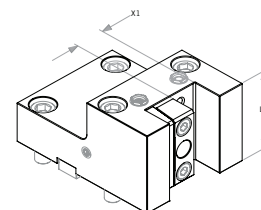
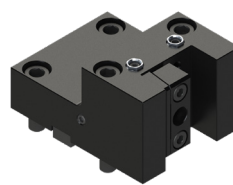
Torque Wrench
Part #: [RVCW](#)



BMT65 Standard Tool Holder Blocks

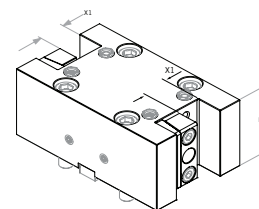
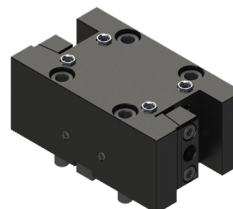
Turning Tool Holder - Standard*

Turret	Part Number	X1	L1
BMT65	RB65OD100	1.00	2.76
BMT65	RB65MOD25MM	25MM	70MM



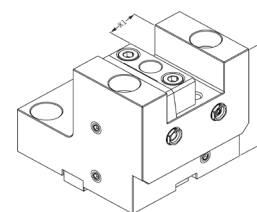
Double Sided Turning Tool Holder - Standard*

Turret	Part Number	X1	L1
BMT65	RB65OD100DS	1.00	2.76
BMT65	RB65MOD25MMDS	25MM	70MM



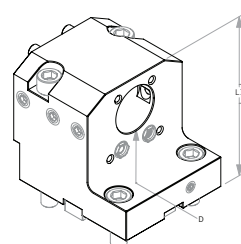
Face Groove Holders

Turret	Part Number	X1	L1
BMT65	RB65ODF100	1.00	3.66



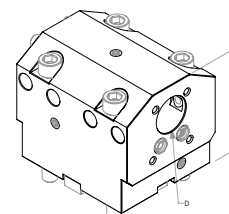
Boring Bar Holder - Standard**

Turret	Part Number	D	L1
BMT65	RB65ID100	1.00	3.94
BMT65	RB65ID150	1.50	3.94
BMT65	RB65MID25MM	25MM	100MM
BMT65	RB65MID40MM	40MM	100MM



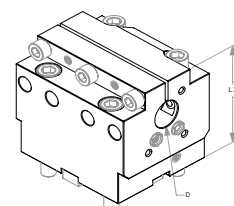
Double Sided Boring Bar Holder - Standard**

Turret	Part Number	D	L1
BMT65	RB65ID125DS	1.25	3.94
BMT65	RB65MID32MMDS	32MM	100MM



Split Block Boring Bar Holder - Standard**

Turret	Part Number	D	L1
BMT65	RB65ID100SP	1.00	4.15
BMT65	RB65ID150SP	1.50	4.41
BMT65	RB65ID200SP	2.00	4.67
BMT65	RB65MID25MMSP	25MM	105.50MM
BMT65	RB65MID40MMSP	40MM	112MM
BMT65	RB65MID50MMSP	50MM	118.50MM



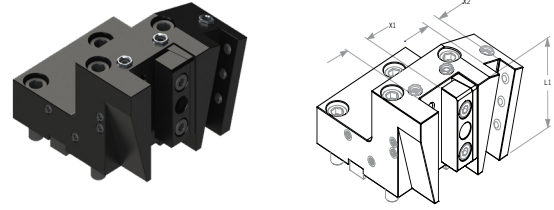
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

BMT65 Half-Index Tool Holder Blocks

Machine must be capable of half-index to use these tools.

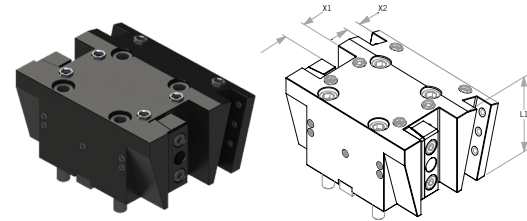
Single Sided Turning Tool Holder - Half-Index*

Turret	Part Number	X1	X2	L1
BMT65	RB65OD075100HI	1.00	.75	3.35
BMT65	RB65MOD2025MMHI	25MM	20MM	85MM



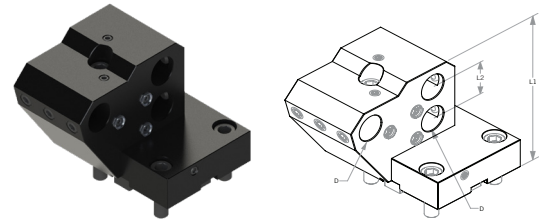
Double Sided Turning Tool Holder - Half-Index*

Turret	Part Number	X1	X2	L1
BMT65	RB65OD075100HIDS	1.00	.75	3.35
BMT65	RB65MOD2025MMHIDS	25MM	20MM	85MM



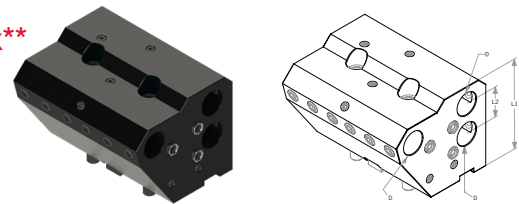
Single Sided Boring Bar Holder - Half-Index**

Turret	Part Number	D	L1	L2
BMT65	RB65ID100100HI	1.00	4.13	1.38
BMT65	RB65MID2525MMHI	25MM	105MM	35MM



Double Sided Boring Bar Holder, Extended - Half-Index**

Turret	Part Number	D	L1	L2
BMT65	RB65ID100100HIDS	1.00	2.20	1.38
BMT65	RB65MID2525MMHIDS	25MM	56MM	35MM



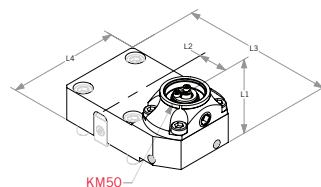
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

BMT65 Tool Blocks

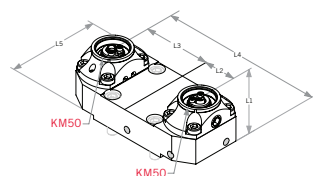
with Kennametal KM50 Connection

Single OD Tool Block*

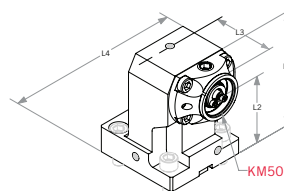
Turret	Part Number	L1	L2	L3	L4
BMT65	RB65ODKM50S	70MM	71MM	148.50MM	95MM

**Double OD Tool Block***

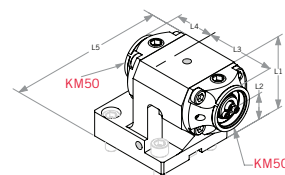
Turret	Part Number	L1	L2	L3	L4	L5
BMT65	RB65ODKM50D	70MM	71MM	71MM	197MM	95MM

**Single ID Tool Block***

Turret	Part Number	L1	L2	L3	L4
BMT65	RB65IDKM50S	128MM	100MM	70MM	96MM

**Double ID Tool Block***

Turret	Part Number	L1	L2	L3	L4	L5
BMT65	RB65IDKM50D	112.50MM	85MM	103MM	27MM	95MM

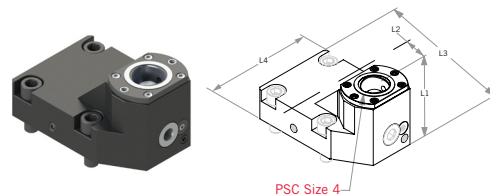
Coolant Option: **Internal Coolant***

BMT65 Tool Blocks

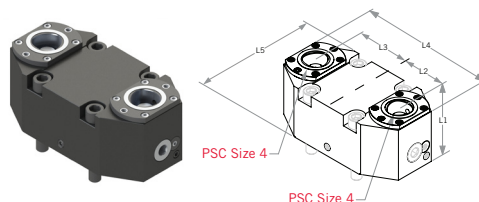
with Size 4 Polygon Shank Coupling Connection

Single OD Tool Block*

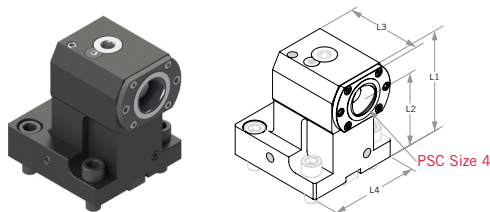
Turret	Part Number	L1	L2	L3	L4
BMT65	RB65ODC4S	74MM	65MM	139MM	94MM

**Double OD Tool Block***

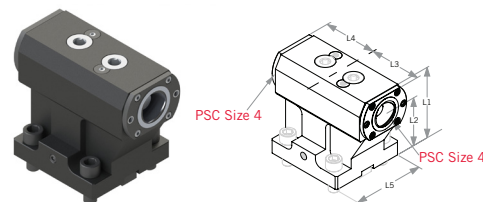
Turret	Part Number	L1	L2	L3	L4	L5
BMT65	RB65ODC4D	74MM	65MM	65MM	178MM	95MM

**Single ID Tool Block***

Turret	Part Number	L1	L2	L3	L4
BMT65	RB65IDC4S	114MM	90MM	113MM	95MM

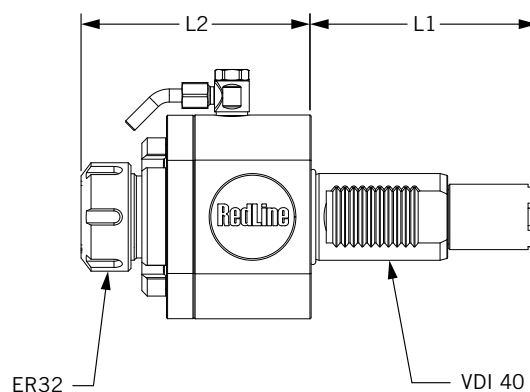
**Double ID Tool Block***

Turret	Part Number	L1	L2	L3	L4	L5
BMT65	RB65IDC4D	114MM	90MM	77MM	63MM	95MM

Coolant Option: **Internal Coolant***

Axial Live Tools for Haas Lathes

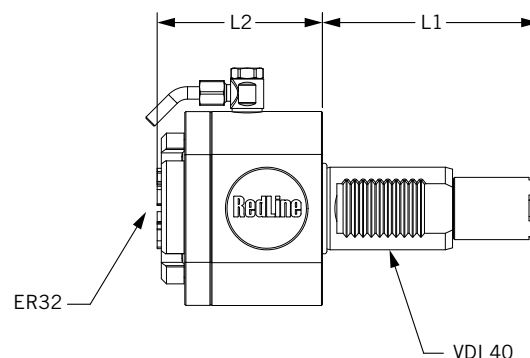
*One (1) collet nut wrench and one (1) spanner wrench is included.



VDI40 Axial Live Tools*

Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Collet	LI	L2	VDI	Max RPM	Drive Ratio	Runout
RHALT10532	Short	External	ER32	105MM	112MM	40	6,000	1:1	≤.0002
RHALT11832	Medium	External	ER32	118MM	112MM	40	6,000	1:1	≤.0002
RHALT13032	Long	External	ER32	130MM	112MM	40	6,000	1:1	≤.0002



VDI40 Axial Live Tools*

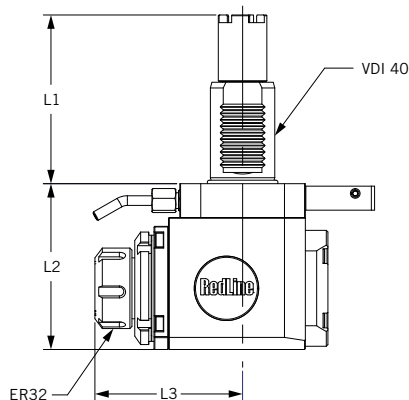
Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Collet	LI	L2	VDI	Max RPM	Drive Ratio	Runout
RHALT10532I	Short	Internal	ER32	105MM	78MM	40	6,000	1:1	≤.0002
RHALT11832I	Medium	Internal	ER32	118MM	78MM	40	6,000	1:1	≤.0002
RHALT13032I	Long	Internal	ER32	130MM	78MM	40	6,000	1:1	≤.0002

Collets can be found on pages [50-66](#). For hardware visit page [44](#).

Radial Live Tools for Haas Lathes

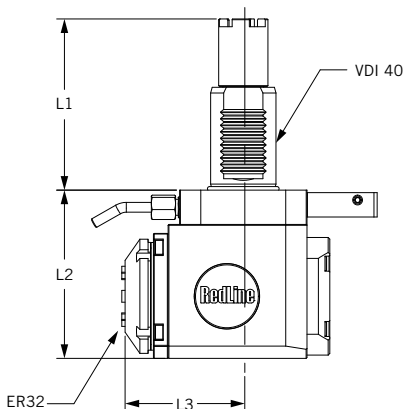
*One (1) collet nut wrench and one (1) spanner wrench is included.



Radial Live Tools*

Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Collet	L1	L2	L3	VDI	Max RPM	Drive Ratio	Runout
RHRLT10532CW	Short	External	ER32	105MM	103MM	84MM	40	6,000	1:1	≤.0002
RHRLT11832CW	Medium	External	ER32	118MM	103MM	84MM	40	6,000	1:1	≤.0002
RHRLT13032CW	Long	External	ER32	130MM	103MM	84MM	40	6,000	1:1	≤.0002



Radial Live Tools*

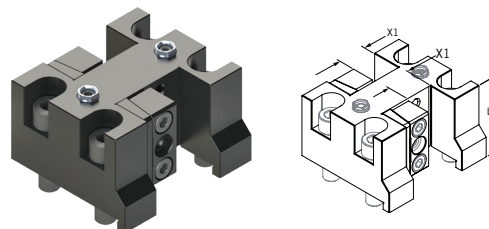
Coolant Option: **External Coolant**

Part Number	Coupling	Nut	Collet	L1	L2	L3	VDI	Max RPM	Drive Ratio	Runout
RHRLT10532ICW	Short	Internal	ER32	105MM	103MM	82MM	40	6,000	1:1	≤.0002
RHRLT11832ICW	Medium	Internal	ER32	118MM	103MM	82MM	40	6,000	1:1	≤.0002
RHRLT13032ICW	Long	Internal	ER32	130MM	103MM	82MM	40	6,000	1:1	≤.0002

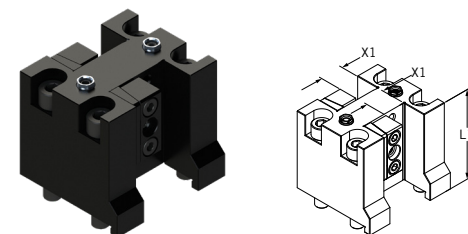
Collets can be found on pages [50-66](#). For hardware visit page [44](#).

