

T15.
ENGINEERING

CUTTING TOOLS • NC TOOLING

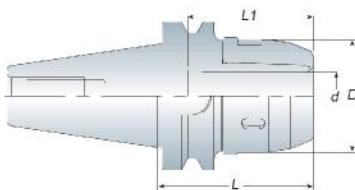
NC TOOLING



SC

High Speed Milling Chuck

高轉速強力銼刀夾頭刀桿



Product Specification

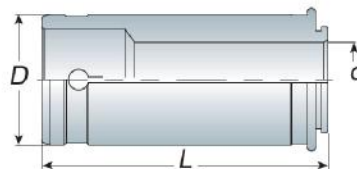
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 SC16-080	3 ~ 16	16	46	80	65	SC16	1.10
BT30 SC20-080	4 ~ 20	20	53	85	72	SC20	1.30
BT40 SC16-080	3 ~ 16	16	46	80	65	SC16	1.60
BT40 SC16-105	3 ~ 16	16	46	105	65	SC16	2.00
BT40 SC16-135	3 ~ 16	16	46	135	65	SC16	2.40
BT40 SC20-080	4 ~ 20	20	53	80	72	SC20	1.80
BT40 SC20-105	4 ~ 20	20	53	105	72	SC20	2.30
BT40 SC20-135	4 ~ 20	20	53	135	72	SC20	2.90
BT50 SC16-090	3 ~ 16	16	46	90	65	SC16	4.40
BT50 SC16-110	3 ~ 16	16	46	110	65	SC16	4.70
BT50 SC16-135	3 ~ 16	16	46	135	65	SC16	4.90
BT50 SC16-150	3 ~ 16	16	46	150	65	SC16	5.00
BT50 SC20-090	4 ~ 20	20	53	90	72	SC20	4.50
BT50 SC20-110	4 ~ 20	20	53	110	72	SC20	5.00
BT50 SC20-135	4 ~ 20	20	53	135	72	SC20	5.60
BT50 SC20-150	4 ~ 20	20	53	150	72	SC20	6.00

Unit: mm

SC

Straight Collet

直束筒夾



Product Specification

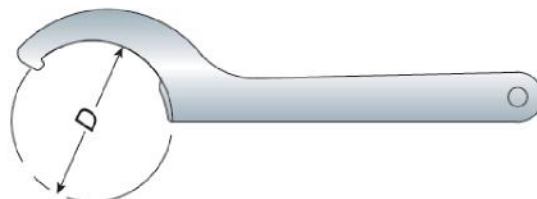
Model No.	D	d	L	Weight (kg)
SC12	12	3, 4, 5, 6, 7, 8, 9, 10	40	0.02
SC16	16	3, 4, 5, 6, 7, 8, 9, 10, 11, 12	42	0.06
SC20	20	4, 6, 8, 10, 12, 14, 16	52	0.10
SC25	25	6, 8, 10, 12, 14, 16, 18, 20	63	0.16
SC32 - Metric	32	6, 8, 10, 12, 14, 16, 18, 20, 25	71	0.30
SC32 - Inch	32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1	71	0.30
SC42	42	6, 8, 10, 12, 14, 16, 18, 20, 25, 32	71	0.60

Unit: mm

SC

C-type Wrench

C型扳手



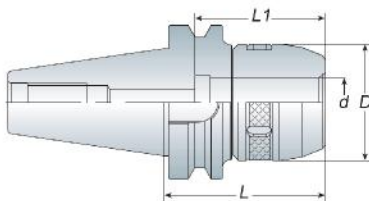
Product Specification

Model No.	D	Suit for	Weight (kg)
WSC16	46	ASC16	0.02
WSC20	53	ASC20	0.06
WSC25	55 ~ 60	ASC25 / OZ25	0.10
WSC32	68	BT30 / BT40 SC32	0.16
WSC42	72~84	BT50 ASC32 / SC42	0.30

Unit: mm

Milling Chuck

強力銑刀夾頭刀桿



Product Specification

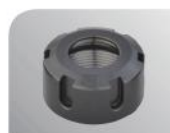
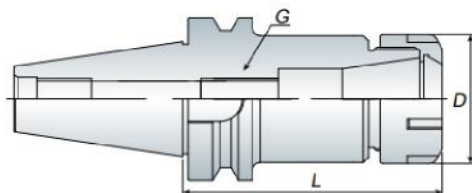
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 SC25-085	6 ~ 25	25	58	85	85	SC16	1.30
BT40 SC25-090	6 ~ 25	25	58	90	85	SC20	1.90
BT40 SC25-130	6 ~ 25	25	58	130	85	SC16	2.70
BT40 SC32-095	6 ~ 32	32	68	95	95	SC16	2.20
BT40 SC32-105	6 ~ 32	32	68	105	95	SC16	2.80
BT40 SC32-130	6 ~ 32	32	68	130	95	SC20	3.30
BT50 SC25-100	6 ~ 25	25	58	100	85	SC20	4.60
BT50 SC25-150	6 ~ 25	25	58	150	85	SC20	5.50
BT50 SC32-105	6 ~ 32	32	76	105	95	SC16	5.20
BT50 SC32-150	6 ~ 32	32	76	150	95	SC16	6.40
BT50 SC32-200	6 ~ 32	32	76	200	95	SC16	8.50
BT50 SC32-250	6 ~ 32	32	76	250	95	SC16	9.70
BT50 SC42-110	6 ~ 42	42	84	110	100	SC20	5.50
BT50 SC42-160	6 ~ 42	42	84	160	100	SC20	7.60

