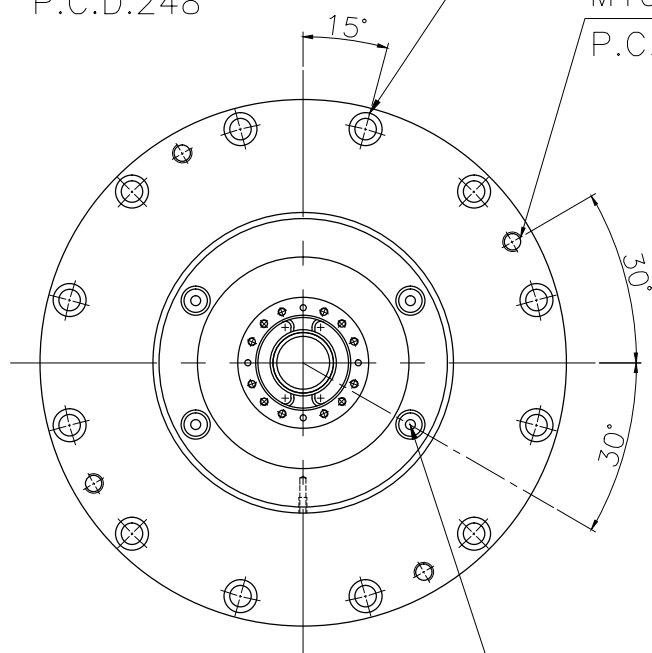
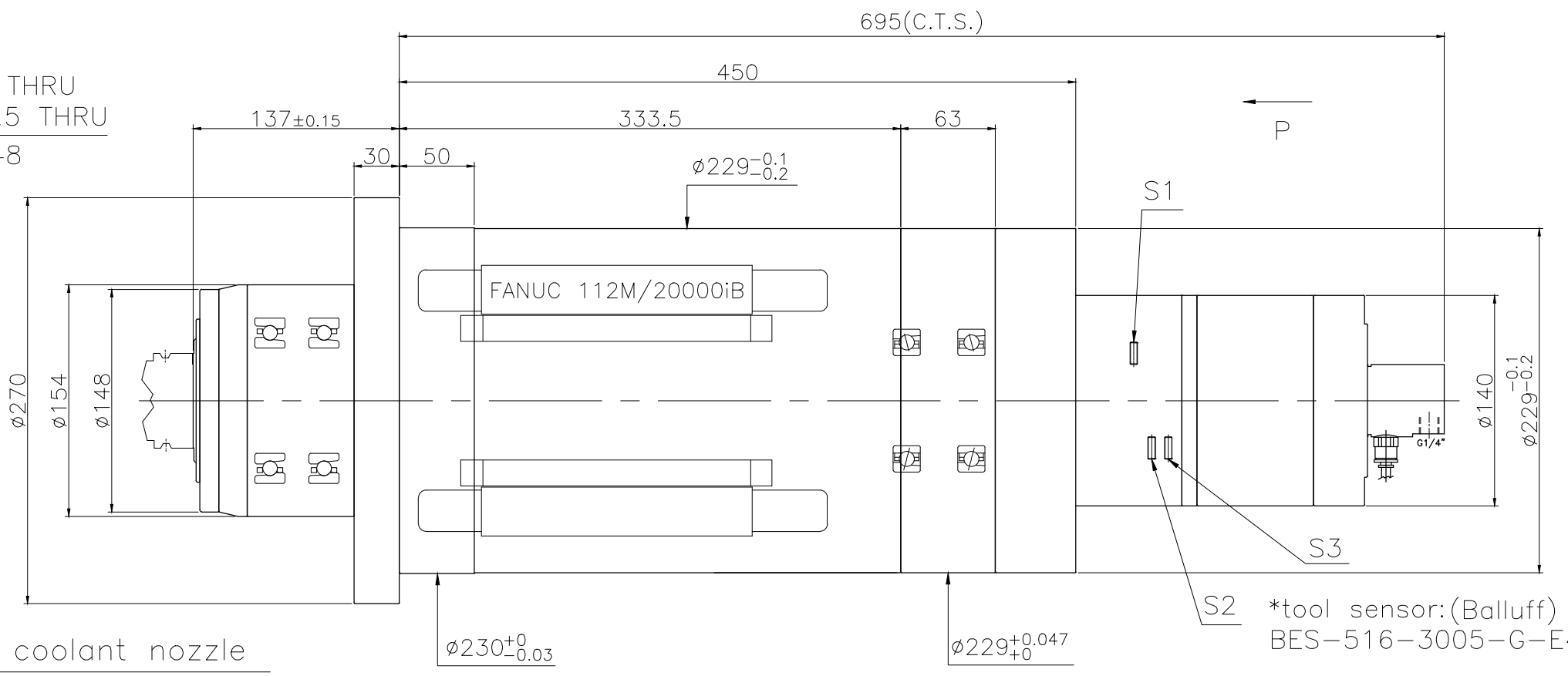