VB/BOT12 Turret**Bolt-On Tools for Haas DS-30 Lathes****Twin Turning Tool Holders***

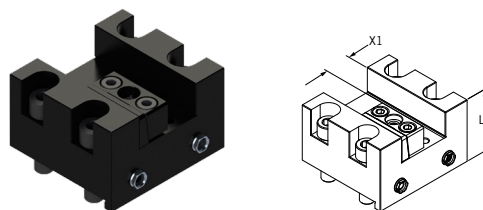
Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00T	1.00	2.15
VB/BOT12	RBOT20MOD25MMT	25MM	55MM

**Extended Twin Turn Holders***

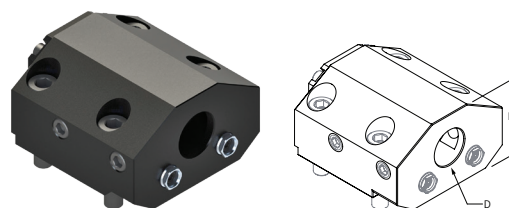
Turret	Part Number	X1	L1
VB/BOT12	RBOT20EXTOD1.00T	1.00	3.30
VB/BOT12	RBOT20EXTMOD25MMT	25MM	84MM

**Face Groove Holders***

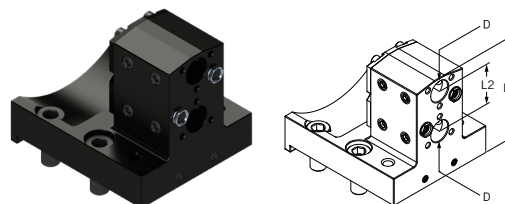
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

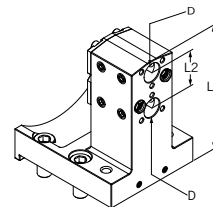
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas DS-30 Lathes

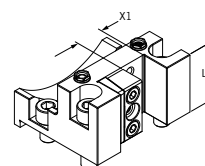
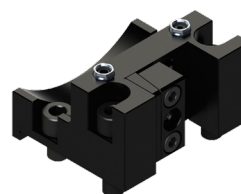
Extended Twin Boring Bar Holders**

Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20EXTID.75T	.75	5.25	1.50
VB/BOT12	RBOT20EXTMID20MMT	20MM	133.40MM	38.10MM



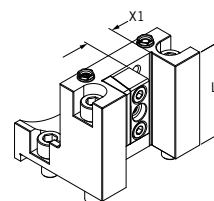
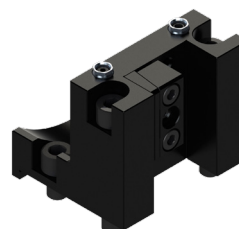
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



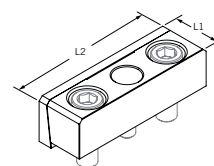
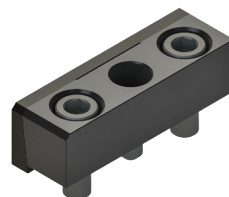
Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20EXTOD1.00	1.00	3.30
VB/BOT12	RBOT20EXTMOD25MM	25MM	84MM



Turret Wedge Clamps

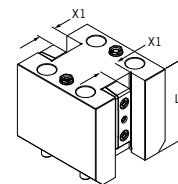
Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



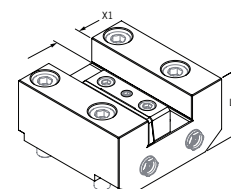
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas DS-30SS Lathes****Extended Twin Turn Holders***

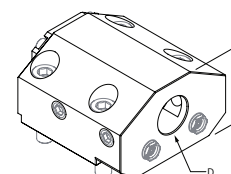
Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75T	.75	3.31
VB24	RBOT24EXTMOD20MMT	20MM	84MM

**Face Groove Holders***

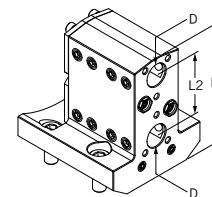
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

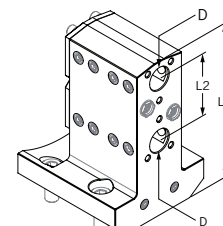
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Extended Twin Boring Bar Holders****

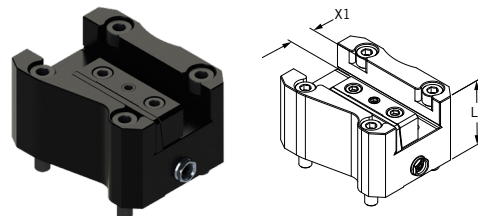
Turret	Part Number	D	L1	L2
VB24	RBOT24EXTID.75T	.75	5.13	2.15
VB24	RBOT24EXTMID20MMT	20MM	130.30MM	54.60MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas **DS-30SS** Lathes

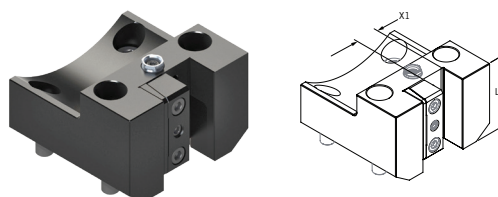
Facing Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM



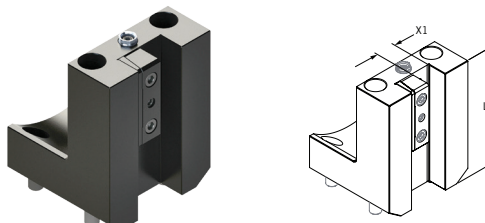
Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM



Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75	.75	4.34
VB24	RBOT24EXTMOD20MM	20MM	110MM



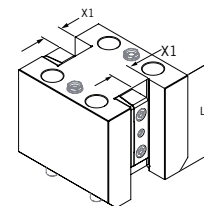
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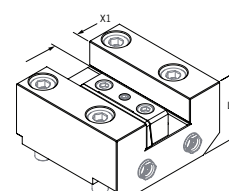
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas DS-30SSY Lathes****Extended Twin Turn Holders***

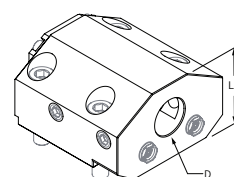
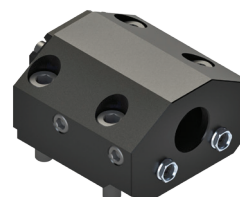
Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75T	.75	3.31
VB24	RBOT24EXTMOD20MMT	20MM	84MM

**Face Groove Holders***

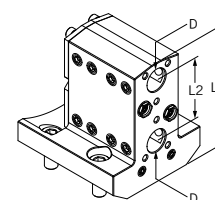
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

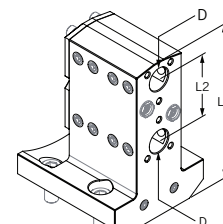
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Extended Twin Boring Bar Holders****

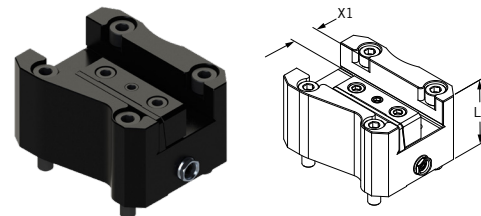
Turret	Part Number	D	L1	L2
VB24	RBOT24EXTID.75T	.75	5.13	2.15
VB24	RBOT24EXTMID20MMT	20MM	130.30MM	54.60MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas **DS-30SSY** Lathes

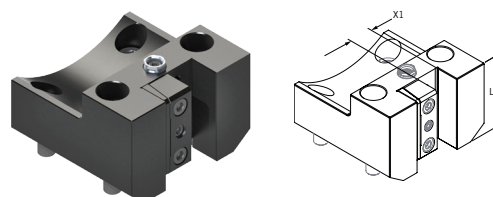
Facing Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM



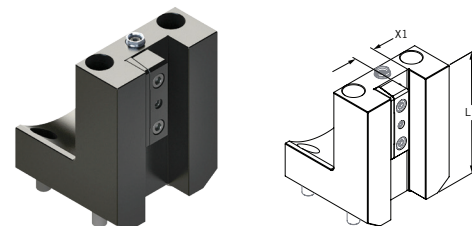
Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM



Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75	.75	4.34
VB24	RBOT24EXTMOD20MM	20MM	110MM



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Pail



Drum

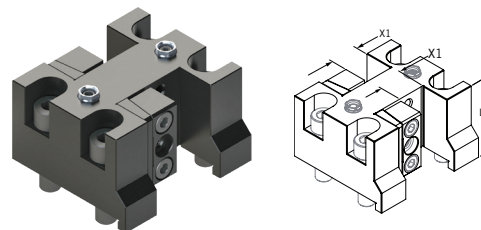


Tote

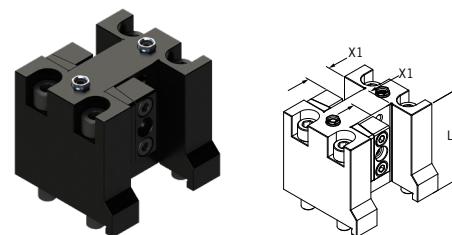
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB/BOT12 Turret**Bolt-On Tools for Haas DS-30Y Lathes****Twin Turning Tool Holders***

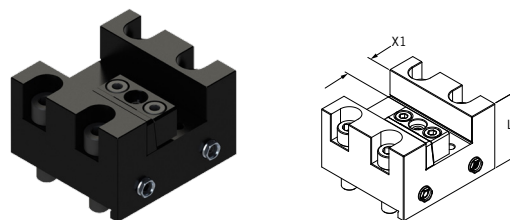
Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00T	1.00	2.15
VB/BOT12	RBOT20MOD25MMT	25MM	55MM

**Extended Twin Turn Holders***

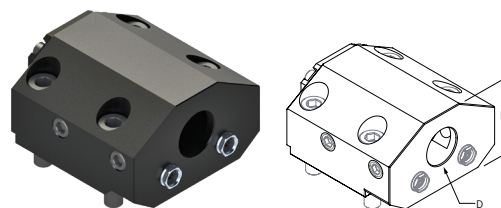
Turret	Part Number	X1	L1
VB/BOT12	RBOT20EXTOD1.00T	1.00	3.30
VB/BOT12	RBOT20EXTMOD25MMT	25MM	84MM

**Face Groove Holders***

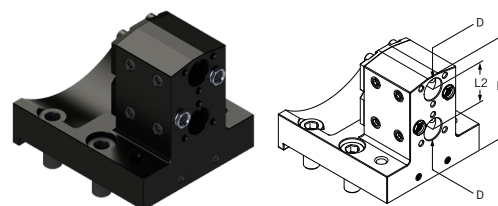
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

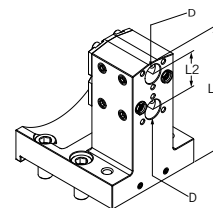
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas DS-30Y Lathes

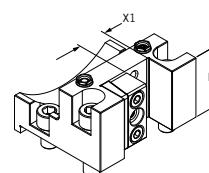
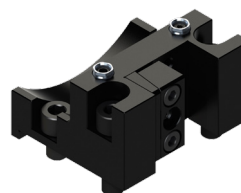
Extended Twin Boring Bar Holders**

Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20EXTID.75T	.75	5.25	1.50
VB/BOT12	RBOT20EXTMID20MMT	20MM	133.40MM	38.10MM



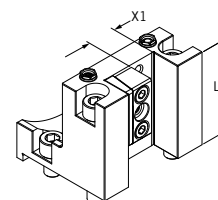
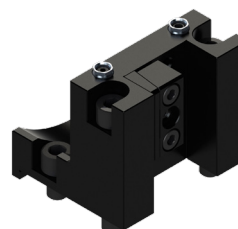
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



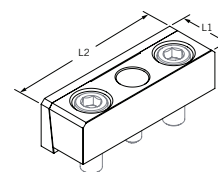
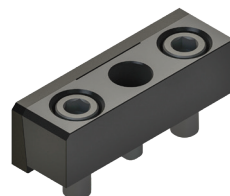
Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20EXTOD1.00	1.00	3.30
VB/BOT12	RBOT20EXTMOD25MM	25MM	84MM



Turret Wedge Clamps

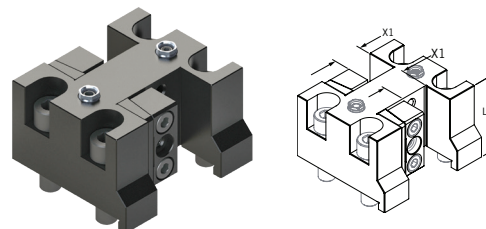
Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



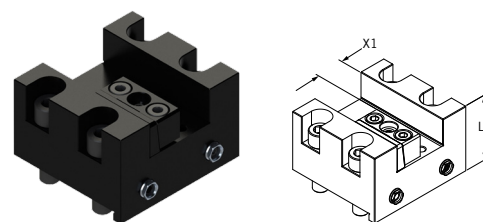
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB/BOT12 TurretBMT65 Turret Tools - Pages [6-11](#)**Bolt-On Tools for Haas ST-20 Lathes****Twin Turning Tool Holders***

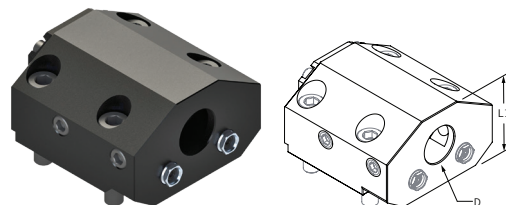
Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00T	1.00	2.15
VB/BOT12	RBOT20MOD25MMT	25MM	55MM

**Face Groove Holders***

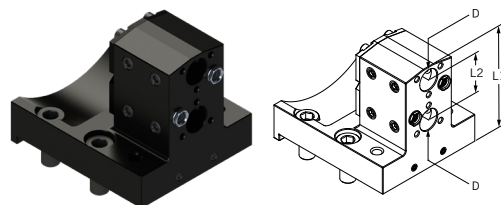
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

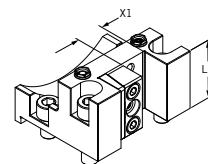
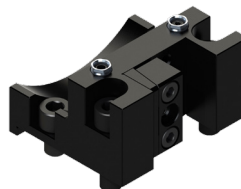
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-20 Lathes

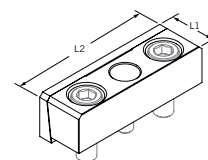
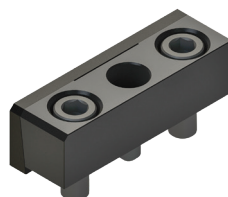
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Turret Wedge Clamps

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



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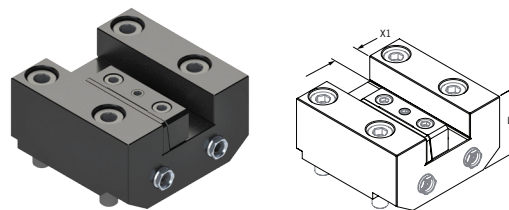
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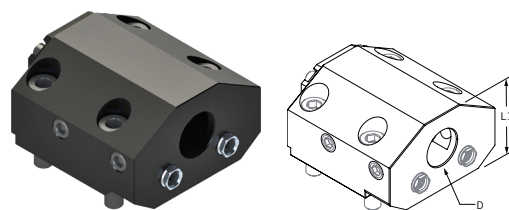
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas ST-20SS Lathes****Face Groove Holders***

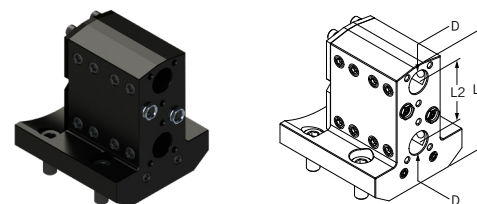
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

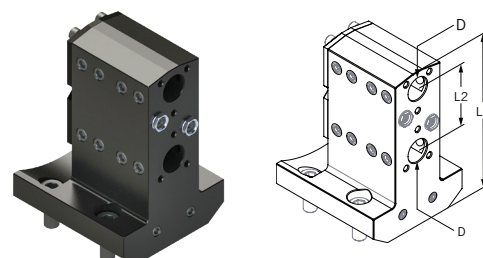
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

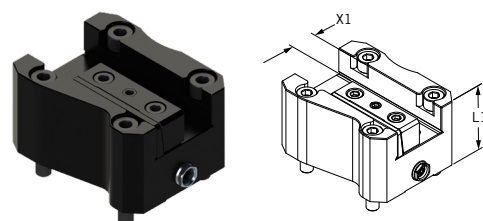
Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Extended Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB24	RBOT24EXTID.75T	.75	5.13	2.15
VB24	RBOT24EXTMID20MMT	20MM	130.30MM	54.60MM

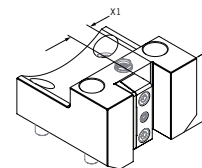
**Facing Tool Holders***

Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM

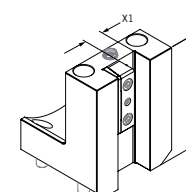
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-20SS Lathes**Parting Tool Holders***

Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM

**Extended Parting Tool Holders***

Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75	.75	4.34
VB24	RBOT24EXTMOD20MM	20MM	110MM

**Speed & Feed Calculators**

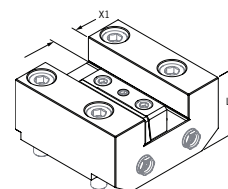
Surface Feet per Minute, Inches per Minute, Revolutions per Minute, Chipload per Tooth, Feed per Revolution, Metal Removal Rate and Radial Chip Thinning.