Unit: mm

ER

Spring Collet Chuck

彈性筒夾本體



P12- ER Nut



P14/15- ER Collet



P13- Wrench



P248 - Stop Screw

Product Specification

Model No.	Clamping Range	D	L	G	Collet Type	Wrench	Weight (kg)
BT30 ER08-060M	1 ~ 5	12	60	M6	ER08	WM08	0.50
BT30 ER08-100M	1 ~ 5	12	100	M6	ER08	WM08	0.60
BT30 ER11-100M	1 ~ 7	16	100	M8	ER11	WM11	0.60
BT30 ER16-100M	1 ~ 10	22	100	M12	ER16	WM16	0.70
BT30 ER20-100M	1 ~ 13	28	100	M14	ER20	WM20	0.80
BT40 ER11-070M	1 ~ 7	16	70	M8	ER11	WM11	1.15
BT40 ER11-100M	1 ~ 7	16	100	M8	ER11	WM11	1.20
BT40 ER16-100M	1 ~ 10	22	100	M12	ER16	WM16	1.25
BT40 ER20-100M	1 ~ 13	28	100	M14	ER20	WM20	1.30
BT30 ER11-060	1 ~ 7	19	60	M8	ER11	WER11	0.60
BT30 ER16-060	1 ~ 10	28	60	M12	ER16	WER16	0.60
BT30 ER16-070	1 ~ 10	28	70	M12	ER16	WER16	0.70
BT30 ER20-060	1 ~ 13	34	60	M14	ER20	WER20	0.60
BT30 ER25-060	2 ~ 16	42	60	M18	ER25	WER25	0.70
BT30 ER32-060	2 ~ 20	50	60	M24	ER32	WER32	0.75
BT30 ER32-070	2 ~ 20	50	70	M24	ER32	WER32	0.80
BT40 ER11-070	1 ~ 7	19	70	M8	ER11	WER11	1.20
BT40 ER11-100	1 ~ 7	19	100	M8	ER11	WER11	1.25
BT40 ER16-070	1 ~ 10	28	70	M12	ER16	WER16	1.20
BT40 ER16-100/150	1 ~ 10	28	100/150	M12	ER16	WER16	1.40/1.60
BT40 ER20-080	1 ~ 13	34	80	M14	ER20	WER20	1.30
BT40 ER20-100/150	1 ~ 13	34	100/150	M14	ER20	WER20	1.50/1.80
BT40 ER25-080	2 ~ 16	42	80	M18	ER25	WER25	1.50
BT40 ER25-100/150	2 ~ 16	42	100/150	M18	ER25	WER25	1.70/2.10

Unit: mm

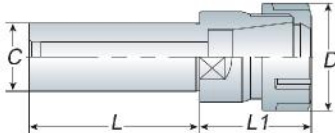
Product Specification							
Model No.	Clamping Range	D	L	G	Collet Type	Wrench	Weight (kg)
BT40 ER32-060	2 ~ 20	50	60	M24	ER32	WM32	1.30
BT40 ER32-070	2 ~ 20	50	70	M24	ER32	WM32	1.40
BT40 ER32-100/150	2 ~ 20	50	100/150	M24	ER32	WM32	1.80/2.60
BT40 ER40-080	3 ~ 26	63	80	M28	ER40	WM40	1.70
BT40 ER40-100	3 ~ 26	63	100	M28	ER40	WM40	2.20
BT50 ER16-100/150	1 ~ 10	28	100/150	M12	ER16	WM16	4.10/4.30
BT50 ER16-200/250/300	1 ~ 10	28	200/250/300	M12	ER16	WM16	4.60/5.10/5.40
BT50 ER20-100/150	1 ~ 13	34	100/150	M14	ER20	WM20	4.20/4.50
BT50 ER20-200/250/300	1 ~ 13	34	200/250/300	M14	ER20	WM20	4.90/5.50/5.90
BT50 ER25-100/150	1 ~ 16	42	100/150	M18	ER25	WER25	4.20/4.80
BT50 ER25-200/250/300	1 ~ 16	42	200/250/300	M18	ER25	WER25	5.30/6.10/6.80
BT50 ER32-100/150	1 ~ 20	50	100/150	M24	ER32	WER32	4.40/5.20
BT50 ER32-200/250/300	1 ~ 20	50	200/250/300	M24	ER32	WER32	5.90/6.60/7.50
BT50 ER40-080	2 ~ 26	63	80	M28	ER40	WER40	4.30
BT50 ER40-100/150	2 ~ 26	63	100/150	M28	ER40	WER40	4.70/5.90
BT50 ER40-200/250/300	2 ~ 26	63	200/250/300	M28	ER40	WER40	7.10/8.20/9.30

Unit: mm

ER

Straight Shank Collet Chuck
直柄彈性筒夾本體









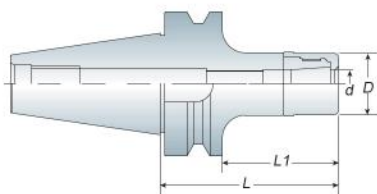

P12- ER Nut **P14/15-** ER Collet **P13-** Wrench **P248** - Stop Screw

Product Specification						
Model No.	C	D	L	L1	Collet Type	Weight (kg)
C20 ER16-050	20	28	50	35	ER16	0.20
C20 ER16-100/150	20	28	100/150	35		0.35/0.45
C20 ER20-050	20	34	50	40	ER20	0.25
C20 ER20-100/150	20	34	100/150	40		0.40/0.50
C20 ER25-050	20	42	50	46	ER25	0.40
C20 ER25-100/150	20	42	100/150	46		0.50/0.70
C25 ER16-100/150	25	28	100/150	20	ER16	0.20
C25 ER20-100/150	25	34	100/150	38	ER20	0.35/0.45
C25 ER25-100/150	25	42	100/150	42	ER25	0.25
C25 ER32-080	25	50	80	58	ER32	0.40/0.50
C25 ER40-100	25	63	100	60	ER40	0.40
C32 ER25-060	32	42	60	46	ER25	0.70
C32 ER32-100/150	32	50	100/150	58	ER32	1.10/1.40
C32 ER40-100	32	63	100	60	ER40	1.30
C40 ER32-100	40	50	100	52	ER32	1.30
C40 ER40-100	40	63	100	60	ER40	1.60

SK

High Speed Collet Chuck

高轉速精密筒夾本體



Product Specification

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT30 SK06-060	2 ~ 6	19.05	38	60	0.60
BT30 SK06-090	2 ~ 6	19.05	68	90	0.60
BT30 SK10-070	2 ~ 10	27	48	70	0.70
BT30 SK10-090	2 ~ 10	27	68	90	0.80
BT30 SK13-060	3 ~ 13	33	38	60	1.00
BT30 SK13-075	3 ~ 13	33	53	75	1.10
BT30 SK13-090	3 ~ 13	33	68	90	1.10
BT30 SK16-060	3 ~ 16	40	38	60	0.70
BT30 SK16-090	2 ~ 16	40	68	90	0.90
BT30 SK16-120	3 ~ 16	40	98	120	1.10
BT30 SK20-060	2 ~ 20	48	38	60	0.80
BT30 SK25-085	2 ~ 25.4	54	63	85	1.20
BT40 SK06-060	2 ~ 6	19.05	33	60	1.10
BT40 SK06-090	2 ~ 6	19.05	63	90	1.30
BT40 SK06-120	2 ~ 6	19.05	93	120	1.50
BT40 SK10-060	2 ~ 10	27	33	60	1.20
BT40 SK10-080	2 ~ 10	27	53	80	1.30
BT40 SK10-090	2 ~ 10	27	63	90	1.35
BT40 SK10-100	2 ~ 10	27	73	100	1.40
BT40 SK10-120	2 ~ 10	27	93	120	1.50
BT40 SK10-150	2 ~ 10	27	123	150	1.60
BT40 SK13-060	2 ~ 13	33	33	60	1.20
BT40 SK13-080	2 ~ 13	33	53	80	1.30
BT40 SK13-090	2 ~ 13	33	63	90	1.40
BT40 SK13-100	2 ~ 13	33	73	100	1.50
BT40 SK13-120	2 ~ 13	33	93	120	1.60
BT40 SK13-150	2 ~ 13	33	123	150	1.80