12- $\phi 11$  THRU  
C/Bore  $\phi 17.5 \times 10.8$  DP.  
P.C.D.248

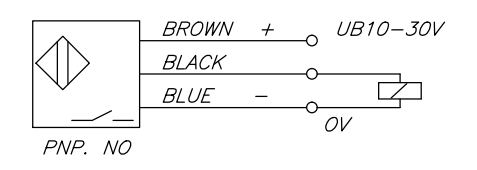
4- $\phi 8.5$  THRU  
M10xP1.5 THRU  
P.C.D.248



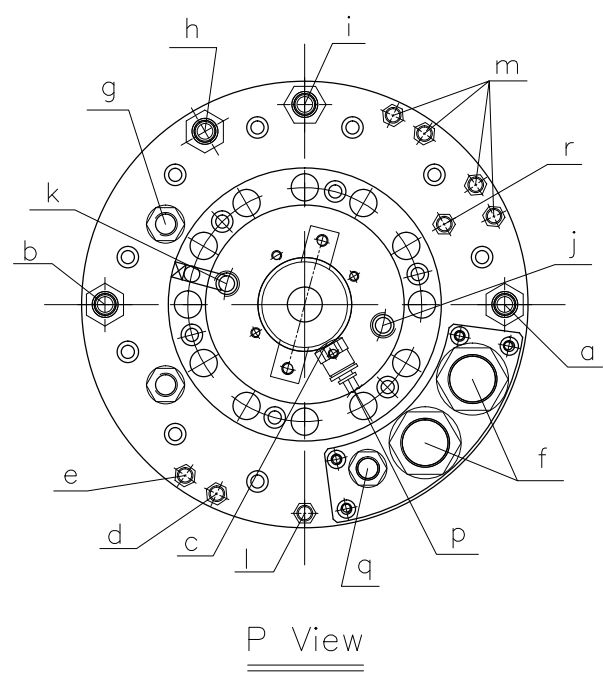
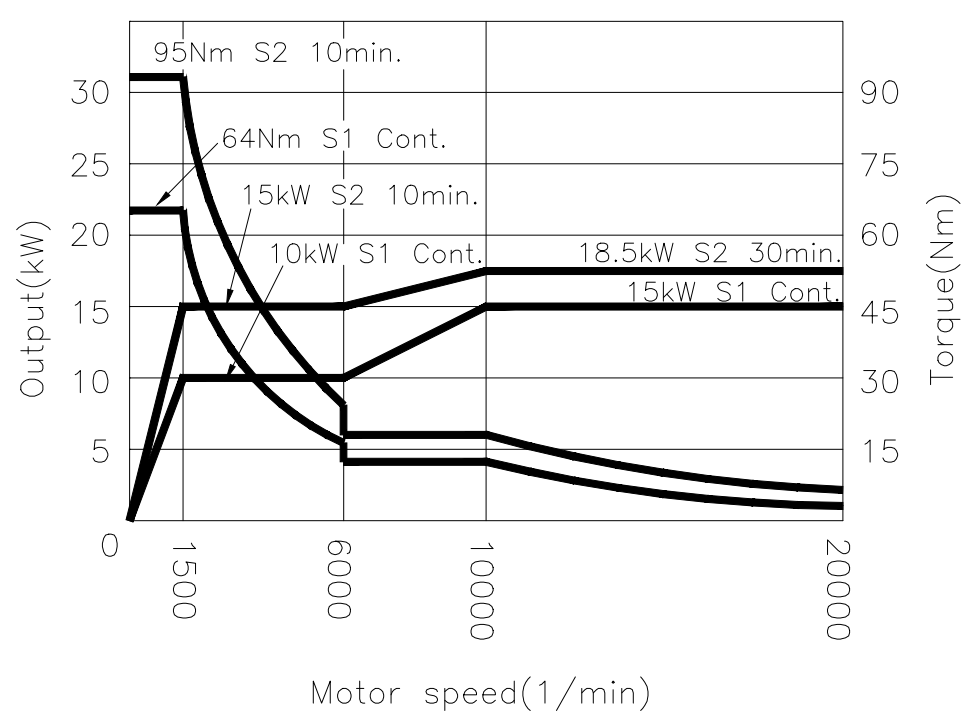
4-Cutting coolant nozzle