All calculators can be found online at redlinetools.com

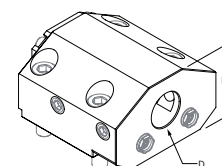
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas ST-20SSY Lathes****Face Groove Holders***

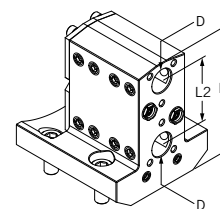
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

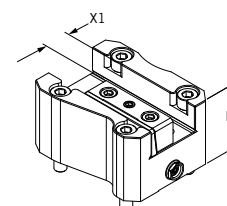
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

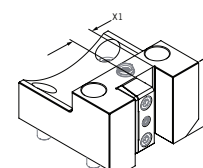
Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Facing Tool Holders***

Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM

**Parting Tool Holders***

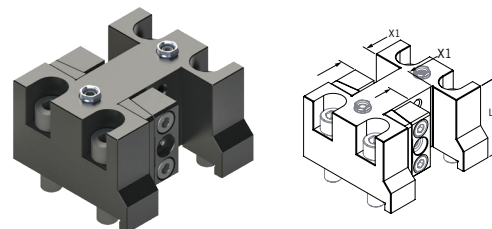
Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-20Y Lathes

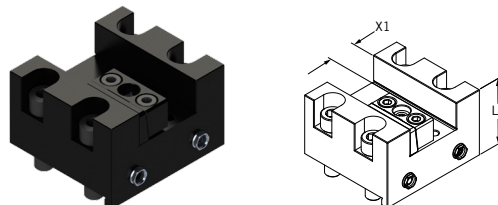
Twin Turning Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MMT	25MM	55MM



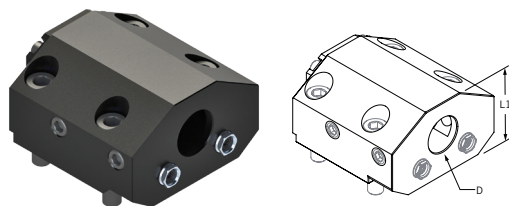
Face Groove Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM



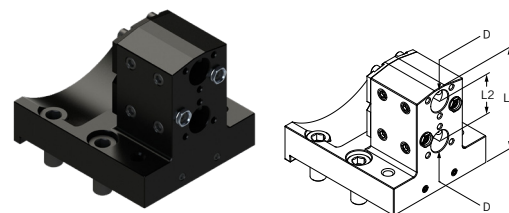
Boring Bar Holders**

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM



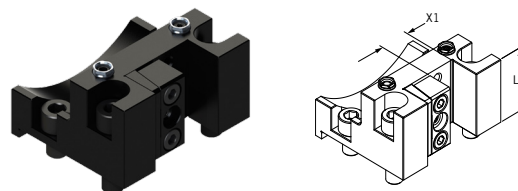
Twin Boring Bar Holders**

Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM



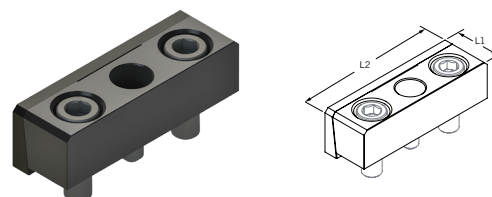
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Turret Wedge Clamps

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



Coolant Option: Internal Coolant* Coolant Option: Internal Coolant/External Coolant**

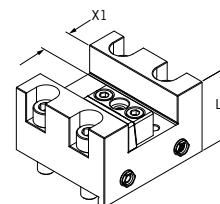
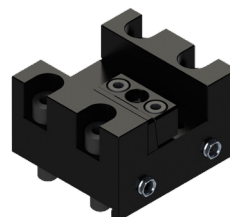
VB/BOT12 Turret

BMT65 Turret Tools - Pages 6-11

Bolt-On Tools for Haas ST-25 Lathes

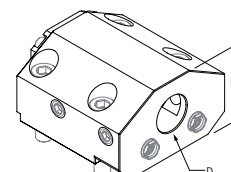
Face Groove Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM



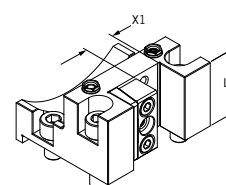
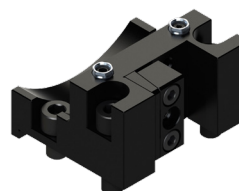
Boring Bar Holders**

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM



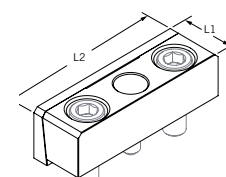
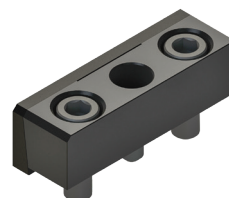
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Tool Wedge Clamps

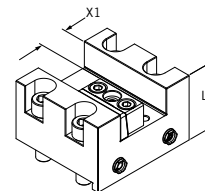
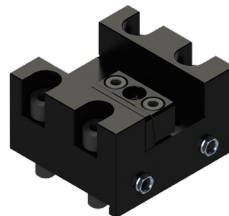
Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



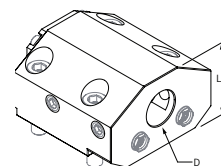
Coolant Option: Internal Coolant* Coolant Option: Internal Coolant/External Coolant**

Bolt-On Tools for Haas ST-25Y Lathes**Face Groove Holders***

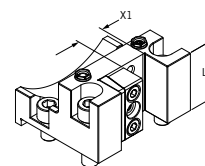
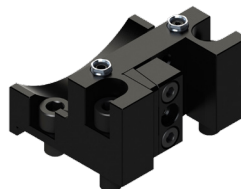
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

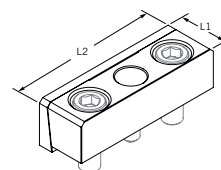
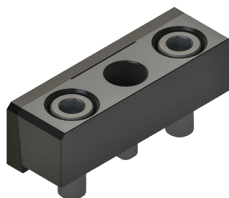
Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Parting Tool Holders***

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM

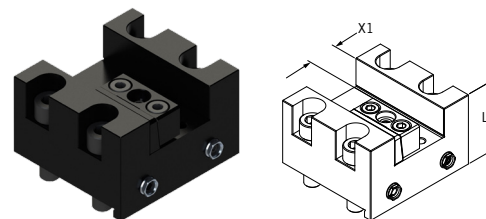
**Tool Wedge Clamps**

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM

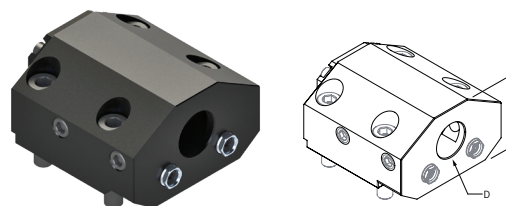


VB/BOT12 TurretBMT65 Turret Tools - Pages [6-11](#)**Bolt-On Tools for Haas ST-30 Lathes****Face Groove Holders***

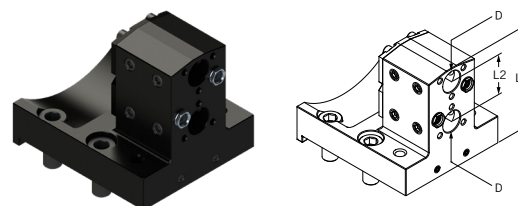
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

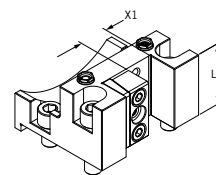
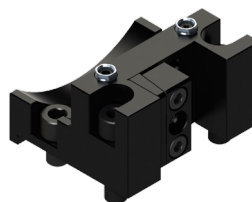
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-30 Lathes

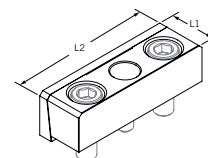
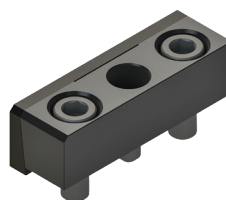
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Turret Wedge Clamps

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



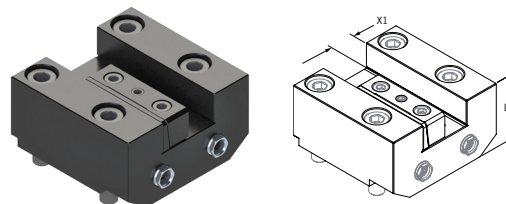
Specialty Tools

We carry a complete offering of specialty tools; including key cutters, dovetail cutters, chamfer mills, edge breakers, double angle cutters and engraving tools.

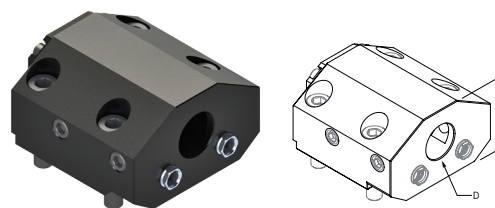
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas ST-30SS Lathes****Face Groove Holders***

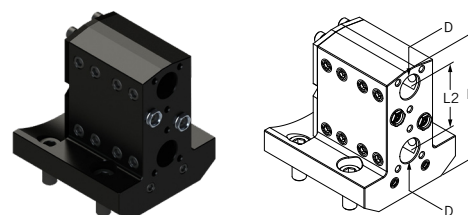
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

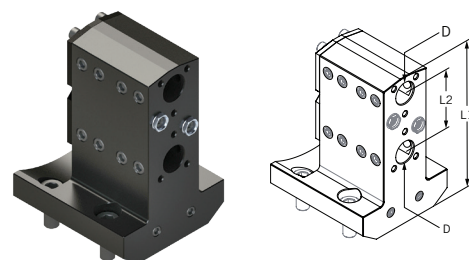
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

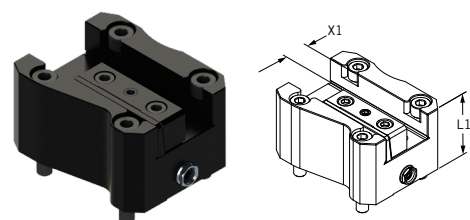
Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Extended Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB24	RBOT24EXTID.75T	.75	5.13	2.15
VB24	RBOT24EXTMID20MMT	20MM	130.30MM	54.60MM

**Facing Tool Holders***

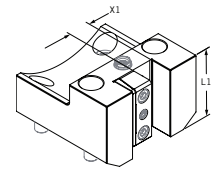
Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-30SS Lathes

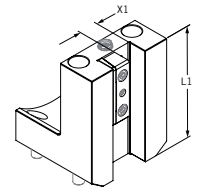
Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM



Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75	.75	4.34
VB24	RBOT24EXTMOD20MM	20MM	110MM



New Product!

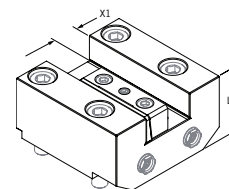
We have just added a new selection of Variable Index & Helix Endmills at General Purpose Prices!

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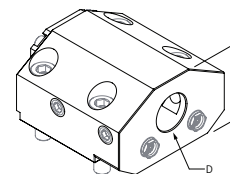
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB24 Turret**Bolt-On Tools for Haas ST-30SSY Lathes****Face Groove Holders***

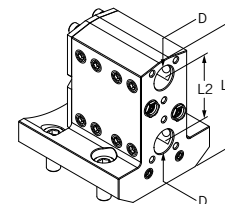
Turret	Part Number	X1	L1
VB24	RBOT24FG.75	.75	1.70
VB24	RBOT24MFG20MM	20MM	43MM

**Boring Bar Holders****

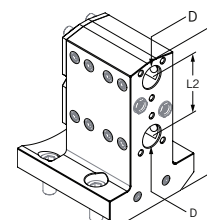
Turret	Part Number	D	L1
VB24	RBOT24ID1.00	1.00	1.97
VB24	RBOT24ID1.25	1.25	1.97
VB24	RBOT24MID25MM	25MM	50MM
VB24	RBOT24MID32MM	32MM	50MM

**Twin Boring Bar Holders****

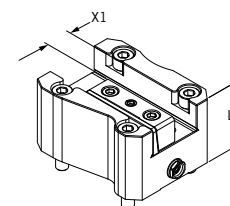
Turret	Part Number	D	L1	L2
VB24	RBOT24ID.75T	.75	4.00	2.15
VB24	RBOT24MID20MMT	20MM	101.60MM	54.60MM

**Extended Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB24	RBOT24EXTID.75T	.75	5.13	2.15
VB24	RBOT24EXTMID20MMT	20MM	130.30MM	54.60MM

**Facing Tool Holders***

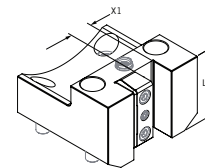
Turret	Part Number	X1	L1
VB24	RBOT24ODF.75	.75	1.88
VB24	RBOT24MODF20MM	20MM	48MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas **ST-30SSY** Lathes

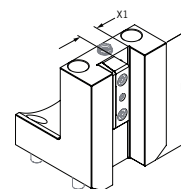
Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24OD.75	.75	2.09
VB24	RBOT24MOD20MM	20MM	53MM



Extended Parting Tool Holders*

Turret	Part Number	X1	L1
VB24	RBOT24EXTOD.75	.75	4.34
VB24	RBOT24EXTMOD20MM	20MM	110MM



Live Tool Repair

Fast. Economical.



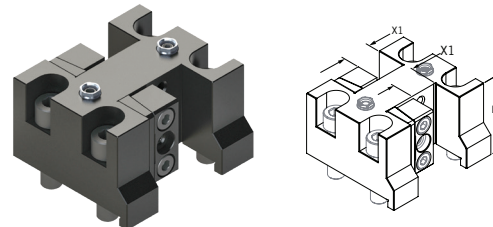
Live Tool repair for RedLine brand and other manufacturers. Service is performed by courteous, knowledgeable, trained technicians. Our rebuilds include a 90-day warranty.



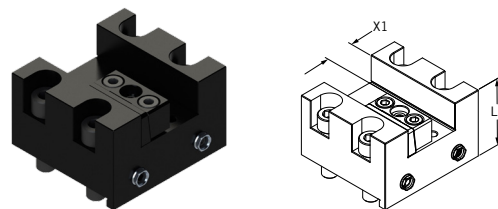
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB/BOT12 TurretBMT65 Turret Tools - Pages [6-11](#)**Bolt-On Tools for Haas ST-30Y Lathes****Twin Turning Tool Holders***

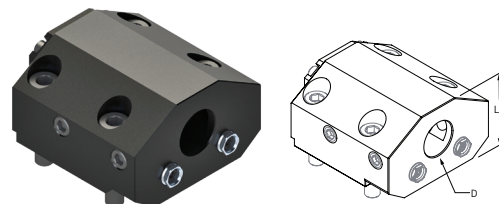
Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00T	1.00	2.15
VB/BOT12	RBOT20MOD25MMT	25MM	55MM

**Face Groove Holders***

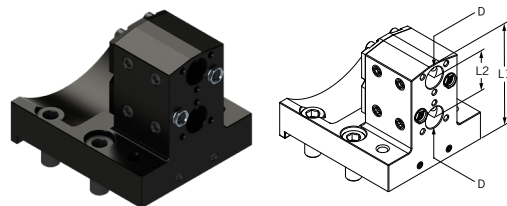
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

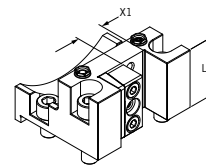
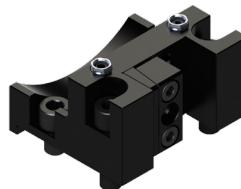
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-30Y Lathes

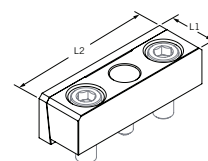
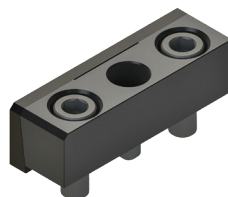
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Turret Wedge Clamps

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



VDI40 & BMT65 Axial & Radial Live Tools

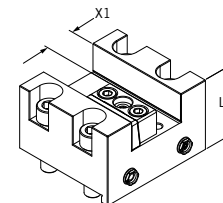
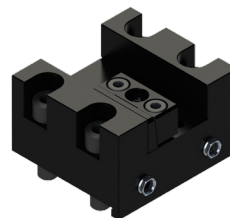
- Use standard ER32 collets
- 1:1 drive ratio
- 6,000 max RPM
- Run-out $\leq .0002$



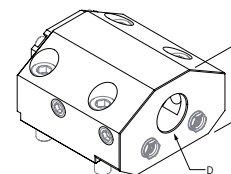
See pages 6-7 & 12-13 for complete details.