Unit: mm

Product Specification					
Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT40 SK16-060	3 ~ 16	40	33	60	1.30
BT40 SK16-080	3 ~ 16	40	53	80	1.50
BT40 SK16-090	3 ~ 16	40	63	90	1.55
BT40 SK16-100	3 ~ 16	40	73	100	1.60
BT40 SK16-120	3 ~ 16	40	93	120	1.90
BT40 SK16-150	3 ~ 16	40	123	150	2.10
BT40 SK20-060	4 ~ 20	48	33	60	1.30
BT40 SK20-090	4 ~ 20	48	63	90	1.80
BT40 SK20-120	4 ~ 20	48	93	120	2.40
BT40 SK25-070	6 ~ 25.4	54	43	70	1.50
BT40 SK25-090	6 ~ 25.4	54	63	90	1.90
BT40 SK25-120	6 ~ 25.4	54	93	120	2.20

Unit: mm

ER

Spring Collet
彈性筒夾

• DIN6499 ISO15488 Collet must be assembled into the clamping nut before inserting into the chuck

Product Specification

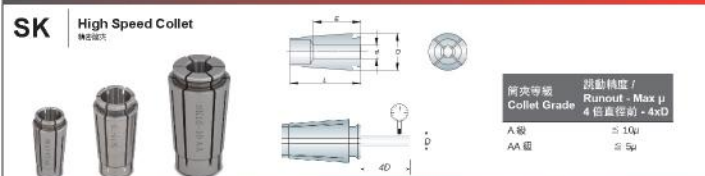
Metric Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1,1.5,2,2.5,3,3.5,4,4.5,5	8.5
ER11	11.5	18	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	8.5
ER16	17	27	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	8.5
ER20	21	31	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	8.5
ER25	26	35	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	8.5
ER32	33	40	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	8.5
ER40	41	46	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	8.5
ER50	52	60	12,14,16,18,20,22,24,26,28,30,32,34	8.5

Inch Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1,1.5,2,2.5,3,3.5,4,4.5,5	8.5
ER11	11.5	18	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	8.5
ER16	17	27	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	8.5
ER20	21	31	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	8.5
ER25	26	35	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	8.5
ER32	33	40	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	8.5

Unit: mm



SK06 (approx. 0.005kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK06-02	2	12	2 ~ 1.75	10.4	25
SK06-2.25	2.25	12	2.25 ~ 2		
SK06-2.5	2.5	12	2.5 ~ 2.25		
SK06-2.75	2.75	12	2.75 ~ 2.5		
SK06-03	3	15	3 ~ 2.75		
SK06-3.175	3.175	15	3.175 ~ 2.5		
SK06-3.5	3.5	15	3.5 ~ 3		
SK06-04	4	16	4 ~ 3.5		
SK06-4.5	4.5	16	4.5 ~ 4		
SK06-05	5	21	5 ~ 4.5		
SK06-5.5	5.5	21	5.5 ~ 5		
SK06-06	6	25	6 ~ 5.5		

SK10 (approx. 0.02kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK10-02	2	12	2 ~ 1.75	31	15.6
SK10-2.25	2.25	12	2.25 ~ 2		
SK10-2.5	2.5	12	2.5 ~ 2.25		
SK10-2.75	2.75	12	2.75 ~ 2.5		
SK10-03	3	15	3 ~ 2.75		
SK10-3.175	3.175	15	3.175 ~ 2.5		
SK10-3.5	3.5	15	3.5 ~ 3		
SK10-04	4	20	4 ~ 3.5		
SK10-4.5	4.5	20	4.5 ~ 4		
SK10-05	5	20	5 ~ 4.5		
SK10-5.5	5.5	20	5.5 ~ 5		
SK10-06	6	24	6 ~ 5.5		
SK10-6.5	6.5	24	6.5 ~ 5.5		
SK10-07	7	24	7 ~ 6.5		
SK10-7.5	7.5	24	7.5 ~ 7		
SK10-08	8	24	8 ~ 7.5		
SK10-8.5	8.5	24	8.5 ~ 8		
SK10-09	9	24	9 ~ 8.5		
SK10-9.5	9.5	24	9.5 ~ 9		
SK10-10	10	30.5	10 ~ 9.5		

Unit: mm

SK13 (approx. 0.04kgs/pc)Product Specification

Model No.	d	E	Range	D	L
SK13-03	3	18	3 ~ 2.75	20	39
SK13-3.175	3.175	18	3.175 ~ 2.7		
SK13-3.5	3.5	18	3.5 ~ 3		
SK13-04	4	20	4 ~ 3.5		
SK13-4.5	4.5	20	4.5 ~ 4		
SK13-05	5	20	5 ~ 4.5		
SK13-5.5	5.5	20	5.5 ~ 5		
SK13-06	6	24	6 ~ 5.5		
SK13-6.5	6.5	24	6.5 ~ 6		
SK13-07	7	26	7 ~ 6.5		
SK13-7.5	7.5	26	7.5 ~ 7		
SK13-08	8	28	8 ~ 7.5		
SK13-8.5	8.5	28	8.5 ~ 8		
SK13-09	9	30	9 ~ 8.5		
SK13-9.5	9.5	30	9.5 ~ 9		
SK13-10	10	30	10 ~ 9.5		
SK13-10.5	10.5	30	10.5 ~ 10		
SK13-11	11	30	11 ~ 10.5		
SK13-11.5	11.5	30	11.5 ~ 11		
SK13-12	12	39	12 ~ 11.5		
SK13-12.5	12.5	39	12.5 ~ 12		
SK13-13	13	39	13 ~ 12.5		

