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Specification for a new Three manual and Pedal Organ for St Mary's RC Cathedral, Newcastle upon Tyne

The organ has been designed to be placed on a new gallery at the west end of the cathedral. The gallery will also provide seating for the cathedral choir, and has been designed in complementary style with the organ. The balustrade of the gallery will feature decorated panels in similar style to the organ case.

The main organ case contains the Great and Pedal divisions, with the Swell behind and the full-length wooden pipes of the Contra Bass 16 standing behind the swell box. The Choir organ is placed in its own case at the front of the gallery. The centre of both cases has been kept low to afford the maximum view of the tracery of the west window.

The cases will be framed of Oak, with decorated and gilded panels. The colouring will be chosen to be complement the existing range of colours already present in the cathedral and in liaison with the cathedral Architect.

The front pipes of the organ will be of polished tin metal, with gilded mouths. The pipeshades above the tops of the pipes will feature flowers symbolic of the Virgin Mary, appropriately coloured and gilded.

The organ is intended to be a versatile instrument for the accompaniment of congregation and choir and as a versatile solo instrument. It will have mechanical (tracker) key actions with an electric stop action and piston system.

The specification is as follows:

GREAT	<i>13 stops</i>	
Bourdon	16	1-20 Pine and Oak (1-4 Quint 5 $\frac{1}{3}$), from g#21 25% tin
Open Diapason	8	80% tin, 1-36 display pipes - main case
Stopped Diapason	8	Pine and Oak
Harmonic Flute	8	1-18 from St. Diap, from f#19 25% tin, harmonic from f#31
Cone Gamba	8	1-6 from St. Diap, from F#7 52% tin, tapered
Principal	4	52% tin
Spitz Flute	4	25% tin 1-18 stopped, from f#19 open tapered
Fifteenth	2	52% tin
Cornet III	2 $\frac{2}{3}$	25% tin, c25 - f54 (mounted)
Furniture III-IV	2	52% tin, 15.19.22 (12.15.19.22 at c13)
Sharp Mixture III	2 $\frac{2}{3}$	52% tin, 26.29.33
Trumpet	8	52% tin
Chamade	8	Copper, 1-8 half length, 42-54 harmonic, horizontal
<i>Tremulant</i>		

SWELL 13 stops

Diapason	8	52% tin, 1-8 Haskells
Flûte à cheminée	8	1-18 Pine and Oak, from f#19 25% tin
Viole de Gambe	8	52% tin, 1-6 Haskells
Voix céleste	8	52% tin, from A10
Prestant	4	52% tin
Flûte harmonique	4	25% tin, harmonic from a22
Doublette	2	52% tin
Plein Jeu IV	1½	52% tin, 19.22.26.29
Basson	16	52% tin, 1-16 half length
Trompette	8	52% tin
Hautbois	8	52% tin
Voix humaine	8	52% tin
Clairon	4	52% tin
<i>Tremulant</i>		

CHOIR 10 stops

Bourdon	8	1-18 Pine and Oak, from f#19 25% tin
Salicional	8	1-12 from St. Diap, from c13 52% tin, tapered
Principal	4	80% tin, 1-23 display pipes - gallery 'chaire' case
Chimney Flute	4	25% tin
Nasard	2⅔	25% tin, tapered
Octave	2	52% tin
Recorder	2	25% tin, tapered
Tierce	1⅓	25% tin
Mixture III	1	52% tin, 22.26.29
Cromorne	8	52% tin
<i>Tremulant</i>		

PEDAL 10 stops

Contra Bass	16	Pine and Oak, open wood pipes standing behind swell box
Open Diapason	16	1-7 from Sub Bass with 8ft open wood helpers 8-12 display pipes of 80% tin, in side towers of main case 13-30 by communication from Great Open Diapason 8
Sub Bass	16	Pine and Oak, stopped wood
Violoncello	8	Pine and Oak, open wood
Flute	8	Pine and Oak 12 notes (1-18 from Sub Bass)
Choral Bass	4	52% tin
Mixture IV	2⅔	52% tin
Bombarde	16	Full length, Pine boots, resonators of Zinc and 52% tin
Fagot	16	1-6 half length, Pine resonators, small scale
Trumpet	8	52% tin (1-18 from Bombarde)

COUPLERS

Swell to Great
 Choir to Great
 Swell to Choir
 Swell to Pedal
 Great to Pedal
 Choir to Pedal

PISTON COUPLERS

Great and Pedal combinations coupled
 Generals on Swell toe pistons

ACTIONS

Mechanical (tracker) key actions to all manual divisions and pedal, employing wooden trackers, squares and backfalls, and aluminium rollers with wooden arms. Compensating action tensioning will be fitted to maintain a constant depth of key touch at the keyboards.

Electric stop action, with combination system as detailed below:

CONSOLE ACCESSORIES

Thumb pistons

Eight divisional pistons for each manual division
Reversible pistons for all couplers
Eight general pistons
Advance for Stepper on each keyboard, one Retard
Set and General Cancel pistons

Toe pistons

Eight divisional pistons for the Pedal division
Eight pistons duplicating Swell thumb pistons
Advance and Retard
Reversible piston for Great to Pedal

Combination system

Piston capture system with the following features:
9 levels of memory for the divisional pistons
250 levels of memory for the general pistons
Stepper and independent Sequencer

Keyboards

Three manual keyboards C-c 61 notes
Natural coverings of fine quality Bone and sharps of Ebony

Pedalboard

Pedalboard C-f 30 notes
of Oak with Maple keys and Ebony overlay on the sharp heads

Balanced swell pedal with direct mechanical linkage controlling vertical swell louvres.

Adjustable organ bench