VB/BOT12 TurretBMT65 Turret Tools - Pages [6-11](#)**Bolt-On Tools for Haas ST-35 Lathes****Face Groove Holders***

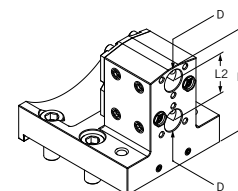
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

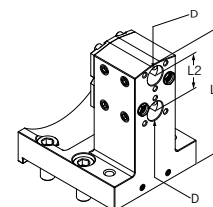
Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

**Extended Twin Boring Bar Holders****

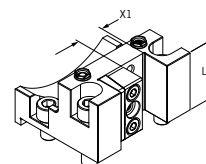
Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20EXTID.75T	.75	5.25	1.50
VB/BOT12	RBOT20EXTMID20MMT	20MM	133.40MM	38.10MM

Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-35 Lathes

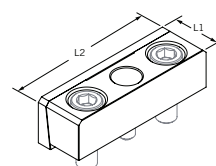
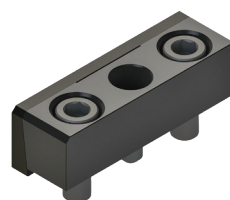
Parting Tool Holders*

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM



Turret Wedge Clamps

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM



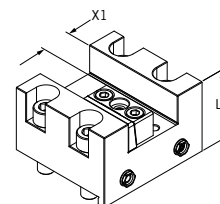
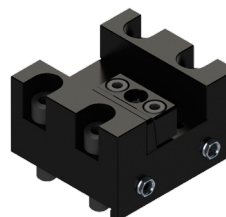
See our complete offering of screw and slotted reduction sleeves on pages 45-47.



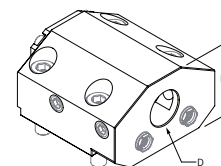
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

VB/BOT12 TurretBMT65 Turret Tools - Pages [6-11](#)**Bolt-On Tools for Haas ST-35Y Lathes****Face Groove Holders***

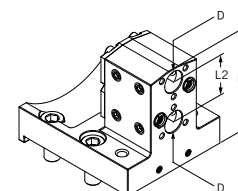
Turret	Part Number	X1	L1
VB/BOT12	RBOT20FG1.00	1.00	2.20
VB/BOT12	RBOT20MFG25MM	25MM	56MM

**Boring Bar Holders****

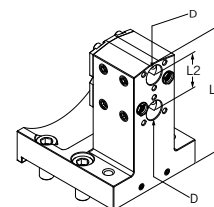
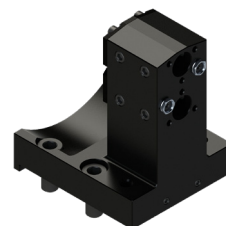
Turret	Part Number	D	L1
VB/BOT12	RBOT20ID1.00	1.00	2.55
VB/BOT12	RBOT20ID1.25	1.25	2.55
VB/BOT12	RBOT20ID1.50	1.50	2.55
VB/BOT12	RBOT20ID2.00	2.00	2.55
VB/BOT12	RBOT20MID25MM	25MM	65MM
VB/BOT12	RBOT20MID32MM	32MM	65MM
VB/BOT12	RBOT20MID40MM	40MM	65MM
VB/BOT12	RBOT20MID50MM	50MM	65MM

**Twin Boring Bar Holders****

Turret	Part Number	D	L1	L2
VB/BOT12	RBOT20ID.75T	.75	3.80	1.50
VB/BOT12	RBOT20MID20MMT	20MM	96.50MM	38.10MM

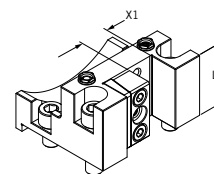
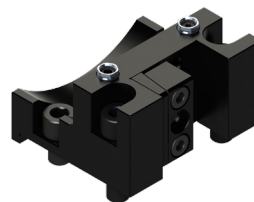
**Extended Twin Boring Bar Holders****

Turret	Part Number	DW	L1	L2
VB/BOT12	RBOT20EXTID.75T	.75	5.25	1.50
VB/BOT12	RBOT20EXTMID20MMT	20MM	133.40MM	38.10MM

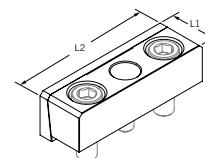
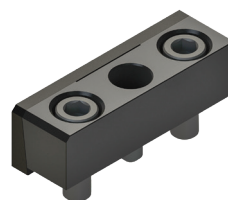
Coolant Option: **Internal Coolant*** Coolant Option: **Internal Coolant/External Coolant****

Bolt-On Tools for Haas ST-35Y Lathes**Parting Tool Holders***

Turret	Part Number	X1	L1
VB/BOT12	RBOT20OD1.00	1.00	2.15
VB/BOT12	RBOT20MOD25MM	25MM	55MM

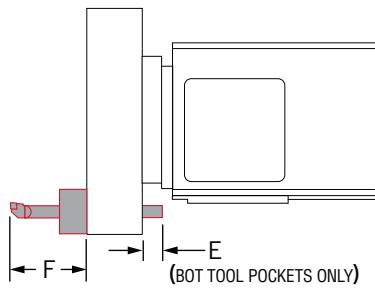
**Turret Wedge Clamps**

Turret	Part Number	L1 (Min)	L2
VB/BOT12	RBOT20IWEDGE	1.00	3.15
VB/BOT12	RBOT20MWEDGE	25MM	80MM

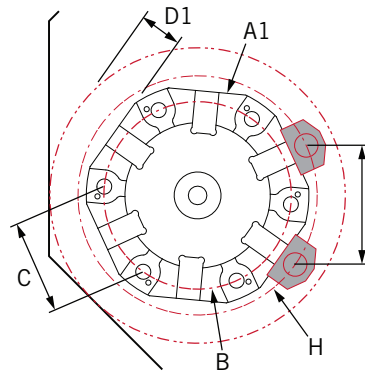
**REGO-FIX Collets**

Find REGO-FIX high quality, swiss precision ER collets; standard, tapping & coolant thru on pages 50-66.

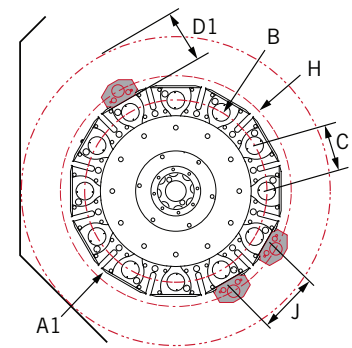




Max Tool Stick Out

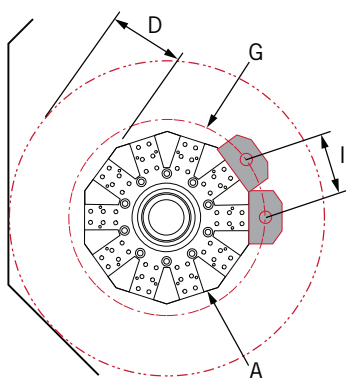


VB Hybrid 12 Station

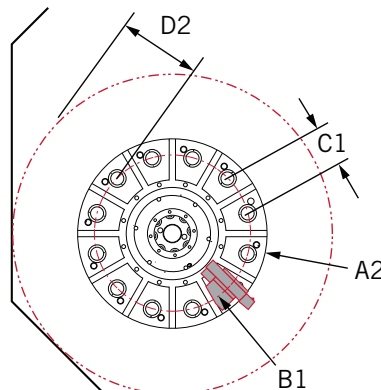


VB24 Hybrid 24 Station
(All SS Models)

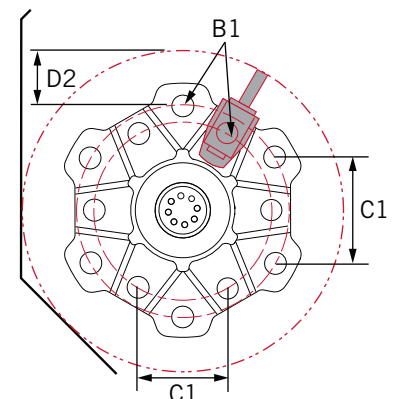
Description	ST-20(Y)	ST-30(Y)	ST-20SS(Y)	DS-30(Y)	ST-30SS(Y) DS-30SS(Y)	SL-40 ST-40
A BOT TURRET OD DIAMETER (FLATS)	16.16" (410mm)	16.16" (410mm)	—	—	—	22.27" (566mm)
A1 VB12/24 TURRET OD DIAMETER (FLATS)	18.95" (481mm)	18.95" (481mm)	21.45" (545mm)	18.95" (481mm)	21.20" (538mm)	22.27" (566mm)
A2 VDI TURRET OD TURRET DIAMETER	19.00" (483mm)	19.00" (483mm)	—	—	—	23.75" (603mm)
B VB12/24 TURRET VDI40 POCKET CIRCLE	15.63" (397mm)	15.63" (397mm)	18.25" (464mm)	15.63" (397mm)	18.25" (464mm)	20.00" (508mm)
B1 *VDI TURRET VDI40 POCKET CIRCLE	15.63" (397mm)	15.63" (397mm)	—	15.63" (397mm)	—	20.00" (508mm)
C VB12/24 TURRET VDI40 POCKET SPACING	7.81" (198mm)	7.81" (198mm)	4.69" (119mm)	7.81" (198mm)	4.69" (119mm)	10.00" (254mm)
C1 *VDI TURRET VDI40 POCKET SPACING	4.04" (103mm)	4.04" (103mm)	—	—	—	5.17" (131mm)
D BOT TURRET FROM FLATS TC CLEARANCE	6.90" (175mm)	8.00" (203mm)	—	—	—	9.00" (229mm)
D1 VB12/24 TURRET FROM FLATS TC CLEARANCE	5.50" (140mm)	6.85" (174mm)	4.50" (114mm)	6.85" (174mm)	5.85" (149mm)	9.00" (229mm)
D1 VB12/24 TURRET FROM VDI40 CENTER TC CLEARANCE	7.00" (178mm)	8.35" (212mm)	6.00" (152mm)	8.35" (212mm)	7.35" (187mm)	10.00" (254mm)
D2 VDI TURRET FROM VDI40 CENTER TC CLEARANCE	7.00" (178mm)	8.35" (212mm)	—	—	—	10.00" (254mm)
E BOT TURRET BOLT-ON TOOL MAX REAR STICKOUT	4.00" (102mm)	4.00" (102mm)	—	—	—	4.37" (111mm)
E VB12/24 TURRET BOLT-ON TOOL MAX REAR STICKOUT	4.00" (102mm)	4.00" (102mm)	4.00" (102mm)	4.00" (102mm)	4.00" (102mm)	4.37" (111mm)
E VDI40 POCKET MAX TOOL REAR STICK-OUT	0.40" (10.2mm)	0.40" (10.2mm)	0.40" (10.2mm)	0.40" (10.2mm)	0.40" (10.2mm)	.40" (10.2 mm)
F **REC. MAX TOOL STICKOUT FROM FACE OF TURRET AT FULL Z TRAVEL	5.00" (127mm)	5.00" (127mm)	5.00" (127mm)	5.00" (127mm)	6.00" (152mm)	***
G BOT TURRET ID TOOL POCKET DIAMETER	18.66" (474mm)	—	—	—	—	25.42" (646mm)
H VB12/24 TURRET ID TOOL POCKET DIAMETER	21.45" (545mm)	21.45" (545mm)	23.20" (589mm)	21.45" (545mm)	23.20" (589mm)	25.42" (646mm)
I BOT TURRET ID TOOL POCKET SPACING	4.80" (122mm)	—	—	—	—	6.60" (168mm)
J VB12/24 TURRET ID TOOL POCKET SPACING	10.72" (272mm)	10.72" (272mm)	6.00" (152mm)	10.72" (272mm)	6.00" (152mm)	12.76" (324mm)
*ST-10 VDI POCKETS ARE STAGGERED **EXCEEDING THIS STICKOUT MAY RESULT IN COLLISION WITH THE FRONT BULKHEAD ***A 25" (635 mm) DEEP POCKET IN THE ST-40 AND ST-40L PROVIDES CLEARANCE FOR BORING BARS AND LONG TOOLS.						



BOT Turret



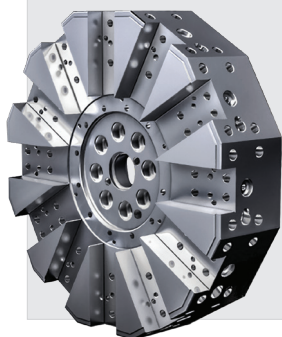
VDI Turret



ST-10 VDI Turret

BOT (Bolt-On Tool)

12 Station bolt-on tool turret for turning tools and boring bars. The BOT turret accepts tools around the perimeter, with radial slots for mounting turning tools in the left or right hand direction.



Machine Models

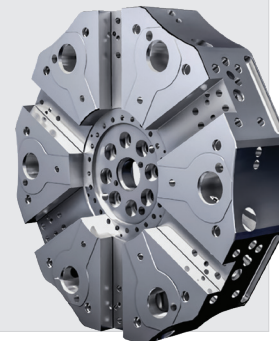
ST-20
ST-25
ST-30
ST-35

12 STATION HYBRID

12 Station hybrid turret for VDI40 tools, live tools and standard bolt-on tools. The VB Hybrid has 6 VDI stations and 6 bolt-on stations; radial slots for turning tools and perimeter stations for id tools.

Machine Models

DS-30 ST-30
DS-30Y ST-30Y
ST-20 ST-35
ST-20Y ST-35Y
ST-25
ST-25Y



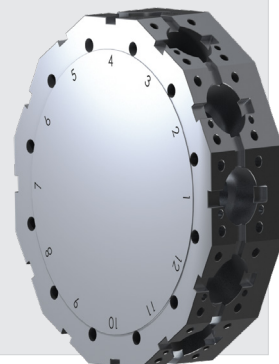
TURRET OPTIONS FOR HAAS LATHES

BMT65

The 12 Station base mount tooling turret accepts base mount tools and live tools. See pages 6-11 for tools.

Machine Models

ST-20 ST-35
ST-20Y ST-35Y
ST-25 DS-30Y
ST-25Y
ST-30
ST-30Y



12 STATION VDI

12 Station hybrid turret accepts standard VDI40 tools, including axial and radial live tools when combined with the live tooling option.

Machine Models

ST-20
ST-25
ST-30
ST-35

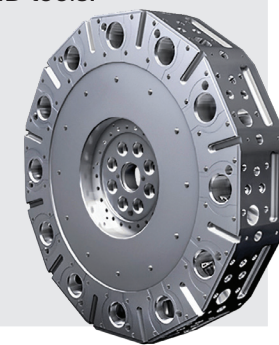


24 STATION HYBRID

Standard turret on all Super Speed (SS) models. The 24 station hybrid turret accepts VDI40 tools, live tools and standard bolt-on tools. The VB24 has 12 VDI stations and 12 bolt-on stations; radial slots for turning tools and perimeter stations for ID tools.