SK16 (approx. 0.08kgs/pc) Product Specification

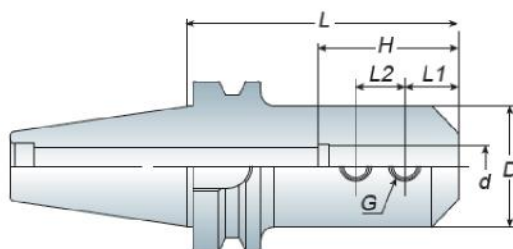
Model No.	d	E	Range	D	L
SK16-03	3	18	3 ~ 2.75	24.6	45
SK16-3.175	3.175	18	3.175 ~ 2.7		
SK16-3.5	3.5	18	3.5 ~ 3		
SK16-04	4	20	4 ~ 3.5		
SK16-4.5	4.5	20	4.5 ~ 4		
SK16-05	5	22	5 ~ 4.5		
SK16-5.5	5.5	22	5.5 ~ 5		
SK16-06	6	25	6 ~ 5.5		
SK16-6.5	6.5	25	6.5 ~ 6		
SK16-07	7	28	7 ~ 6.5		
SK16-7.5	7.5	28	7.5 ~ 7		
SK16-08	8	34	8 ~ 7.5		
SK16-8.5	8.5	34	8.5 ~ 8		
SK16-09	9	34	9 ~ 8.5		
SK16-9.5	9.5	34	9.5 ~ 9		
SK16-10	10	34	10 ~ 9.5		
SK16-10.5	10.5	34	10.5 ~ 10		
SK16-11	11	34	11 ~ 10.5		
SK16-11.5	11.5	34	11.5 ~ 11		
SK16-12	12	34	12 ~ 11.5		
SK16-12.5	12.5	34	12.5 ~ 12		
SK16-13	13	34	13 ~ 12.5		
SK16-13.5	13.5	34	13.5 ~ 13		
SK16-14	14	34	14 ~ 13.5		
SK16-14.5	14.5	34	14.5 ~ 14		
SK16-15	15	34	15 ~ 14.5		
SK16-15.5	15.5	34	15.5 ~ 15		
SK16-16	16	45	16 ~ 15.5		

Unit: mm

SLA

End Mill Holder

側固端銑刀桿



Product Specification

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
BT30 SLA06-060	6	25	60	12	10	32	M6	0.60
BT30 SLA08-060	8	28	60	14	12	36	M8	0.65
BT30 SLA10-060	10	35	60	15	14	40	M10	0.70
BT30 SLA12-060	12	40	60	18	16	45	M10	0.80
BT30 SLA16-075	16	45	75	22	18	50	M10	0.80
BT30 SLA20-075	20	50	75	25	20	60	M12	1.10
BT30 SLA25-075	25	55	75	25	22	65	M12	1.10
BT40 SLA06-075	6	25	75	12	10	32	M6	1.20
BT40 SLA06-100	6	25	100	12	10	32	M6	1.30
BT40 SLA08-075	8	28	75	14	12	36	M8	1.25
BT40 SLA08-100	8	28	100	14	12	36	M8	1.40
BT40 SLA10-075	10	35	75	15	14	40	M10	1.35
BT40 SLA10-100	10	35	100	15	14	40	M10	1.50
BT40 SLA12-075	12	40	75	20	16	45	M10	1.45
BT40 SLA12-100	12	40	100	20	16	45	M10	1.65
BT40 SLA14-075	14	42	75	18	16	45	M10	1.50
BT40 SLA14-100	14	42	100	18	16	45	M10	1.75
BT40 SLA16-075	16	45	75	20	18	50	M10	1.50
BT40 SLA16-100	16	45	100	20	18	50	M10	1.85
BT40 SLA18-075	18	48	75	20	18	50	M12	1.60
BT40 SLA18-100	18	48	100	22	18	50	M12	1.90
BT40 SLA20-075	20	50	75	20	18	60	M12	1.60
BT40 SLA20-100	20	50	100	25	20	60	M12	2.00
BT40 SLA25-075	25	55	75	22	18	65	M12	1.60
BT40 SLA25-100	25	55	100	25	22	65	M12	2.00
BT40 SLA32-090	32	60	90	30	22	70	M16	2.00
BT40 SLA40-105	40	80	105	30	22	80	M16	3.10
BT40 SLA42-105	42	80	105	30	22	80	M16	3.10

Unit: mm

Product Specification

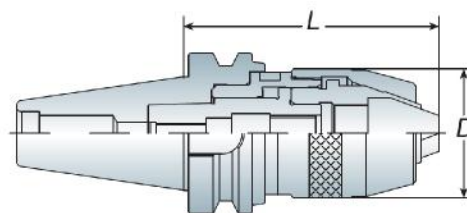
Model No.	C	D	L	L1	L2	H	G	Weight (kg)
BT50 SLA06-105/150/200	6	25	105/150/200	12	10	32	M6	4.10/4.30/4.60
BT50 SLA08-105/150/200	8	28	105/150/200	14	12	36	M8	4.10/4.35/4.65
BT50 SLA10-105/150/200	10	35	105/150/200	15	14	40	M10	4.20/4.50/5.10
BT50 SLA12-105/150/200	12	40	105/150/200	20	16	45	M10	4.35/4.80/5.30
BT50 SLA14-105	14	42	105	18	16	45	M10	4.35
BT50 SLA16-105/150/200	16	45	105/150/200	22	18	50	M10	4.45/4.90/5.60
BT50 SLA16-250/300	16	45	250/300	22	18	50	M10	6.60/6.90
BT50 SLA18-105	18	48	105	22	18	55	M10	4.50
BT50 SLA20-105/150/200	20	50	105/150/200	25	20	60	M12	4.50/5.20/5.90
BT50 SLA20-250/300	20	50	250/300	25	20	60	M12	6.60/7.75
BT50 SLA25-105/150/200	25	55	105/150/200	25	22	65	M12	4.60/5.40/6.50
BT50 SLA25-250/300	25	55	250/300	25	22	65	M12	7.00/8.50
BT50 SLA32-105/150/200	32	60	105/150/200	30	22	70	M16	4.70/5.80/6.60
BT50 SLA32-250/300	32	60	250/300	30	22	70	M16	7.60/9.30
BT50 SLA40-105/150/200	40	80	105/150/200	30	22	80	M16	5.40/7.00/9.00
BT50 SLA40-250	40	80	250	30	22	80	M16	10.80
BT50 SLA42-105/150/200	42	80	105/150/200	35	25	80	M20	5.50/7.00/8.90
BT50 SLA42-250	42	80	250	35	25	80	M20	10.80
BT50 SLA50.8-105	50.8	95	105	35	25	90	M20	6.00
BT50 SLA50.8-150	50.8	95	150	35	25	90	M20	8.50