\*tool sensor: (Balluff)  
BES-516-3005-G-E4-C



### $\alpha 112M/20000iB$



a,b	External coolant(PT1/4- $\rightarrow$ PH1/2)
c	C.T.S. coolant in(PF1/4) Taper cleaning
d	Air seal(PT1/8- $\rightarrow$ $\phi 8$ )
e	Front brg. temp. cable(PT100)
f	Power cable
g	Encoder cable
h	Cooling out(PT1/4- $\rightarrow$ PH1/2)
i	Cooling in(PT1/4- $\rightarrow$ PH1/2)
j	Tool unclamping hydraulic(PT1/4- $\rightarrow$ PH3/8)
k	Tool unclamping hydraulic(PT1/4- $\rightarrow$ PH3/8)
l	Drainage(Oil-Air)(PT1/8- $\rightarrow$ $\phi 4$ )
m	Oil air(PT1/8- $\rightarrow$ $\phi 4$ )
p	Drainage
q	Motor temp. cable
r	Rear brg. temp. cable(PT100)

Condition Sensor	Tool Unclamping	Tool Clamping	Without Tool
S1	1	0	0
S2	0	1	0
S3	0	1	1

1 : The guiding light turn on  
0 : The guiding light turn off

Max. speed	20,000rpm
Tool system	HSK A63
Pull stud	-
Clamping force	18 kN
Front bearing ID	$\phi 70$
Lubrication	Oil-air
Cooling system	Oil
Oil volume max.	90 cm <sup>3</sup>
Hydraulic	45~60 kgf/cm
Remark	C.T.S. Type Spindle

PERMISSIBLE MACHING BASIC DIMENSION DEVIATIONS				
>0	>6	>30	>120	>400
>1000				
$\pm 0.05$	$\pm 0.10$	$\pm 0.15$	$\pm 0.20$	$\pm 0.30$
$\pm 0.50$				
PERMISSIBLE DRILLING BASIC DIMENSION DEVIATIONS				$+0.25$ $-0.05$
PERMISSIBLE ANGLE BASIC DIMENSION DEVIATIONS				$\pm 0.5^\circ$

DRAWN			
DESIGNED			
CHECKED			
MATERIAL			
SCALE	1:4		

**setco**  
Precision Solutions

NAME \_\_\_\_\_

DWG.NO. 225A010\_DIM

ver.coordinates	Changing content	Modified by	date
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