Machine Models

DS-30SS
DS-30SSY
ST-20SS
ST-20SSY
ST-30SS
ST-30SSY



Hardware

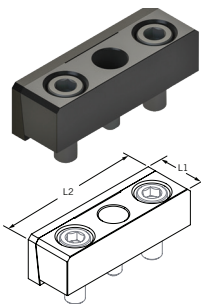
Bolt-On Tool Accessories

Accessory	Photo	Part #
Coolant Pipe		RBTCP
Coolant Nozzle		RBTCN

BMT65 Alignment Keys

Accessory	Photo	Part #
BMT65 Alignment Keys (Sold in packs of 4)		RBMT65AK

Bolt-On Wedge Clamp

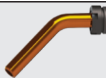
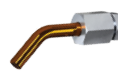
Turret	Width	Length	Photo	Part #
BOT24	.75	2.36		RBOTWEDGE.75
BOT24	20MM	60MM		RBOTWEDGE20MM
BOT12	1	1.96		RBOTWEDGE1.00
BOT12	25MM	50MM		RBOTWEDGE25MM

Live Tool Hardware

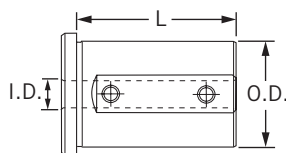
Internal Nut Design

Accessory	Photo	Part #
Spanner Wrench Axial & Radial		RLTSW
Collet Wrench Axial & Radial		RER32WINT
Axial Coolant Pipe		RICP
Radial Coolant Pipe		RICP
Collet Nut		RER32NPAI

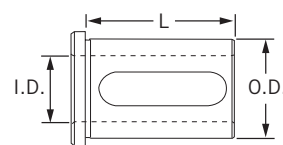
External Nut Design

Accessory	Photo	Part #
Spanner Wrench Axial & Radial		RLTSW
Collet Wrench Axial & Radial		RER32W
Axial Coolant Pipe		RACP
Radial Coolant Pipe		RRCP
Collet Nut		RER32NPA

Reduction Sleeves



Screw



Slotted

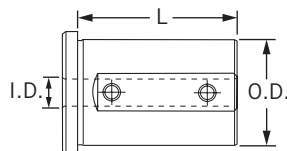
3/4" OD Reduction Sleeves

OD (Inch)	ID (Inch)	L (Inch)	Type	Part Number
3/4	1/4	1-1/2	Screw	RS07500250S
3/4	1/4	2	Screw	RS07500250L
3/4	5/16	1-1/2	Screw	RS07500312S
3/4	5/16	2	Screw	RS07500312L
3/4	3/8	1-1/2	Screw	RS07500375S
3/4	3/8	2	Screw	RS07500375L
3/4	1/2	1-1/2	Screw	RS07500500S
3/4	1/2	2	Screw	RS07500500L

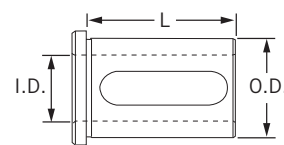
1" OD Reduction Sleeves

OD (Inch)	ID (Inch)	L (Inch)	Type	Part Number
1	1/4	1-3/4	Screw	RS10000250S
1	1/4	2-3/4	Screw	RS10000250L
1	5/16	1-3/4	Screw	RS10000312S
1	5/16	2-3/4	Screw	RS10000312L
1	3/8	1-3/4	Screw	RS10000375S
1	3/8	2-3/4	Screw	RS10000375L
1	1/2	1-3/4	Screw	RS10000500S
1	1/2	2-3/4	Screw	RS10000500L
1	5/8	1-3/4	Slotted	RS10000625S
1	5/8	2-3/4	Slotted	RS10000625L
1	3/4	1-3/4	Slotted	RS10000750S
1	3/4	2-3/4	Slotted	RS10000750L

Reduction Sleeves



Screw



Slotted

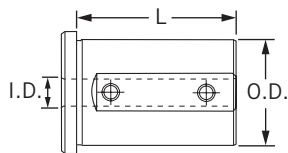
1-1/4" OD Reduction Sleeves

OD (Inch)	ID (Inch)	L (Inch)	Type	Part Number
1-1/4	5/16	2-1/8	Screw	RS12500312S
1-1/4	5/16	3-1/4	Screw	RS12500312L
1-1/4	3/8	2-1/8	Screw	RS12500375S
1-1/4	3/8	3-1/4	Screw	RS12500375L
1-1/4	1/2	2-1/8	Screw	RS12500500S
1-1/4	1/2	3-1/4	Screw	RS12500500L
1-1/4	5/8	2-1/8	Slotted	RS12500625S
1-1/4	5/8	3-1/4	Slotted	RS12500625L
1-1/4	3/4	2-1/8	Slotted	RS12500750S
1-1/4	3/4	3-1/4	Slotted	RS12500750L
1-1/4	1	2-1/8	Slotted	RS12501000S
1-1/4	1	3-1/4	Slotted	RS12501000L

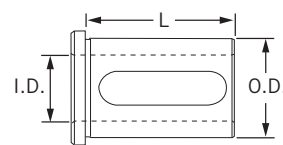
1-1/2" OD Reduction Sleeves

OD (Inch)	ID (Inch)	L (Inch)	Type	Part Number
1-1/2	5/16	2-1/2	Screw	RS15000312S
1-1/2	5/16	3-3/8	Screw	RS15000312L
1-1/2	3/8	2-1/2	Screw	RS15000375S
1-1/2	3/8	3-3/8	Screw	RS15000375L
1-1/2	1/2	2-1/2	Screw	RS15000500S
1-1/2	1/2	3-3/8	Screw	RS15000500L
1-1/2	5/8	2-1/2	Slotted	RS15000625S
1-1/2	5/8	3-3/8	Slotted	RS15000625L
1-1/2	3/4	2-1/2	Slotted	RS15000750S
1-1/2	3/4	3-3/8	Slotted	RS15000750L
1-1/2	1	2-1/2	Slotted	RS15001000S
1-1/2	1	3-3/8	Slotted	RS15001000L
1-1/2	1-1/4	2-1/2	Slotted	RS15001250S
1-1/2	1-1/4	3-3/8	Slotted	RS15001250L

Reduction Sleeves



Screw



Slotted

2" OD Reduction Sleeves

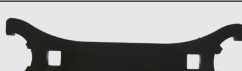
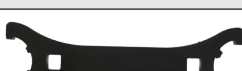
OD (Inch)	ID (Inch)	L (Inch)	Type	Part Number
2	3/8	3-1/2	Screw	RS20000375S
2	3/8	4	Screw	RS20000375L
2	1/2	3-1/2	Screw	RS20000500S
2	1/2	4	Screw	RS20000500L
2	5/8	3-1/2	Slotted	RS20000625S
2	5/8	4	Slotted	RS20000625L
2	3/4	3-1/2	Slotted	RS20000750S
2	3/4	4	Slotted	RS20000750L
2	1	3-1/2	Slotted	RS20001000S
2	1	4	Slotted	RS20001000L
2	1-1/4	3-1/2	Slotted	RS20001250S
2	1-1/4	4	Slotted	RS20001250L
2	1-1/2	3-1/2	Slotted	RS20001500S
2	1-1/2	4	Slotted	RS20001500L
2	1-3/4	3-1/2	Slotted	RS20001750S
2	1-3/4	4	Slotted	RS20001750L

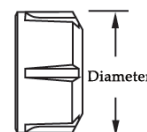


ER Straight Shank Collet Extensions

Series	A	B	D	L	Part #
ER11	.630	6.6	.50	5.8	RSSER11660
ER16	1.259	7.0	.75	5.9	RSSER16700
ER20	1.380	7.0	1.00	5.8	RSSER20700
ER25	1.640	7.5	1.00	5.5	RSSER25750
ER32	1.970	7.5	1.25	5.5	RSSER32750
ER40	2.480	6.0	1.25	3.5	RSSER40600

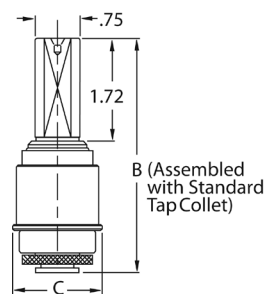
ER Collet Nut Wrenches

Series	Photo	Part #
ER11		RER11W
ER16		RER16W
ER20		RER20W
ER25		RER25W
ER32		RER32W
ER40		RER40W



ER Replacement Nosepieces

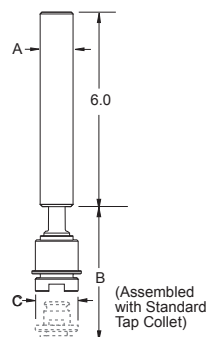
Series	Diameter	Part #
ER11	.630	RER11NPA
ER16	1.259	RER16NPA
ER20	1.380	RER20NPA
ER25	1.640	RER25NPA
ER32	1.970	RER32NPA
ER40	2.480	RER40NPA



Straight Shank Rigid Tap Holders

Shank ϕ	Collet Size	B*	C	Part #
.75	Bilz #1	3.92	1.50	RSSTHR01392
.75	Bilz #2	4.70	1.88	RSSTHR02470

* The "B" dimension is the assembled length including standard tap collet



Straight Shank Tension & Compression Tap Holders

Shank ϕ	Collet Size	B*	C	Part #
1.00	Bilz #1	2.50	1.50	RTHSST01850
1.25	Bilz #2	3.25	1.88	RTHSST02925

* The "B" dimension is the assembled length including standard tap collet

REGO-FIX® ER11 Collet Sets

Description	Part #	Photo
Fractional 7 pc Collet Set with tray; includes all sizes except 1/32"	1111.00002	
Metric 13 pc Collet Set with tray	1111.00000	

REGO-FIX® ER11 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/32	.0394-.0197	1.00-0.50	1111.01000	
1/16	.0625-.0425	1.59-1.09	1111.01592	
3/32	.0938-.0738	2.38-1.88	1111.02382	
1/8	.1250-.1050	3.18-2.68	1111.03182	
5/32	.1563-.1363	3.97-3.47	1111.03972	
3/16	.1875-.1675	4.76-4.26	1111.04762	
7/32	.2188-.1988	5.56-5.06	1111.05562	
1/4	.2500-.2300	6.35-5.85	1111.06352	

REGO-FIX® ER11 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50	.0394-.0197	1/32	1111.01000	
1.50-1.00	.0591-.0394	—	1111.01500	
2.00-1.50	.0787-.0591	1/16	1111.02000	
2.50-2.00	.0984-.0787	3/32	1111.02500	
3.00-2.50	.1181-.0984	—	1111.03000	
3.50-3.00	.1378-.1181	1/8	1111.03500	
4.00-3.50	.1575-.1378	5/32	1111.04000	
4.50-4.00	.1772-.1575	—	1111.04500	
5.00-4.50	.1969-.1772	3/16	1111.05000	
5.50-5.00	.2165-.1969	—	1111.05500	
6.00-5.50	.2362-.2165	7/32	1111.06000	
6.50-6.00	.2559-.2362	1/4	1111.06500	
7.00-6.50	.2756-.2559	—	1111.07000	

REGO-FIX® ER11 ANSI Tapping Collets

Shank ø	Square (Inch)	Pipe Tap	ER 11-GB Part No.	Photo
.141	.110	—	1411.03585	
.168	.131	—	1411.04275	
.194	.152	—	1411.04935	

ANSI Tap Dimensional Data

Tap Size	Shank	Square
No 0-6	.141	.110
1/16	.141	.110
3/32	.141	.110
1/8	.141	.110
5/32	.168	.131
No 8	.168	.131
3/16	.194	.152
No 9	.194	.152
No 10	.194	.152

TAPS

Tapping is one of the most critical operations in any shop. That's why you need high quality RedLine taps, which are proudly made in the USA. Our offering includes: spiral point taps, spiral flute taps, form taps, as well as a variety of other types.

No matter what type of tap you need, you'll find it online at redlinetools.com.



REGO-FIX® ER16 Collet Sets

Description	Part #	Photo
Fractional 12 pc Collet Set with tray; includes all sizes except 1/32"	1116.00002	
Fractional Metallic Sealed 5 pc Collet Set with tray; includes all sizes except 1/32"	1216.00002	
Metric 10 pc Collet Set with tray *Sizes that are included in sets- See page 53	1116.00000	
Metric Metallic Sealed 8 pc Collet Set with tray *See page 53	1216.00000	

REGO-FIX® ER16 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/16	.0625-.0425	1.59-1.09	1116.01592	
3/32	.0938-.0738	2.38-1.88	1116.02382	
1/8	.1250-.0850	3.18-2.18	1116.03182	
5/32	.1563-.1163	3.97-2.97	1116.03972	
3/16	.1875-.1475	4.76-3.76	1116.04762	
7/32	.2188-.1788	5.56-4.56	1116.05562	
1/4	.2500-.2100	6.35-5.35	1116.06352	
9/32	.2813-.2413	7.14-6.14	1116.07142	
5/16	.3125-.2725	7.94-6.94	1116.07942	
11/32	.3438-.3038	8.73-7.73	1116.08732	
3/8	.3750-.3350	9.53-8.53	1116.09532	
13/32	.4063-.3663	10.32-9.32	1116.10322	

REGO-FIX® ER16 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250	3.18	1216.03182	
3/16	.1875	4.76	1216.04762	
1/4	.2500-.2303	6.35-5.85	1216.06352	
5/16	.3125-.2929	7.94-7.44	1216.07942	
3/8	.3750-.3556	9.53-9.03	1216.09532	

REGO-FIX® ER16 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50*	.0394-.0197	1/32	1116.01000	
1.50-1.00	.0591-.0394	—	1116.01500	
2.00-1.00*	.0787-.0394	—	1116.02000	
2.50-1.50	.0984-.0591	—	1116.02500	
3.00-2.00*	.1181-.0787	—	1116.03000	
3.50-2.50	.1378-.0984	—	1116.03500	
4.00-3.00*	.1575-.1181	—	1116.04000	
4.50-3.50	.1772-.1378	—	1116.04500	
5.00-4.00*	.1969-.1575	—	1116.05000	
5.50-4.50	.2165-.1772	—	1116.05500	
6.00-5.00*	.2362-.1969	—	1116.06000	
6.50-5.50	.2559-.2165	—	1116.06500	
7.00-6.00*	.2756-.2362	—	1116.07000	
7.50-6.50	.2953-.2559	—	1116.07500	
8.00-7.00*	.3150-.2756	—	1116.08000	
8.50-7.50	.3347-.2953	—	1116.08500	
9.00-8.00*	.3543-.3150	—	1116.09000	
9.50-8.50	.3740-.3347	—	1116.09500	
10.00-9.00*	.3937-.3543	—	1116.10000	

REGO-FIX® ER16 Metric Metallic Sealed Collets

(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00	.1181	—	1216.03000	
4.00	.1575	—	1216.04000	
5.00-4.50	.1969-.1772	3/16	1216.05000	
6.00-5.50	.2362-.2165	7/32	1216.06000	
7.00-6.50	.2756-.2559	—	1216.07000	
8.00-7.50	.3150-.2953	5/16	1216.08000	
9.00-8.50	.3543-.3347	11/32	1216.09000	
10.00-9.50	.3937-.3740	3/8	1216.10000	

* Represents items included in the Collet Set on page 52.