Unit: mm

APU

Drill Chuck Holder

直截式鑽夾頭刀桿



Product Specification

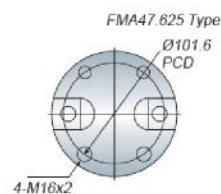
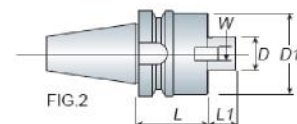
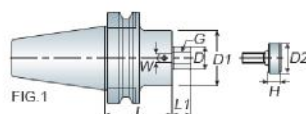
Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
BT30 APU08-080	0.3 ~ 8	37.5	75	82	1.00
BT30 APU13-100	0.3 ~ 13	50.5	97	104.5	1.50
BT40 APU08-085	0.3 ~ 8	37.5	79	86.5	1.50
BT40 APU13-110	0.3 ~ 13	50.5	98	109	2.00
BT40 APU16-130	3 ~ 16	57	116	130	2.60
BT50 APU08-095	0.3 ~ 8	37.5	90	97.5	4.20
BT50 APU13-120	0.3 ~ 13	50.5	109	120	4.70
BT50 APU13-180	0.3 ~ 13	50.5	169	180	5.80
BT50 APU16-130	3 ~ 16	57	116	130	5.10
BT50 APU16-190	3 ~ 16	57	176	190	6.20

Unit: mm

FMA

Face Mill Holder - Inch

平面銑刀桿



Product Specification

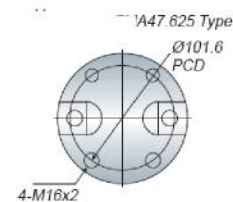
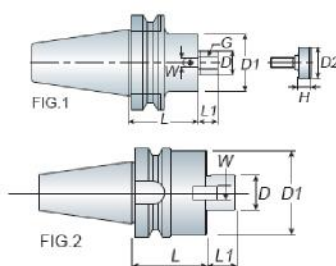
Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30 FMA25.4-045	1	25.4	45	33	45	20	9.5	13	M12	0.90
BT30 FMA25.4-060	1	25.4	45	33	60	20	9.5	13	M12	1.20
BT30 FMA31.75-045	1	31.75	58	40	45	22	12.7	13.5	M12	1.30
BT40 FMA25.4-045/060	1	25.4	60	33	45/60	20	9.5	13	M12	1.70/2.00
BT40 FMA25.4-090/105	1	25.4	60	33	90/105	20	9.5	13	M12	2.60/2.90
BT40 FMA25.4-125/150	1	25.4	60	33	125/150	20	9.5	13	M12	3.20/3.80
BT40 FMA31.75-045/060	1	31.75	70	40	45/60	22	12.7	13.5	M12	1.80/2.30
BT40 FMA31.75-090/105	1	31.75	70	40	90/105	22	12.7	13.5	M12	3.20/3.30
BT40 FMA38.1-045	1	38.1	85	50	45	23	15.9	15	M16	2.60
BT40 FMA38.1-060/105	1	38.1	85	50	60/90	23	15.9	15	M16	2.80/3.40
BT50 FMA25.4-045/075	1	25.4	60	33	45/75	20	9.5	13	M12	4.20/4.90
BT50 FMA25.4-045S/075S	1	25.4	48	33	45/75	20	9.5	13	M12	4.00/4.50
BT50 FMA25.4-105/125	1	25.4	60	33	105/125	20	9.5	13	M12	5.30/5.60
BT50 FMA25.4-105S/200S	1	25.4	48	33	105/125	20	9.5	13	M12	4.80/5.20
BT50 FMA25.4-150/200	1	25.4	60	33	150/200	20	9.5	13	M12	6.10/7.30
BT50 FMA25.4-150S/200S	1	25.4	48	33	150/200	20	9.5	13	M12	5.60/6.00
BT50 FMA25.4-250/300	1	25.4	60	33	250/300	20	9.5	13	M12	8.20/9.30
BT50 FMA25.4-250S/300S	1	25.4	48	33	250/300	20	9.5	13	M12	6.90/7.20
BT50 FMA25.4-350/400	1	25.4	60	33	350/400	20	9.5	13	M12	10.20/11.20
BT50 FMA31.75-045/075	1	31.75	70	40	45/75	22	12.7	13.5	M12	4.40/5.30
BT50 FMA31.75-105/125	1	31.75	70	40	105/125	22	12.7	13.5	M12	6.20/6.50
BT50 FMA31.75-150/200	1	31.75	70	40	150/200	22	12.7	13.5	M12	7.30/8.60
BT50 FMA31.75-250/300	1	31.75	70	40	250/300	22	12.7	13.5	M12	10.30/11.40
BT50 FMA38.1-040	1	38.1	85	50	45	23	15.9	15	M16	4.50
BT50 FMA38.1-075/105	1	38.1	85	50	75/105	23	15.9	15	M16	5.90/7.10
BT50 FMA38.1-125/150	1	38.1	85	50	125/150	23	15.9	15	M16	8.30/9.50
BT50 FMA38.1-175/200	1	38.1	85	50	175/200	23	15.9	15	M16	10.30/10.90
BT50 FMA50.8-045	1	50.8	95	65	45	24	19.05	16	M16	5.00
BT50 FMA50.8-075/105	1	50.8	95	65	75/105	24	19.05	16	M16	6.60/8.60
BT50 FMA50.8-150/200	1	50.8	95	65	150/200	24	19.5	16	M16	11.20/13.40
BT50 FMA47.625-075	2	47.625	128.57	-	75	32	25.4	-	-	8.30
BT50 FMA47.625-105/200	2	47.625	128.57	-	105/200	32	25.4	-	-	10.30/15.00

