

### QUICK CHANGE ER HEAD ASSEMBLY - COLLET NUT(S) INCLUDED (SHANKS FOR THESE HEADS ARE SHOWN ON PAGES 120, 122 & 123)



#### ER11 HEAD ASSEMBLIES (3 PC) FOR QUICK CHANGE SYSTEM NOTE: YOU CAN ALSO CONVERT ANY ER16 CAVITY TO A QUICK CHANGE ER11 SYSTEM WITH THESE HEAD ASSEMBLIES

QC ADAPTER PART#	THREAD SIZE	PROJECTION LTH
ER11S	M19 X 1.0	0.825
ER11L	M22 X 1.5	0.825

#### STRAIGHT SHANK ADAPTERS (2PC)

ONLY FOR QUICK CHANGE SYSTEM USING ER11S HEAD ASSEMBLIES

DESCRIPTION	PART#	PROJECTION LTH
1/8" STR. HOLE ADAPTER	BTH0125ER11	0.700
3/16" STR HOLE ADAPTER	BTH0188ER11	0.700
1/4" STR HOLE ADAPTER	BTH0250ER11	0.700
5/16" STR. HOLE ADAPTER	BTH0312ER11	0.700
3/8" STR HOLE ADAPTER	BTH0375ER11	0.700
4MM STR HOLE ADAPTER	BTH4MMER11	0.700
5MM STR HOLE ADAPTER	BTH5MMER11	0.700
6MM STR HOLE ADAPTER	BTH6MMER11	0.700

#### ER16 HEAD ASSEMBLIES (3 PC) FOR QUICK CHANGE SYSTEM NOTE: YOU CAN ALSO CONVERT ANY ER20 CAVITY TO A QUICK CHANGE ER16 SYSTEM WITH THESE HEAD ASSEMBLIES

QC ADAPTER PART#	THREAD SIZE	PROJECTION LTH
ER16S	M24 X 1.0	1.255
ER16L	M25 X 1.5	1.255

#### STRAIGHT SHANK ADAPTERS (2PC)

ONLY FOR QUICK CHANGE SYSTEM USING ER16S HEAD ASSEMBLIES

DESCRIPTION	PART#	PROJECTION LTH
1/8" STR. HOLE ADAPTER	BTH0125ER16	0.765
3/16" STR HOLE ADAPTER	BTH0188ER16	0.765
1/4" STR HOLE ADAPTER	BTH0250ER16	0.765
5/16" STR. HOLE ADAPTER	BTH0312ER16	0.765
3/8" STR HOLE ADAPTER	BTH0375ER16	0.765
1/2" STR HOLE ADAPTER	BTH0500ER16	0.765

#### ER20 HEAD ASSEMBLIES (3 PC) FOR QUICK CHANGE SYSTEM NOTE: YOU CAN ALSO CONVERT ANY ER25 CAVITY TO A QUICK CHANGE ER20 SYSTEM WITH THESE HEAD ASSEMBLIES

QC ADAPTER PART#	THREAD SIZE	PROJECTION LTH
ER20S	M30 X 1.0	1.455
ER20L	M32 X 1.5	1.455

#### STRAIGHT SHANK ADAPTERS (2PC)

ONLY FOR QUICK CHANGE SYSTEM USING ER20S HEAD ASSEMBLIES

DESCRIPTION	PART#	PROJECTION LTH
1/8" STR. HOLE ADAPTER	BTH0125ER20	0.800
3/16" STR HOLE ADAPTER	BTH0188ER20	0.800
1/4" STR HOLE ADAPTER	BTH0250ER20	0.800
5/16" STR. HOLE ADAPTER	BTH0312ER20	0.800
3/8" STR HOLE ADAPTER	BTH0375ER20	0.800
1/2" STR HOLE ADAPTER	BTH0500ER20	0.800
5/8" STR HOLE ADAPTER	BTH0625ER20	0.800

#### ER25 HEAD ASSEMBLIES (3 PC) FOR QUICK CHANGE SYSTEM NOTE: YOU CAN ALSO CONVERT ANY ER32 CAVITY TO A QUICK CHANGE ER25 SYSTEM WITH THIS HEAD ASSEMBLY

QC ADAPTER PART#	THREAD SIZE	PROJECTION LTH
ER25S	M40 X 1.5	1.565

#### STRAIGHT SHANK ADAPTERS (2PC)

ONLY FOR QUICK CHANGE SYSTEM USING ER25S HEAD ASSEMBLIES

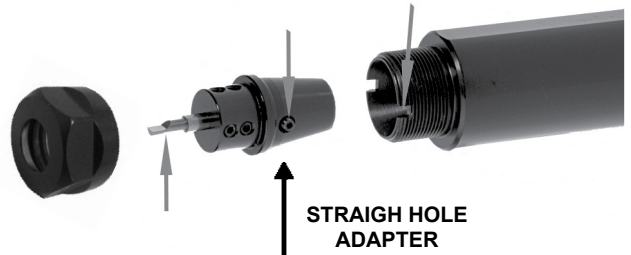
DESCRIPTION	PART#	PROJECTION LTH
1/4" STR HOLE ADAPTER	BTH0250ER25	1.060
5/16" STR. HOLE ADAPTER	BTH0312ER25	1.060
3/8" STR HOLE ADAPTER	BTH0375ER25	1.060
1/2" STR HOLE ADAPTER	BTH0500ER25	1.060
5/8" STR HOLE ADAPTER	BTH0625ER25	1.060
3/4" STR HOLE ADAPTER	BTH0750ER25	1.060

#### ER32 HEAD ASSEMBLIES (3 PC) FOR QUICK CHANGE SYSTEM NOTE: YOU CAN ALSO CONVERT ANY ER40 CAVITY TO A QUICK CHANGE ER32 SYSTEM WITH THIS HEAD ASSEMBLY

QC ADAPTER PART#	THREAD SIZE	PROJECTION LTH
ER32S	M50 X 1.5	1.680

NOTE: STRAIGHT HOLE ADAPTERS AVAILABLE ON REQUEST

See Page 156-160 for collets.



**BORING TOOLS ARE PERFECTLY CENTERED**  
DUE TO 90° TIMING OF THE FLAT ON THE SHANK OF THE TOOLHOLDER TO THE I.D. NOTCHES ON THE FRONT OF THE TOOLHOLDER AND THE SAME TIMING OF THE PINS ON THE STRAIGHT SHANK ADAPTERS TO THE SCREWS HOLDING THE BROACH TOOL.



#### HIGH PRESSURE STEEL COOLANT LINES

LENGTH	CAT#
6"	CL-6
8"	CL-8
12"	CL-12
16"	CL-16