REGO-FIX® ER16 ANSI Tapping Collets

Shank ø	Square (inch)	Pipe Tap	ER 16-GB Part No.	Photo
.141	.110	—	1416.03585	
.168	.131	—	1416.04275	
.194	.152	—	1416.04935	
.220	.165	—	1416.05595	
.255	.191	—	1416.06485	
.318	.238	—	1416.08085	

ANSI Tap Dimensional Data

Tap Size	Shank	Square
No 0-6	.141	.110
1/16	.141	.110
3/32	.141	.110
1/8	.141	.110
5/32	.168	.131
No 8	.168	.131
3/16	.194	.152
No 9	.194	.152
No 10	.194	.152
1/4	.255	.191
5/16	.318	.238

REGO-FIX® ER20 Collet Sets

Description	Part #	Photo
Fractional 7 pc Collet Set with tray; includes all sizes	1120.00002	
Fractional Metallic Sealed 7 pc Collet Set with tray; includes all sizes	1220.00002	
Metric 12 pc Collet Set with tray *Sizes that are included in sets - see page 56	1120.00000	
Metric Metallic Sealed 11 pc Collet Set with tray *Sizes that are included in sets - see page 56	1220.00000	

REGO-FIX® ER20 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250-.0850	3.18-2.18	1120.03182	
3/16	.1875-.1475	4.76-3.76	1120.04762	
1/4	.2500-.2100	6.35-5.35	1120.06352	
5/16	.3125-.2725	7.94-6.94	1120.07942	
3/8	.3750-.3350	9.53-8.53	1120.09532	
7/16	.4375-.3975	11.11-10.11	1120.11112	
1/2	.5000-.4600	12.70-11.70	1120.12702	

REGO-FIX® ER20 Fractional Metallic Sealed Collets

(Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250	3.18	1220.03182	
3/16	.1875	4.76	1220.04762	
1/4	.2500	6.35	1220.06352	
5/16	.3125-.2929	7.94-7.44	1220.07942	
3/8	.3750-.3556	9.53-9.03	1220.09532	
7/16	.4375-.4177	11.11-10.61	1220.11112	
1/2	.5000-.4803	12.70-12.20	1220.12702	

REGO-FIX® ER20 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50	.0394-.0197	1/32	1120.01000	
1.50-1.00	.0591-.0394	—	1120.01500	
2.00-1.00*	.0787-.0394	1/16	1120.02000	
2.50-1.50	.0984-.0591	3/32	1120.02500	
3.00-2.00*	.1181-.0787	—	1120.03000	
3.50-2.50	.1378-.0984	—	1120.03500	
4.00-3.00*	.1575-.1181	5/32	1120.04000	
4.50-3.50	.1772-.1378	—	1120.04500	
5.00-4.00*	.1969-.1575	—	1120.05000	
5.50-4.50	.2165-.1772	—	1120.05500	
6.00-5.00*	.2362-.1969	7/32	1120.06000	
6.50-5.50	.2559-.2165	—	1120.06500	
7.00-6.00*	.2756-.2362	—	1120.07000	
7.50-6.50	.2953-.2559	9/32	1120.07500	
8.00-7.00*	.3150-.2756	—	1120.08000	
8.50-7.50	.3347-.2953	—	1120.08500	
9.00-8.00*	.3543-.3150	11/32	1120.09000	
9.50-8.50	.3740-.3347	—	1120.09500	
10.00-9.00*	.3937-.3543	—	1120.10000	
10.50-9.50	.4134-.3740	13/32	1120.10500	
11.00-10.00*	.4330-.3937	—	1120.11000	
11.50-10.50	.4528-.4134	—	1120.11500	
12.00-11.00*	.4724-.4330	15/32	1120.12000	
12.50-11.50	.4921-.4528	—	1120.12500	
13.00-12.00*	.5118-.4724	—	1120.13000	

REGO-FIX® ER20 Metric Metallic Sealed Collets

(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00	.1181	—	1220.03000	
4.00	.1575	—	1220.04000	
5.00	.1969	—	1220.05000	
6.00	.2362	—	1220.06000	
7.00-6.50	.2756-.2559	—	1220.07000	
8.00-7.50	.3150-.2653	9/32 & 5/16	1220.08000	
9.00-8.50	.3543-.3347	11/32	1220.09000	
10.00-9.50	.3937-.3740	3/8	1220.10000	
11.00-10.50	.4330-.4134	—	1220.11000	
12.00-11.50	.4724-.4528	15/32	1220.12000	
13.00-12.50	.5118-.4921	1/2	1220.13000	

* Represents items included in the Collet Set on page 55.

REGO-FIX® ER20 ANSI Tapping Collets

Shank ø	Square (Inch)	Pipe Tap	ER 16-GB Part No.	Photo
.168	.131	—	1420.04275	
.194	.152	—	1420.04935	
.220	.165	—	<u>1420.05595</u>	
.255	.191	—	1420.06485	
.318	.238	—	1420.08085	
.323	.242	—	1420.08215	
.367	.275	—	1420.09325	
.381	.286	—	1420.09685	

ANSI Tap Dimensional Data

Tap Size	Shank	Square
5/32	.168	.131
No 8	.168	.131
3/16	.194	.152
No 9	.194	.152
No 10	.194	.152
1/4	.255	.191
5/16	.318	.238
3/8	.381	.286

**We Value Your Feedback**

If you have any suggestions on how to make RedLine Tools even better, please email us at support@redlinetools.com.

REGO-FIX® ER25 Collet Sets

Description	Part #	Photo
Fractional 9 pc Collet Set with tray; includes all sizes	1125.00002	
Fractional Metallic Sealed 7 pc Collet Set with tray; includes all sizes	1225.00002	
Metric 15 pc Collet Set with tray *Sizes that are included in sets - see page 59.	1125.00000	
Metric Metallic Sealed 6 pc Collet Set with tray *Sizes that are included in sets - see page 59.	1225.00000	

REGO-FIX® ER25 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250-.0850	3.18-2.18	1125.03182	
3/16	.1875-.1475	4.76-3.76	1125.04762	
1/4	.2500-.2100	6.35-5.35	1125.06352	
5/16	.3125-.2725	7.94-6.94	1125.07942	
3/8	.3750-.3350	9.53-8.53	1125.09532	
7/16	.4375-.3975	11.11-10.11	1125.11112	
1/2	.5000-.4600	12.70-11.70	1125.12702	
9/16	.5625-.5225	14.29-13.29	1125.14292	
5/8	.6250-.5820	15.88-14.88	1125.15882	

REGO-FIX® ER25 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/4	.2500	6.35	1225.06352	
5/16	.3125-.2929	7.94-7.44	1225.07942	
3/8	.3750-.3556	9.53-9.03	1225.09532	
7/16	.4375-.4177	11.11-10.61	1225.11112	
1/2	.5000-.4803	12.70-12.20	1225.12702	
9/16	.5625-.5425	14.29-13.79	1225.14292	
5/8	.6250-.6055	15.88-15.38	1225.15882	

REGO-FIX® ER25 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50	.0394-.0197	1/32	1125.01000	
1.50-1.00	.0591-.0394	—	1125.01500	
2.00-1.00*	.0787-.0394	1/16	1125.02000	
2.50-1.50	.0984-.0591	3/32	1125.02500	
3.00-2.00*	.1181-.0787	—	1125.03000	
3.50-2.50	.1378-.0984	—	1125.03500	
4.00-3.00*	.1575-.1181	5/32	1125.04000	
4.50-3.50	.1772-.1378	—	1125.04500	
5.00-4.00*	.1969-.1575	—	1125.05000	
5.50-4.50	.2165-.1772	—	1125.05500	
6.00-5.00*	.2362-.1969	7/32	1125.06000	
6.50-5.50	.2559-.2165	—	1125.06500	
7.00-6.00*	.2756-.2362	—	1125.07000	
7.50-6.50	.2953-.2559	9/32	1125.07500	
8.00-7.00*	.3150-.2756	—	1125.08000	
8.50-7.50	.3347-.2953	—	1125.08500	
9.00-8.00*	.3543-.3150	11/32	1125.09000	
9.50-8.50	.3740-.3347	—	1125.09500	
10.00-9.00*	.3937-.3543	—	1125.10000	
10.50-9.50	.4134-.3740	13/32	1125.10500	
11.00-10.00*	.4330-.3937	—	1125.11000	
11.50-10.50	.4528-.4134	—	1125.11500	
12.00-11.00*	.4724-.4330	15/32	1125.12000	
12.50-11.50	.4921-.4528	—	1125.12500	
13.00-12.00*	.5118-.4724	—	1125.13000	
13.50-12.50	.5315-.4921	17/32	1125.13500	
14.00-13.00*	.5512-.5118	—	1125.14000	
14.50-13.50	.5709-.5315	—	1125.14500	
15.00-14.00*	.5905-.5512	—	1125.15000	
15.50-14.50	.6102-.5709	19/32	1125.15500	
16.00-15.00*	.6300-.5905	—	1125.16000	

REGO-FIX® ER25 Metric Metallic Sealed Collets

(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	1225.06000	
8.00-7.50	.3150-.2953	5/16	1225.08000	
10.00-9.50	.3937-.3740	3/8	1225.10000	
12.00-11.50	.4724-.4528	15/32	1225.12000	
14.00-13.50	.5512-.5315	—	1225.14000	
16.00-15.50	.6300-.6102	5/8	1225.16000	

* Represents items included in the Collet Set on page 58.

REGO-FIX® ER25 ANSI Tapping Collets

Shank ø	Square (Inch)	Pipe Tap	ER 16-GB Part No.	Photo
.168	.131	—	1425.04275	
.194	.152	—	1425.04935	
.220	.165	—	1425.05595	
.255	.191	—	1425.06485	
.318	.238	—	1425.08085	
.323	.242	—	1425.08215	
.367	.275	—	1425.09325	
.381	.286	—	1425.09685	
.429	.322	—	1425.10905	
.437	.328	•	1425.11104	
.480	.360	—	1425.12195	
.590	.442	—	1425.14995	

ANSI Tap Dimensional Data

Tap Size	Shank	Square
5/32	.168	.131
No 8	.168	.131
3/16	.194	.152
No 9	.194	.152
No 10	.194	.152
1/4	.255	.191
5/16	.318	.238
3/8	.381	.286
7/16	.323	.242
1/2	.367	.275
9/16	.429	.322
5/8	.480	.360
11/16	.542	.406
3/4	.590	.442

REGO-FIX® ER32 Collet Sets

Description	Part #	Photo
Fractional 12 pc Collet Set with tray; includes all sizes	1132.00002	
Fractional Metallic Sealed 9 pc Collet Set with tray; includes all sizes	1232.00002	
Metric 18 pc Collet Set with tray *Sizes that are included in sets - see page 62.	1132.00000	
Metric Metallic Sealed 8 pc Collet Set with tray - see page 62.	1232.00000	

REGO-FIX® ER32 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250-.0850	3.18-2.18	1132.03182	
3/16	.1875-.1475	4.76-3.76	1132.04762	
1/4	.2500-.2100	6.35-5.35	1132.06352	
5/16	.3125-.2725	7.94-6.94	1132.07942	
3/8	.3750-.3350	9.53-8.53	1132.09532	
7/16	.4375-.3975	11.11-10.11	1132.11112	
1/2	.5000-.4600	12.70-11.70	1132.12702	
9/16	.5625-.5225	14.29-13.29	1132.14292	
5/8	.6250-.5820	15.88-14.88	1132.15882	
11/16	.6875-.6475	17.46-16.46	1132.17462	
3/4	.7500-.7100	19.05-18.05	1132.19052	
13/16	.8125-.7725	20.64-19.64	1132.20642	

REGO-FIX® ER32 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/4	.2500	6.35	1232.06352	
5/16	.3125-.2929	7.94-7.44	1232.07942	
3/8	.3750-.3556	9.53-9.03	1232.09532	
7/16	.4375-.4177	11.11-10.61	1232.11112	
1/2	.5000-.4803	12.70-12.20	1232.12702	
9/16	.5625-.5425	14.29-13.79	1232.14292	
5/8	.6250-.6055	15.88-15.38	1232.15882	
11/16	.6875-.6677	17.46-16.96	1232.17462	
3/4	.7500-.7303	19.05-18.55	1232.19052	

REGO-FIX® ER32 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
2.00-1.00	.0787-.0394	1/16	1132.02000	
2.50-1.50	.0984-.0591	3/32	1132.02500	
3.00-2.00*	.1181-.0787	—	1132.03000	
3.50-2.50	.1378-.0984	—	1132.03500	
4.00-3.00*	.1575-.1181	5/32	1132.04000	
4.50-3.50	.1772-.1378	—	1132.04500	
5.00-4.00*	.1969-.1575	—	1132.05000	
5.50-4.50	.2165-.1772	—	1132.05500	
6.00-5.00*	.2362-.1969	7/32	1132.06000	
6.50-5.50	.2559-.2165	—	1132.06500	
7.00-6.00*	.2756-.2362	—	1132.07000	
7.50-6.50	.2953-.2559	9/32	1132.07500	
8.00-7.00*	.3150-.2756	—	1132.08000	
8.50-7.50	.3347-.2953	—	1132.08500	
9.00-8.00*	.3543-.3150	11/32	1132.09000	
9.50-8.50	.3740-.3347	—	1132.09500	
10.00-9.00*	.3937-.3543	—	1132.10000	
10.50-9.50	.4134-.3740	13/32	1132.10500	
11.00-10.00*	.4330-.3937	—	1132.11000	
11.50-10.50	.4528-.4134	—	1132.11500	
12.00-11.00*	.4724-.4330	15/32	1132.12000	
12.50-11.50	.4921-.4528	—	1132.12500	
13.00-12.00*	.5118-.4724	—	1132.13000	
13.50-12.50	.5315-.4921	17/32	1132.13500	
14.00-13.00*	.5512-.5118	—	1132.14000	
14.50-13.50	.5709-.5315	—	1132.14500	
15.00-14.00*	.5905-.5512	—	1132.15000	
15.50-14.50	.6102-.5709	19/32	1132.15500	
16.00-15.00*	.6300-.5905	—	1132.16000	
16.50-15.50	.6496-.6102	—	1132.16500	
17.00-16.00*	.6693-.6300	21/32	1132.17000	
17.50-16.50	.6890-.6496	—	1132.17500	
18.00-17.00*	.7087-.6693	—	1132.18000	
18.50-17.50	.7284-.6890	23/32	1132.18500	
19.00-18.00*	.7480-.7087	—	1132.19000	
19.50-18.50	.7677-.7284	—	1132.19500	
20.00-19.00*	.7874-.7480	25/32	1132.20000	

REGO-FIX® ER32 Metric Metallic Sealed Collets

(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	1232.06000	
8.00-7.50	.3150-.2953	5/16	1232.08000	
10.00-9.50	.3937-.3740	3/8	1232.10000	
12.00-11.50	.4724-.4528	15/32	1232.12000	
14.00-13.50	.5512-.5315	—	1232.14000	
16.00-15.50	.6300-.6102	5/8	1232.16000	
18.00-17.50	.7087-.6890	11/16	1232.18000	
20.00-19.50	.7874-.7677	25/32	1232.20000	

* Represents items included in the Collet Set on page 61.