Unit: mm

FMB

Face Mill Holder - Metric

平面铣刀杆



Product Specification

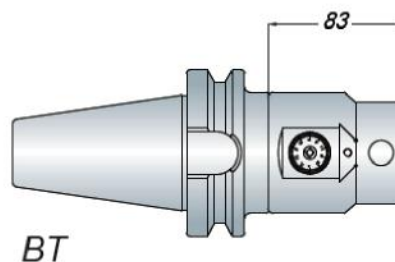
Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30 FMB22-045	1	22	46	-	45	18	10	-	M10	0.80
BT30 FMB27-045	1	27	60	32	45	20	12	13	M12	1.00
BT40 FMB16-045	1	16	38	-	45	15	8	-	M8	1.3
BT40 FMB22-045	1	22	48	-	45	18	10	-	M10	1.40
BT40 FMB22-060/090	1	22	48	-	60/90	18	10	-	M10	1.60/2.10
BT40 FMB22-105/125	1	22	48	-	105/125	18	10	-	M10	2.40/2.60
BT40 FMB22-150/200	1	22	48	-	150/200	18	10	-	M10	2.80/3.50
BT40 FMB27-045	1	27	60	32	45	20	12	13	M12	1.70
BT40 FMB27-060	1	27	60	32	60	20	12	13	M12	2.00
BT40 FMB27-090/105	1	27	60	32	90/105	20	12	13	M12	2.60/3.00
BT40 FMB32-045	1	32	63	41	45	21	14	16	M16	1.80
BT40 FMB32-060	1	32	63	41	60	21	14	16	M16	2.10
BT40 FMB32-090/105	1	32	63	41	90/105	21	14	16	M16	3.00/3.30
BT40 FMB40-045	1	40	68	47	45	23	16	15	M16	2.00
BT40 FMB40-060	1	40	68	47	60	23	16	15	M16	2.70
BT50 FMB16-045	1	16	38	-	45	15	8	-	M8	3.8
BT50 FMB22-045	1	22	48	-	45	18	10	-	M10	4.00
BT50 FMB22-07/105	1	22	48	-	75/105	18	10	-	M10	4.50/4.80
BT50 FMB22-125/150	1	22	48	-	125/150	18	10	-	M10	5.20/5.60
BT50 FMB22-175/200	1	22	48	-	175/200	18	10	-	M10	6.00/6.30
BT50 FMB22-250/300	1	22	48	-	250/300	18	10	-	M10	6.90/7.20
BT50 FMB22-350/400	1	22	48	-	350/400	18	10	-	M10	7.70/8.30
BT50 FMB27-045	1	27	65	32	45	20	12	13	M12	4.30
BT50 FMB27-075	1	27	65	32	75	20	12	13	M12	5.00
BT50 FMB27-090/105	1	27	65	32	90/105	20	12	13	M12	5.40/5.80
BT50 FMB27-150/200	1	27	65	32	150/200	20	12	13	M12	7.20/8.90
BT50 FMB32-045	1	32	73	41	45	21	14	16	M16	4.40
BT50 FMB32-075/105	1	32	73	41	75/105	21	14	16	M16	5.40/6.60
BT50 FMB32-150/200	1	32	73	41	150/200	21	14	16	M16	8.00/9.70
BT50 FMB40-045	1/2	40	85	47	45	23	16	15	M16	4.60
BT50 FMB40-075	1/2	40	85	47	75	23	16	15	M16	5.90
BT50 FMB40-105/150	1/2	40	85	47	105/150	23	16	15	M16	6.90/8.60
BT50 FMB60-075	2	60	128.57	-	75	32	25.4	-	-	7.30

Unit: mm

NBH

NBH2084 Micro Boring System

NBH2084 微調搪孔系統



Product Specification

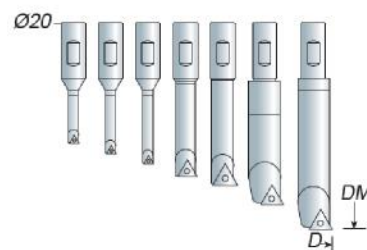
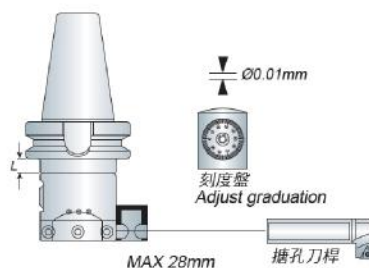
Model No.	Boring Range	Holder	Draw Bolt	Weight (kg)
BT40 NBH2084/SET	8 ~ 280	BT40 NBH2084	-	7.00
BT50 NBH2084/SET	8 ~ 280	BT50 NBH2084	-	9.50

Unit: mm

BJ20

BJ20 Boring Bar Set

BJ20 搪刀組

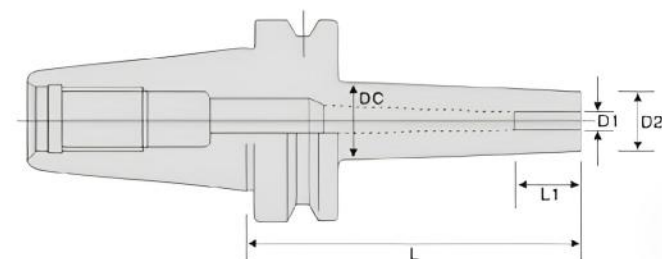


Product Specification

Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BJ2008-32	8 ~ 11	32	TBGT0601..L	MS2004A	T6	0.15
BJ2010-40	10 ~ 13	32		MS2005A		0.15
BJ2012-53	12 ~ 17	32	TPGH0902..L	MS2506A	T9	0.15
BJ2016-68	16 ~ 21	32				0.15
BJ2020-83	20 ~ 130	32	TPGH1103..L	MS3008A	T9	0.15
BJ2025-96	25 ~ 135	32				0.15
BJ2030-115	30 ~ 140	32				0.15
BJ20-20L	120 ~ 280	32				0.15

Unit: mm

BT-SF SHRINK FIT CHUCK



Product Specification

BT30	Item code	D1	D2	DC	L	Angle
	BT30-SR4-80	4	15	20	80	4.5°
	BT30-SR6-80	6	21	27	80	
	BT30-SR8-80	8	22	28	80	
	BT30-SR10-80	10	24	32	80	
	BT30-SR12-80	12	24	32	80	
	BT30-SR16-80	16	27	34	80	

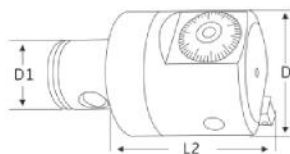
Product Specification

BT40	Item code	D1	D2	DC	L	Angle
	BT40-SR4-90	4.0	15	20	90	4.5°
	BT40-SR6-90	6.0	21	27	90	
	BT40-SR6-120	6.0	21	27	120	
	BT40-SR6-160	6.0	21	27	160	
	BT40-SR8-90	8.0	21	27	90	
	BT40-SR8-120	8.0	21	27	120	
	BT40-SR8-160	8.0	21	27	160	
	BT40-SR10-90	10.0	24	32	90	
	BT40-SR10-120	10.0	24	32	120	
	BT40-SR10-160	10.0	24	32	160	
	BT40-SR12-90	12.0	24	32	90	
	BT40-SR12-120	12.0	24	32	120	
	BT40-SR12-160	12.0	24	32	160	
	BT40-SR16-90	16.0	27	34	90	

Product Specification						
BT40	Item code	D1	D2	DC	L	Angle
	BT40-SR16-120	16.0	27	34	120	4.5°
	BT40-SR16-160	16.0	27	34	160	
	BT40-SR20-90	20.0	33	42	90	
	BT40-SR20-120	20.0	33	42	120	
	BT40-SR20-160	20.0	33	42	160	
	BT40-SR25-100	25.0	44	53	100	
	BT40-SR25-160	25.0	44	53	160	
	BT40-SR32-100	32.0	44	53	100	
	BT40-SR32-160	32.0	44	53	160	

Product Specification						
BT50	Item code	D1	D2	DC	L	Angle
	BT50-SR6-100	6.0	21	27	100	4.5°
	BT50-SR6-160	6.0	21	27	160	
	BT50-SR8-100	8.0	21	27	100	
	BT50-SR8-1160	8.0	21	27	160	
	BT50-SR10-160	10.0	24	32	100	
	BT50-SR10-100	10.0	24	32	160	
	BT50-SR12-100	12.0	24	32	100	
	BT50-SR12-160	12.0	24	32	160	
	BT50-SR16-100	16.0	27	34	100	
	BT50-SR16-160	16.0	27	34	160	
	BT50-SR20-100	20.0	33	12	100	
	BT50-SR20-160	20.0	33	12	160	
	BT50-SR25-100	25.0	44	53	100	
	BT50-SR25-160	25.0	44	53	160	
	BT50-SR32-100	32.0	44	53	100	
	BT50-SR32-160	32.0	44	53	160	

EWN FINISH BORING HEAD

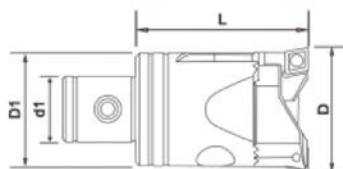


Product Features:

1. The EWN boring head is suitable for precision hole boring, with a processing range of $\phi 20$ - $\phi 203$ mm.
2. The precise scale allows for fine adjustment, with a fine adjustment precision of 0.01 mm per division (diameter).
3. The precision guide screw is located inside the product, with a lubricating function, and is not affected by chips, rust, and wear.
4. With an internal coolant channel, the coolant can be directly delivered to the tool tip, extending the tool life.
5. The cutting insert can be disassembled and can also be mounted in reverse for back boring operations. The side screws securely tighten the insert for stable cutting, and the contact surface is tight and vibration-free.

CODE	Insert holder	LBK No.	Boring range	Normal Boring			KG.	D1	D	L2	Wrench	Insert						
				Boring range	Effective length	Outer diameter												
EWN20-36	ENH1-1	LBK1	--	20-26	30	18.7	0.6	11	19	32.5	T6	TP..0802						
	ENH1-2	LBK1	30-31	25-31														
	ENH1-3	LBK1	30-36	30-36														
EWN25-47	ENH2-1	LBK2	--	25-33	33	24	0.16	14	24	36.5			T6	TP..0802				
	ENH2-2	LBK2	36-40	32-40														
	ENH2-3	LBK2	39-47	39-47														
EWN32-60	ENH3-1	LBK3	--	32-45	39	31	0.22	18	31	42.5					T6	TP..0802		
	ENH3-2	LBK3	46-51	41-51														
	ENH3-3	LBK3	50-60	50-60														
EWN41-74	ENH4-1	LBK4	--	40-55	47	39	0.44	22	39	51.5	T8	TC..1102 (TP..1103)						
	ENH4-2	LBK4	53-63	51-66														
	ENH4-3	LBK4	61-79	64-79														
EWN53-95	ENH5-1	LBK5	62-70	52-75	47	39	0.84	28	50	59.5			T8	TC..1102 (TP..1103)				
	ENH5-2	LBK5	69-82	70-93														
	ENH5-3	LBK5	78-95	89-112														
EWN68-150	ENH6-1	LBK6	80-100	68-100	66	64	1.71	36	64	70					T8	TC..1102 (TP..1103)		
	ENH6-2	LBK6	94-126	94-125														
	ENH6-3	LBK6	118-150	118-150														
EWN100-203	ENH6-1	LBK6	112-153	100-153	70	80	2.65	36	96	71							T8	TC..1102 (TP..1103)
	ENH6-2	LBK6	126-179	126-179														
	ENH6-3	LBK6	150-203	150-203														

RBH ROUGH BORING HEAD



Product Features:

1. Enhanced chip evacuation groove design, improving deep-hole chip removal. The insert seat integrates with the body tooth slot, increasing cutting rigidity.
2. Low-step design, applicable for both flat inserts and high-low inserts.
3. Bi-directional screw adjustment mechanism allows the insert seat to be moved forward and backward.

CODE	LBK No.	Boring Range	L	D1	d1	Insert	Screw	Wrench	KG.
RBH20-25	LBK1	20-25	36	19	11	CC..0602..	M2.5	T8	0.07
RBH25-33	LBK2	25-33	34	24	14	CC..0602..	M2.5	T8	0.1
RBH32-42	LBK3	32-42	47	31	18	CC..0602..	M2.5	T8	0.25
RBH40-54	LBK4	40-54	55	38	22	CC..09T3..	M4	T15	0.47
RBH52-70	LBK5	52-70	64	49	28	CC..09T3..	M4	T15	0.88
RBH68-95	LBK6	68-95	78	64	36	CC..1204..	M5	T20	1.86
RBH93-122	LBK6	90-122	78	63	36	CC..1204..	M5	T20	1.93
RBH120-164	BST	120-164			BST	CC..1204..	M5	T20	
RBH160-204	BST	160-204				CC..1204..	M5	T20	