REGO-FIX® ER32 ANSI Tapping Collets

Shank ø	Square (Inch)	Pipe Tap	ER 16-GB Part No.	Photo
.168	.131	—	1432.04275	
.194	.152	—	1432.04935	
.220	.165	—	1432.05595	
.255	.191	—	1432.06485	
.318	.238	—	1432.08085	
.323	.242	—	1432.08215	
.367	.275	—	1432.09325	
.381	.286	—	1432.09685	
.429	.322	—	1432.10905	
.437	.328	•	1432.11104	
.480	.360	—	1432.12195	
.542	.406	—	1432.13775	
.562	.421	•	1432.14274	
.590	.442	—	1432.14995	
.652	.489	—	1432.16565	

ANSI Tap Dimensional Data

Tap Size	Shank	Square
5/32	.168	.131
No 8	.168	.131
3/16	.194	.152
No 9	.194	.152
No 10	.194	.152
1/4	.255	.191
5/16	.318	.238
3/8	.381	.286
7/16	.323	.242
1/2	.367	.275
9/16	.429	.322
5/8	.480	.360
11/16	.542	.406
3/4	.590	.442
13/16	.652	.489

REGO-FIX® ER40 Collet Sets

Description	Part #	Photo
Fractional 14 pc Collet Set with tray; includes all sizes	1140.00002	
Fractional Metallic Sealed 10 pc Collet Set with tray; includes all sizes	1240.00002	
Metric 23 pc Collet Set with tray *Sizes that are included in sets - see page 65	1140.00000	
Metric Metallic Sealed 12 pc Collet Set with tray; includes all sizes - see page 66	1240.00000	

REGO-FIX® ER40 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250-.0850	3.18-2.18	1140.03182	
3/16	.1875-.1475	4.76-3.76	1140.04762	
1/4	.2500-.2100	6.35-5.35	1140.06352	
5/16	.3125-.2725	7.94-6.94	1140.07942	
3/8	.3750-.3350	9.53-8.53	1140.09532	
7/16	.4375-.3975	11.11-10.11	1140.11112	
1/2	.5000-.4600	12.70-11.70	1140.12702	
9/16	.5625-.5225	14.29-13.29	1140.14292	
5/8	.6250-.5850	15.88-14.88	1140.15882	
11/16	.6875-.6475	17.46-16.46	1140.17462	
3/4	.7500-.7100	19.05-18.05	1140.19052	
13/16	.8125-.7725	20.64-19.64	1140.20642	
7/8	.8750-.8350	22.23-21.23	1140.22232	
1	1.000-.9600	25.40-24.40	1140.25402	

REGO-FIX® ER40 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
3/8	.3750-.3556	9.53-9.03	1240.09532	
7/16	.4375-.4177	11.11-10.61	1240.11112	
1/2	.5000-.4803	12.70-12.20	1240.12702	
9/16	.5625-.5425	14.29-13.79	1240.14292	
5/8	.6250-.6055	15.88-15.38	1240.15882	
11/16	.6875-.6677	17.46-16.96	1240.17462	
3/4	.7500-.7303	19.05-18.55	1240.19052	
13/16	.8125-.7929	20.64-20.14	1240.20642	
7/8	.8750-.8555	22.23-21.73	1240.22232	
1	1.0000-.9803	25.40-24.90	1240.25402	

REGO-FIX® ER40 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00-2.00	.1181-.0787	3/32	1140.03000	
3.50-2.50	.1378-.0984	—	1140.03500	
4.00-3.00*	.1575-.1181	5/32	1140.04000	
4.50-3.50	.1772-.1378	—	1140.04500	
5.00-4.00*	.1969-.1575	—	1140.05000	
5.50-4.50	.2165-.1772	—	1140.05500	
6.00-5.00*	.2362-.1969	7/32	1140.06000	
6.50-5.50	.2559-.2165	—	1140.06500	
7.00-6.00*	.2756-.2362	—	1140.07000	
7.50-6.50	.2953-.2559	9/32	1140.07500	
8.00-7.00*	.3150-.2756	—	1140.08000	
8.50-7.50	.3347-.2953	—	1140.08500	
9.00-8.00*	.3543-.3150	11/32	1140.09000	
9.50-8.50	.3740-.3347	—	1140.09500	
10.00-9.00*	.3937-.3543	—	1140.10000	
10.50-9.50	.4134-.3740	13/32	1140.10500	
11.00-10.00*	.4330-.3937	—	1140.11000	
11.50-10.50	.4528-.4134	—	1140.11500	
12.00-11.00*	.4724-.4330	15/32	1140.12000	
12.50-11.50	.4921-.4528	—	1140.12500	
13.00-12.00*	.5118-.4724	—	1140.13000	
13.50-12.50	.5315-.4921	17/32	1140.13500	
14.00-13.00*	.5512-.5118	—	1140.14000	
14.50-13.50	.5709-.5315	—	1140.14500	
15.00-14.00*	.5905-.5512	—	1140.15000	
15.50-14.50	.6102-.5709	19/32	1140.15500	
16.00-15.00*	.6300-.5905	—	1140.16000	
16.50-15.50	.6496-.6102	—	1140.16500	
17.00-16.00*	.6693-.6300	21/32	1140.17000	
17.50-16.50	.6890-.6496	—	1140.17500	
18.00-17.00*	.7087-.6693	—	1140.18000	
18.50-17.50	.7284-.6890	23/32	1140.18500	
19.00-18.00*	.7480-.7087	—	1140.19000	
19.50-18.50	.7677-.7284	—	1140.19500	
20.00-19.00*	.7874-.7480	25/32	1140.20000	
20.50-19.50	.8071-.7677	—	1140.20500	
21.00-20.00*	.8268-.7874	—	1140.21000	
21.50-20.50	.8465-.8071	27/32	1140.21500	
22.00-21.00*	.8661-.8268	—	1140.22000	
22.50-21.50	.8858-.8465	—	1140.22500	
23.00-22.00*	.9055-.8661	—	1140.23000	
23.50-22.50	.9252-.8858	29/32	1140.23500	
24.00-23.00*	.9449-.9055	15/16	1140.24000	
24.50-23.50	.9646-.9252	—	1140.24500	
25.00-24.00*	.9843-.9449	31/32	1140.25000	
25.50-24.50	1.0039-.9646	—	1140.25500	
26.00-25.00*	1.0236-.9843	—	1140.26000	
27.00-26.00	1.0630-1.0236	1-1/16	1140.27000	
28.00-27.00	1.1024-1.0630	1-3/32	1140.28000	
29.00-28.00	1.1417-1.1024	1-1/8	1140.29000	
30.00-29.00	1.1811-1.1417	1-5/32	1140.30000	

* Represents items included in the Collet Set on page 64.

REGO-FIX® ER40 Metric Metallic Sealed Collets (Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	1240.06000	
8.00	.3150	—	1240.08000	
10.00-9.50	.3937-.3740	3/8	1240.10000	
12.00-11.50	.4724-.4528	15/32	1240.12000	
14.00-13.50	.5512-.5315	—	1240.14000	
16.00-15.50	.6300-.6102	5/8	1240.16000	
18.00-17.50	.7087-.6890	—	1240.18000	
20.00-19.50	.7874-.7677	25/32	1240.20000	
22.00-21.50	.8661-.8465	—	1240.22000	
24.00-23.50	.9449-.9252	15/16	1240.24000	
25.00-24.50	.9843-.9646	31/32	1240.25000	
26.00-25.50	1.0236-1.0039	—	1240.26000	

REGO-FIX® ER40 ANSI Tapping Collets

Shank Diameter (Inch)	Square (Inch)	Pipe Tap	ER 16-GB Part No.	Photo
.255	.191	—	1440.06485	
.318	.238	—	1440.08085	
.323	.242	—	1440.08215	
.367	.275	—	1440.09325	
.381	.286	—	1440.09685	
.429	.322	—	1440.10905	
.437	.328	•	1440.11104	
.480	.360	—	1440.12195	
.542	.406	—	1440.13775	
.562	.421	•	1440.14274	
.590	.442	—	1440.14995	
.652	.489	—	1440.16565	
.687	.515	•	1440.17454	
.697	.523	—	1440.17705	
.700	.531	•	1440.17784	
.760	.570	—	1440.19305	
.800	.600	—	1440.20325	

* Represents items included in the Collet Set on page 64.

ANSI Tap Dimensional Data

Tap Size	Shank	Square
1/4	.255	.191
5/16	.318	.238
3/8	.381	.286
7/16	.323	.242
1/2	.367	.275
9/16	.429	.322
5/8	.480	.360
11/16	.542	.406
3/4	.590	.442
13/16	.652	.489
7/8	.697	.523
15/16	.760	.570
1	.800	.600

BILZ #1 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
#0-6	.141	.110	21-100-019	
#8	.168	.131	21-100-027	
#10	.194	.152	21-100-038	
#12	.220	.165	21-100-046	
1/4 (M6)	.255	.191	21-100-063	
5/16 (M8)	.318	.238	21-100-089	
3/8 (M10)	.381	.286	21-100-112	
7/16	.323	.242	21-100-091	
1/2 (M12)	.367	.275	21-100-105	
9/16	.429	.322	21-100-119	
1/16 Pipe	.313	.234	21-100-081	
1/8 Pipe*	.437	.328	21-100-124	
Set includes one of each of the above EXCEPT 1/8 pipe.			21-100-SET	

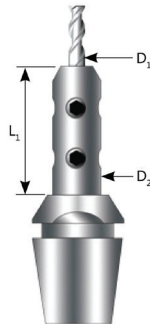
BILZ #2 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
1/4 (M6)	.255	.191	22-100-010	
5/16 (M8)	.318	.238	22-100-022	
3/8 (M10)	.381	.286	22-100-040	
7/16	.323	.242	22-100-023	
1/2 (M12)	.367	.275	22-100-033	
9/16	.429	.322	22-100-043	
5/8	.480	.360	22-100-058	
11/16	.542	.406	22-100-067	
3/4	.590	.442	22-100-147	
13/16	.652	.489	22-100-089	
7/8	.697	.523	22-100-093	
1/8 Pipe	.437	.328	22-102-016	
1/4 Pipe	.562	.421	22-102-002	
3/8 Pipe	.700	.531	22-102-005	
1/2 Pipe*	.687	.515	22-102-004	
Set includes one of each of the above EXCEPT 11/16, 13/16 and 7/8.			22-100-SET	

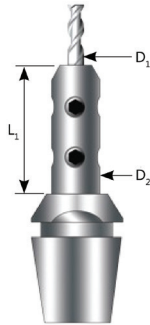
BILZ #3 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
3/4	.590	.442	23-100-013	
13/16 (M20)	.652	.489	23-100-018	
7/8 (M22)	.697	.523	23-100-021	
15/16 (M24)	.760	.570	23-100-028	
1 (M25)	.800	.600	23-100-031	
1-1/8	.896	.672	23-100-038	
1-1/4	1.021	.766	23-100-045	
1-3/8	1.108	.831	23-100-053	
3/8 Pipe	.700	.531	23-102-035	
1/2 Pipe	.688	.515	23-102-049	
3/4 Pipe	.906	.679	23-102-004	
1 Pipe	1.125	.843	23-102-007	
Set includes one of each of the above.			23-100-SET	

ER11 Small Tool Adapter for Milling & Boring

Bore Ø (D1)	Neck Ext. Ø (D2)	Ext. Length (L1)	Taper	Part #	Photo	Dimensions
.118 (3mm)	.315 (8mm)	.394 (10mm)	ER11	RA1000		
.118 (3mm)	.315 (8mm)	.590 (15mm)	ER11	RA1001		
.118 (3mm)	.315 (8mm)	.787 (20mm)	ER11	RA1002		
.125 (1/8)	.315 (8mm)	.394 (10mm)	ER11	RA1006		
.125 (1/8)	.315 (8mm)	.590 (15mm)	ER11	RA1007		
.125 (1/8)	.315 (8mm)	.787 (20mm)	ER11	RA1008		
.157 (4mm)	.315 (8mm)	.787 (20mm)	ER11	RA1010		

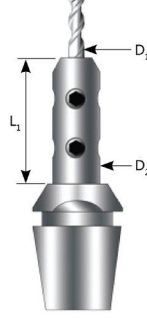
ER16 Small Tool Adapter for Milling & Boring

Bore Ø (D1)	Neck Ext. Ø (D2)	Ext. Length (L1)	Taper	Part #	Photo	Dimensions
.039 (1mm)	.252 (6.4MM)	.630 (16MM)	ER16	RA0950		
.059 (1.5mm)	.252 (6.4MM)	.630 (16MM)	ER16	RA0951		
.062 (1/16)	.252 (6.4MM)	.630 (16MM)	ER16	RA0952		
.079 (2mm)	.252 (6.4MM)	.630 (16MM)	ER16	RA0953		
.118 (3mm)	.374 (9.5mm)	.630 (16mm)	ER16	RA1014		
.118 (3mm)	.374 (9.5mm)	.984 (25mm)	ER16	RA1015		
.125 (1/8)	.374 (9.5mm)	.630 (16mm)	ER16	RA1018		
.125 (1/8)	.374 (9.5mm)	.984 (25mm)	ER16	RA1019		
.157 (4mm)	.374 (9.5mm)	.630 (16mm)	ER16	RA1022		
.157 (4mm)	.374 (9.5mm)	.984 (25mm)	ER16	RA1023		
.187 (3/16)	.374 (9.5mm)	.630 (16mm)	ER16	RA1026		
.187 (3/16)	.374 (9.5mm)	.984 (25mm)	ER16	RA1027		
.197 (5mm)	.374 (9.5mm)	.630 (16mm)	ER16	RA1032		
.197 (5mm)	.374 (9.5mm)	.984 (25mm)	ER16	RA1033		

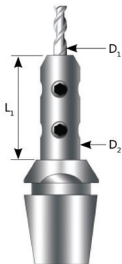
Replacement Hardware for Small Tool Milling and Boring Adapters

Type	Description	Part #
M3 X .5 X 3	Socket Head Set Screws Stainless	RA1050
M6 X 1.0 X 5	Socket Head Stop Screw	RA1051
M8 X 1.25 X 8	Socket Head Stop Screw	RA1054

ER20 Small Tool Adapter for Milling & Boring

Bore Ø (D1)	Neck Ext. Ø (D2)	Ext. Length (L1)	Taper	Part #	Photo	Dimensions
.118 (3mm)	.374 (9.5MM)	.984 (25mm)	ER20	RA1040		
.125 (1/8)	.374 (9.5MM)	.630 (16mm)	ER20	RA1041		
.125 (1/8)	.374 (9.5MM)	.984 (25mm)	ER20	RA1042		
.157 (4mm)	.374 (9.5MM)	.630 (16mm)	ER20	RA1043		
.157 (4mm)	.374 (9.5MM)	.984 (25mm)	ER20	RA1044		
.187 (3/16)	.449 (11.4)	.551 (14mm)	ER20	RA1055		
.187 (3/16)	.449 (11.4)	.630 (16mm)	ER20	RA1056		
.187 (3/16)	.449 (11.4)	.984 (25mm)	ER20	RA1057		
.197 (5mm)	.449 (11.4)	.551 (14mm)	ER20	RA1058		
.197 (5mm)	.449 (11.4)	.984 (25mm)	ER20	RA1059		
.236 (6mm)	.492 (12.5)	.551 (14mm)	ER20	RA1060		
.236 (6mm)	.492 (12.5)	.984 (25mm)	ER20	RA1061		
.250 (1/4)	.492 (12.5)	.551 (14mm)	ER20	RA1062		
.250 (1/4)	.492 (12.5)	.984 (25mm)	ER20	RA1063		

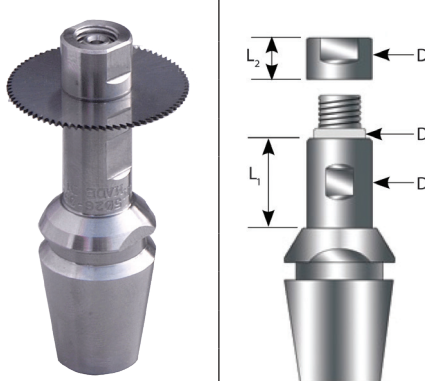
ER25 Small Tool Adapter for Milling & Boring

Bore Ø (D1)	Neck Ext. Ø (D2)	Ext. Length (L1)	Taper	Part #	Photo	Dimensions
.118 (3mm)	.394 (10.0mm)	.984 (25mm)	ER25	RA1070		
.125 (1/8)	.394 (10.0mm)	.984 (25mm)	ER25	RA1071		
.157 (4mm)	.394 (10.0mm)	.984 (25mm)	ER25	RA1072		
.187 (3/16)	.492 (12.5)	.984 (25mm)	ER25	RA1073		
.197 (5mm)	.492 (12.5)	.984 (25mm)	ER25	RA1074		
.236 (6mm)	.492 (12.5)	.984 (25mm)	ER25	RA1075		
.276 (7mm)	.630 (16.0mm)	.984 (25mm)	ER25	RA1076		
.312 (5/16)	.630 (16.0mm)	.984 (25mm)	ER25	RA1077		
.315 (8mm)	.630 (16.0mm)	.984 (25mm)	ER25	RA1078		

Replacement Hardware for Small Tool Milling and Boring Adapters

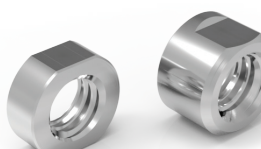
Type	Description	Part #
M3 X .5 X 3	Socket Head Set Screws Stainless	RA1050
M6 X 1.0 X 5	Socket Head Stop Screw	RA1051
M8 X 1.25 X 8	Socket Head Stop Screw	RA1054