LBK ARBOR



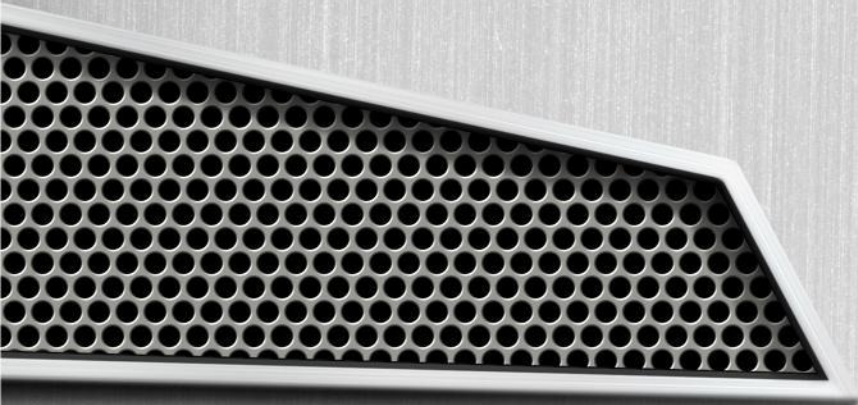
Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT30	LBK1	70	48	20	46	19	11	Rough boring: 19-120 Finish boring: 20-203
	LBK1	85	63	20	46	19	11	
	LBK1	105	83	20	46	19	11	
	LBK2	80	58	20	46	24	14	
	LBK2	115	93	20	46	24	14	
	LBK3	80	58	20	46	31	18	
	LBK3	115	93	20	46	31	18	
	LBK4	70	48	20	46	39	22	
	LBK4	115	93	20	46	39	22	
	LBK5	60	38	20	46	50	28	
	LBK5	125	103	20	46	50	28	
	LBK6	65	43	20	46	63	36	
	LBK6	115	93	20	46	63	36	

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT40	LBK1	75	48	25	63	19	11	Rough boring: 19-25 Finish boring: 20-36
	LBK1	105	78	25	63	19	11	
	LBK1	135	108	25	63	19	11	
	LBK1	150	123	25	63	19	11	
	LBK1	165	138	25	63	19	11	
	LBK1	195	168	25	63	19	11	
	LBK2	85	58	25	63	24	14	Rough boring: 19-25 Finish boring: 20-36
	LBK2	115	88	25	63	24	14	
	LBK2	150	123	25	63	24	14	
	LBK2	165	138	25	63	24	14	
	LBK2	200	173	25	63	24	14	
	LBK3	95	68	25	63	31	18	Rough boring: 32-42 Finish boring: 32-60
	LBK3	125	98	25	63	31	18	
	LBK3	155	128	25	63	31	18	
	LBK3	175	148	25	63	31	18	
	LBK3	215	188	25	63	31	18	
	LBK3	250	223	25	63	31	18	

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT40	LBK4	85	58	25	63	39	22	Rough boring: 40-55 Finish boring: 41-74
	LBK4	115	88	25	63	39	22	
	LBK4	130	103	25	63	39	22	
	LBK4	155	128	25	63	39	22	
	LBK4	175	148	25	63	39	22	
	LBK4	205	178	25	63	39	22	
	LBK4	250	223	25	63	39	22	
	LBK5	75	48	25	63	50	28	Rough boring: 52-70 Finish boring: 53-95
	LBK5	125	98	25	63	50	28	
	LBK5	150	123	25	63	50	28	
	LBK5	175	148	25	63	50	28	
	LBK5	205	183	25	63	50	28	
	LBK5	235	208	25	63	50	28	
	LBK5	250	228	25	63	50	28	
	LBK6	65	38	25	63	63	36	Rough boring: 68-92 / 90-252 Finish boring: 68-150 / 100-203
	LBK6	115	88	25	63	63	36	
	LBK6	140	113	25	63	63	36	
	LBK6	165	138	25	63	63	36	
	LBK6	205	178	25	63	63	36	
	LBK6	225	198	25	63	63	36	
	LBK6	250	223	25	63	63	36	

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT50	LBK1	105	67	35	100	19	11	Rough boring: 19-25 Finish boring: 20-36
	LBK1	145	107	35	100	19	11	
	LBK1	175	137	35	100	19	11	
	LBK2	110	72	35	100	24	14	Rough boring: 25-33 Finish boring: 25-47
	LBK2	140	102	35	100	24	14	
	LBK2	175	137	35	100	24	14	
	LBK2	200	162	35	100	24	14	
	LBK2	240	203	35	100	24	14	
	LBK3	110	72	35	100	31	18	Rough boring: 32-42 Finish boring: 32-60
	LBK3	155	117	35	100	31	18	
	LBK3	175	142	35	100	31	18	
	LBK3	205	167	35	100	31	18	
	LBK3	240	202	35	100	31	18	
	LBK3	255	217	35	100	31	18	
	LBK3	270	232	35	100	31	18	
	LBK3	300	262	35	100	31	18	
	LBK4	125	87	35	100	39	22	Rough boring: 40-55 Finish boring: 41-74
	LBK4	145	107	35	100	39	22	
	LBK4	180	142	35	100	39	22	
	LBK4	205	167	35	100	39	22	
	LBK4	240	202	35	100	39	22	
	LBK4	270	233	35	100	39	22	
	LBK4	300	262	35	100	39	22	
	LBK4	350	312	35	100	39	22	
	LBK4	400	362	35	100	39	22	

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT50	LBK5	105	62	35	100	39	28	Rough boring: 52-70 Finish boring: 53-95
	LBK5	125	87	35	100	50	28	
	LBK5	150	112	35	100	50	28	
	LBK5	180	142	35	100	50	28	
	LBK5	205	167	35	100	50	28	
	LBK5	240	202	35	100	50	28	
	LBK5	270	232	35	100	50	28	
	LBK5	300	262	35	100	50	28	
	LBK5	350	312	35	100	50	28	
	LBK5	400	362	35	100	50	28	
	LBK6	95	52	35	100	63	36	Rough boring: 68-92 / 90-122 Finish boring: 68-150 / 100-203
	LBK6	125	87	35	100	63	36	
	LBK6	150	112	35	100	63	36	
	LBK6	170	132	35	100	63	36	
	LBK6	205	167	35	100	63	36	
	LBK6	230	192	35	100	63	36	
	LBK6	270	232	35	100	63	36	
	LBK6	290	252	35	100	63	36	
	LBK6	350	312	35	100	63	36	
	LBK6	400	362	35	100	63	36	
	LBK6	450	412	35	100	63	36	
	LBK6	500	462	35	100	63	36	



T15.
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บริษัท ที15 เอ็นจิเนียริง จำกัด
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