ER16 Small Tool Adapter for Sawing

Pilot Dia (D1)	Nut Dia (D2)	Ext. Length (L1)	Nut Length (L2)	Thread	Taper	Part #	Photo	Dimensions
.1181	(3mm)	.252 (6.4mm)	.984 (25mm)	.354 (9mm)	M3X.5	ER16	RA2000	
.1181	(3mm)	.252 (6.4mm)	1.260 (32mm)	.354 (9mm)	M3X.5	ER16	RA2001	
.1250	(1/8)	.252 (6.4mm)	.984 (25mm)	.354 (9mm)	M3X.5	ER16	RA2004	
.1250	(1/8)	.252 (6.4mm)	1.260 (32mm)	.354 (9mm)	M3X.5	ER16	RA2005	
.1875	(3/16)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	10-32	ER16	RA2008	
.1875	(3/16)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	10-32	ER16	RA2009	
.1969	(5mm)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	M5X.8	ER16	RA2012	
.1969	(5mm)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	M5X.8	ER16	RA2013	
.2362	(6mm)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	M6X1	ER16	RA2016	
.2362	(6mm)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	M6X1	ER16	RA2017	
.2500	(1/4)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	1/4-32	ER16	RA2020	
.2500	(1/4)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	1/4-32	ER16	RA2021	
.3125	(5/16)	.394 (10mm)	.984 (25mm)	.354 (9mm)	5/16-32	ER16	RA2024	
.3125	(5/16)	.394 (10mm)	1.260 (32mm)	.354 (9mm)	5/16-32	ER16	RA2025	
.3150	(8mm)	.394 (10mm)	.984 (25mm)	.354 (9mm)	5/16-32	ER16	RA2028	
.3150	(8mm)	.394 (10mm)	1.260 (32mm)	.354 (9mm)	5/16-32	ER16	RA2029	

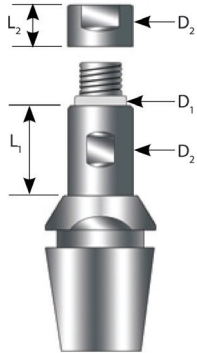
Note: Recommended MAX. SAW THICKNESS: ~2mm / .080"

Small Tool Saw Adapter Spare Arbor Nuts

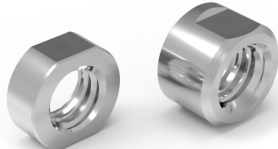
Description	Nut Diameter	Nut Thickness	Type	Part #	Dimensions
M3X.5 Arbor Jam Nut	.240 (6.0mm)	.118 (2.9mm)	1	RA2040	
M3X.5 Arbor Nut	.252 (6.4mm)	.354 (9mm)	2	RA2050	
10-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2041	
10-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2051	
M5X.8 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2042	
M5X.8 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2052	
M6X1 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2043	
M6X1 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2053	
1/4-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2044	
1/4-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2054	
5/16-32 Arbor Jam Nut	.384 (9.7mm)	.118 (2.9mm)	1	RA5045	
5/16-32 Arbor Nut	.394 (10mm)	.354 (9mm)	2	RA2055	
3/8-32 Arbor Jam Nut			1	RA2046	
3/8-32 Arbor Nut	.492 (12.5mm)	.267 (7mm)	2	RA2056	

Note: Recommended MAX. SAW THICKNESS: ~2mm / .080"

ER20 Small Tool Adapter for Sawing

Pilot Dia (D1)	Nut Dia (D2)	Ext. Length (L1)	Nut Length (L2)	Thread	Taper	Part #	Photo	Dimensions
.118	3.00mm	.250 (6.35mm)	.709 (18mm)	.250 (6.35mm)	M3 x .5	ER20	RA2070	 
.118	3.00mm	.250 (6.35mm)	1.180 (30mm)	.250 (6.35mm)	M3 x .5	ER20	RA2071	
.125	3.18mm	.250 (6.35mm)	.709 (18mm)	.250 (6.35mm)	M3 x .5	ER20	RA2072	
.125	3.18mm	.250 (6.35mm)	1.180 (30mm)	.250 (6.35mm)	M3 x .5	ER20	RA2073	
.187	4.76mm	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	3/16-32	ER20	RA2074	
.187	4.76mm	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	3/16-32	ER20	RA2075	
.197	5.00mm	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	3/16-32	ER20	RA2076	
.197	5.00mm	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	3/16-32	ER20	RA2077	
.236	6.00mm	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	M6 x 1	ER20	RA2078	
.236	6.00mm	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	M6 x 1	ER20	RA2079	
.250	6.35mm	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	1/4-32	ER20	RA2080	
.250	6.35mm	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	1/4-32	ER20	RA2081	
.312	7.94mm	.375 (9.50mm)	.709 (18mm)	.250 (6.35mm)	5/16-32	ER20	RA2082	
.312	7.94mm	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	5/16-32	ER20	RA2083	
.315	8.00mm	.394 (10.00mm)	.709 (18mm)	.250 (6.35mm)	5/16-32	ER20	RA2084	
.315	8.00mm	.394 (10.00mm)	1.180 (30mm)	.250 (6.35mm)	5/16-32	ER20	RA2085	
.375	9.52mm	.492 (12.00mm)	.709 (18mm)	.276 (7.00mm)	3/8-32	ER20	RA2086	
.375	9.52mm	.492 (12.00mm)	1.180 (30mm)	.276 (7.00mm)	3/8-32	ER20	RA2087	
.394	10.00mm	.492 (12.00mm)	.709 (18mm)	.276 (7.00mm)	3/8-32	ER20	RA2088	
.394	10.00mm	.492 (12.00mm)	1.180 (30mm)	.276 (7.00mm)	3/8-32	ER20	RA2089	

Small Tool Saw Adapter Spare Arbor Nuts

Description	Nut Diameter	Nut Thickness	Type	Part #	Dimensions
M3X.5 Arbor Jam Nut	.240 (6.0mm)	.118 (2.9mm)	1	RA2040	
M3X.5 Arbor Nut	.252 (6.4mm)	.354 (9mm)	2	RA2050	
10-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2041	
10-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2051	
M5X.8 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2042	
M5X.8 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2052	
M6X1 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2043	
M6X1 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2053	
1/4-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	RA2044	
1/4-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	RA2054	
5/16-32 Arbor Jam Nut	.384 (9.7mm)	.118 (2.9mm)	1	RA5045	
5/16-32 Arbor Nut	.394 (10mm)	.354 (9mm)	2	RA2055	

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Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Tap Drill Sizes			Metric Tap Drill Sizes		
								Tap Size	Cutting Tap Drill Size	Roll Form Tap Drill Size	Tap Size (Metric)	Cutting Tap Drill Size	Roll Form Tap Drill Size
0.1 mm	.0039	#41	.0960	15/64	.2344	13.0 mm	.5118	Cutting taps based on Approx. 75% Full Tread			Recommended Drill Sizes Suitable for 6H Tolerance		
0.2 mm	.0079	#40	.0980	6.0 mm	.2362	33/64	.5156						
0.3 mm	.0118	2.5 mm	.0984	B	.2380	17/32	.5313	0-80	3/64	54	M1.6 x 0.35	1.25mm	—
#80	.0135	#39	.0995	C	.2420	13.5 mm	.5315	1-64	53	1.65mm	M1.8 x 0.35	1.45 mm	—
#79	.0145	#38	.1015	D	.2460	35/64	.5469	1-72	53	1.7mm	M2 x 0.4	1.60mm	—
1/64	.0156	#37	.1040	E	.2500	14.0 mm	.5512	2-56	50	5/64	M2.2 x 0.45	1.75mm	—
0.4 mm	.0157	#36	.1065	1/4	.2500	9/16	.5625	2-64	50	2mm	M2.5 x 0.45	2.05mm	—
#78	.0160	7/64	.1094	6.5 mm	.2559	14.5 mm	.5709	3-48	47	43	M3 x 0.5	2.5mm	7/64
#77	.0180	#35	.1100	F	.2570	37/64	.5781	3-56	46	2.3mm	M3.5 x .06	2.9mm	3.2mm
0.5 mm	.0197	#34	.1110	G	.2610	15.0 mm	.5906	4-40	43	39	M4 x 0.7	3.3mm	#27
#76	.0200	#33	.1130	17/64	.2656	19/32	.5938	4-48	42	2.6mm	M4.5 x 0.75	3.75mm	4.10mm
#75	.0210	#32	.1160	H	.2660	39/64	.6094	5-40	39	33	M5 x 0.8	#19	4.60mm
#74	.0225	3.0 mm	.1181	I	.2720	15.5 mm	.6102	5-44	38	2.9mm	M6 x 1	5mm	5.50mm
0.6 mm	.0236	#31	.1200	J	.2756	5/8	.6250	6-32	36	1/8	M7 x 1	6 mm	6.50mm
#73	.0240	1/8	.1250	7.0 mm	.2770	16.0 mm	.6299	6-40	33	3.2mm	M8 x 1.25	H	L
#72	.0250	#30	.1285	K	.2810	41/64	.6406	8-32	29	25	M8 x 1	J	7.50mm
#71	.0260	#29	.1360	9/32	.2812	16.5 mm	.6496	8-36	29	24	M10 x 1.5	8.5mm	9.20mm
0.7 mm	.0276	3.5 mm	.1378	L	.2900	17.5 mm	.6562	10-24	25	11/64	M10 x 1.25	8.75mm	U
#70	.0280	#28	.1405	M	.2950	17.0 mm	.6693	10-32	21	16	M12 x 1.75	13/32	7/16
#69	.0292	9/64	.1406	7.5 mm	.2953	43/64	.6719	12-24	17	5mm	M12 x 1.25	10.75mm	.447*
#68	.0310	#27	.1440	19/64	.2969	11/16	.6875	12-28	15	8	M14 x 2	12mm	13mm
1/32	.0312	#26	.1470	N	.3020	17.5 mm	.6890	1/4-20	7	1	M14 x 1.5	12.5mm	13.20mm
0.8 mm	.0315	#25	.1495	5/16	.3125	45/64	.7031	1/4-28	3	A	M16 x 2	14mm	15mm
#67	.0320	#24	.1520	8.0 mm	.3150	18.0 mm	.7087	5/16-18	F	7.3mm	M16 x 1.5	14.5mm	15.25mm
#66	.0330	23/32	.1540	O	.3160	23/32	.7188	5/16-24	I	M	M18 x 2.5	15.5mm	16.25mm
#65	.0350	5/32	.1562	P	.3230	18.5 mm	.7283	3/8-16	5/16	8.8mm	M18 x 1.5	16.5mm	17.25mm
0.9 mm	.0354	#22	.1570	21/64	.3281	47/64	.7344	3/8-24	Q	T	M20 x 2.5	17.5mm	47/64
#64	.0360	4.0 mm	.1575	Q	.3320	19.0 mm	.7480	7/16-14	U	Y	M20 x 1.5	18.5mm	.757*
#63	.0370	#21	.1590	8.5 mm	.3346	49/64	.7656	7/16-20	W	10.5mm	M22 x 2.5	19.5mm	—
#62	.0380	#20	.1610	R	.3390	19.5 mm	.7677	1/2-13	27/64	11.8mm	M22 x 1.5	20.5mm	—
#61	.0390	#19	.1660	11/32	.3438	20.0 mm	.7874	1/2-20	29/64	12.0mm	M24 x 3	53/64	—
1.0 mm	.0394	#18	.1695	S	.3480	25/32	.7812	9/16-12	31/64	17/32	M24 x 2	22mm	—
#60	.0400	11/64	.1719	9.0 mm	.3543	51/64	.7969	9/16-18	33/64	13.5mm	M27 x 2	24mm	—
#59	.0410	#17	.1730	T	.3580	20.5 mm	.8071	5/8-11	17/32	14.75mm	M27 x 3	63/64	—
#58	.0420	#16	.1770	23/64	.3594	21.0 mm	.8268	5/8-18	37/64	15.25mm	M30 x 3.5	1-3/64*	—
#57	.0430	4.5mm	.1772	U	.3680	13/16	.8125	3/4-10	21/32	45/64	M30 x 2	1-7/64*	—
#56	.0465	#15	.1800	9.5 mm	.3740	21.0 mm	.8268	3/4-16	11/16	23/32	M33 x 3.5	1-11/64*	—
3/64	.0469	#14	.1820	3/8	.3750	53/64	.8281	7/8-9	49/64	—	M33 x 2	31mm*	—
#55	.0520	#13	.1850	V	.3770	27/32	.8438	7/8-14	13/16	—	M36 x 4	32mm*	—
#54	.0550	3/16	.1875	W	.3860	21.5 mm	.8465	1-8	7/8	—	M36 x 3	33mm*	—
1.5 mm	.0591	#12	.1890	25/64	.3906	55/64	.8594	1-12	59/64	—	M39 x 4	35mm*	—
#53	.0595	#11	.1910	10.0 mm	.3937	22.0 mm	.8661	1-14	15/16	—	M39 x 3	36mm*	* Reaming Recommended
1/16	.0625	#10	.1935	X	.3970	7/8	.8750	Pipe Tap Drill Size					
#52	.0635	#9	.1960	Y	.4040	22.5 mm	.8858	Tap Size	NPT** Tap Drill	NPTF** Tap Drill	NPS Tap Drill	NPSF Tap Drill	
#51	.0670	5.0 mm	.1969	13/32	.4062	57/64	.8906	1/16	D	C	1/4	D	
#50	.0700	#8	.1990	Z	.4130	23.0 mm	.9055	1/8	Q	Q	11/32	R	
#49	.0730	#7	.2010	10.5 mm	.4134	29/32	.9062	1/4	7/16	7/16	7/16	7/16	
#48	.0760	13/64	.2031	27/64	.4219	59/64	.9219	3/8	9/16	9/16	37/64	37/64	
5/64	.0781	#6	.2040	11.0 mm	.4331	23.5 mm	.9252	1/2	45/64	45/64	23/32	45/64	
#47	.0785	#5	.2055	7/16	.4375	15/16	.9375	3/4	29/32	29/32	59/64	59/64	
2.0 mm	.0787	#4	.2090	11.5 mm	.4528	24.0 mm	.9449	1	1-9/64	1-9/64	1-5/32	1-5/32	
#46	.0810	#3	.2130	29/64	.4531	61/64	.9531	1-1/4	1-31/64	1-31/64	1-1/2	—	
#45	.0820	5.5 mm	.2165	15/32	.4688	24.5 mm	.9646	1-1/2	1-47/64	1-23/32	1-3/4	—	
#44	.0860	7/32	.2188	12.0 mm	.4724	31/32	.9688	2	2-13/64	2-3/16	2-7/32	—	
#43	.0890	#2	.2210	31/64	.4844	25.0 mm	.9843	2-1/2	2-5/8	2-39/64	2-21/32D	—	
#42	.0935	#1	.2280	12.5 mm	.4921	63/64	.9844	3	3-1/4	3-15/64	R	—	
3/32	.0938	A	.2340	1/2	.5000	1	1.000	** For Tapping Without Reaming					

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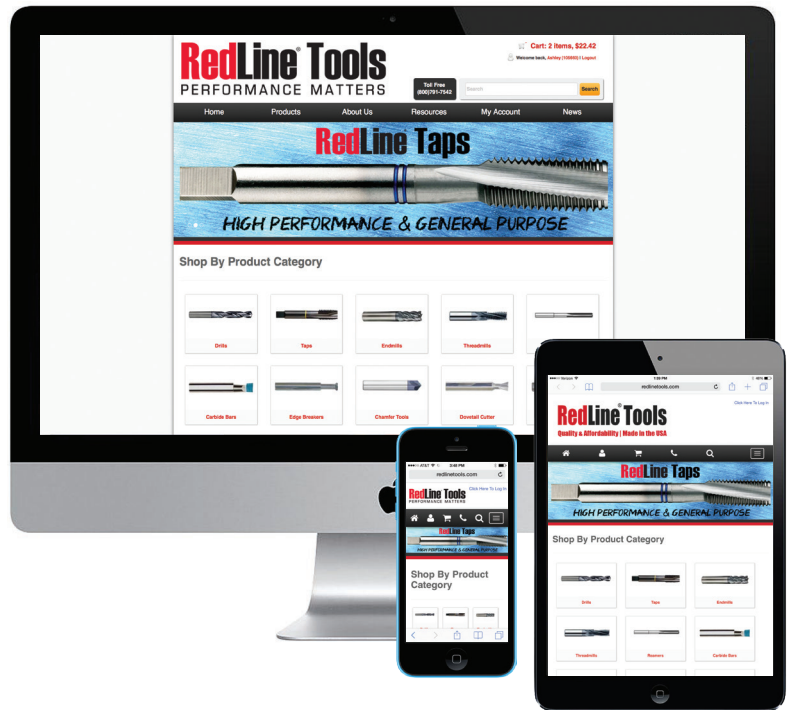
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